Technical Memorandum
Screening Level Air Human Health Risk Assessment
NAF Atsugi, Japan

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EXECUTIVE SUMMARY

The purpose of this 1998 screening health risk assessment is to verify the results of a 1995 screening health risk assessment to determine the potential health effects associated with breathing the air at NAF Atsugi. This information was requested to determine if any additional actions were needed to ensure protection of health before completing a full health risk assessment to fully determine the health risk.

In 1994, an air quality and impact study was conducted at NAF Atsugi by the Naval Facilities Engineering Service Center, Port Hueneme, CA. Data collected at two on-base locations (a fenceline location between Jinkanpo and NAF Atsugi and an upwind location) were evaluated by the Navy Environmental Health Center (NAVENVIRHLTHCEN). The NAVENVIRHLTHCEN risk screening conducted in 1995 indicated that air quality at NAF Atsugi could result in as much as one additional cancer in a population of 10,000 adults after approximately 6 years of exposure. For children under 6 years of age, this same level of risk could be reached after an exposure period of approximately 3 years. The report also indicated that there is a potential for increased non-cancer health effects, such as respiratory conditions and irritation of the eyes, nose and throat.

This 1998 screening health risk assessment estimated the average risk for nine locations at NAF Atsugi. The nine locations are the Skeet Range, 2 Golf Course locations, the fenceline between Jinkanpo and NAF Atsugi, the Ground Electronics Maintenance Building, the Enlisted Towers (Building #3101), the playground near the enlisted towers, the Khaki Towers (Building #3102), and the Child Development Center. The results indicated, again, there is a potential for increased risk for both cancer and non-cancer health effects and a full health risk assessment is needed. The average cancer risk was about the same for all nine sites and similar to the cancer risk estimated in 1995. The average non-cancer risk was about the same for all locations and had the same potential to cause non-cancer health effects, as in the 1995 screening assessment.

Recommendations made in the 1995 report to reduce potential exposures and conduct a full health risk assessment remain the same.

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NAVAL AIR FACILITY ATSUGI
TECHNICAL MEMORANDUM
SCREENING LEVEL AIR HUMAN HEALTH RISK ASSESSMENT

References:
(a) Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual, Part A Interim Final (1989). EPA/540/1-89/002.

(b) Air Quality and Impact Study and Human Health Preliminary Risk Evaluation of Jinkanpo Incineration Complex Activities on Naval Air Facility Atsugi. Japan, Navy Environmental Health Center and Naval Facilities Engineering Service Center, October 1995

1.0 SCREENING LEVEL HUMAN HEALTH RISK ASSESSMENT

1.1 Purpose

The purpose of this screening level human health risk assessment was to provide an additional estimate of the potential human health risks to individuals living and working on Naval Air Facility (NAF) Atsugi, Japan resulting from poor air quality. This screening assessment used data collected during a short period of time (July 27 to September 11, 1997). It focused only on inhalation of vapors and particulates and did not take into account other routes of exposure (e.g., via soil pathways). NEHC used data that was collected by a Navy contractor for compliance purposes, to be used for negotiations with the Japanese Government in an attempt to stop the Jinkanpo Incinerator's air permit renewal and increase in burning capacity. The Navy was interested in knowing if the health risk from the new compliance data was similar to the health risk from the previous data and therefore, further support the recommendation to conduct a full health risk assessment. Due to limitations on time, resources, lack of specific information and available data, NEHC was compelled to conduct a conservative risk assessment using the data collected for compliance purposes. The data used was the only new data available since the screening health risk assessment was conducted in 1995. New data is now being collected for a comprehensive risk assessment for which sampling was initiated in March of 1998. Additional soil and air sampling efforts are planned for the near future and a baseline risk assessment will be performed, after all sampling efforts have been completed, to provide a more complete estimate of the potential health risks to individuals living and working on NAF Atsugi. The general approach for preparing this screening risk assessment is presented in reference (a).

1.2 Introduction

Risk assessment is an established approach to evaluate the potential for adverse health effects from exposures to toxic constituents. The screening level risk assessment is a management-decision tool and does not provide absolute statements about possible human health effects. Screening level risk assessments focus on constituents and exposure pathways directly related to the site (i.e., the incremental risks due to emissions from the site). These assessments do not address risks from other sources of exposure (e.g., dietary exposures) or risks from other constituents that are not associated with the site under evaluation. The human health risk assessment process is comprised of the following five tasks:

1. Data Evaluation, Reduction, and Screening. This task identifies potential constituents of concern (COCs) from analytical data obtained from the field-sampling program. Constituents detected in at least one sample during the field investigation are identified and screened to obtain a final list of constituents to be evaluated in the risk assessment.

2. Exposure Assessment. This task identifies potentially exposed populations (i.e., receptors), exposure scenarios, exposure pathways, and exposure factors. The algorithms used to calculate risk are also presented in this section.

3. Toxicity Assessment. This task identifies toxicity values for the COCs identified in task 1. Toxicity values include noncarcinogenic reference doses and carcinogenic slope factors.

4. Risk Characterization. This task presents the human health risks associated with exposure to the COCs that were calculated using the information developed in tasks 1 - 3.

5. Uncertainty Analysis. Identifies key uncertainties inherent in the evaluation that should be considered when assessing the risks presented in this document.

1.3 Site Setting and Background Information

Figure 1-1 presents the location of NAF Atsugi, which is located in the Kanto Plain area on the island of Honshu, Japan. Figure 1-2 shows the location of NAF Atsugi in relation to other Navy installations in Japan. Other major U.S. military installations at Yokota and Camp Zama lie within a 20 mile radius of the facility. NAF Atsugi shown in Figure 1-3 is located at a slightly higher elevation adjacent to a Japanese owned and operated Jinkanpo Incineration Complex situated in the valley immediately south of the Naval Air Facility. This complex shown in Figure 1-4 operates as a private waste and combustion disposal facility and is equipped with four incinerators located approximately 100 meters outside of the NAF Atsugi fenceline. The incinerator stack heights are only slightly higher than the plateau where NAF Atsugi is located. From May through August the prevailing winds are south to north, blowing emissions from the incineration complex towards NAF Atsugi. Due to the complex topography and short stack height relative to the plateau, when the emissions leave the stack they are carried towards NAF Atsugi almost at ground level. Environmental concerns have been raised at NAF Atsugi regarding health impacts due to the emission of air pollutants through a fumigation condition and through fugitive emissions during the storage, handling, and disposal of liquid and solid waste material at the Jinkanpo Incineration Complex.

A human health preliminary risk evaluation (reference (b)) was conducted in October of 1995 using data collected for an air quality and impact study collected at a fenceline and an upwind site which was also impacted by the incinerator to some extent. The results indicated an unacceptable cancer risk at the fenceline (Site 2) considering average air concentrations for children under 6 years of age for a period of 3 years, which is the normal length for a tour of duty, and greater than two tours of length of duty for adults. When average concentrations were considered the cancer risk was still unacceptable for children for the same exposure duration.

The samples collected in 1994 were analyzed for volatile organic compounds, semi-volatile organic compounds including polynuclear aromatic hydrocarbons, organochlorine pesticides and PCBs, dioxins and furans, metals, and particulates.

Meteorological data was collected for an ambient air quality and impact study. Ambient air concentrations were used along with the meteorological data to develop an air emissions inventory for the Jinkanpo incinerator through air dispersion modeling. Samples were collected in the plume during the period when the prevalent winds blew constantly toward the base.

2.0 Data Evaluation, Reduction, and Screening

The purpose of this section is to identify the constituents of concern (COC)s that will be evaluated in the risk assessment. Because QA/QC information was not available, the collected data was not evaluated for holding times, blanks, results of laboratory control samples, recoveries of surrogates spikes in samples, and duplicate samples. Data quality objectives required by risk assessment guidance such as low detection limits were not met. The detection limits for many analytes were above the level of concern. The data has been qualified by the laboratory that analyzed the samples, however, the data has not been validated by a third party.

2.1 Summer 1997 Air Sampling Results

Approximately 450 air samples were collected from 9 different locations at NAF Atsugi on 23 different days from 7/27/97 through 9/11/97. The 9 different locations shown on Figure 2-1 were:

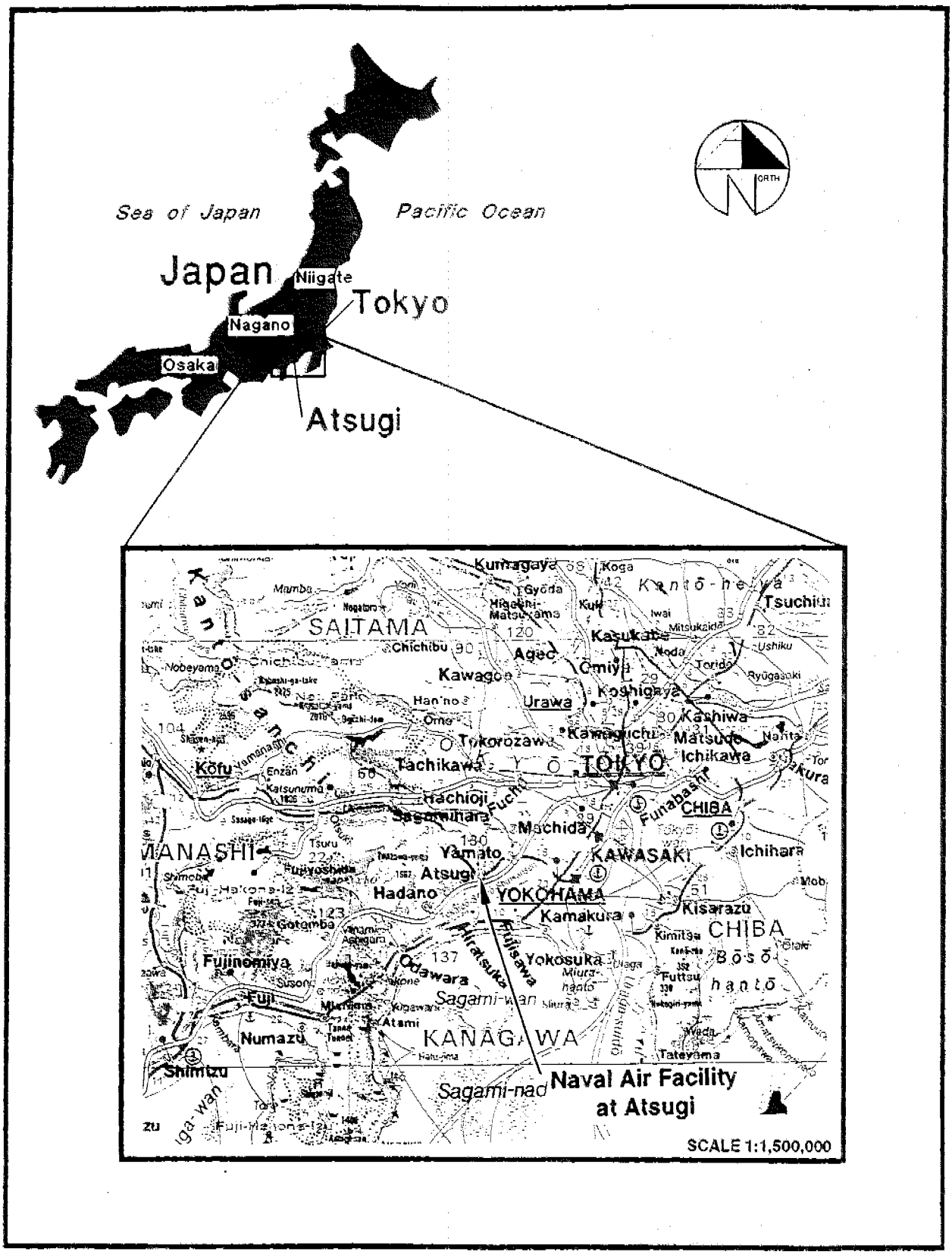
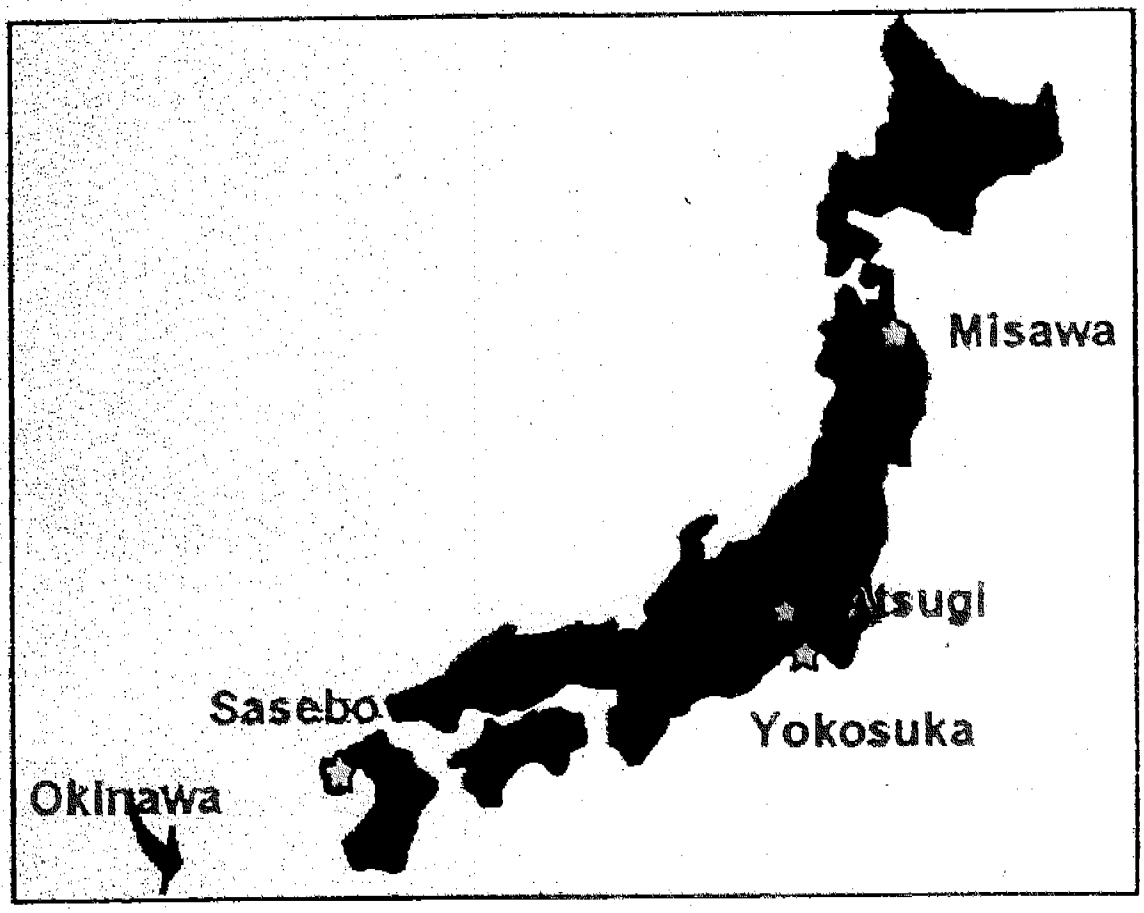


Figure 1-1. Location of NAF Atsugi, Japan

Commander, U.S. Naval Forces, Japan is located at Fleet Activities Yokosuka, Japan.



Click on a location on the above map to go to that base, or choose from the list below

Other installations in the CNFJ coordination area are:

- Fleet Activities Sasebo, Japan
- Naval Air Facility Atsugi, Japan
- Fleet Activities Okinawa, Japan
- Naval Air Facility Misawa, Japan
- Diego Garcia, British Indian Ocean Territory

Figure 1-2. Location of Other Navy Installations in Japan

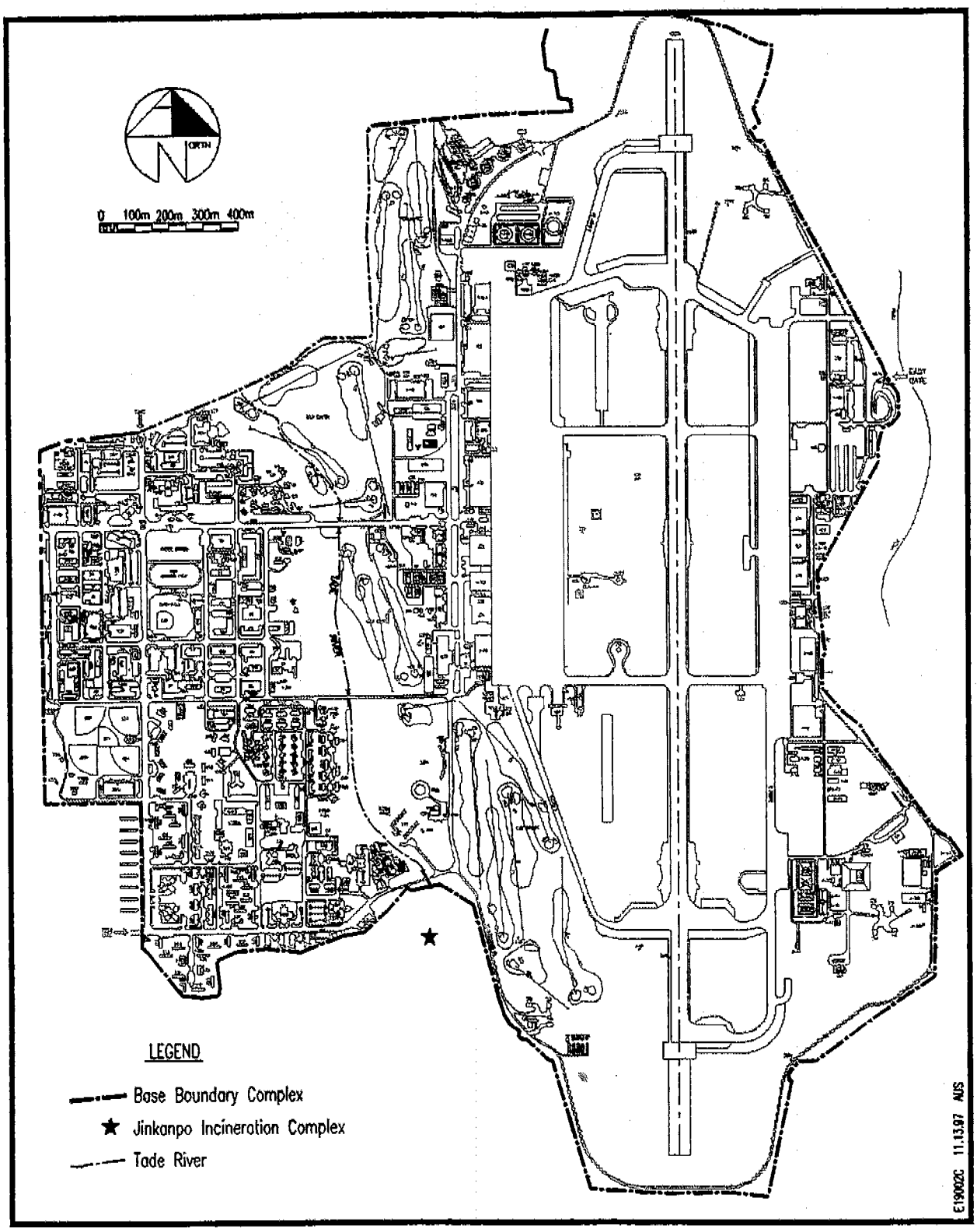


Figure 1-3. Layout of NAF Atsugi

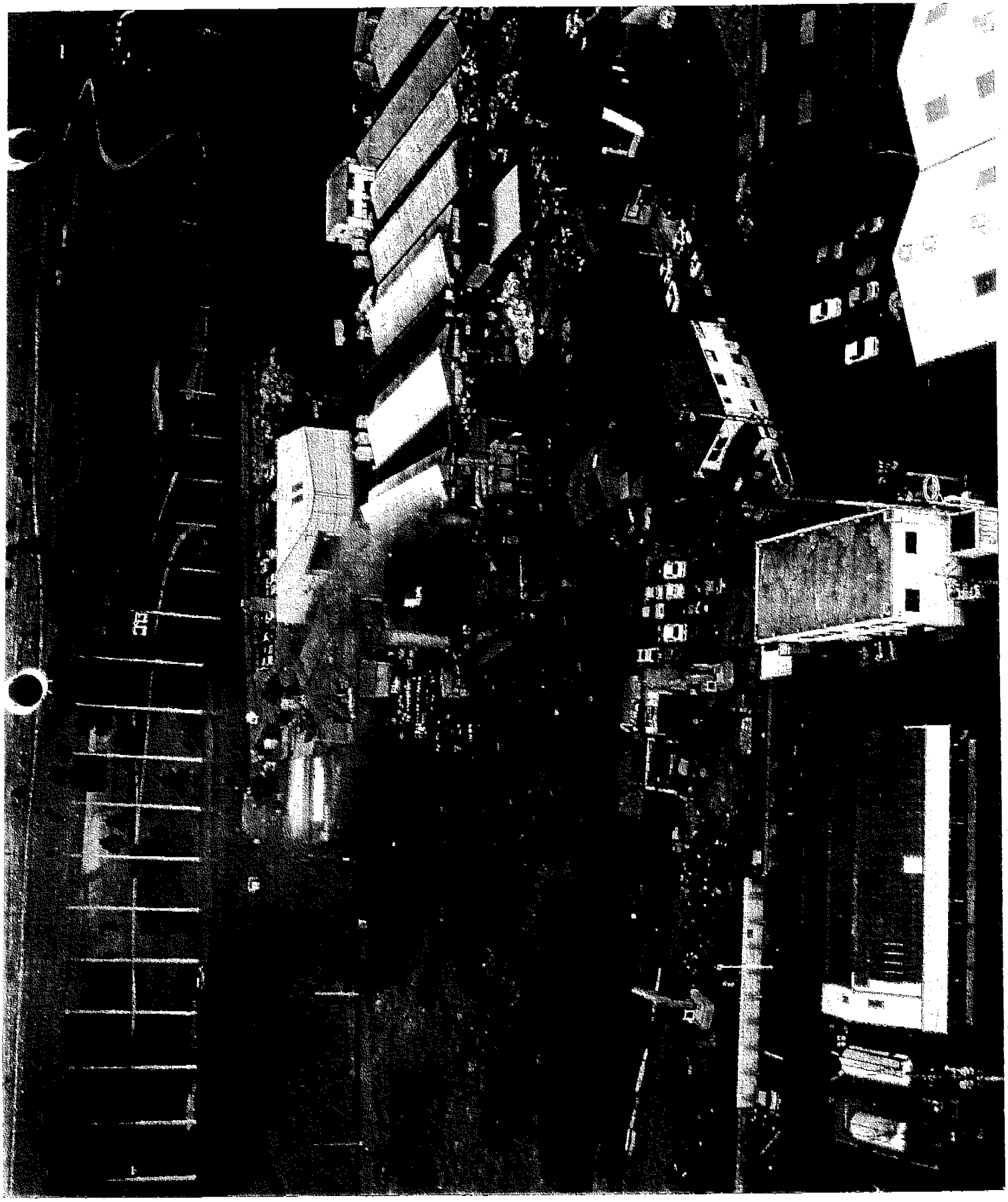
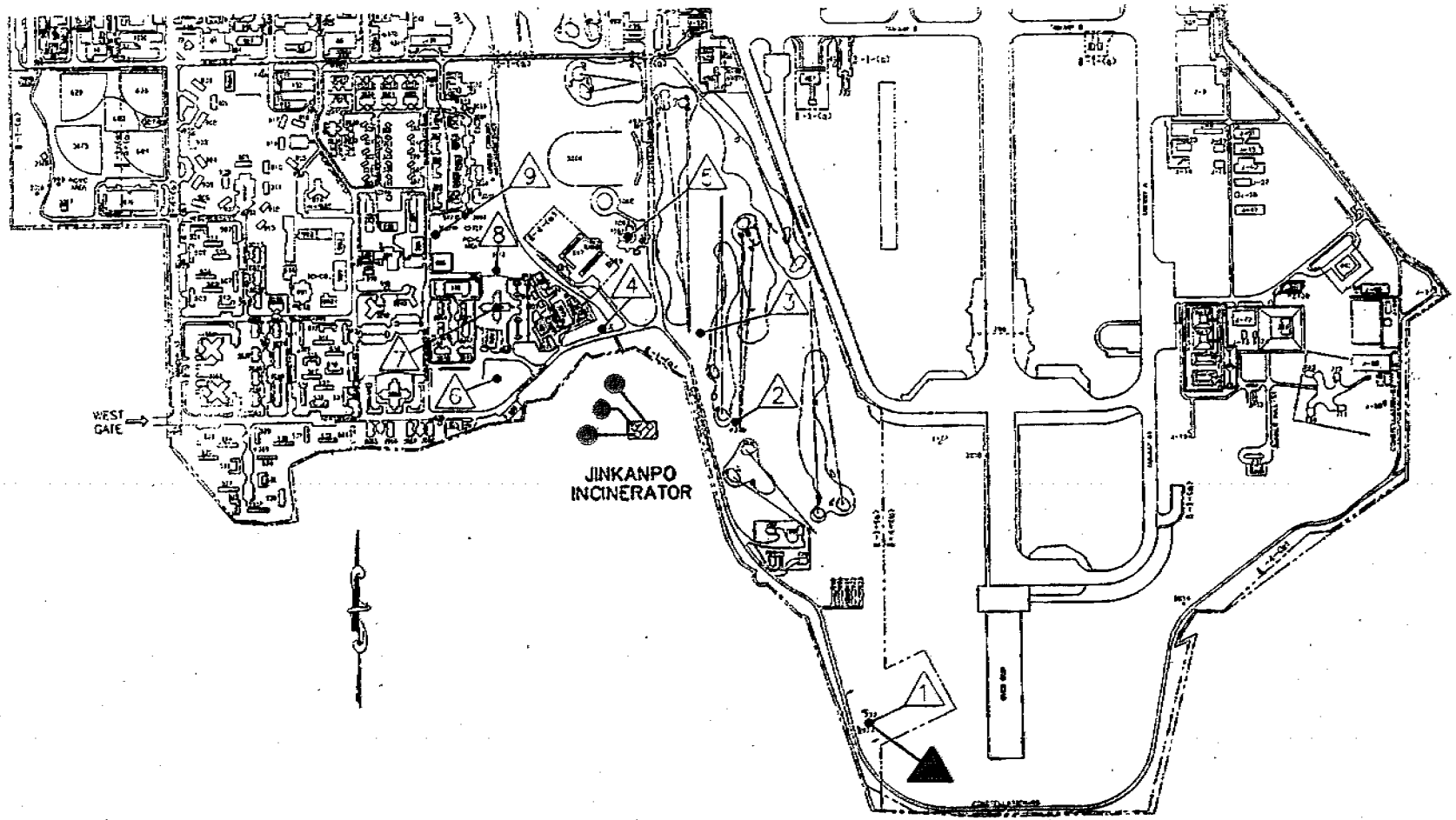


Figure 1-4. Jinkanpo Incineration Complex



LEGEND

9 SAMPLING LOCATION

METEOROLOGICAL STATION LOCATION

INCINERATOR STACKS

SITE PLAN

SCALE = N.T.S.

PROJECT: 24291.06.02

NAF ATSUGI SITE LOCATION MAP

SAMPLING LOCATION MAP

JANUARY 1988 FIGURE 2-1

Site 1 - Skeet Range (Upwind site)
This site is located on Constellation Road about 800 meters southeast of the Jinkanpo incinerator.

Site 2 - Golf Course South
This site is located on the Golf Course approximately 150 meters east of the Jinkanpo incinerator. American as well as Japanese nationals use the Golf Course.

Site 3 - Golf Course North
This site is located on the Golf Course about 200 meters northeast of the Jinkanpo incinerator.

Site 4 – Fenceline
This site is located 200 meters directly north of the Jinkanpo incinerator at the fenceline boardering the road between the Jinkanpo incinerator property and the base property.

Site 5 - Ground Electronics Maintenance
This site is a building located 400 meters directly north of the Jinkanpo incinerator used by military and civilian personnel working on ground electronics maintenance. This site is considered the site of highest impact according to air dispersion models.

Site 6 - Khaki Towers, Building 3102
This site is a high-rise residential apartment building located about 250 meters northwest of the Jinkanpo incinerator designated as officer's family housing.

Site 7 - Enlisted Towers, Building 3101
This site is a high-rise residential apartment building located about 300 meters northwest of the Jinkanpo incinerator, designated as enlisted family housing.

Site 8 – Playground/Picnic Area
This site is the area behind the enlisted family housing, located about 350 meters northwest of the Jinkanpo incinerator.

Site 9 – Child Development Center
This site is located about 500 meters northwest of the Jinkanpo incinerator. It is used by day care pre-school children and their care takers.

The sampling schedule and number of samples collected are presented in Appendix B. The samples were collected at each site by Earth Tech, Inc following sampling protocols that addressed data quality objectives suited only for a screening risk assessment. They were analyzed for particulates, metals, semi-volatile organic compounds, volatile organic compounds, formaldehyde, hydrochloric acid and dioxins/furans. A preliminary list of COCs was identified based on the following criterion:

- The COC was detected in at least one air sample for a given location.

Analytical data were converted to a useable format for the risk assessment as follows:

- Field duplicate results were treated as discrete observations when calculating summary statistics for each location.

- Data were only summarized for COCs that were detected in at least one air sample for a specific location. If a constituent was detected at least once in one sample at a site, then one-half of thesample quantitation limit for that constituent was substituted as the concentration for the non-detected values in the calculations of exposure point concentrations. If a constituent was not detected in any sample at a site, the chemical was assumed not to be present at that site.

2.2 Background Screening of Air COCs

Screening of media concentrations of constituents versus background or reference area concentrations is an important step in the identification of COCs. The purpose of background screening is to focus the risk assessment on COCs that are related to specific sources and eliminate COCs that are present at background or reference area concentrations. This step is very problematic when performing air evaluations, as is the case here, because inorganic and organic constituents are present in ambient air due to anthropogenic activities (e.g., automobiles, industrial point sources, etc.). In order to establish background concentrations for inorganic and organic constituents, it is important to ensure that the background sampling station is not impacted by site activities. At NAF Atsugi the selection of a background sampling location was severely limited because the sampling location had to be located on the Naval Air Facility. Sample Location 1, which is located immediately east of the Jinkanpo Incineration Complex at NAF Atsugi, was selected as the background location during the air-sampling program. Based on an evaluation of the meteorological data (see Section 5) and air sampling results (see Table 2-2), the background location appears to be impacted by point source and fugitive emissions from the Jinkanpo Incineration Complex and is not appropriate for use in background screening. Therefore, background screening of air monitoring data from NAF Atsugi was not performed as part of this assessment.

2.3 Risk-Based Screening of Air COCs

The maximum detected concentrations of the COCs from all areas sampled at NAF Atsugi that were detected in at least one sample were compared to EPA Region III Risk Based Screening Air Concentrations (information on the development of the EPA Region III Risk Based Screening Air Concentrations is presented in Appendix C). If the maximum detected concentration for a COC was greater than the EPA Region III Risk-Based Screening Concentration (RBSC) then the constituent was retained for further consideration in the risk assessment. In addition, constituents lacking a RBC were retained for evaluation in the risk assessment. The results of the risk-based screening step are presented in Table 2-1.

Table 2-1 Constituents of Concern that Exceed EPA Region III RBCs

Constituent	Number of Samples Analyzed	Frequency of Detection (%)	Maximum Detected Concentration	EPA Region III Residential Air Risk-Based Concentration	COC Evaluated in the Risk Assessment?
Acid Gases (ug/m^3)					
HCl	65	3.08	14.86	21	No
Particulates (ug/m^3)					
PM_{10}	65	100	582.0	--	**Yes**
Inorganics (ug/m^3)					
Silver	84	26.19	0.08	18	No
Arsenic	84	91.67	0.04	0.00041	**Yes**
Beryllium	84	13.10	0.006	0.00075	**Yes**
Cadmium	84	100	0.35	0.00099	**Yes**
Chromium (Total)	84	100	0.24	0.0021	**Yes**
Copper	84	100	1.42	150	No
Mercury	84	1.19	0.00010	0.31	No
Nickel	84	84.52	0.49	73	No
Lead	84	100	3.34	--	**Yes**
Antimony	84	30.95	0.63	1.5	No

Table 2-1 Constituents of Concern that Exceed EPA Region III RBCs

Constituent	Number of Samples Analyzed	Frequency of Detection (%)	Maximum Detected Concentration	EPA Region III Residential Air Risk-Based Concentration	COC Evaluated in the Risk Assessment?
Selenium	84	7.14	0.41	18	No
Zinc	84	100	6.06	1100	No
Volatile/Semi-Volatile Organic Compounds (ug/m^3)					
Acetaldehyde	4	100	1.73	0.81	**Yes**
Acetone	4	75	0.89	370	No
Benzaldehyde	4	100	0.86	370	No
Formaldehyde	4	100	9.08	0.14	**Yes**
Methyl Ethyl Ketone	4	75	1.84	1000	No
Propanal	4	75	0.47	--	**Yes**
1,1,1-Trichloroethane	73	41.10	3.60	1000	No
1,2,4-Trimethylbenzene	73	94.52	8.00	180	No
1,2-Dichloroethane	73	20.55	1.00	0.069	**Yes**
1,2-Dichloropropane	73	24.66	15.00	0.092	**Yes**
1,3,5-Trimethylbenzene	73	28.77	1.70	180	No
1,3-Dichlorobenzene	73	2.74	1.60	320	No
1,4-Dichlorobenzene	73	67.12	4.80	0.26	**Yes**
Benzene	73	100	8.40	0.22	**Yes**
Bromomethane	73	61.64	3.40	5.2	No
Carbon Tetrachloride	73	21.92	1.20	0.12	**Yes**
Chlorobenzene	73	2.74	1.30	21	No
Chlororethane	73	5.48	11.00	10000	No
Chloroform	73	76.71	3.40	0.078	**Yes**
Chloromethane	73	100	7.00	0.99	**Yes**
Ethyl Benzene	73	100	20.00	1000	No
Freon 11	73	98.63	3.40	730	No
Freon 113	73	6.85	2.00	31000	No
Freon 12	73	100	7.80	210	No
Styrene	73	69.86	4.90	1000	No
Tetrachloroethene	73	13.70	6.60	3.1	**Yes**
Toluene	73	100	130.00	420	No
Trichloroethene	73	65.75	38.00	1	**Yes**
Vinyl Chloride	73	19.18	0.41	0.021	**Yes**
cis-1,2-Dichloroethene	73	8.22	1.40	37	No
cis-1,3-Dichloropropene	73	41.10	0.92	--	**Yes**
m,p-Xylene	73	100	26.00	7300	No
o-Xylene	73	97.26	9.80	730	No
trans-1,3-Dichloropropene	73	28.77	2.40	--	**Yes**
Dioxins/Furans (ug/m^3)					
2,3,7,8 TCDD TEF Equivalents[1]	84	21.43 - 100	0.0001	0.000000054	**Yes**

-- An EPA Region III RBSC was not available for this constituent.

[1]All Isomers and Congeners of 2,3,7,8-Tetrachlorodibenzo-p-dioxin were multiplied by the appropriate 2,3,7,8-TCDD Toxicity Equivalency Factor and then summed to calculate the 2,3,7,8-TCDD TEF Equivalent Concentration.

2.4 Exposure Point Concentrations

The exposure point concentration is the concentration at the location of potential contact between the receptor and a chemical agent. The objective of this risk assessment is to evaluate the risks to the average exposed individual and the reasonable maximum exposed (RME) individual. The RME individual is the "highest exposure that is reasonably expected to occur at the site" (EPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington. D.C. 9285.701A. July 1989).

The exposure point concentration at each site for the average exposed individual was calculated based on the following criteria:

1. The arithmetic mean concentration which included detected and non-detected concentrations expressed as ½ of their SQLs.

2. The maximum detected concentration, if the arithmetic mean concentration exceeded the maximum detected concentration. This criterion was used because in some samples the non-detect concentrations expressed as ½ SQLs were higher than the highest detected concentrations due to matrix interference.. This was applied more frequently in particular to dioxin samples.

The exposure point concentration for the RME individual was based on the maximum detected concentration at each location. The exposure point concentrations calculated for this assessment are presented in Table 2-2. Statistical summaries of sampling results are presented in Appendix B.

Table 2-2 1997 NAF Atsugi Ambient Air Exposure Point Concentrations (mg/m^3)

	Background		Location 2		Location 3		Location 4		Location 5		Location 6		Location 7		Location 8		Location 9	
Constituent	Average	RME	Average	RME	Average	RME	Average	RME	Average	RME	Average	RME	Average	RME	Average	RME	Average	RME
Particulate Matter (mg/m3)																		
Particulate Matter (PM10)	1.6E-01	2.9E-01	1.0E-01	1.5E-01	1.3E-01	1.7E-01	2.4E-01	5.8E-01	1.5E-01	3.4E-01	1.1E-01	1.7E-01	1.0E-01	1.6E-01	9.1E-02	1.3E-01	1.2E-01	1.6E-01
Inorganics (mg/m3)																		
Arsenic	6.8E-06	1.8E-05	8.1E-06	1.8E-05	8.9E-06	3.6E-05	1.0E-05	1.7E-05	9.8E-06	3.9E-05	6.0E-06	1.3E-05	5.5E-06	1.4E-05	4.9E-06	1.0E-05	5.7E-06	1.7E-05
Beryllium	1.4E-06	5.3E-06	6.6E-07	2.0E-06	7.4E-07	1.6E-06	1.7E-06	6.3E-06	6.9E-07	2.6E-06								
Cadmium	4.1E-06	1.4E-05	2.5E-06	5.3E-06	2.0E-05	1.2E-04	2.8E-05	8.8E-05	5.4E-05	3.5E-04	2.7E-06	5.2E-06	6.4E-06	2.9E-05	4.2E-06	1.5E-05	3.5E-06	1.7E-05
Chromium (total)	3.0E-05	7.7E-05	2.0E-05	5.2E-05	3.2E-05	8.0E-05	5.6E-05	1.9E-04	4.2E-05	2.3E-04	1.7E-05	2.2E-05	1.5E-05	2.3E-05	1.1E-05	2.0E-05	1.2E-05	1.9E-05
Lead (inorganic)	2.0E-04	6.0E-04	1.0E-04	2.1E-04	3.8E-04	1.1E-03	9.6E-04	2.2E-03	1.0E-03	3.3E-03	1.2E-04	2.2E-04	2.6E-04	1.6E-03	2.1E-04	1.1E-03	2.0E-04	1.1E-03
Volatile/Semi-Volatile Organic Compounds (mg/m3)																		
Acetaldehyde	7.2E-04	1.3E-03	--	--	--	--	--	--	7.5E-04	1.7E-03	--	--	--	--	--	--	--	--
Benzene	4.5E-03	8.8E-03	3.1E-03	4.2E-03	3.8E-03	5.0E-03	4.8E-03	6.2E-03	5.6E-03	8.4E-03	3.7E-03	6.0E-03	3.7E-03	7.1E-03	3.7E-03	4.6E-03	3.8E-03	5.2E-03
Carbon Tetrachloride	6.2E-04	7.7E-04	3.6E-04	3.6E-04	6.0E-04	6.4E-04	6.5E-04	1.0E-03	6.7E-04	9.6E-04	6.1E-04	7.2E-04	6.8E-04	1.2E-03	6.8E-04	1.2E-03	6.3E-04	7.9E-04
Chloroform	2.7E-04	6.0E-04	1.8E-04	3.0E-04	2.3E-04	3.4E-04	4.4E-04	7.0E-04	5.4E-04	2.2E-03	6.4E-04	3.4E-03	2.1E-04	4.1E-04	4.0E-04	1.4E-03	2.2E-04	4.2E-04
Chloromethane	1.9E-03	2.5E-03	1.7E-03	2.3E-03	1.8E-03	2.3E-03	2.1E-03	4.0E-03	2.4E-03	5.0E-03	2.4E-03	7.0E-03	1.7E-03	2.7E-03	1.9E-03	2.7E-03	1.7E-03	3.4E-03
Dichlorobenzene, 1,4-	2.2E-03	5.1E-03	1.6E-03	3.8E-03	1.9E-03	3.8E-03	2.0E-03	4.2E-03	2.3E-03	4.4E-03	2.1E-03	4.0E-03	2.0E-03	4.8E-03	2.1E-03	3.7E-03	2.0E-03	3.6E-03
Dichloroethane, 1,2-	3.9E-04	6.6E-04	1.5E-04	1.5E-04	3.7E-04	3.7E-04	3.8E-04	3.9E-04	4.5E-04	9.5E-04	4.6E-04	1.0E-03	4.3E-04	7.4E-04	4.1E-04	6.6E-04	3.9E-04	4.6E-04
Dichloropropane, 1,2-	4.0E-04	4.7E-04	--	--	5.6E-04	1.8E-03	2.3E-03	1.5E-02	6.4E-04	3.6E-03	6.2E-04	1.8E-03	5.7E-04	1.2E-03	4.6E-04	6.3E-04	4.7E-04	6.7E-04
Dichloropropene,cis-1,3-	1.7E-04	9.7E-04	2.0E-04	9.2E-04	2.1E-04	8.8E-04	1.8E-04	6.4E-04	2.1E-04	9.2E-04	1.9E-04	4.6E-04	2.0E-04	6.9E-04	1.8E-04	6.0E-04	1.9E-04	5.5E-04
Dichloropropene,trans-1,3-	8.7E-04	4.2E-03	6.1E-04	2.1E-03	6.2E-04	2.0E-03	5.8E-04	1.7E-03	9.1E-04	2.4E-03	1.0E-03	2.4E-03	6.9E-04	1.2E-03	5.8E-04	1.1E-03	6.8E-04	1.5E-03
Formaldehyde	4.0E-03	7.6E-03	--	--	--	--	--	--	5.4E-03	9.1E-03	--	--	--	--	--	--	--	--
Propanal	2.0E-04	4.1E-04	--	--	--	--	--	--	2.0E-04	4.7E-04	--	--	--	--	--	--	--	--
Tetrachloroethene	9.2E-04	2.6E-03	7.6E-04	1.2E-03	7.2E-04	1.4E-03	7.2E-04	1.2E-03	1.0E-03	2.6E-03	--	--	1.4E-03	6.6E-03	--	--	--	--
Trichloroethene	1.9E-03	6.0E-03	1.2E-03	4.2E-03	2.1E-03	4.0E-03	7.2E-03	3.8E-02	2.8E-03	6.6E-03	1.4E-03	4.3E-03	1.2E-03	3.8E-03	1.0E-03	2.7E-03	1.2E-03	2.6E-03
Vinyl Chloride	6.2E-05	1.5E-04	--	--	5.7E-05	1.2E-04	7.1E-05	1.7E-04	8.8E-05	3.4E-04	1.0E-04	4.1E-04	6.4E-05	1.3E-04	5.8E-05	1.3E-04	6.5E-05	1.5E-04
Dioxins/Furans (mg/m3)																		
Total(2,3,7,8) Dioxin/Furans[1]	5.0E-09	3.6E-08	3.4E-09	1.1E-08	5.0E-09	1.9E-08	1.3E-08	2.7E-08	8.3E-09	3.2E-08	5.8E-09	2.0E-08	6.1E-09	2.2E-08	4.4E-09	1.3E-08	2.2E-08	1.0E-07

--=0

[1]All Isomers and Congeners of 2,3,7,8-Tetrachlorodibenzo-p-dioxin were multiplied by the appropriate 2,3,7,8-TCDD Toxicity Equivalency Factor and then summed to calculate the 2,3,7,8-TCDD TEF Equivalent Concentration.

RME = Maximum concentration

2.5 Meteorological Data

Meteorological data, including wind speed and wind direction, were obtained from the NAF Atsugi meteorological station. Hourly measurements collected on 23 sampling days from 7/27/97 through 9/11/97 were used in the assessment. The meteorological data and the potential impact of wind speed and direction on the risk estimates presented in this assessment are discussed in Section 5, Risk Characterization.

3.0 EXPOSURE ASSESSMENT

The purpose of the exposure assessment is to evaluate potential human exposure to COCs present in the air at NAF Atsugi by identifying complete exposure pathways. In order for a constituent to pose a risk to human health, a complete exposure pathway must be present. A complete exposure pathway consists of the following four elements:

1. A source and mechanism of constituent release to the environment (e.g., an incinerator).

2. An environmental transport medium for the released constituent (e.g., air).

3. An exposure point (i.e., a point of potential human contact with the contaminated medium) that includes a location where humans are present and where there is activity that results in exposure (referred to as an "exposure scenario").

4. An exposure route at the point of exposure (e.g., inhalation).

Generally, this section is used to describe current and potential future land uses, potentially exposed populations, and possible exposure routes. However, because this is a screening level risk assessment, only exposures pathways associated with direct exposure to emissions from the Jinkanpo Incineration Complex were used to calculate risk. Exposure pathways were used to calculate intake (i.e., the amount of COCs that an individual would be exposed to each day [mg/kg-day]). Daily intakes for each exposed population were calculated by varying the exposure parameters. The exposure setting consists of the physical features of the site and the potentially exposed populations. The physical features of the site are presented in Section 1.2. The potentially exposed populations are discussed below.

3.1 Potentially Exposed Populations at NAF Atsugi

NAF Atsugi is a high-security facility and public access is restricted. Entrance to the facility requires military clearance, making unauthorized access highly improbable. The NAF Atsugi population consists of military personnel and their families who live and work on the facility and civilian personnel and Navy contractors who work on the facility. Three different residential scenarios were evaluated for each sampling location. These scenarios include:

- Adult or child exposed for 3 years (1 tour of duty)
- Adult or child exposed for 6 years (2 tours of duty)
- Adult and child exposed for a combined total of 30 years, integrated as 6 years as a child and 24 years as an adult (civilian living on base)

A second scenario was evaluated for Location 5 (Ground Electronics Maintenance Area). This scenario consisted of evaluating a worker who was present for 3, 6, or 30 years.

3.2 Potential Exposure Pathways

The only exposure pathway that was evaluated in this assessment was inhalation of airborne particulates and vapors. Other potential exposure pathways, such as incidental soil ingestion, were not evaluated in this screening level assessment but will be considered in the screening risk assessment. Tables 3-1 presents the potentially exposed populations identified at NAF Atsugi and the exposure pathways that are evaluated in this assessment.

Table 3-1 Summary of Exposed Populations NAF Atsugi

Exposed Population	Incidental Soil Ingestion	Dermal Contact With Soil	Inhalation of Particulates from Soil	Inhalation of Particulate and Vapors from Incinerator	Ingestion of food products impacted by incinerator emissions
Background, Locations 2,3,4,5,6,7,8,9					
Child Resident	O	O	O	●	O
Adult Resident	O	O	O	●	O
Location 5					
Adult Worker	O	O	O	●	O

O = Potential exposure pathway not evaluated in this assessment.
● = Exposure pathway evaluated in this assessment.

The intake of a constituent is estimated from at least six basic factors: exposure frequency, exposure duration, contact rate, constituent concentration, body weight, and averaging time. In this assessment, intake is normalized for time and body weight, and is expressed in milligrams of constituent per kilogram of body weight per day (mg/kg-day). The exposure factors and algorithms used in this assessment to quantify exposure are presented in Table 3-2.

Table 3-2 Inhalation of Particles and Vapors Exposure Parameters[a] and Values

$$Inhalation\ Daily\ Intake\left(\frac{mg}{kg-day}\right)=\frac{A\times IR\times EF\times ED}{BW\times AT}$$

$$Integrated Inhalatin\ Daily\ Intake\left(\frac{mg}{kg-day}\right)=A\times\frac{\left\{\left(\frac{IR_c\times EF_c}{BW_c}\right)\times ED_c\right\}+\left\{\left(\frac{IR_a\times EF_a}{BW_a}\right)\times ED_a\right\}}{AT_c+AT_a}$$

Parameter	Definition	Units	Child Residential (d)	Adult Residential (d)	Adult Industrial (d)
A	Constituent Air concentration	mg/ M^3	Constituent specific	Constituent specific	Constituent specific
IR	Inhalation rate[b]	M^3/day	12	20	20
EF	Exposure frequency	days/year	350	350	250
ED	Exposure duration[c]	years	3.6	3.6,24	3,6,30
BW	Body Weight	kg	15	70	70
AT	Averaging time (carcinogenic)	days	25,550	25,550	25,550
AT	Averaging time (noncarcinogenic)	days	1,095; 2,190	1,095; 2,190; 8,760	1,095; 2,190; 10,950

The average and RME concentration was calculated as described in the Exposure Point Concentrations section of this report.
[a]The exposure factors were obtained from EPA Region III Risk-Based Screening Concentrations Table. Exposure factors without footnotes are U.S. Environmental Protection Agency Standard Defaults. (U.S. Environmental Protection Agency. 1991. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual, Supplemental Guidance: "Standard Default Exposure Factors". OSWER Directive 9285.6-03. Office of Emergency and Remedial Response, Washington, DC).
[b]Inhalation rate for light activities for adults and children. (U.S. Environmental Protection Agency. 1996. Exposure Factors Handbook: Volume I - General Factors. Update to Exposure Factors Handbook EPA/600/8-89/043 - May 1989 PRELIMINARY DRAFT. Office of Research and Development National Center for Environmental Assessment. Washington, DC 20460).
[c] Exposure duration is based on tours of duty of 3 or 6 years or 30 years for a civilian worker.
For the 30 year residential exposure scenario the integrated (i.e. 6 year child plus 24 years adult) inhalation daily intake equation was used to calculate intake. For all other exposure scenarios the standard inhalation daily intake equation was used to calculate intake.
[d] Child parameters are subscripted as "$_c$" and adult parameters as "$_a$".

studies) by the application of standard order-of-magnitude uncertainty factors. In certain cases, an additional modifying factor is employed to account for professional assessment of scientific uncertainties in the available data (EPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. July 1989).

4.0 TOXICITY ASSESSMENT

The purpose of the toxicity assessment is to identify constituent and route-specific toxicity criteria for each COC. These toxicity values are used in conjunction with the information presented in the exposure assessment to calculate risks.

4.1 Health Criteria

Both carcinogenic and noncarcinogenic health effects must be considered to calculate human health risks. Cancer toxicity values (carcinogenic slope factors [CSFs]) and noncarcinogenic toxicity values (reference doses [RfDs]) are derived through an evaluation of the relationship between the dose of a constituent administered or received and the incidence of adverse health effects in the exposed population (animals and/or humans). EPA has evaluated numerous constituents and has published the corresponding toxicity values, which have undergone peer review. In order of priority, the following EPA sources were consulted to identify toxicity values:

- The Integrated Risk Information System (IRIS) (U.S. Environmental Protection Agency. 1997. Integrated Risk Information System (IRIS). Environmental Criteria and Assessment Office, Cincinnati, Ohio. 4th Quarter 1997 Update).

- The Health Effects Assessment Summary Tables—Annual Update (HEAST) (U.S. Environmental Protection Agency. 1995. Health Effects Assessment Summary Tables (HEAST). Office of Solid Waste and Emergency Response. Washington, D.C. 1995 Annual Update).

Noncarcinogenic constituents are thought to exhibit a threshold. Exposures less than a specific threshold dose will not result in adverse health effects whereas, exposures exceeding the threshold dose may produce adverse health effects. The assumption of a threshold is based on the concept that the body has certain protective mechanisms that must be overcome before adverse effects are manifest.

In general, an RfD is derived from a no-observed-adverse-effects-level (NOAEL) or a lowest-observed-adverse-effects-level (LOAEL) obtained from animal studies (however, occasionally they may be derived from human studies).

The values presented in IRIS have been "verified" by either the EPA Reference Dose/Reference Concentration (RfD/RfC) Work Group or the EPA Carcinogen Risk Assessment Verification Endeavor (CRAVE). These agency work groups conduct a verification process that leads to internal agency scientific consensus regarding risk assessment information for a constituent. All of the toxicity values presented in the HEAST document are considered "provisional" by EPA because they have not been verified by an agency work group (U.S. Environmental Protection Agency. 1995. Health Effects Assessment Summary Tables (HEAST). Office of Solid Waste and Emergency Response. Washington, D.C. 1995 Annual Update). Provisional values are not listed in IRIS.

The potential for producing carcinogenic effects is limited to exposure to only certain COCs (i.e., carcinogens), while adverse noncarcinogenic health effects can potentially result from exposure to any constituent. Therefore, where available, cancer toxicity values were obtained for those constituents identified by EPA as carcinogens and noncancer toxicity values were obtained for each of the COCs.

The toxicity of any constituent depends on its route of entry into the body. In some cases a constituent may produce toxicity only at or near a specific route of entry and may not be toxic through other routes of exposure. Therefore, if available, the route-specific toxicity value was used for each constituent.

4.2 Carcinogenic Health Criteria

The mechanism for carcinogenesis is referred to as "non threshold," since there is theoretically no level of exposure for such a constituent that does not pose a small, but finite, probability of generating a carcinogenic response. EPA assumes in developing CSFs that the risk of cancer is linearly related to dose. This means that relatively high doses can be extrapolated downward to extremely small doses, with some incremental risk of cancer always possible. This assumes that even a small number of molecules (possibly a single molecule) of a carcinogen may cause changes in a

single cell that could result in the cell dividing in an uncontrolled manner, eventually leading to cancer.

There is some dispute as to whether extrapolation from high to low doses is a realistic approach. It has been argued that at low doses, cells may have the ability to detoxify carcinogens or repair cellular damage. It is important to recognize the possibility that some carcinogens may have a threshold for toxicity.

CSFs are usually derived by EPA by means of a linearized multistage model and reflect the upper-bound limit of cancer potency of any constituent. As a result, the calculated carcinogenic risk is likely to represent a plausible upper limit to the risk. The actual risk is unknown but is likely to be lower than the predicted risk, and may be as low as zero (EPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. July 1989).

The toxicity values that are used in evaluating carcinogenic risks are CSFs. A CSF is a numerical estimate of the potency of an constituent, which, when multiplied by the average lifetime dose, gives the probability of an individual developing cancer over a lifetime. The CSFs are expressed in units of the inverse of milligrams of constituent per kilogram of body weight per day $(mg/kg\text{-}day)^{-1}$.

Toxicity values risk for a constituent can be presented in several ways. Inhalation unit risks were converted to CSFs by multiplying the unit risk by 70 (kg body weight) and 1,000 (µg/mg conversion factor) and dividing by 20 (M^3/day inhalation rate).

4.3 Noncarcinogenic Health Criteria

The term RfD was developed by EPA to refer to a daily intake of an constituent to which an individual, including sensitive subpopulations, can be exposed without any expectation of adverse noncarcinogenic health effects (e.g., organ damage, biochemical alterations, birth defects). RfDs are developed for short-term exposures (i.e., subchronic), chronic exposures, and for exposures to constituents that are considered developmentally toxic (i.e., capable of producing birth defects). A chronic RfD is defined as "An estimate (with uncertainty spanning perhaps an order of magnitude or greater) of a daily exposure level for the human population, including sensitive subgroups, that is likely to be without an appreciable risk of deleterious effects during a portion of the lifetime" (EPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. July 1989). RfDs are expressed in units of mg/kg-day.

A NOAEL is an experimentally determined dose at which there was no statistically or biologically significant indication of the toxic effect of concern. The study chosen to establish the NOAEL is based on the criterion that the measured endpoint represents the most sensitive target organ or tissue (i.e., critical organ) for that constituent. In an experiment with several NOAELs, generally the highest one is chosen as the critical NOAEL. Since many constituents can produce toxic effects on several organ systems, with each toxic effect possibly having a separate threshold dose, the distinction of the critical toxic effect provides added confidence that the NOAEL is protective of human health.

Once the critical NOAEL is identified, the next step is to derive the RfD by dividing the NOAEL by a safety factor as follows:

RfD (human dose) = NOAEL (experimental dose)/safety factor

Generally, each safety factor represents a specific area of uncertainty inherent in the available data and accounts for uncertainties such as:

- Differences in responsiveness between humans and animals in prolonged exposure studies (factor of 10) (EPA. 1997. Integrated Risk Information System (IRIS). Environmental Criteria and Assessment Office, Cincinnati, Ohio. 4th Quarter 1997 Update).

- Variation in susceptibility among individuals in the human population (factor of 10) (EPA. 1997. Integrated Risk Information System (IRIS). Environmental Criteria and Assessment Office, Cincinnati, Ohio. 4th Quarter 1997 Update).

- Incomplete databases (e.g., those for which only the results of subchronic studies are available) (factor of 10). (EPA. 1997. Integrated Risk Information System (IRIS). Environmental Criteria and Assessment Office, Cincinnati, Ohio. 4th Quarter 1997 Update).

In addition to the safety factors, a modifying factor is applied in some instances. A modifying factor ranging from 0 to 10 is included to reflect a qualitative professional assessment of additional uncertainties in the critical study and in the entire database for the constituent not explicitly addressed by the uncertainty factors. The default value for the modifying factor is 1 (EPA (U.S. Environmental Protection Agency). 1995. Health Effects Assessment Summary Tables (HEAST). Office of Solid Waste and Emergency Response. Washington, D.C. 1995 Annual Update).

Toxicity values risk for a constituent can be presented in several ways. Inhalation reference concentrations (RfC)s were converted to RfDs by multiplying the RfC by 20 (M^3/day) and dividing by 70 (kg - body weight).

4.4 Toxicity Values

Table 4-1 present's inhalation constituent-specific toxicity values for COCs assessed in the human health evaluation. There are 9 constituents (out of 24 total) for which there are not either a carcinogenic or noncarcinogenic toxicity value at this time.

Table 4-1 Noncarcinogenic and Carcinogenic Inhalation Toxicity Values

Constituent	Inhalation RfD (mg/kg-day)	Inhalation RfD Source	Inhalation Slope Factor (kg-day/mg)	Inhalation Slope Factor Source
Particulate Matter				
Particulate Matter (PM_{10})*	0.014	NAAQs, 1997	--	--
Dioxins/Furans				
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	--	--	150,000	HEAST
Inorganics				
Arsenic (inorganic)	--	--	15	IRIS
Beryllium	--	--	8.4	IRIS
Cadmium	--	--	6.3	IRIS
Chromium (III)	--	--	--	--
Lead (and compounds) (inorganic)	--	--	--	--
Volatile/Semi-Volatile Organics				
Dichlorobenzene, 1,4-	0.23	IRIS	--	--
Acetaldehyde	0.0026	IRIS	0.0077	IRIS
Benzene	--	--	0.029	IRIS
Carbon Tetrachloride	--	--	0.053	IRIS
Chloroform	--	--	0.081	IRIS
Chloromethane (Ethyl chloride)	--	--	0.0063	HEAST
Dichloroethane, 1,2-	--	--	0.091	IRIS
Dichloropropane, 1,2-	0.0011	IRIS	--	--
Dichloropropene, Cis-1,3-	--	--	--	--
Dichloropropene, Trans-1,3-	--	--	--	--
Propanal	--	--	--	--
Formaldehyde	--	--	0.046	IRIS
Tetrachloroethylene	--	--	--	--
Trichloroethylene	--	--	--	--
Vinyl Chloride	--	--	0.30	HEAST

--No toxicity value was available on IRIS (4th Quarter), 1997 or HEAST, 1995.

[a]IRIS, 1997 (U.S. Environmental Protection Agency. 1997 (4th Quarter). Integrated Risk Information System. Online Database) or HEAST 1995 (U.S. Environmental Protection Agency. 1995. Health Effects Assessment Summary Tables (HEAST). EPA/540-R-95/0366. PB95-921199. May. OSWER, Washington, DC).

- PM_{10} refers to particulate matter less than 10 microns in diameter. Particles larger than 10 microns are not respirable (i.e., they are too large to reach the lung). The current annual air standard for PM_{10} is 50 ug/m^3. The inhalation RfD was derived as follows: 50

$ug/m^3 * 20\ m^3/day * 1/70\ kg * 1\ mg/1000\ ug$.

5.0 RISK CHARACTERIZATION

This section presents the results of the risk calculations. Human health risks were calculated for exposure scenarios applicable to each of the AOCs as described in the Exposure Assessment section of this report using SmartRISK™ Software from PIONEER Technologies Corporation. Risk characterization requires integrating exposure and toxicity information into a quantitative estimate of noncarcinogenic and carcinogenic risks. Risk estimates for the Average and RME individual were calculated for each COC, exposure pathway, and sampling location. The risks associated with each COC and exposure pathway were summed for each location to estimate the total human health risks.

In order to put the risk estimates in perspective, the following "acceptable" risk estimates (i.e., benchmarks) are included for comparison with the risk estimates presented in this report. For both the industrial and residential scenarios, EPA has typically used a hazard index of 1 or greater as a benchmark for noncarcinogenic risk. For carcinogenic risk, EPA's approach "emphasizes the use of 1 chance in one million (i.e., 1E-06) as the point of departure while allowing site- or remedy-specific factors, including potential future uses, to enter into the evaluation of what is appropriate at a given site." As risks increase above 1 chance in 1,000,000, they become less desirable, and the risk to individuals generally should not exceed 1 in 10,000 (i.e., 1E-04) (40 CFR 300.430[e][2]). For the industrial scenario, EPA has typically used 1 chance in 10,000 as a benchmark for carcinogenic risk. For the residential scenario, EPA has typically used 1 chance in 1,000,000 as a benchmark for carcinogenic risk.

5.1 Evaluation of Noncarcinogenic Effects

The values for adverse noncarcinogenic effects from constituent exposure are expressed as a hazard quotient. The hazard quotient is the ratio of the estimated dose of a particular constituent that a human receives to the RfD. The RfD is the threshold dose for a particular constituent below which it is unlikely that even sensitive subpopulations would experience adverse health effects. Only the hazard quotients for chronic disease were evaluated, as the toxicity values for chronic effects within a given exposure scenario are typically more conservative than the toxicity values for subchronic effects for the same scenario.

For the purposes of this screening level risk assessment, the reference dose used to evaluate noncarcinogenic hazard indices for PM_{10} was converted from the NAAQS, using the standard RfC to RfD dose conversion methodology, as identified in the Health Effects Assessment Summary Tables (HEAST)) 1997. The 1997 HEAST states that "The chairs of the RfD/RfC and CRAVE Work Groups were consulted regarding Superfund's need to make the conversion from a concentration in air to dose. There was agreement that, in many cases, converting the air concentration data to a dose (in mg/kg-day) may not add significant uncertainty to the Superfund risk assessment process, and therefore may be a reasonable use of the data given appropriate circumstances and Superfund program objectives."

All hazard quotients for constituents were summed to yield a total hazard index. Hazard quotients should only be added for chemicals with the same target organs. Segregation of hazard indices by effect and mechanism of action can be complex and time consuming. Therefore, to be conservative in conducting the screening health risk assessment and to save time, the hazard quotients for all chemicals were added at each site for comparison, to gain perspective of the non-carcinogenic risk at different sites in a screening risk assessment. If the total hazard index is less than 1.0, it indicates that adverse noncarcinogenic health effects are unlikely. If the total hazard index is greater than 1.0, it indicates that adverse health effects are possible. However, the hazard index does not represent a probability or quantification of the magnitude of noncarcinogenic health effects.

5.2 Evaluation of Carcinogenic Effects

This risk of cancer from exposure to a constituent is described in terms of the probability that an exposed individual will develop cancer during a lifetime from that exposure. The risk estimate is calculated by multiplying the daily intake of a particular constituent over a lifetime by the carcinogenic slope factor. All carcinogenic risks for constituents for each scenario and receptor were summed to yield the total carcinogenic risk. A 1 in 1,000,000 cancer risk (i.e., 1E-06) means that in a population of 1,000,000 people exposed under an identical exposure

scenario (i.e., had exactly the same daily intake of a carcinogen over the same period), there could be one additional case of cancer in the population.

5.3 NAF Atsugi Human Health Risks

Table 5-1A presents the total noncarcinogenic and carcinogenic risks for each air sampling location evaluated at NAF Atsugi, Japan. Noncarcinogenic and carcinogenic risk detail reports are presented in Appendix A. Figures 5-1 through 5-4 present the noncarcinogenic and carcinogenic risks calculated for airborne COCs. Chemicals not evaluated quantitavely chromium, lead, cis-1,3 dichloropropene, trans-1,3 dichloropropene, propanal, trichloroethylene, tetrachloroethylene, due to the lack of toxicity values.

Because currently there is not an inhalation RfC on IRIS or HEAST, hazard quotients calculated for chromium (III) for all sites are presented separately on Table 5-1B. These hazard quotients were calculated using the toxicity value (i.e., 5.71E-07 mg/kg-day) obtained from the Region III RBC Table.

5.3.1 Noncarcinogenic Risks

The noncarcinogenic hazard indices for every scenario are greater than the regulatory benchmark of 1. Location 4 has the highest hazard indices for every exposure scenario while Location 8 has the lowest hazard indices for every exposure scenario. The highest average hazard index calculated for the average exposed individual is 15 at Location 4 for the child 3-year and 6-year residential exposure scenarios. The highest hazard index calculated for the reasonable maximum exposed individual is 41 at Location 4 for the child 3-year and 6-year residential exposure scenarios. The child residential scenarios have higher hazard indices than either the adult residential or industrial scenarios.

Table 5-2 identifies the constituents that are responsible for the majority of the hazard index for each scenario and location. Particulate matter less that 10 microns (PM_{10}) is responsible for the majority of the hazard index for each location. 1,2-dichloropane and acetaldehyde also contribute to the hazard indices at some locations. RfDs were available for only 4 of the 24 COCs so the noncarcinogenic risks are underestimated.

5.3.2 Carcinogenic Risks

The carcinogenic risks for every exposure scenario are greater than the regulatory benchmark of 1E-06. Location 9 has the highest carcinogenic risk for every exposure scenario while Location 2 has the lowest carcinogenic risk for every exposure scenario. The highest carcinogenic risk was calculated at Location 9 (2.5E-03) assuming a 30 year residential exposure. Overall, the residential 30 year exposure scenario has the highest carcinogenic risks followed by the child residential 6 year, child residential 3 year, adult residential 6 year, industrial, and adult residential 3 year exposure durations.

The percentage of risk contributed by individual constituents for each location are presented in Table 5-3. Dioxin/Furans are responsible for the majority (57 - 95%) of the carcinogenic risks. Other primary constituents that contribute signifieantly to the carcinogenic risks include arsenic, cadmium, and benzene. Inhalation carcinogenic slope factors were available for only 12 of the 24 COCs, which may result in an underestimation of the carcinogenic risks.

Table 5-1A Total Average and Reasonable Maximum Noncarcinogenic and Carcinogenic Risks for the 9 Locations Evaluated at NAF Atsugi, Japan for Impacts Associated With Airborne Constituents

Scenario	Receptor	Exposure Duration	Location	Hazard Index		Cancer Risk	
				Average	Reasonable Maximum Exposure	Average	Reasonable Maximum Exposure
Residential	Child	3-year	Background	9.3	16	4.4E-05	2.2E-04
Residential	Child	3-year	Location 2	5.5	8.3	2.7E-05	7.0E-05
Residential	Child	3-year	Location 3	7.3	10	4.1E-05	1.4E-04
Residential	Child	3-year	Location 4	15	41	8.5E-05	1.7E-04
Residential	Child	3-year	Location 5	8.5	21	7.6E-05	2.8E-04
Residential	Child	3-year	Location 6	6.5	10	4.1E-05	1.3E-04
Residential	Child	3-year	Location 7	5.9	9.7	4.2E-05	1.4E-04
Residential	Child	3-year	Location 8	5.2	7.5	3.3E-05	8.8E-05
Residential	Child	3-year	Location 9	7.0	9.3	1.2E-04	5.2E-04
			Range	**5.2 - 15**	**7.5 - 41**	**2.7E-05 - 1.2E-04**	**7.0E-05 - 5.2E-04**
Residential	Adult	3-year	Background	3.3	5.8	1.6E-05	7.7E-05
Residential	Adult	3-year	Location 2	2.0	3.0	9.5E-06	2.5E-05
Residential	Adult	3-year	Location 3	2.6	3.6	1.5E-05	5.1E-05
Residential	Adult	3-year	Location 4	5.2	15	3.0E-05	6.2E-05
Residential	Adult	3-year	Location 5	3.0	7.5	2.7E-05	1.0E-04
Residential	Adult	3-year	Location 6	2.3	3.6	1.5E-05	4.6E-05
Residential	Adult	3-year	Location 7	2.1	3.5	1.5E-05	4.8E-05
Residential	Adult	3-year	Location 8	1.9	2.7	1.2E-05	3.1E-05
Residential	Adult	3-year	Location 9	2.5	3.3	4.2E-05	1.8E-04
			Range	**1.9 - 5.2**	**2.7 - 15**	**9.5E-06 - 4.2E-05**	**2.5E-05 - 1.8E-04**
Residential	Child	6-year	Background	9.3	16	8.7E-05	4.3E-04
Residential	Child	6-year	Location 2	5.5	8.3	5.3E-05	1.4E-04
Residential	Child	6-year	Location 3	7.3	10	8.1E-05	2.9E-04
Residential	Child	6-year	Location 4	15	41	1.7E-04	3.5E-04
Residential	Child	6-year	Location 5	8.5	21	1.5E-04	5.7E-04
Residential	Child	6-year	Location 6	6.5	10	8.2E-05	2.6E-04
Residential	Child	6-year	Location 7	5.9	9.7	8.4E-05	2.7E-04
Residential	Child	6-year	Location 8	5.2	7.5	6.6E-05	1.8E-04
Residential	Child	6-year	Location 9	7.0	9.3	2.3E-04	1.0E-03
			Range	**5.2 - 15**	**7.5 - 41**	**5.3E-05 - 2.3E-04**	**1.4E-04 - 1.0E-03**
Residential	Adult	6-year	Background	3.3	5.8	3.1E-05	1.6E-04
Residential	Adult	6-year	Location 2	2.0	3.0	1.9E-05	5.0E-05
Residential	Adult	6-year	Location 3	2.6	3.6	2.9E-05	1.0E-04
Residential	Adult	6-year	Location 4	5.2	15	6.1E-05	1.2E-04
Residential	Adult	6-year	Location 5	3.0	7.5	5.4E-05	2.0E-04
Residential	Adult	6-year	Location 6	2.3	3.6	2.9E-05	9.2E-05
Residential	Adult	6-year	Location 7	2.1	3.5	3.0E-05	9.7E-05
Residential	Adult	6-year	Location 8	1.9	2.7	2.3E-05	6.3E-05
Residential	Adult	6-year	Location 9	2.5	3.3	8.4E-05	3.7E-04
			Range	**1.9 - 5.2**	**2.7 - 15**	**1.9E-05 - 8.4E-05**	**5.0E-05 - 3.7E-04**
Residential	Adult & Child	30-year	Background	4.5	7.9	2.1E-04	1.1E-03
Residential	Adult & Child	30-year	Location 2	2.7	4.0	1.3E-04	3.4E-04
Residential	Adult & Child	30-year	Location 3	3.5	4.9	2.0E-04	7.0E-04
Residential	Adult & Child	30-year	Location 4	7.1	20	4.1E-04	8.4E-04
Residential	Adult & Child	30-year	Location 5	4.1	10	3.7E-04	1.4E-03
Residential	Adult & Child	30-year	Location 6	3.2	4.9	2.0E-04	6.3E-04
Residential	Adult & Child	30-year	Location 7	2.9	4.7	2.0E-04	6.6E-04
Residential	Adult & Child	30-year	Location 8	2.5	3.6	1.6E-04	4.3E-04
Residential	Adult & Child	30-year	Location 9	3.4	4.5	5.7E-04	2.5E-03
			Range	**2.5 - 7.1**	**3.6 - 20**	**1.3E-04 - 5.7E-04**	**3.4E-04 - 2.5E-03**
Industrial	Adult	3-year	Location 5	2.2	5.4	1.9E-05	7.3E-05
Industrial	Adult	6-year	Location 5	2.2	5.4	3.9E-05	1.5E-04
Industrial	Adult	30-year	Location 5	2.2	5.4	1.9E-04	7.3E-04
			Range	**2.2**	**5.4**	**1.9E-05 - 1.9E-04**	**7.3E-05 - 7.3E-04**

Table 5-1B Total Average and Reasonable Maximum Noncarcinogenic Hazard Quotient for Chromium (III) for the 9 Locations Evaluated at NAF Atsugi, Japan for Impacts Associated With Airborne Constituents

Scenario	Receptor	Exposure Duration	Location	Hazard Quotient	
				Average	Reasonable Maximum Exposure
Residential	Child	3-year	Background	40	103
Residential	Child	3-year	Location 2	27	69
Residential	Child	3-year	Location 3	44	107
Residential	Child	3-year	Location 4	75	257
Residential	Child	3-year	Location 5	56	316
Residential	Child	3-year	Location 6	23	30
Residential	Child	3-year	Location 7	21	32
Residential	Child	3-year	Location 8	15	27
Residential	Child	3-year	Location 9	16	25
			Range	**15 - 75**	**25 - 316**
Residential	Adult	3-year	Background	14	37
Residential	Adult	3-year	Location 2	9.6	25
Residential	Adult	3-year	Location 3	16	38
Residential	Adult	3-year	Location 4	27	92
Residential	Adult	3-year	Location 5	20	113
Residential	Adult	3-year	Location 6	8.0	11
Residential	Adult	3-year	Location 7	7.4	11
Residential	Adult	3-year	Location 8	5.5	9.7
Residential	Adult	3-year	Location 9	5.7	9.0
			Range	**5.5 - 27**	**9.0 - 113**
Residential	Child	6-year	Background	40	103
Residential	Child	6-year	Location 2	27	69
Residential	Child	6-year	Location 3	44	107
Residential	Child	6-year	Location 4	75	257
Residential	Child	6-year	Location 5	56	316
Residential	Child	6-year	Location 6	23	30
Residential	Child	6-year	Location 7	21	32
Residential	Child	6-year	Location 8	15	27
Residential	Child	6-year	Location 9	16	25
			Range	**15 - 75**	**25 - 316**
Residential	Adult	6-year	Background	14	37
Residential	Adult	6-year	Location 2	9.6	25
Residential	Adult	6-year	Location 3	16	38
Residential	Adult	6-year	Location 4	27	92
Residential	Adult	6-year	Location 5	20	113
Residential	Adult	6-year	Location 6	8.0	11
Residential	Adult	6-year	Location 7	7.4	11
Residential	Adult	6-year	Location 8	5.5	9.7
Residential	Adult	6-year	Location 9	5.7	9.0
			Range	**5.5 - 27**	**9.0 - 113**
Residential	Adult & Child	30-year	Background	20	50
Residential	Adult & Child	30-year	Location 2	13	34
Residential	Adult & Child	30-year	Location 3	21	52
Residential	Adult & Child	30-year	Location 4	36	125
Residential	Adult & Child	30-year	Location 5	27	153
Residential	Adult & Child	30-year	Location 6	11	15
Residential	Adult & Child	30-year	Location 7	10	15
Residential	Adult & Child	30-year	Location 8	7.5	13
Residential	Adult & Child	30-year	Location 9	7.8	12
			Range	**7.5 - 36**	**12 - 153**
Industrial	Adult	3-year	Location 5	14	81
Industrial	Adult	6-year	Location 5	14	81
Industrial	Adult	30-year	Location 5	14	81
			Range	**14**	**81**

Figure 5-1 - Average Exposure - Noncarcinogenic Hazard Indices for Airborne COCs at NAFAtsugi

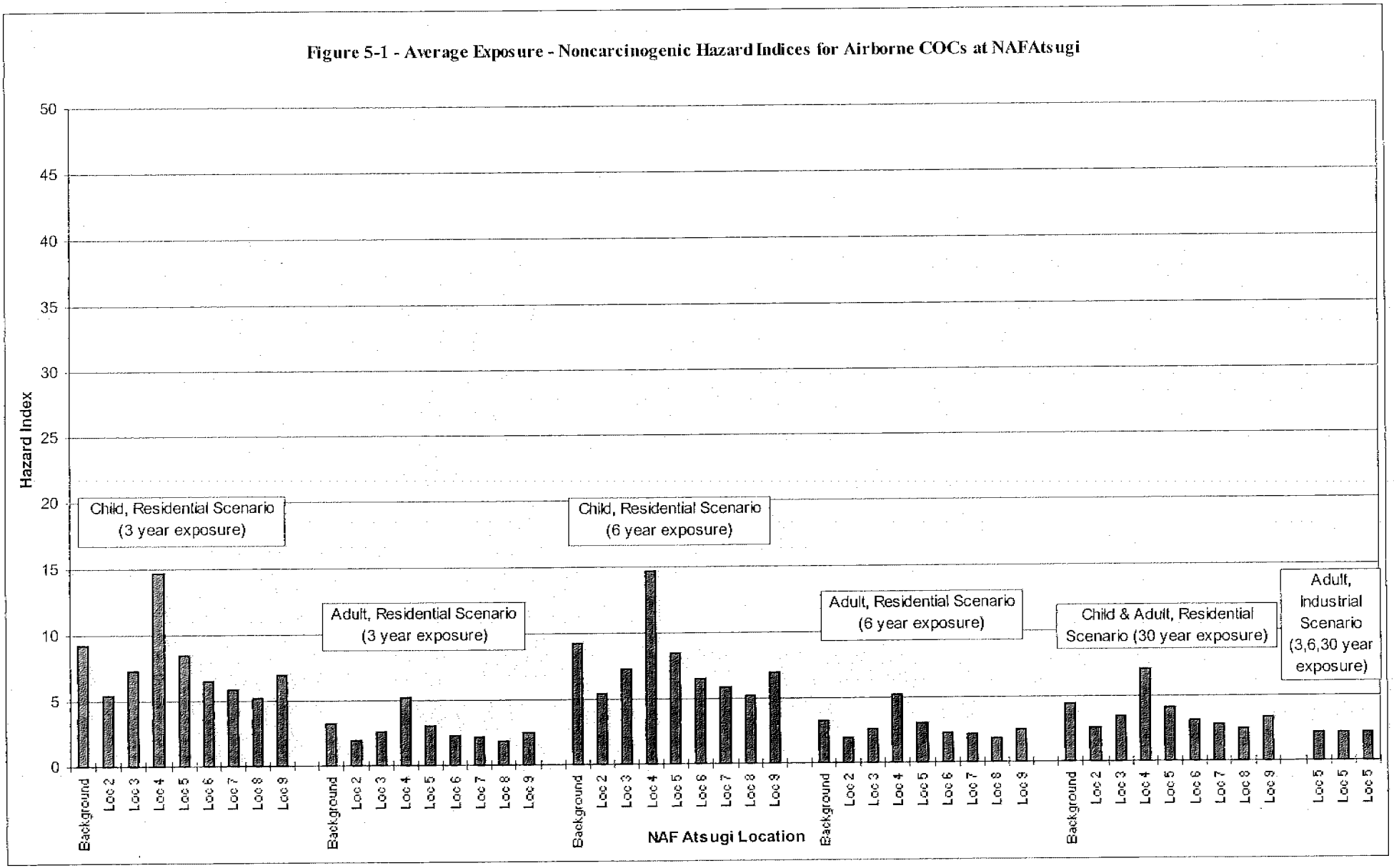


Figure 5-2 - Reasonable Maximum Exposure - Noncarcinogenic Hazard Indices for Airborne COCs at NAFAtsugi

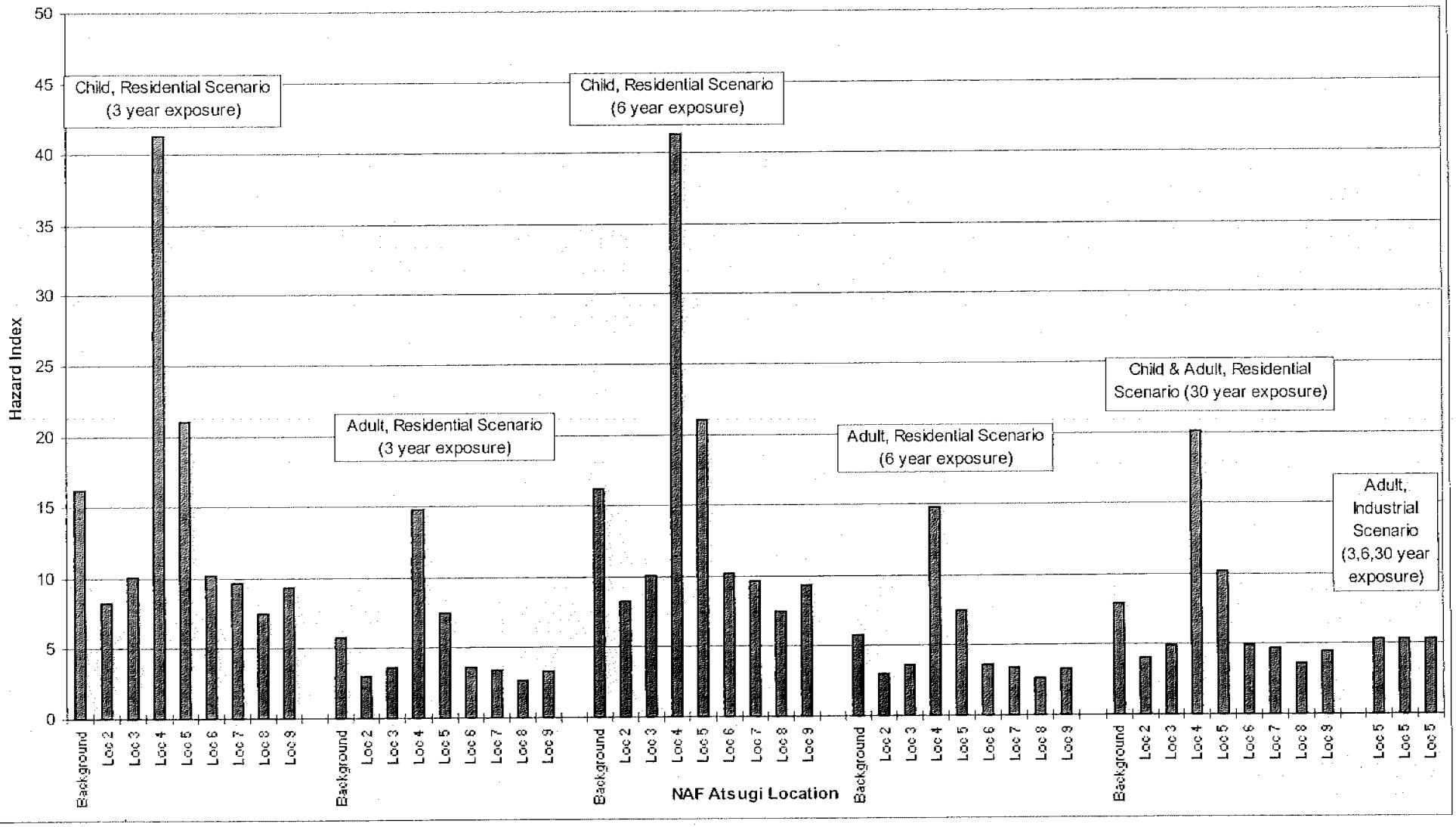


Figure 5-3 - Average Exposure - Carcinogenic Risks for Airborne COCs at NAF Atsugi

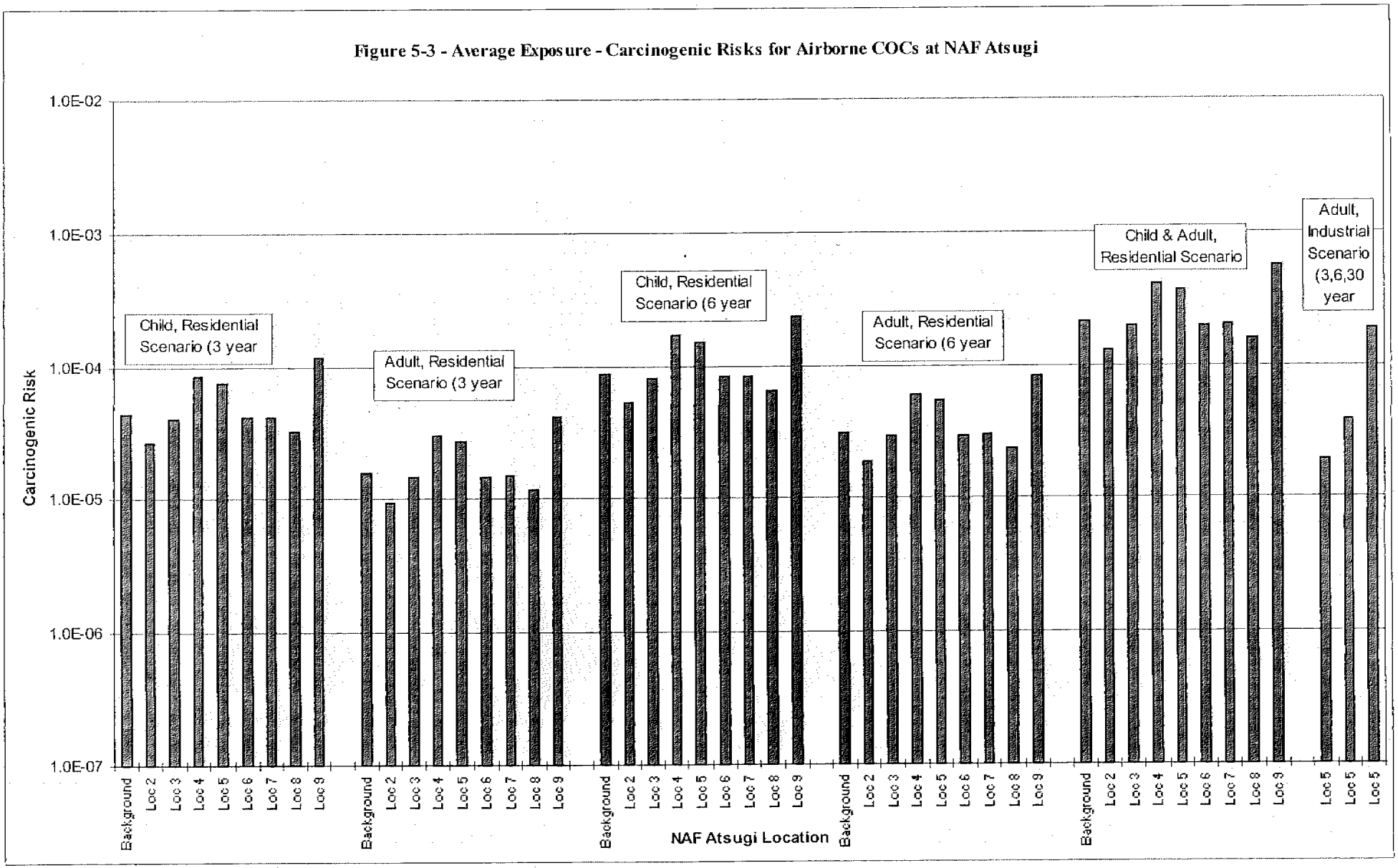


Figure 5-4 - Reasonable Maximum Exposure - Carcinogenic Risks for Airborne COCs at NAF Atsugi

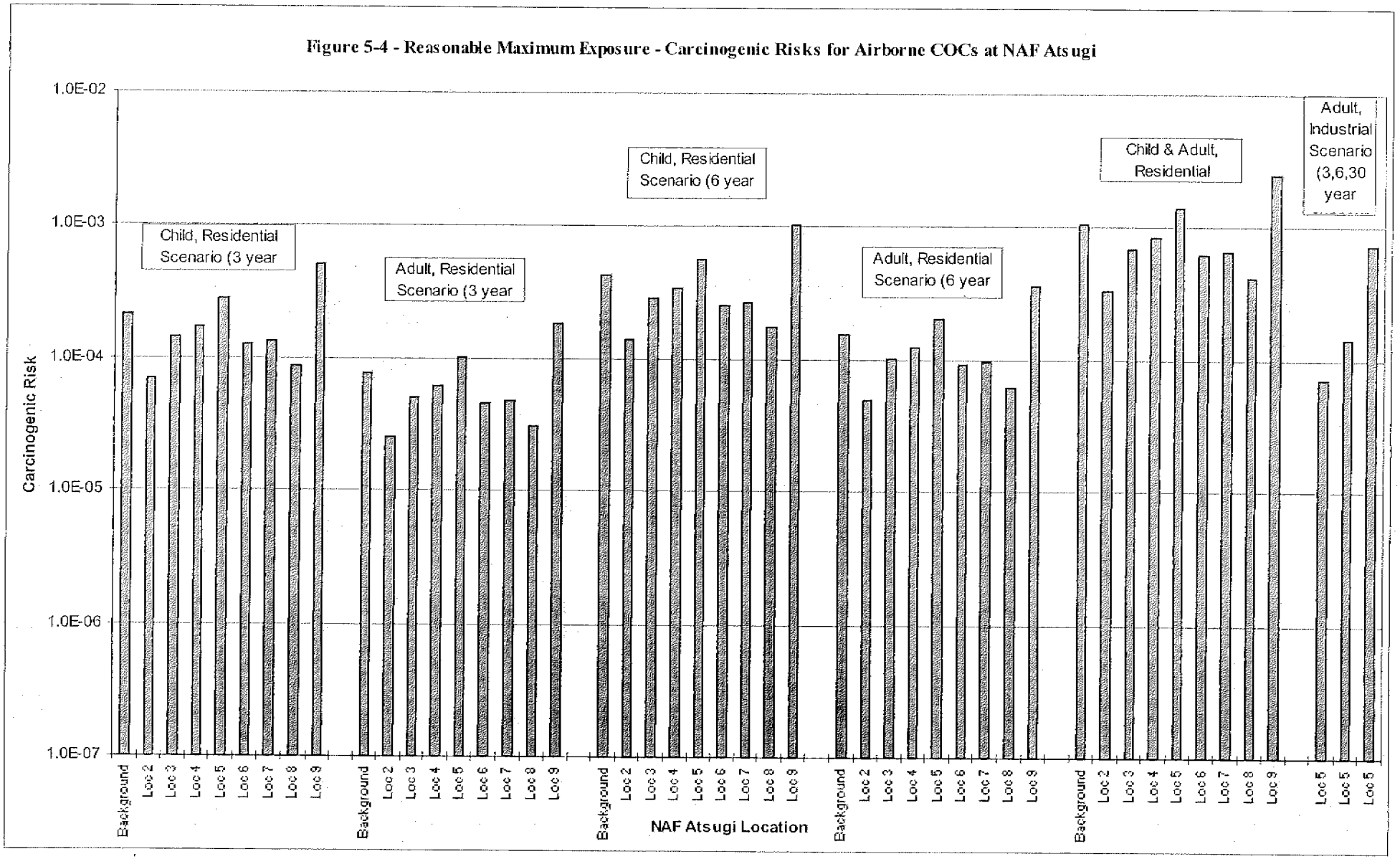


Table 5-2 - Percentage that COCs Contribute to the Majority of the Hazard Indices at Each Location

COC	Background		Location 2		Location 3		Location 4		Location 5		Location 6		Location 7		Location 8		Location 9	
	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME
PM_{10}	94.6	95.5	99.9	99.8	94.6	87.9	89.5	75.6	92.2	86.0	93.5	87.9	93.4	91.4	94.0	94.1	95.3	95.0
1,2-Dichloropropane	--	--	--	--	--	11.9	10.3	24.3	--	11.4	--	11.9	--	8.3	--	--	--	--
Acetaldehyde	--	--	--	--	--	--	--	--	--	2.4	--	--	--	--	--	--	--	--
Total	**94.6**	**95.5**	**99.9**	**99.8**	**94.6**	**99.8**	**99.8**	**99.9**	**92.2**	**99.8**	**93.5**	**99.8**	**93.4**	**99.7**	**94.0**	**94.1**	**95.3**	**95.0**

-- = 0%

Table 5-3 - Percentage that COCs Contribute to the Majority of the Carcinogenic Risk at Each Location

COC	Background		Location 2		Location 3		Location 4		Location 5		Location 6		Location 7		Location 8		Location 9	
	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME	Ave	RME
Arsenic	7.6	4.0	--	13.1	10.8	12.2	6.1	5.0	6.3	6.7	7.2	5.0	6.5	5.2	7.3	5.8	2.4	1.6
Beryllium	--	0.6	--	0.7	--	--	1.0	--	--	--	--	--	--	--	--	--	--	--
Cadmium	--	1.3	1.9	1.5	10.3	17.1	6.8	10.5	14.6	25.1	1.3	--	3.1	4.4	2.6	3.6	--	--
Formaldehyde	13.5	5.2	--	--	--	--	--	--	10.5	4.7	--	--	--	--	--	--	--	--
1,2-Dichloroethane	2.6	--	1.6	--	2.7	--	1.3	--	1.7	1.0	3.3	2.3	3.0	1.6	3.7	2.2	--	--
Benzene	9.7	3.8	11.2	5.7	8.9	3.3	5.4	3.4	7.0	2.8	8.6	4.4	8.4	5.0	10.7	5.0	3.0	--
Carbon Tetrachloride	2.4	--	2.3	--	2.5	--	1.3	--	1.5	--	2.5	--	2.8	1.5	3.5	2.3	--	--
Chloroform	--	--	1.8	1.1	1.5	--	1.3	1.0	1.8	2.0	4.0	6.9	1.3	--	3.2	4.2	--	--
Vinyl chloride	--	--	--	--	1.3	--	--	--	1.1	1.1	2.4	3.1	1.5	--	1.7	1.4	--	--
2,3,7,8-TCDD TEQ	56.7	81.4	63.8	75.4	60.1	63.5	75.7	75.8	53.9	54.8	69.0	75.1	72.2	79.9	65.7	74.5	90.6	95.4
Chloromethane	--	--	1.3	--	--	--	--	--	--	--	1.1	1.1	--	--	1.2	0.6	--	--
Total	**92.5**	**96.3**	**83.9**	**97.5**	**98.1**	**96.1**	**98.9**	**95.7**	**98.4**	**98.2**	**99.4**	**97.9**	**98.8**	**97.6**	**99.6**	**99.6**	**96.0**	**97.0**

-- = 0%

5.4 Qualitative Assessment of Chemicals Without Toxicity Values

A number of chemicals were detected in air samples that could not be evaluated as part of the quantitative risk assessment. Chemicals not included in the total risk calculations were chromium, lead, cis-1,3 dichloropropene, trans-1,3 dichloropropene, propanal, trichloroethylene, tetrachloroethylene. Toxicity values from IRIS and HEAST are generally used to calculate risks. Although current values are not available for these chemicals, the carcinogenic and non-carcinogenic risks for these chemicals, except propanal, were calculated using the EPA's National Center for Environmental Assessment provisional toxicity values.

The integrated (combined child and adult) cancer risks for 6 years calculated for 1,3 dichloropropene, tetrachloroethylene and trichloroethylene using their maximum concentrations were 1.7E-05, 4E-07 and 7.4E-06, respectively. For 3 years the cancer risks were 8.7E-06, 2E-07 and 3.8E-06, respectively. Since no toxicity values are available for propanal, it could not be evaluated.

Two species of chromium were sampled and analyzed, trivalent (Cr III) and hexavalent chromium (Cr VI). Cr VI is a carcinogen and Cr III is not. In the presence of oxidizable organic matter , Cr VI is quickly reduced to Cr III. The 1997 air quality data was analyzed for Cr VI and total chromium reported as Cr III. Cr VI results indicate that detection levels were exceeded in only one sample; therefore a risk for Cr VI could not be calculated.

HEAST proposed a toxicity value in 1990 for Cr III, which was derived from the Cr VI toxicity value. Since that time, the toxicity value has been withdrawn and it is thought to be very conservative. Although it is conservative, it can still be used for screeing purposes; Region III continues to use it for screening. In 1995, a hazard quotient (HQ) for Cr III was calculated for the air quality data collected in 1994. For comparison purposes, it was also calculated for the 1997 data. As a result of the conservative nature of the toxicity value used to compute the HQ, a separate table was prepared for chromium, Table 5-1B.

PM_{10} refers to particulate matter less than 10 microns in diameter. Particles larger than 10 microns are not respirable (i.e., they are too large to reach the lung). The National Ambient Air Quality Standards (NAAQS) current annual arithmetic Mean for PM_{10} is 50 ug/m^3. The inhalation RfD used to calculate the noncarcinogenic risk for PM-10 was derived as follows: 50 ug/m^3 * 20 m^3/day * 1/70 kg * 1 mg/1000 ug. Table 5-4 indicates the health effects associated with increasing PM-10 air concentrations. As shown on Table 2-2 PM-10 concentrations ranged from an average concentration of 91ug/m^3 to a maximum concentration of 580 ug/m^3. These values represent concentrations that produce a range of effects from unhealthful to hazardous health effects. The maximum value represents concentrations at which premature death of ill and elderly will occur and healthy people will experience adverse symptoms that affect their normal activity.

Since lead does not have a toxicity value available, the lead levels were evaluated by comparison with the EPA National Ambient Air Quality Standard (NAAQS) for lead of 1.5 ug/m^3 maximum quarterly average. Samples collected at the nine sites indicated lead concentrations ranging from 0.1ug/m3 (average concentration) to 3.3 ug/m3 (maximum concentration). The maximum concentrations slightly exceeded the NAAQS at sites 4 and 5.

5.5 Determining the Impact of Wind Direction on the Risks

A variety of factors including topography and meteorology (including wind speed, wind direction, precipitation, etc.) can significantly impact airborne concentrations of constituents emitted from the Jinkanpo Incineration Complex. Wind speed and wind direction data on the days which air monitoring occurred were obtained in order to attempt to evaluate their potential impact on constituent concentrations in ambient air and consequently the risks to exposed individuals.

5.5.1 Wind Roses

Meteorological data were collected at the NAF Atsugi Meteorological Station on each day that air sampling was performed. The hourly wind speed and direction results were evaluated using EPA's Wind Rose program. A wind

Table 5-4 - PM-10 Concentrations and Health Effects

PM-10 (24-h) ug/m^3	Air Quality Level	Health Effect Descriptor	General Health Effects	Cautionary Statements
600	Significant Harm		Acutely incapacitating symptoms experienced by significant portions of the population, especially by persons undergoing light exercise; health status of particularly vulnerable cardiopulmonary subjects may be compromised.	All persons should remain indoors, keep windows and doors closed, minimize physical exertion, and avoid traffic.
500	Emergency	Hazardous	Premature death of ill and elderly. Healthy people will experience adverse symptoms that affect their normal activity	All persons should remain indoors, keep windows and doors closed, minimize physical exertion, and avoid traffic.
420	Warning	Hazardous	Premature onset of certain diseases in addition to significant aggravation of symptoms and decreased exercise tolerance in healthy persons.	Elderly and persons with existing diseases should stay indoors and avoid exertion. General populations should avoid outdoor activity.
350	Alert	Very Unhealthful	Significant aggravation of symptoms and decreased exercise tolerance in persons with heart or lung disease, with widespread symptoms in the healthy population.	Elderly and persons with existing diseases should stay indoors and reduce physical activity.
150	NAAQS	Unhealthful	Mild aggravation of symptoms in susceptible persons, with irritation symptoms in the healthy populations	Persons with heart or respiratory ailments should stay indoors and reduce physical activity.
50	50% of NAAQS	Moderate		
0		Good		

Source: Measuring Air Quality: The Pollution Standard Index, EPA 451/K-94-001, July 1996.

rose depicts the frequency of occurrence of winds in each of 16 direction sectors (N, NNE, NE, etc.) and six wind speed classes for a given location and time period. The length of the rose "petals" increase as the frequency of different wind speed classes increase. The width of the petals increase as the frequency of a particular wind direction increases. Air sampling occurred at Locations 2, 4, 6, 8, 9 on the same days and therefore, these locations share the same wind rose. Locations 1, 3, 4, 5, and 7 were sampled on different days and each has its own wind rose. The wind roses are presented in Figures 5-5 through 5-9.

5.5.2 Correlation of Wind Direction and Concentration of COCs in Ambient Air

The meteorological data were evaluated in order to determine if the measured ambient COC concentrations are correlated with wind direction. That is: Did the concentrations of COCs in air at a sampling location increase as the percentage of time the wind blew emissions from the Jinkanpo Incineration Complex towards the location increased? To calculate the correlation, the percentage of the time that the wind blew towards each air sampling location from Jinkanpo Incineration Complex were determined, using the wind rose data and sampling dates.

PM_{10} was selected as the COC for the correlation evaluation because it is representative of overall particulate emissions from the Jinkanpo Incinerator Complex and is responsible for the majority of the hazard indices. Correlation is a statistical technique that is used to measure the relationship between two variables. A positive correlation results when two variables tend to move in the same direction. For example, a positive correlation results if the wind is blowing toward the air sampling location from the Jinkanpo Incinerator Complex and the COC concentrations increase. A perfect correlation results in a correlation coefficient of 1. The correlation coefficients for each location and the PM_{10} results are presented in Table 5-5. A correlation is not possible for the Background Location and Location 2 because the wind was not blowing toward the air monitors when samples were collected. Location 2 had the lowest carcinogenic risks and this could be in part due to the low occurrence and low speed of winds blowing from the direction of the incinerator. Location 4 had the highest hazard indices, yet based on the PM_{10} data, there was an negative correlation between wind direction and measured PM_{10} concentrations. This means that when the wind was not blowing toward the monitor the PM_{10} concentrations, and risks, increased. Locations 7 and 8 had fairly high positive correlations between wind direction and PM_{10} concentrations. Figure 5-10 graphically presents the wind direction information in combination with the PM_{10} monitoring results. If airborne concentrations of COCs were dependent on the direction the wind is blowing the bars on the bar charts would rise and fall with as the wind direction changes.

The results of this evaluation indicate very little correlation between wind direction and concentrations of COCs in ambient air. This is not surprising because there are a variety of factors (see Section 5.4.3) that would significantly affect ambient COC concentrations. In addition, this evaluation is based on a small data set.

5.5.3 Other Factors that May Affect Ambient Concentrations

In addition to wind speed and direction, there are other factors that could significantly modulate constituent concentrations in ambient air. These additional factors include:

- **Incinerator Feed Stock** – If the feed stock inputs into the incinerator are heterogeneous the resulting products of incomplete combustion (PICs) and the Primary Organic Hazardous Constituents (POHCs) emissions would also vary.

- **Incinerator Operating Procedures** – If the incinerator is operated differently (e.g., different combustion temperatures) the emissions and the resulting airborne concentrations would be affected.

Fugitive Emissions from the Jinkanpo Incineration Complex – The contribution of fugitive emissions to airborne COC concentrations is not known. The amount and types of fugitive emissions from stockpiles, storage containers, and resulting other practices likely vary significantly based on the types of waste being stockpiled or incinerated.
rose depicts the frequency of occurrence of winds in each of 16 direction sectors (N, NNE, NE, etc.) and six wind speed classes for a given location and time period. The length of the rose "petals" increase as the frequency of different wind speed classes increase. The width of the petals increase as the frequency of a particular wind direction

increases. Air sampling occurred at Locations 2, 4, 6, 8, 9 on the same days and therefore, these locations share the same wind rose. Locations 1, 3, 4, 5, and 7 were sampled on different days and each has its own wind rose. The wind roses are presented in Figures 5-5 through 5-9.

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PM_{10} was selected as the COC for the correlation evaluation because it is representative of overall particulate emissions from the Jinkanpo Incinerator Complex and is responsible for the majority of the hazard indices. Correlation is a statistical technique that is used to measure the relationship between two variables. A positive correlation results when two variables tend to move in the same direction. For example, a positive correlation results if the wind is blowing toward the air sampling location from the Jinkanpo Incinerator Complex and the COC concentrations increase. A perfect correlation results in a correlation coefficient of 1. The correlation coefficients for each location and the PM_{10} results are presented in **Table 5-5**. A correlation is not possible for the Background Location and Location 2 because the wind was not blowing toward the air monitors when samples were collected. Location 2 had the lowest carcinogenic risks and this could be in part due to the low occurrence and low speed of winds blowing from the direction of the incinerator. Location 4 had the highest hazard indices, yet based on the PM_{10} data, there was an negative correlation between wind direction and measured PM_{10} concentrations. This means that when the wind was not blowing toward the monitor the PM_{10} concentrations, and risks, increased. Locations 7 and 8 had fairly high positive correlations between wind direction and PM_{10} concentrations. **Figure 5-10** graphically presents the wind direction information in combination with the PM_{10} monitoring results. If airborne concentrations of COCs were dependent on the direction the wind is blowing the bars on the bar charts would rise and fall with as the wind direction changes.

The results of this evaluation indicate very little correlation between wind direction and concentrations of COCs in ambient air. This is not surprising because there are a variety of factors (see **Section 5.4.3**) that would significantly affect ambient COC concentrations. In addition, this evaluation is based on a small data set.

5.5.3 Other Factors that May Affect Ambient Concentrations

In addition to wind speed and direction, there are other factors that could significantly modulate constituent concentrations in ambient air. These additional factors include:

- **Incinerator Feed Stock** – If the feed stock inputs into the incinerator are heterogeneous the resulting products of incomplete combustion (PICs) and the Primary Organic Hazardous Constituents (POHCs) emissions would also vary.

- **Incinerator Operating Procedures** – If the incinerator is operated differently (e.g., different combustion temperatures) the emissions and the resulting airborne concentrations would be affected.

- **Fugitive Emissions from the Jinkanpo Incineration Complex** – The contribution of fugitive emissions to airborne COC concentrations is not known. The amount and types of fugitive emissions from stockpiles, storage containers, and resulting other practices likely vary significantly based on the types of waste being stockpiled or incinerated. rose depicts the frequency of occurrence of winds in each of 16 direction sectors (N, NNE, NE, etc.) and six wind speed classes for a given location and time period. The length of the rose "petals" increase as the frequency of different wind speed classes increase. The width of the petals increase as the frequency of a particular wind direction increases. Air sampling occurred at Locations 2, 4, 6, 8, 9 on the same days and therefore, these locations share the same wind rose. Locations 1, 3, 4, 5, and 7 were sampled on different days and each has its own wind rose. The wind roses are presented in Figures 5-5 through 5-9.

5.5.2 Correlation of Wind Direction and Concentration of COCs in Ambient Air

The meteorological data were evaluated in order to determine if the measured ambient COC concentrations are correlated with wind direction. That is: Did the concentrations of COCs in air at a sampling location increase as the percentage of time the wind blew emissions from the Jinkanpo Incineration Complex towards the location increased? To calculate the correlation, the percentage of the time that the wind blew towards each air sampling location from Jinkanpo Incineration Complex were determined, using the wind rose data and sampling dates.

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The results of this evaluation indicate very little correlation between wind direction and concentrations of COCs in ambient air. This is not surprising because there are a variety of factors (see Section 5.4.3) that would significantly affect ambient COC concentrations. In addition, this evaluation is based on a small data set.

5.5.3 Other Factors that May Affect Ambient Concentrations

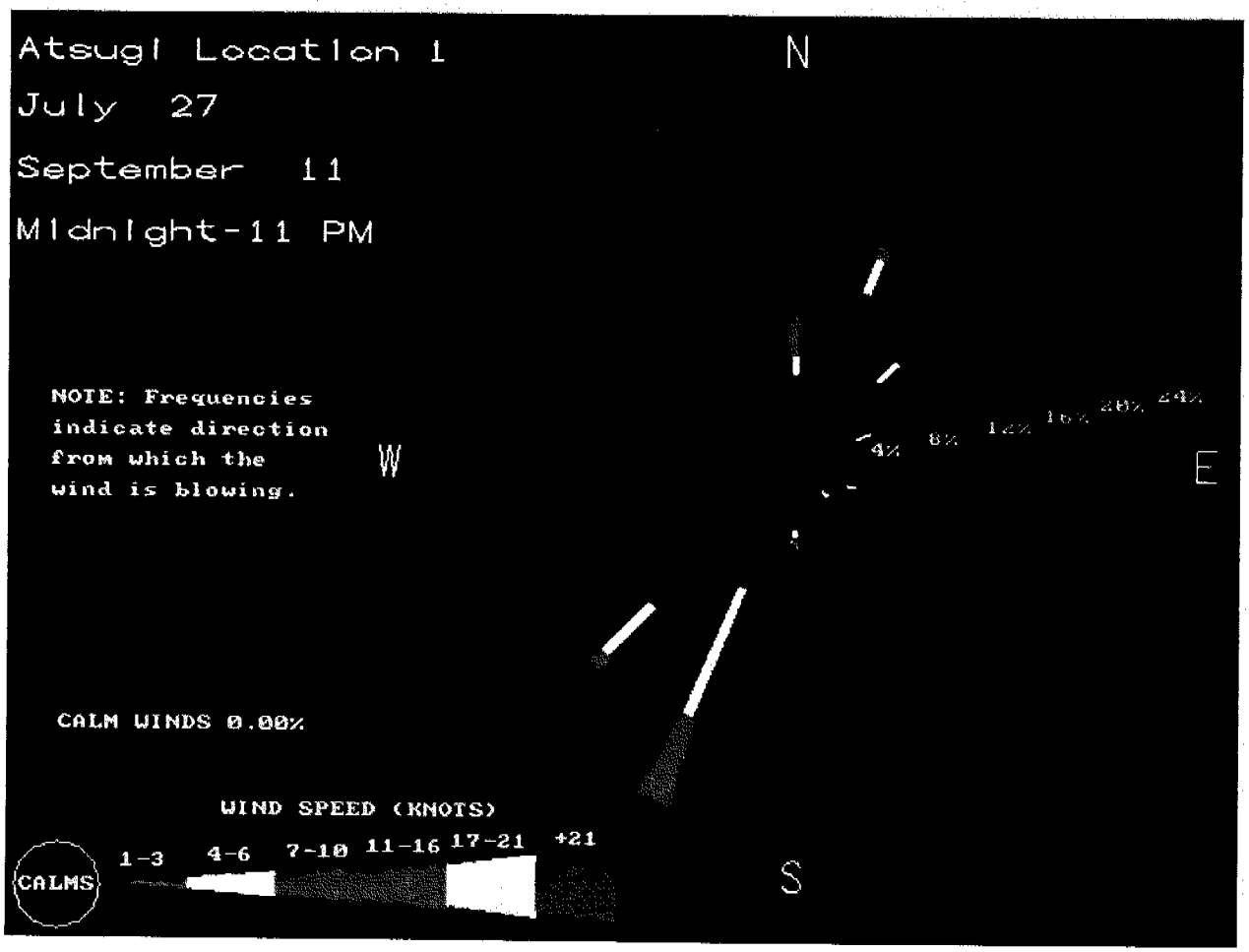
In addition to wind speed and direction, there are other factors that could significantly modulate constituent concentrations in ambient air. These additional factors include:

- **Incinerator Feed Stock** – If the feed stock inputs into the incinerator are heterogeneous the resulting products of incomplete combustion (PICs) and the Primary Organic Hazardous Constituents (POHCs) emissions would also vary.

- **Incinerator Operating Procedures** – If the incinerator is operated differently (e.g., different combustion temperatures) the emissions and the resulting airborne concentrations would be affected.

- **Fugitive Emissions from the Jinkanpo Incineration Complex** – The contribution of fugitive emissions to airborne COC concentrations is not known. The amount and types of fugitive emissions from stockpiles, storage containers, and resulting other practices likely vary significantly based on the types of waste being stockpiled or incinerated.

Figure 5-5 - Background NAF Atsugi Wind Speed and Direction Frequency Distribution (knots) – July 27 to September 11, 1997



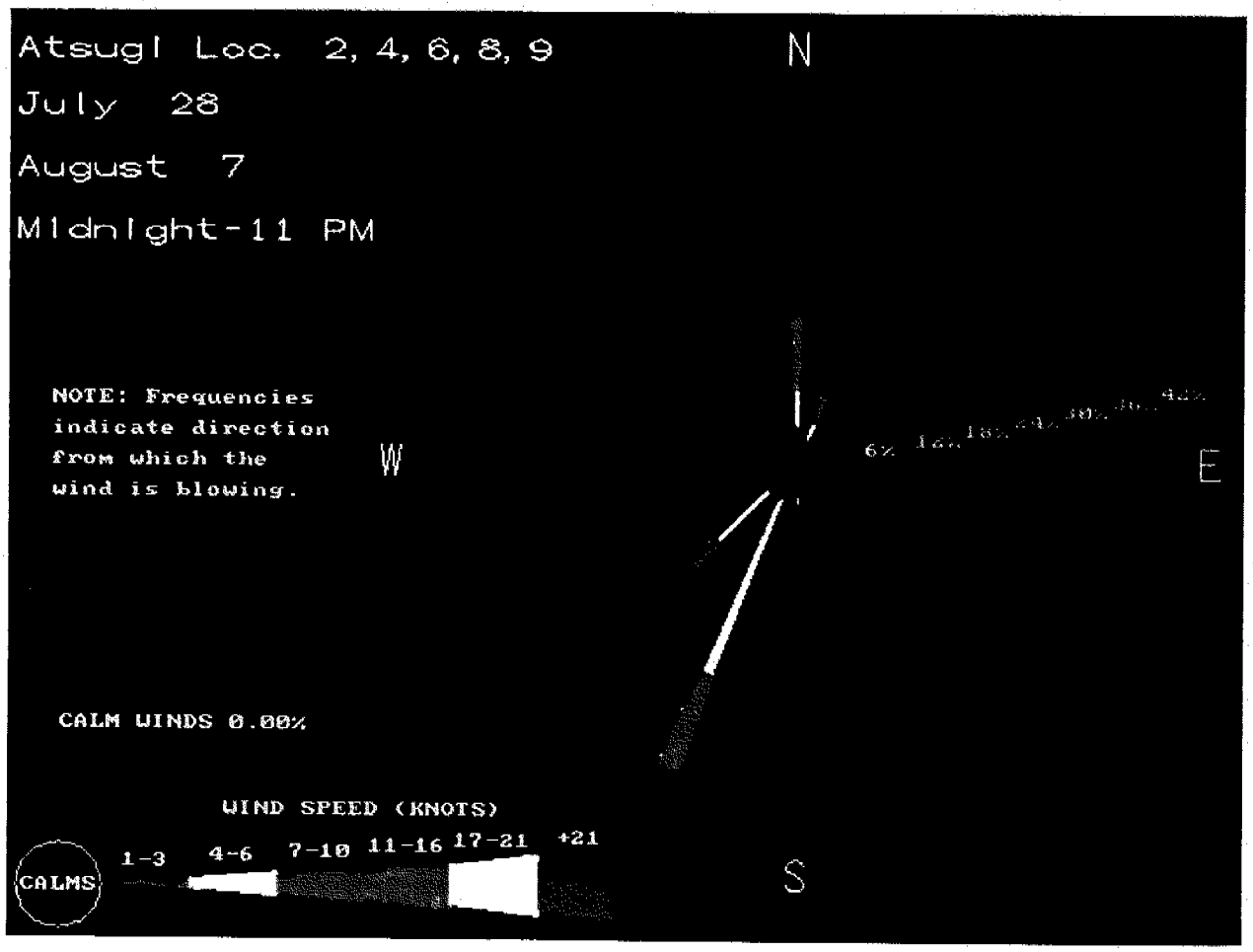
Direction*	1 - 3 Knots	4 - 6 Knots	7 - 10 Knots	11 - 16 Knots	17 - 21 Knots	> 21 Knots	Total
N	4.9	1.2	2.2	0.6	--	--	8.8
NNE	11.4	2.4	1.4	0.2	--	--	15.3
NE	6.7	1.8	--	--	--	--	8.4
ENE	3.1	1.0	--	--	--	--	4.1
E	1.6	0.2	--	--	--	--	1.8
ESE	2.6	0.6	--	--	--	--	3.1
SE	1.4	0.4	--	--	--	--	1.8
SSE	1.8	--	--	--	--	--	1.8
S	3.3	0.4	0.4	0.4	--	--	4.5
SSW	7.9	9.4	4.5	1.8	--	--	23.6
SW	12.4	4.5	1.2	--	--	--	18.1
WSW	3.1	--	--	--	--	--	3.1
W	2.0	--	--	--	--	--	2.0
WNW	1.0	--	--	--	--	--	1.0
NW	1.0	--	--	--	--	--	1.0
NNW	1.2	--	0.4	--	--	--	1.6
Total	**65.2**	**21.8**	**10.0**	**2.9**	--	--	**100.0**

-- = 0%

*Direction that wind is blowing from.

NOTE: The input wind directions measured to the nearest 10 degrees have been randomized to 1-degree increments.

Figure 5-6 - Locations 2,4,6,8,9 NAF Atsugi Wind Speed and Direction Frequency Distribution (knots) - July 28 to August 7, 1997



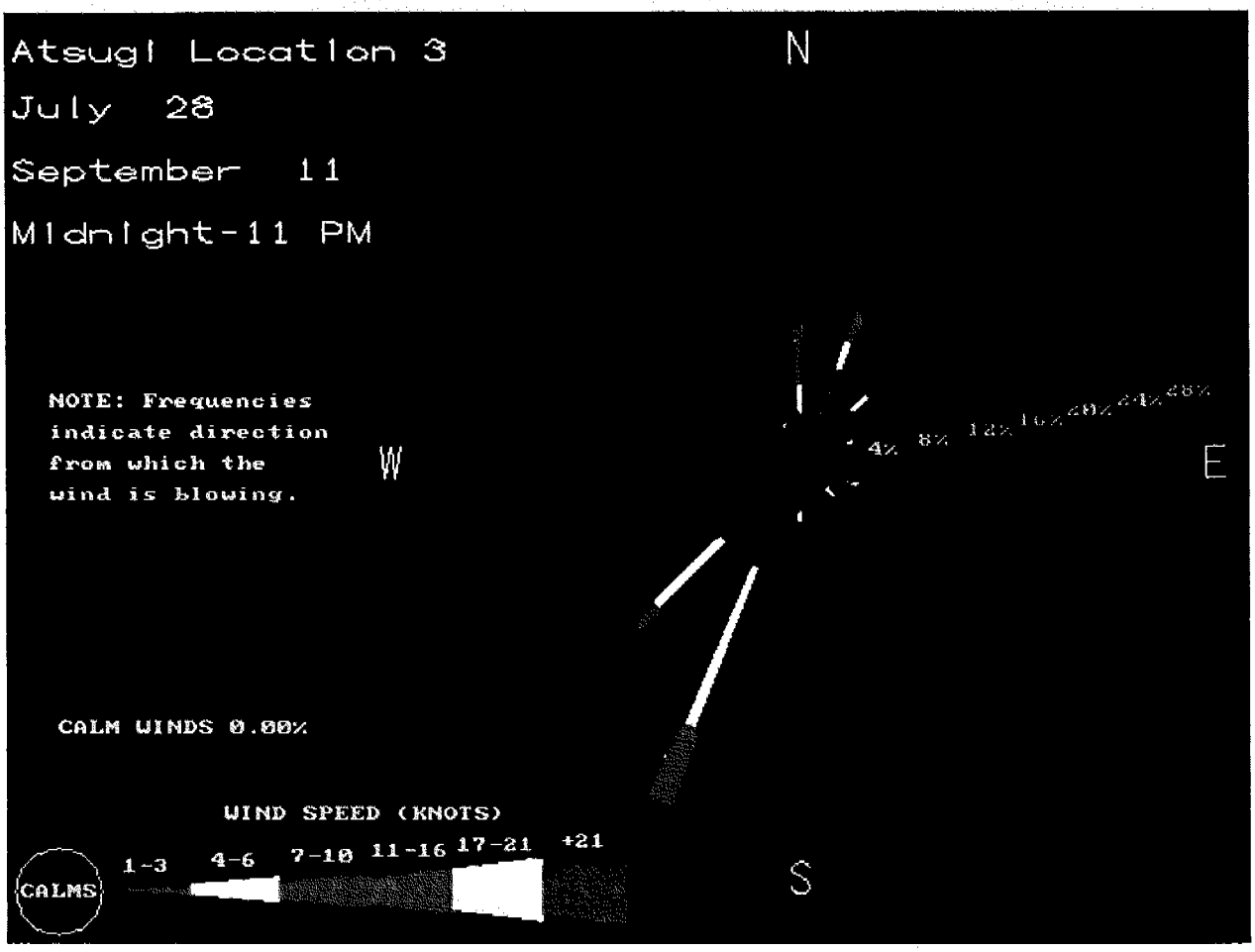
Direction*	1 - 3 Knots	4 - 6 Knots	7 - 10 Knots	11 - 16 Knots	17 - 21 Knots	> 21 Knots	Total
N	2.1	4.1	7.6	2.1	--	--	15.9
NNE	0.7	2.1	4.8	0.7	--	--	8.3
NE	3.4	--	--	--	--	--	3.4
ENE	1.4	--	--	--	--	--	1.4
E	2.1	--	--	--	--	--	2.1
ESE	2.8	--	--	--	--	--	2.8
SE	0.7	--	--	--	--	--	0.7
SSE	1.4	--	--	--	--	--	1.4
S	2.1	0.7	0.7	--	--	--	3.4
SSW	2.8	22.1	12.4	--	--	--	37.2
SW	2.8	8.3	4.1	--	--	--	15.2
WSW	1.4	--	--	--	--	--	1.4
W	0.7	--	--	--	--	--	0.7
WNW	1.4	--	--	--	--	--	1.4
NW	1.4	--	--	--	--	--	1.4
NNW	2.1	--	1.4	--	--	--	3.4
Total	**29.0**	**37.2**	**31.0**	**2.8**	--	--	**100.0**

-- = 0%

*Direction that wind is blowing from.

NOTE: The input wind directions measured to the nearest 10 degrees have been randomized to 1-degree increments.

Figure 5-7 - Location 3 NAF Atsugi Wind Speed and Direction Frequency Distribution (knots) – July 28 to August 7, 1997



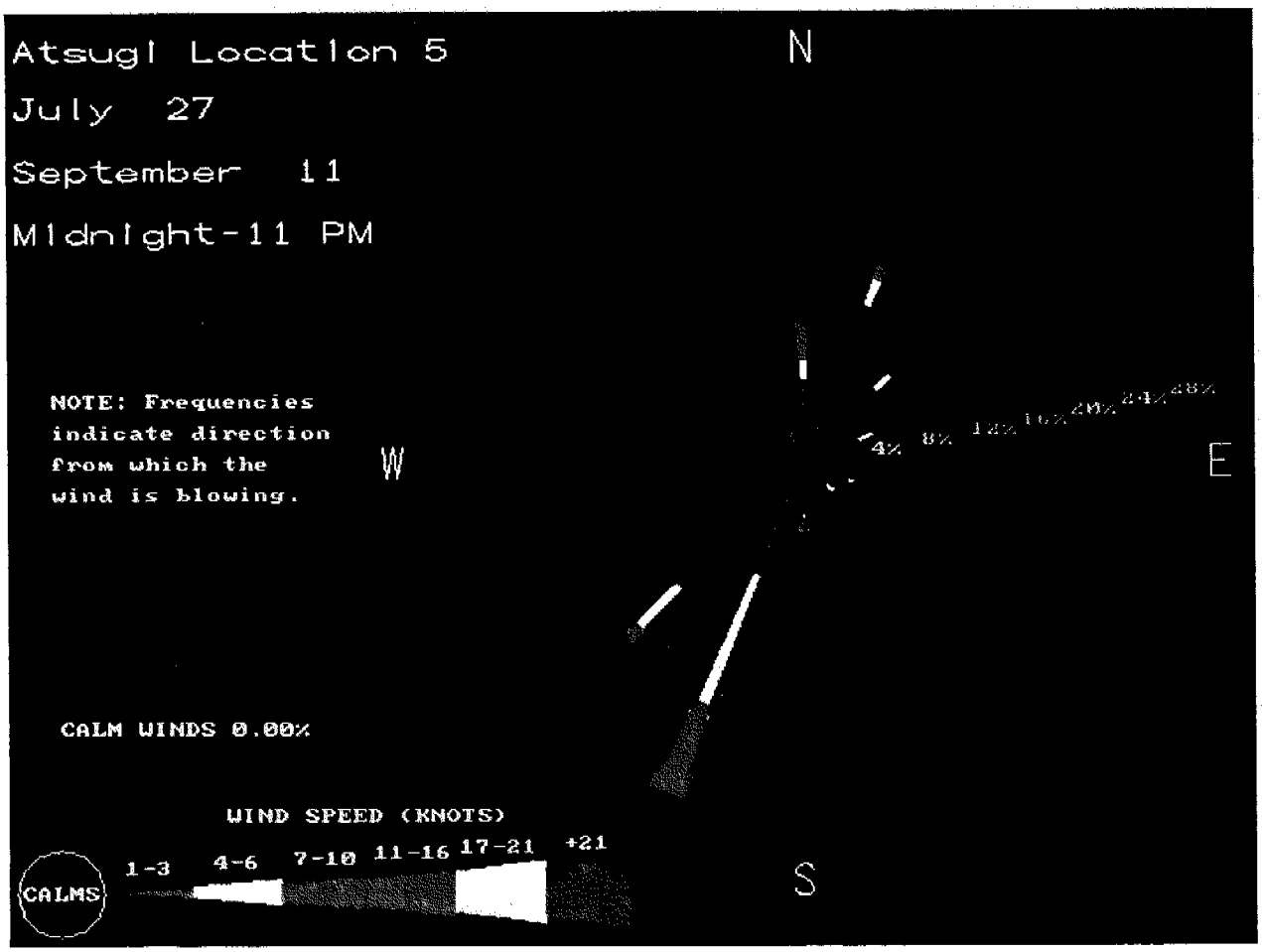
Direction*	1 - 3 Knots	4 - 6 Knots	7 - 10 Knots	11 - 16 Knots	17 - 21 Knots	> 21 Knots	Total
N	2.5	2.2	4.0	1.1	--	--	9.8
NNE	6.5	2.2	2.5	0.4	--	--	11.6
NE	4.3	1.4	--	--	--	--	5.8
ENE	2.5	0.4	--	--	--	--	2.9
E	1.8	0.4	--	--	--	--	2.2
ESE	2.5	0.7	--	--	--	--	3.3
SE	1.4	0.7	--	--	--	--	2.2
SSE	2.5	--	--	--	--	--	2.5
S	2.5	0.7	0.4	--	--	--	3.6
SSW	7.6	13.4	6.5	--	--	--	27.5
SW	7.2	7.2	2.2	--	--	--	16.7
WSW	4.0	--	--	--	--	--	4.0
W	2.5	--	--	--	--	--	2.5
WNW	1.1	--	--	--	--	--	1.1
NW	1.8	--	--	--	--	--	1.8
NNW	1.8	--	0.7	--	--	--	2.5
Total	**52.9**	**29.3**	**16.3**	**1.4**	--	--	**100.0**

-- = 0%

*Direction that wind is blowing from.

NOTE: The input wind directions measured to the nearest 10 degrees have been randomized to 1-degree increments.

Figure 5-8 - Location 5 NAF Atsugi Wind Speed and Direction Frequency Distribution (knots) – July 27 to September 11, 1997



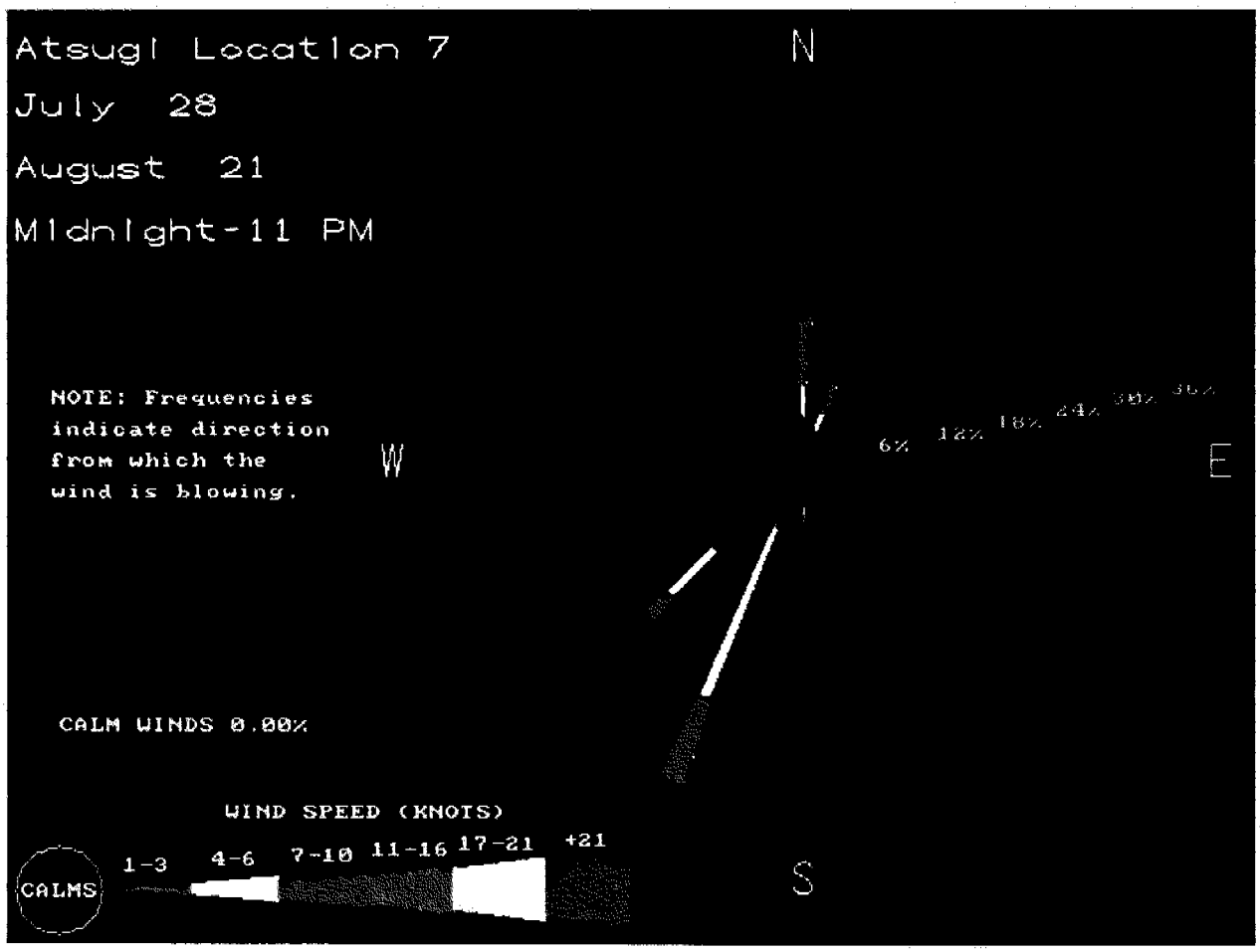
Direction*	1 - 3 Knots	4 - 6 Knots	7 - 10 Knots	11 - 16 Knots	17 - 21 Knots	> 21 Knots	Total
N	5.2	1.4	2.6	0.7	--	--	9.9
NNE	11.7	2.1	1.6	0.2	--	--	15.7
NE	6.6	1.4	--	--	--	--	8.0
ENE	3.3	0.9	--	--	--	--	4.2
E	1.2	--	--	--	--	--	1.2
ESE	2.3	0.2	--	--	--	--	2.6
SE	1.2	0.5	--	--	--	--	1.6
SSE	1.6	--	--	--	--	--	1.6
S	2.8	0.2	0.5	0.5	--	--	4.0
SSW	8.2	10.8	5.4	2.1	--	--	26.5
SW	12.4	4.2	1.4	--	--	--	18.1
WSW	2.3	--	--	--	--	--	2.3
W	1.4	--	--	--	--	--	1.4
WNW	0.9	--	--	--	--	--	0.9
NW	0.5	--	--	--	--	--	0.5
NNW	0.9	--	0.5	--	--	--	1.4
Total	**62.7**	**21.8**	**12.0**	**3.5**	**0.0**	**0.0**	**100.0**

-- = 0%

*Direction that wind is blowing from.

NOTE: The input wind directions measured to the nearest 10 degrees have been randomized to 1-degree increments.

Figure 5-9 - Locations 7 NAF Atsugi Wind Speed and Direction Frequency Distribution (knots) - – July 28 to August 21, 1997



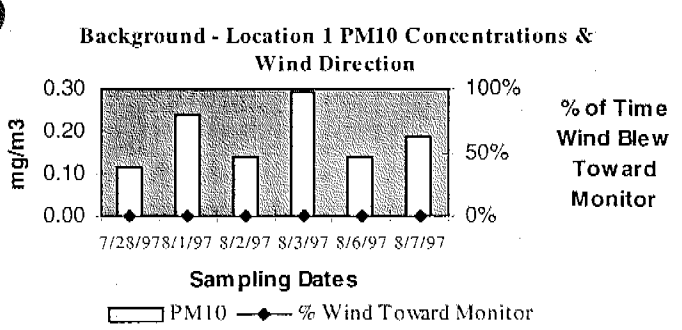
Direction*	1 - 3 Knots	4 - 6 Knots	7 - 10 Knots	11 - 16 Knots	17 - 21 Knots	> 21 Knots	Total
N	2.6	3.1	5.7	1.6	--	--	13.0
NNE	1.6	1.6	3.6	0.5	--	--	7.3
NE	4.1	--	--	--	--	--	4.1
ENE	1.0	--	--	--	--	--	1.0
E	2.6	--	--	--	--	--	2.6
ESE	3.1	--	--	--	--	--	3.1
SE	1.0	--	--	--	--	--	1.0
SSE	1.6	--	--	--	--	--	1.6
S	3.1	0.5	0.5	--	--	--	4.1
SSW	5.7	18.1	9.3	--	--	--	33.2
SW	10.9	6.2	3.1	--	--	--	20.2
WSW	1.6	--	--	--	--	--	1.6
W	1.6	--	--	--	--	--	1.6
WNW	2.1	--	--	--	--	--	2.1
NW	1.0	--	--	--	--	--	1.0
NNW	1.6	--	1.0	--	--	--	2.6
Total	**45.1**	**29.5**	**23.3**	**2.1**	**--**	**--**	**100.0**

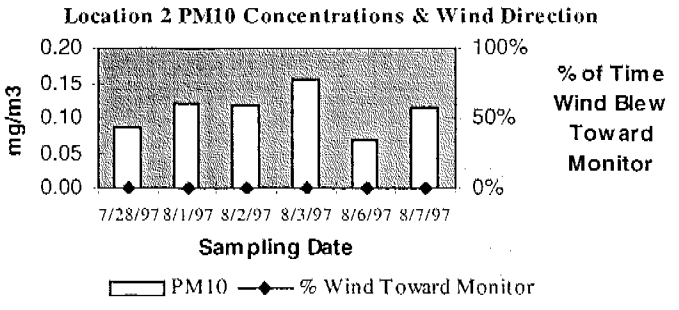
-- = 0%

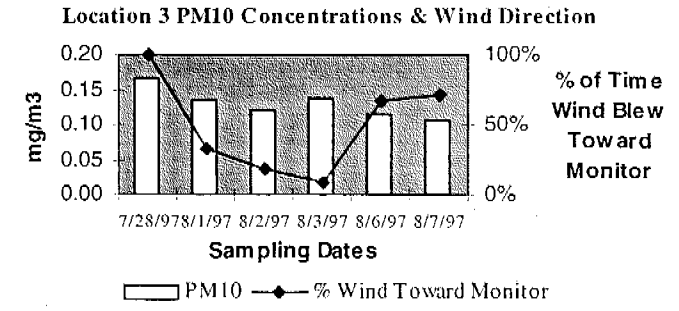
*Direction that wind is blowing from.

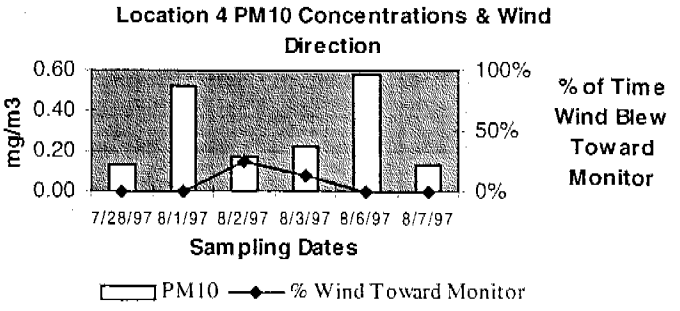
NOTE: The input wind directions measured to the nearest 10 degrees have been randomized to 1-degree increments.

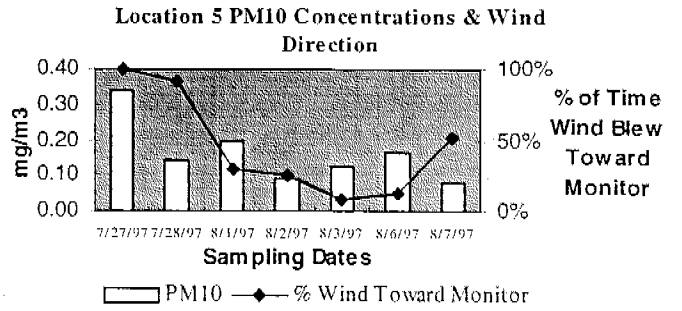
Figure 5-10 - PM10 Concentrations and Percentage of Time Wind Blew Toward Monitors for Each Sampling Location

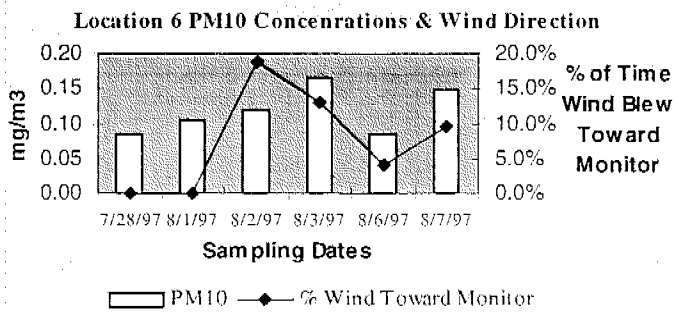


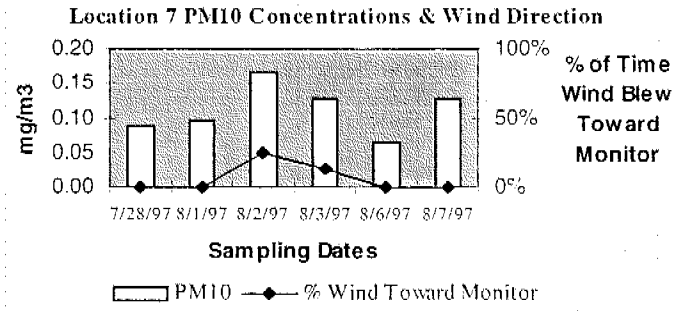


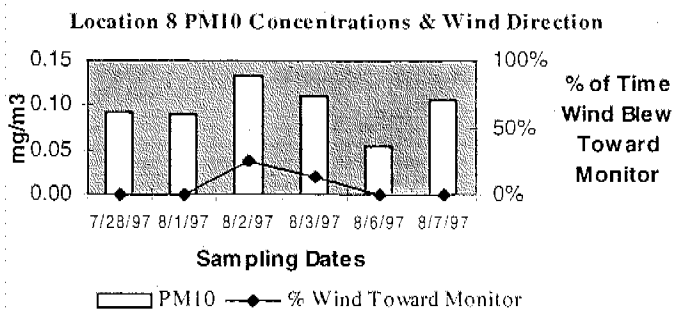












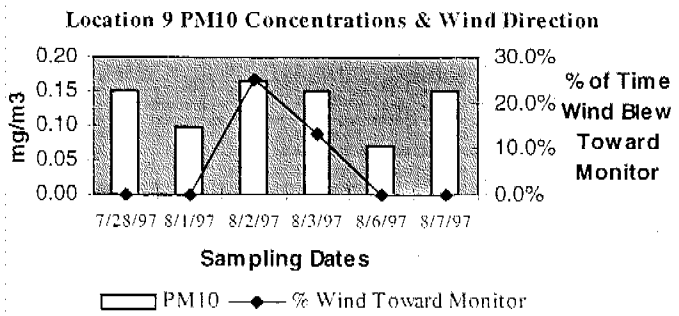


Table 5-5 - Meteorological and Monitoring Data and Correlation Coefficients

Location	Wind Direction to Maximize Airborne Concentrations at Monitor Locations	Data	7/27/97	7/28/97	8/1/97	8/2/97	8/3/97	8/6/97	8/7/97	Correlation Coefficient
Background - Location 1	N to WNW	PM_{10}		0.11	0.24	0.14	0.29	0.14	0.19	NA
		% Wind Toward Monitor		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Location 2	SW to WNW	PM_{10}		0.09	0.12	0.12	0.15	0.07	0.12	NA
		% Wind Toward Monitor		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Location 3	S to WSW	PM_{10}		0.17	0.13	0.12	0.14	0.12	0.11	0.26
		% Wind Toward Monitor		100.0%	33.3%	18.8%	8.7%	66.7%	71.4%	
Location 4	S to ESE	PM_{10}		0.13	0.52	0.17	0.22	0.58	0.13	-0.36
		% Wind Toward Monitor		0.0%	0.0%	25.0%	13.0%	0.0%	0.0%	
Location 5	SW to SSE	PM_{10}	0.34	0.14	0.20	0.09	0.13	0.16	0.08	0.52
		% Wind Toward Monitor	100.0%	91.7%	29.2%	25.0%	8.7%	12.5%	52.4%	
Location 6	SE to ENE	PM_{10}		0.09	0.10	0.12	0.17	0.08	0.15	0.64
		% Wind Toward Monitor		0.0%	0.0%	18.8%	13.0%	4.2%	9.5%	
Location 7	S to ESE	PM_{10}		0.09	0.10	0.16	0.13	0.06	0.13	0.82
		% Wind Toward Monitor		0.0%	0.0%	25.0%	13.0%	0.0%	0.0%	
Location 8	S to ESE	PM_{10}		0.09	0.09	0.13	0.11	0.05	0.11	0.75
		% Wind Toward Monitor		0.0%	0.0%	25.0%	13.0%	0.0%	0.0%	
Location 9	S to ESE	PM_{10}		0.15	0.10	0.16	0.15	0.07	0.15	0.57
		% Wind Toward Monitor		0.0%	0.0%	25.0%	13.0%	0.0%	0.0%	

Representativeness of Meteorological Data – Due to the influences of local terrain, possible coastal effects, the exposure of the instruments, and the temporal variability of the wind, the wind rose statistics may not always be representative of true transport in the area

Other Meteorological Factors – Other complete meteorological phenomenon such as inversion layers cannot be determined solely from wind speed and direction, but can have a significant impact on ambient air concentrations. An inversion occurs when a cold air mass collides with a warm air mass. The other two distinct reasons for inversions are radiational cooling of the earth's surface at night, which cools the lower layers of the atmosphere, and the subsidence associated with high pressure systems. In some instances the cold air mass is pushed upward, trapping the warm air mass beneath it which creates an inversion layer. The net effect of the inversion layer is that air pollutants are effectively trapped in the warmer air mass and concentrations of COCs increase. An inversion layer can decrease the correlation between wind direction/wind speed and constituent concentrations at air monitoring locations.

- **Wind Speed –** High wind speeds can also dilute ambient concentration of constituents by increasing the air exchange in an area.

- **Precipitation** – Precipitation reduces constituent concentrations in air through physical and chemical reactions. Specifically, particulate matter in the air is reduced as a result of wet deposition of the particles on soil or other surfaces.

6.0 Uncertainty Analysis

This report is a screening level assessment to determine the need for further study, and, therefore, more conservative assumptions were used and a larger range of uncertainties were assumed. In general there are a number of uncertainties that are inherent in any risk assessment. They are often associated with data evaluation, exposure and toxicity assessment, risk calculation assumptions and site specific uncertainties. There are additional uncertainties in this screening risk assessment as a result of the purpose of the data collection process for air quality versus risk assessment.

This section presents an evaluation of the uncertainties that enter the risk assessment at each step of the process. The risks presented in this assessment are conditional estimates based on a number of assumptions about exposure and toxicity given a particular land-use scenario. Uncertainties are created in a risk assessment because a range of values could be used for each assumption (i.e., parameter). Consistent with EPA policy, more conservative (i.e., upper bound) values are generally chosen for each parameter, while other values (i.e., values closer to the central tendency) may be more representative of site-specific conditions (EPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. July 1989). Choosing upper bound values for each parameter typically results in overly conservative risks that do not reflect site-specific conditions. Uncertainties are used to "bracket" the range of risks that could result from choosing alternate values for the parameters used in calculating risks. Sources of uncertainty identified in the human health evaluation and professional judgement regarding the direction and magnitude of these uncertainties are presented in Table 6-1.

Table 6-1 Summary of Uncertainties in the Human Health Evaluation and Site-Specific Characteristics

Source of Uncertainty	Direction[a]	Magnitude[b]	Action or Result
Data Evaluation			
Did not analyze air samples for constituents such as Polycyclic Aromatic Hydrocarbons (PAHs) or hexachlorobenze which would be expected to be emitted from the Incinerator Complex.	-	2-3	No way to address this uncertainty. If these constituents had been quantified it is very likely that the carcinogenic risk estimates presented herein would be significantly higher.
Data quality objectives established for compliance purposes rather than risk assessment purposes	+/-	2	Quality of Analytical Data required to meet data quality objectives for a risk assessment not sufficient to estimate actual risk.
Insufficient meteorological data resulted in lack of correlation between wind direction toward sampling site and concentration of chemicals	+/-	1	Meteorological data are a confounding factor in trying to determine if the monitored COC concentrations are representative of long-term exposure point concentrations. The impact of wind direction on ambient air COC concentrations could not be evaluated. This variable and other confounding factors could be eliminated through long-term monitoring and meteorological data collected at each sampling site
Did not have precipitation data for each day that air sampling was performed.	-	2	Likely results in an underestimation of risks as airborne particulates react with the precipitation and result in wet deposition. Exposure would then be via incidental soil ingestion, which was not evaluated in this risk assessment.
Exposure Assessment			
Exposure Assumptions	+/-	2	Used site-specific and EPA Standard Default Exposure Factors in the evaluation.
Toxicity Assessment			
Failure to include all constituents because of lack of EPA approved toxicity values	-	2	Results in an underestimation of the risks. RfDs were available for only 4 of the 24 COCs. Slope Factors were available for only 12 of the 24 COCs.
Extrapolation from animal studies to human toxicity	+	3	Used conservative approach incorporating safety factors and upper-bound estimates.
Calculation of Risks			
Assumed that health effects of constituents are additive	+/-	3	Assumed that health effects of constituents are additive in risk calculations. Antagonistic and synergistic effects of constituent mixtures were not evaluated.
Site-Specific Uncertainties			
Did not evaluate exposure via other routes of exposure.	-	3	Other exposure pathways will be evaluated when air-monitoring data become available.

[a]Direction of Effect + = May result in risk estimates that are overly conservative.

- = May result in risk estimates that are not conservative.

[b]Magnitude of Effect 1 = Small effect on risk estimates.
2 = Medium effect on risk estimates.
3 = Large effect on risk estimates.

7.0 SUMMARY AND DISCUSSION

7.1 Risk Assessment Limitations

The data used in the screening risk assessment was collected at nine different locations at NAF Atsugi on 23 different days from 7/27/97 through 9/11/97. These locations were selected based on the potential areas of exposure for base personnel and their families, other previously sampled locations as well as a new background location. Sites 2 to 9 were sampled between 7/27/97 and 8/7/97. It is important to note that not all sites were sampled at the same time during all 23 sampling days. Site 1 was sampled on 27 days, site 5 on 18 days, site 7 on 10 days, site 3 on 14 days and sites 2, 4, 6, 8, and 9 on 8 days during the same period., indicating limited sampling. Location 1 background was sampled more often because it was always sampled for each set of sites being sampled on a given day. Since data was collected for compliance purposes, the sampling protocol used did not meet the data quality objectives of a risk assessment and the analytical data did not receive third party validation. Therefore, it could only be used for a screening risk assessment. Additionally, since the detection limits for some of the chemicals were above the level of concern, an uncertainty was added to the estimation of the risk contributed by these chemicals.

Because the incinerator owners' awareness of the air monitoring being conducted at NAF Atsugi, normal operations were modified to reflect incineration of materials other than hazardous waste, whenever the wind was blowing toward the base. The sampling period was limited to 23 days of late summer and early fall and may not have represented the actual meteorological and incinerator operating conditions observed at other times when fumigation conditions existed in the past.

Meteorological information was limited to collection by the NAF Atsugi meteorological station located near site 1, south of the base and away from the other sampling sites. Due to the complexity of the meteorology, compounded by the presence of building and unevenness in the terrain it was not possible to correlate wind direction with air concentrations. This confounding factor could be eliminated through long-term monitoring and the use of additional meteorological stations.

The primary cancer risk drivers revealed by this ambient air quality monitoring were dioxins/furans, arsenic, cadmium and benzene. The primary non-cancer risk drivers were PM-10, chromium, 1,2-dichloropropane and acetaldehyde. PM-10 concentrations were of significant concern as shown by the health effects indicated on Table 5-4.

The only exposure pathway evaluated was the air pathway. Other potential pathways such as soil and dietary intake were not evaluated. Since dioxin is one of the cancer risk drivers, evaluation of soil incidental ingestion and dietary intake are particularly important pathways. The risk contribution is higher through ingestion. Consumption of animal food products of terrestrial (beef, pork, chicken, eggs, milk, etc.) or aquatic (fish) origin which contain dioxin lead to significantly higher risk as compared to the inhalation of air containing dioxin. Consumption of the food generally exceeds the inhalation exposure and risk by about two orders of magnitude. Additionally, soil related pathways (dermal contact or ingestion, even typical ingestion patterns by children) or vegetable/fruit ingestion lead to comparable or greater impacts as compared to the inhalation pathway. Given the fact that the air concentration appears significantly higher than is typical for urban setting, and that the estimated risk for the inhalation pathway may already be in the 10^{-4} range, an appropriate next step would be to evaluate other possible pathways that may be relevant for NAF Atsugi.

7.2 Comparison With the 1995 Screening Risk Assessment

Evaluation of the potential health risks in the 1995 screening risk assessment was conducted with samples collected in 1994 at two sites, an upwind site and a site located north of the incinerator at the fenceline. This risk assessment was performed using samples collected not only at similar locations but also at sites where base personnel and their families may be impacted by the air quality. In both risks assessments sampling were limited to 6 weeks during summer and early fall. The primary risks drivers common to both risk assessments were dioxins, chromium and PM-10. Both lacked sufficient meteorological data. In 1994 samples were collected during fumigating conditions, when the wind was blowing toward the base. In 1997 samples were collected during various meteorological conditions. In both air quality studies operations were modified from normal conditions because the owners of the incinerator became aware of the air monitoring. The contribution of risk by the various chemicals are different for each screening risk assessment. However, this is disputed as a result of high variability in meteorological conditions, materials burned by the incinerator and incinerator operating conditions. Both sets of data have the same amount of uncertainty and indicated the same level of risk for children and adults for the same exposure periods.

8.0 RECOMMENDATIONS

Based on the findings of this screening risk assessment we recommend the following:

1. Continue to update the Government of Japan of the potential threat to the health of on- and off-base NAF Atsugi residents, including the local Japanese community to enhance the Japanese Government awareness of the health risks caused by poor air quality at NAF Atsugi.

2. Perform year-round air monitoring at NAF Atsugi outdoor and indoor receptor sites to reduce uncertainties in the human health risk assessment.

3. Conduct soil trend analysis of dioxin deposition, analyze indoor and outdoor dust samples, as well as investigate the food pathway to characterize the risk from dioxin exposure.

4. Conduct soil sampling at receptor sites to characterize from soil pathway exposure.

5. Continue to educate day care workers about prevention of exposure and recognition of pica behavior in children to prevent exposures that may result from contact with surface soil.

6. Continue to collect medical data from Branch Clinic Atsugi and other comparable medical treatment facilities concerning respiratory health effects that may be attributed to the poor air quality, to determine rates of illness incidence.

7. Continue to educate healthcare providers assigned to Branch Clinic Atsugi in the prompt recognition and treatment of medical conditions, which might be caused/aggravated, by the poor air quality at NAF Atsugi.

8. Continue implementation of a Risk Communication program to inform NAF Atsugi residents of the efforts being conducted to characterize the exposure to the air quality at NAF Atsugi, in an understandable and effective manner.

9. Continue to advise residents about curtailing outside activities, particularly strenuous physical exertion, during periods when particulate levels are elevated. This recommendation is particularly important for residents with known cardiovascular or respiratory conditions.

APPENDIX A

Risk Calculation Summaries

Appendix A
Risk Calculation Summaries for Each Location

Table Number	Table Contents
A - 1	Risk Report for Background Location
A - 2	Risk Report for Location 2
A - 3	Risk Report for Location 3
A - 4	Risk Report for Location 4
A - 5	Risk Report for Location 5
A - 6	Risk Report for Location 6
A - 7	Risk Report for Location 7
A - 8	Risk Report for Location 8
A - 9	Risk Report for Location 9

*The 30-year adult and child integrated risks are presented on the adult work sheets.

The work sheet calculations are organized as presented in below for each Location. Industrial was only evaluated for Location 5.

Receptor	Scenario	Exposure Duration	Case
Child	Residential	3-year	Average
		3-year	RME
		6-year	Average
		6-year	RME
Adult	Residential	3-year	Average
		3-year	RME
Adult & child (integrated)		30-year	Average
		30-year	RME
Adult		6-year	Average
		6-year	RME
Adult	Industrial	3-year	Average
		3-year	RME
		30-year	Average
		30-year	RME
		6-year	Average
		6-year	RME

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

lyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3		
Route of Exposure: Inhalation of Outdoor Air	**Media:** OUTDOOR AIR **Receptor:** AVERAGE	
Arsenic		3.36 E-06
Beryllium		3.77 E-07
Cadmium		8.47 E-07
Particulate Matter (PM10)		
Acetaldehyde	8.77	
Formaldehyde	0.21	
Dichloroethane, 1,2-		1.82 E-07
Dichloropropane, 1,2-		5.93 E-06
Dichlorobenzene, 1,4-		1.16 E-06
Benzene	0.27	
Carbon Tetrachloride	<0.01	
Chloroform		4.26 E-06
Chloromethane		1.07 E-06
Vinyl Chloride		7.12 E-07
Total Dioxin/Furans (2,3,7,8-T		3.86 E-07
		6.11 E-07
Total Risk:	**9.26**	2.48 E-05
		4.37 E-05

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		8.81 E-06
Beryllium		1.46 E-06
Cadmium		2.84 E-06
Particulate Matter (PM10)	15.53	
Acetaldehyde	0.39	
Formaldehyde		3.29 E-07
Dichloroethane, 1,2-		1.14 E-05
Dichloropropane, 1,2-		1.97 E-06
Dichlorobenzene, 1,4-	0.32	
Benzene	0.02	
Carbon Tetrachloride		8.40 E-06
Chloroform		1.33 E-06
Chloromethane		1.59 E-06
Vinyl Chloride		5.18 E-07
Total Dioxin/Furans (2,3,7,8-T		1.48 E-06
		1.77 E-04
Total Risk:	**16.25**	**2.17 E-04**

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** AVERAGE		
Arsenic		6.73 E-06
Beryllium		7.55 E-07
Cadmium		1.69 E-06
Particulate Matter (PM10)	8.77	
Acetaldehyde	0.21	
Formaldehyde		3.65 E-07
Dichloroethane, 1,2-		1.19 E-05
Dichloropropane, 1,2-		2.32 E-06
Dichlorobenzene, 1,4-	0.27	
Benzene	<0.01	
Carbon Tetrachloride		8.51 E-06
Chloroform		2.14 E-06
Chloromethane		1.42 E-06
Vinyl Chloride		7.73 E-07
Total Dioxin/Furans (2,3,7,8-T		1.22 E-06
		4.96 E-05
Total Risk:	9.26	8.74 E-05

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Chemical	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		1.76 E-05
Beryllium		2.93 E-06
Cadmium		5.68 E-06
Particulate Matter (PM10)	15.53	
Acetaldehyde	0.39	
Formaldehyde		6.58 E-07
Dichloroethane, 1,2-		2.27 E-05
Dichloropropane, 1,2-		3.95 E-06
Dichlorobenzene, 1,4-	0.32	
Benzene	0.02	
Carbon Tetrachloride		1.68 E-05
Chloroform		2.66 E-06
Chloromethane		3.18 E-06
Vinyl Chloride		1.04 E-06
Total Dioxin/Furans (2,3,7,8-T		2.96 E-06
		3.53 E-04
Total Risk:	16.25	4.33 E-04

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.20 E-06
Beryllium		1.35 E-07
Cadmium		3.02 E-07
Particulate Matter (PM10)	3.13	
Acetaldehyde	0.08	
Formaldehyde		6.51 E-08
Dichloroethane, 1,2-		2.12 E-06
Dichloropropane, 1,2-		4.15 E-07
Dichlorobenzene, 1,4-	0.10	
Benzene	<0.01	
Carbon Tetrachloride		1.52 E-06
Chloroform		3.82 E-07
Chloromethane		2.54 E-07
Vinyl Chloride		1.38 E-07
Total Dioxin/Furans (2,3,7,8-T		2.18 E-07
		8.86 E-06
Total Risk:	**3.31**	**1.56 E-05**

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: RME**		
Arsenic		3.15 E-06
Beryllium		5.23 E-07
Cadmium		1.01 E-06
Particulate Matter (PM10)	5.54	
Acetaldehyde	0.14	1.18 E-07
Formaldehyde		4.06 E-06
Dichloroethane, 1,2-		7.05 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.00 E-06
Carbon Tetrachloride		4.75 E-07
Chloroform		5.67 E-07
Chloromethane		1.85 E-07
Vinyl Chloride		5.28 E-07
Total Dioxin/Furans (2,3,7,8-T		6.31 E-05
Total Risk:	**5.80**	**7.74 E-05**

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.63 E-05
Beryllium		1.83 E-06
Cadmium		4.11 E-06
Particulate Matter (PM10)	4.26	
Acetaldehyde	0.10	
Formaldehyde		8.85 E-07
Dichloroethane, 1,2-		2.88 E-05
Dichloropropane, 1,2-		5.64 E-06
Dichlorobenzene, 1,4-	0.13	
Benzene	<0.01	
Carbon Tetrachloride		2.07 E-05
Chloroform		5.20 E-06
Chloromethane		3.46 E-06
Vinyl Chloride		1.88 E-06
Total Dioxin/Furans (2,3,7,8-T		2.97 E-06
		1.21 E-04
Total Risk:	**4.50**	**2.12 E-04**

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		4.28 E-05
Beryllium		7.11 E-06
Cadmium		1.38 E-05
Particulate Matter (PM10)	7.54	
Acetaldehyde	0.19	1.60 E-06
Formaldehyde		5.52 E-05
Dichloroethane, 1,2-		9.59 E-06
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		4.08 E-05
Carbon Tetrachloride		6.46 E-06
Chloroform		7.71 E-06
Chloromethane		2.52 E-06
Vinyl Chloride		7.19 E-06
Total Dioxin/Furans (2,3,7,8-T		8.58 E-04
Total Risk:	7.89	1.05 E-03

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		2.40 E-06
Beryllium		2.70 E-07
Cadmium		6.05 E-07
Particulate Matter (PM10)	3.13	
Acetaldehyde	0.08	
Formaldehyde		1.30 E-07
Dichloroethane, 1,2-		4.24 E-06
Dichloropropane, 1,2-		8.30 E-07
Dichlorobenzene, 1,4-	0.10	
Benzene	<0.01	
Carbon Tetrachloride		3.04 E-06
Chloroform		7.65 E-07
Chloromethane		5.09 E-07
Vinyl Chloride		2.76 E-07
Total Dioxin/Furans (2,3,7,8-T		4.37 E-07
		1.77 E-05
Total Risk:	**3.31**	**3.12 E-05**

Table A-1 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6 **Media:** OUTDOOR AIR **Route of Exposure:** Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		6.29 E-06
Beryllium		1.05 E-06
Cadmium		2.03 E-06
Particulate Matter (PM10)	5.54	
Acetaldehyde	0.14	2.35 E-07
Formaldehyde		8.12 E-06
Dichloroethane, 1,2-		1.41 E-06
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		6.00 E-06
Carbon Tetrachloride		9.49 E-07
Chloroform		1.13 E-06
Chloromethane		3.70 E-07
Vinyl Chloride		1.06 E-06
Total Dioxin/Furans (2,3,7,8-T		1.26 E-04
Total Risk:	**5.80**	**1.55 E-04**

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Pollutant	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		3.99 E-06
Beryllium		1.83 E-07
Cadmium		5.26 E-07
Particulate Matter (PM10)	5.45	
Dichloroethane, 1,2-		4.49 E-07
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.99 E-06
Carbon Tetrachloride		6.21 E-07
Chloroform		4.88 E-07
Chloromethane		3.59 E-07
Total Dioxin/Furans (2,3,7,8-T		1.69 E-05
Total Risk:	5.46	2.66 E-05

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		9.15 E-06
Beryllium		5.52 E-07
Cadmium		1.10 E-06
Particulate Matter (PM10)	8.27	
Dichloroethane, 1,2-		4.49 E-07
Dichlorobenzene, 1,4-	0.01	
Benzene		4.01 E-06
Carbon Tetrachloride		6.21 E-07
Chloroform		7.94 E-07
Chloromethane		4.76 E-07
Total Dioxin/Furans (2,3,7,8-T		5.27 E-05
Total Risk:	8.29	6.99 E-05

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

...te	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		7.98 E-06
Beryllium		3.66 E-07
Cadmium		1.05 E-06
Particulate Matter (PM10)	5.45	
Dichloroethane, 1,2-		8.98 E-07
Dichlorobenzene, 1,4-	<0.01	
Benzene		5.99 E-06
Carbon Tetrachloride		1.24 E-06
Chloroform		9.76 E-07
Chloromethane		7.18 E-07
Total Dioxin/Furans (2,3,7,8-T		3.39 E-05
Total Risk:	5.46	5.31 E-05

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		1.83 E-05
Beryllium		1.10 E-06
Cadmium		2.20 E-06
Particulate Matter (PM10)	8.27	
Dichloroethane, 1,2-		8.98 E-07
Dichlorobenzene, 1,4-	0.01	
Benzene		8.02 E-06
Carbon Tetrachloride		1.24 E-06
Chloroform		1.59 E-06
Chloromethane		9.53 E-07
Total Dioxin/Furans (2,3,7,8-T		1.05 E-04
Total Risk:	8.29	1.40 E-04

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.42 E-06
Beryllium		6.53 E-08
Cadmium		1.88 E-07
Particulate Matter (PM10)	1.95	
Dichloroethane, 1,2-		1.60 E-07
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.07 E-06
Carbon Tetrachloride		2.22 E-07
Chloroform		1.74 E-07
Chloromethane		1.28 E-07
Total Dioxin/Furans (2,3,7,8-T		6.05 E-06
Total Risk:	**1.95**	**9.48 E-06**

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		3.27 E-06
Beryllium		1.97 E-07
Cadmium		3.92 E-07
Particulate Matter (PM10)	2.96	
Dichloroethane, 1,2-		1.60 E-07
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.43 E-06
Carbon Tetrachloride		2.22 E-07
Chloroform		2.84 E-07
Chloromethane		1.70 E-07
Total Dioxin/Furans (2,3,7,8-T		1.88 E-05
Total Risk:	**2.96**	**2.50 E-05**

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.94 E-05
Beryllium		8.89 E-07
Cadmium		2.55 E-06
Particulate Matter (PM10)	2.65	
Dichloroethane, 1,2-		2.18 E-06
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.45 E-05
Carbon Tetrachloride		3.02 E-06
Chloroform		2.37 E-06
Chloromethane		1.74 E-06
Total Dioxin/Furans (2,3,7,8-T		8.23 E-05
Total Risk:	2.65	1.29 E-04

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		4.45 E-05
Beryllium		2.68 E-06
Cadmium		5.33 E-06
Particulate Matter (PM10)	4.02	
Dichloroethane, 1,2-		2.18 E-06
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.95 E-05
Carbon Tetrachloride		3.02 E-06
Chloroform		3.86 E-06
Chloromethane		2.31 E-06
Total Dioxin/Furans (2,3,7,8-T		2.56 E-04
Total Risk:	**4.03**	**3.39 E-04**

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: AVERAGE**		
Arsenic		2.85 E-06
Beryllium		1.31 E-07
Cadmium		3.75 E-07
Particulate Matter (PM10)	1.95	
Dichloroethane, 1,2-		3.21 E-07
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.14 E-06
Carbon Tetrachloride		4.44 E-07
Chloroform		3.49 E-07
Chloromethane		2.56 E-07
Total Dioxin/Furans (2,3,7,8-T		1.21 E-05
Total Risk:	1.95	1.90 E-05

Table A-2 - Location 2
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		6.54 E-06
Beryllium		3.95 E-07
Cadmium		7.84 E-07
Particulate Matter (PM10)	2.96	
Dichloroethane, 1,2-		3.21 E-07
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.87 E-06
Carbon Tetrachloride		4.44 E-07
Chloroform		5.67 E-07
Chloromethane		3.40 E-07
Total Dioxin/Furans (2,3,7,8-T		3.77 E-05
Total Risk:	2.96	4.99 E-05

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3 **Media: OUTDOOR AIR** **Route of Exposure:** Inhalation of Outdoor Air **Receptor: AVERAGE**		
Arsenic		4.41 E-06
Beryllium		2.03 E-07
Cadmium		4.22 E-06
Particulate Matter (PM10)	6.88	
Dichloroethane, 1,2-		1.11 E-06
Dichloropropane, 1,2-	0.38	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.64 E-06
Carbon Tetrachloride		1.04 E-06
Chloroform		6.19 E-07
Chloromethane		3.68 E-07
Vinyl Chloride		5.58 E-07
Total Dioxin/Furans (2,3,7,8-T		2.44 E-05
Total Risk:	7.26	4.06 E-05

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.77 E-05
Beryllium		4.42 E-07
Cadmium		2.47 E-05
Particulate Matter (PM10)	8.87	
Dichloroethane, 1,2-		1.11 E-06
Dichloropropane, 1,2-	1.21	
Dichlorobenzene, 1,4-	0.01	
Benzene		4.78 E-06
Carbon Tetrachloride		1.10 E-06
Chloroform		9.00 E-07
Chloromethane		4.76 E-07
Vinyl Chloride		1.18 E-06
Total Dioxin/Furans (2,3,7,8-T		9.16 E-05
Total Risk:	10.10	1.44 E-04

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

e	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
rsenic		8.82 E-06
eryllium		4.06 E-07
admium		8.43 E-06
articulate Matter (PM10)	6.88	
ichloroethane, 1,2-		2.21 E-06
ichloropropane, 1,2-	0.38	
ichlorobenzene, 1,4-	<0.01	
enzene		7.28 E-06
arbon Tetrachloride		2.09 E-06
hloroform		1.24 E-06
hloromethane		7.35 E-07
inyl Chloride		1.12 E-06
otal Dioxin/Furans (2,3,7,8-T		4.89 E-05
Total Risk:	7.26	8.12 E-05

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		3.54 E-05
Beryllium		8.84 E-07
Cadmium		4.95 E-05
Particulate Matter (PM10)	8.87	
Dichloroethane, 1,2-		2.21 E-06
Dichloropropane, 1,2-	1.21	
Dichlorobenzene, 1,4-	0.01	
Benzene		9.55 E-06
Carbon Tetrachloride		2.21 E-06
Chloroform		1.80 E-06
Chloromethane		9.53 E-07
Vinyl Chloride		2.37 E-06
Total Dioxin/Furans (2,3,7,8-T		1.83 E-04
Total Risk:	10.10	2.88 E-04

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.58 E-06
Beryllium		7.26 E-08
Cadmium		1.51 E-06
Particulate Matter (PM10)	2.46	
Dichloroethane, 1,2-		3.95 E-07
Dichloropropane, 1,2-	0.14	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.30 E-06
Carbon Tetrachloride		3.73 E-07
Chloroform		2.21 E-07
Chloromethane		1.31 E-07
Vinyl Chloride		1.99 E-07
Total Dioxin/Furans (2,3,7,8-T		8.73 E-06
Total Risk:	2.59	1.45 E-05

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: RME**		
Arsenic		6.33 E-06
Beryllium		1.58 E-07
Cadmium		8.83 E-06
Particulate Matter (PM10)	3.17	
Dichloroethane, 1,2-		3.95 E-07
Dichloropropane, 1,2-	0.43	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.71 E-06
Carbon Tetrachloride		3.95 E-07
Chloroform		3.21 E-07
Chloromethane		1.70 E-07
Vinyl Chloride		4.23 E-07
Total Dioxin/Furans (2,3,7,8-T		3.27 E-05
Total Risk:	3.61	5.14 E-05

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30 **Media:** OUTDOOR AIR **Route of Exposure:** Inhalation of Outdoor Air **Receptor:** AVERAGE		
Arsenic		2.14 E-05
Beryllium		9.87 E-07
Cadmium		2.05 E-05
Particulate Matter (PM10)	3.34	
Dichloroethane, 1,2-		5.38 E-06
Dichloropropane, 1,2-	0.18	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.77 E-05
Carbon Tetrachloride		5.07 E-06
Chloroform		3.00 E-06
Chloromethane		1.79 E-06
Vinyl Chloride		2.71 E-06
Total Dioxin/Furans (2,3,7,8-T		1.19 E-04
Total Risk:	3.53	1.97 E-04

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		8.60 E-05
Beryllium		2.15 E-06
Cadmium		1.20 E-04
Particulate Matter (PM10)	4.31	
Dichloroethane, 1,2-		5.38 E-06
Dichloropropane, 1,2-	0.59	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.32 E-05
Carbon Tetrachloride		5.37 E-06
Chloroform		4.37 E-06
Chloromethane		2.31 E-06
Vinyl Chloride		5.75 E-06
Total Dioxin/Furans (2,3,7,8-T		4.45 E-04
Total Risk:	4.90	7.00 E-04

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		3.15 E-06
Beryllium		1.45 E-07
Cadmium		3.01 E-06
Particulate Matter (PM10)	2.46	
Dichloroethane, 1,2-		7.91 E-07
Dichloropropane, 1,2-	0.14	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.60 E-06
Carbon Tetrachloride		7.46 E-07
Chloroform		4.42 E-07
Chloromethane		2.63 E-07
Vinyl Chloride		3.98 E-07
Total Dioxin/Furans (2,3,7,8-T		1.75 E-05
Total Risk:	2.59	2.90 E-05

Table A-3 - Location 3
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		1.27 E-05
Beryllium		3.16 E-07
Cadmium		1.77 E-05
Particulate Matter (PM10)	3.17	
Dichloroethane, 1,2-		7.91 E-07
Dichloropropane, 1,2-	0.43	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.41 E-06
Carbon Tetrachloride		7.89 E-07
Chloroform		6.43 E-07
Chloromethane		3.40 E-07
Vinyl Chloride		8.45 E-07
Total Dioxin/Furans (2,3,7,8-T		6.54 E-05
Total Risk:	3.61	1.03 E-04

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3 / **Route of Exposure:** Inhalation of Outdoor Air	**Media:** OUTDOOR AIR / **Receptor:** AVERAGE	
Arsenic		5.19 E-06
Beryllium		4.57 E-07
Cadmium		5.80 E-06
Particulate Matter (PM10)	13.10	
Dichloroethane, 1,2-		1.13 E-06
Dichloropropane, 1,2-	1.52	
Dichlorobenzene, 1,4-	<0.01	
Benzene		4.58 E-06
Carbon Tetrachloride		1.13 E-06
Chloroform		1.15 E-06
Chloromethane		4.32 E-07
Vinyl Chloride		6.97 E-07
Total Dioxin/Furans (2,3,7,8-T		6.41 E-05
Total Risk:	14.63	8.47 E-05

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		8.66 E-06
Beryllium		1.74 E-06
Cadmium		1.82 E-05
Particulate Matter (PM10)	31.27	
Dichloroethane, 1,2-		1.17 E-06
Dichloropropane, 1,2-	10.07	
Dichlorobenzene, 1,4-	0.01	
Benzene		5.92 E-06
Carbon Tetrachloride		1.73 E-06
Chloroform		1.85 E-06
Chloromethane		8.28 E-07
Vinyl Chloride		1.68 E-06
Total Dioxin/Furans (2,3,7,8-T		1.31 E-04
Total Risk:	**41.35**	**1.73 E-04**

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		1.04 E-05
Beryllium		9.15 E-07
Cadmium		1.16 E-05
Particulate Matter (PM10)	13.10	
Dichloroethane, 1,2-		2.26 E-06
Dichloropropane, 1,2-	1.52	
Dichlorobenzene, 1,4-	<0.01	
Benzene		9.17 E-06
Carbon Tetrachloride		2.26 E-06
Chloroform		2.30 E-06
Chloromethane		8.65 E-07
Vinyl Chloride		1.39 E-06
Total Dioxin/Furans (2,3,7,8-T		1.28 E-04
Total Risk:	14.63	1.69 E-04

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		1.73 E-05
Beryllium		3.48 E-06
Cadmium		3.63 E-05
Particulate Matter (PM10)	31.27	
Dichloroethane, 1,2-		2.33 E-06
Dichloropropane, 1,2-	10.07	
Dichlorobenzene, 1,4-	0.01	
Benzene		1.18 E-05
Carbon Tetrachloride		3.45 E-06
Chloroform		3.71 E-06
Chloromethane		1.66 E-06
Vinyl Chloride		3.35 E-06
Total Dioxin/Furans (2,3,7,8-T		2.62 E-04
Total Risk:	**41.35**	**3.46 E-04**

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		1.85 E-06
Beryllium		1.63 E-07
Cadmium		2.07 E-06
Particulate Matter (PM10)	4.68	
Dichloroethane, 1,2-		4.03 E-07
Dichloropropane, 1,2-	0.54	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.64 E-06
Carbon Tetrachloride		4.03 E-07
Chloroform		4.11 E-07
Chloromethane		1.54 E-07
Vinyl Chloride		2.49 E-07
Total Dioxin/Furans (2,3,7,8-T		2.29 E-05
Total Risk:	5.22	3.02 E-05

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		3.09 E-06
Beryllium		6.21 E-07
Cadmium		6.49 E-06
Particulate Matter (PM10)	11.17	
Dichloroethane, 1,2-		4.17 E-07
Dichloropropane, 1,2-	3.60	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.11 E-06
Carbon Tetrachloride		6.16 E-07
Chloroform		6.62 E-07
Chloromethane		2.96 E-07
Vinyl Chloride		5.99 E-07
Total Dioxin/Furans (2,3,7,8-T		4.68 E-05
Total Risk:	**14.77**	**6.17 E-05**

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6 **Media: OUTDOOR AIR**		
Route of Exposure: Inhalation of Outdoor Air **Receptor: AVERAGE**		
Arsenic		3.71 E-06
Beryllium		3.27 E-07
Cadmium		4.14 E-06
Particulate Matter (PM10)	4.68	
Dichloroethane, 1,2-		8.05 E-07
Dichloropropane, 1,2-	0.54	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.27 E-06
Carbon Tetrachloride		8.06 E-07
Chloroform		8.22 E-07
Chloromethane		3.09 E-07
Vinyl Chloride		4.98 E-07
Total Dioxin/Furans (2,3,7,8-T		4.58 E-05
Total Risk:	5.22	6.05 E-05

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: RME**		
Arsenic		6.18 E-06
Beryllium		1.24 E-06
Cadmium		1.30 E-05
Particulate Matter (PM10)	11.17	
Dichloroethane, 1,2-		8.33 E-07
Dichloropropane, 1,2-	3.60	
Dichlorobenzene, 1,4-	<0.01	
Benzene		4.23 E-06
Carbon Tetrachloride		1.23 E-06
Chloroform		1.32 E-06
Chloromethane		5.92 E-07
Vinyl Chloride		1.20 E-06
Total Dioxin/Furans (2,3,7,8-T		9.36 E-05
Total Risk:	14.77	1.23 E-04

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: AVERAGE**		
Arsenic		2.52 E-05
Beryllium		2.22 E-06
Cadmium		2.82 E-05
Particulate Matter (PM10)	6.36	
Dichloroethane, 1,2-		5.48 E-06
Dichloropropane, 1,2-	0.74	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.23 E-05
Carbon Tetrachloride		5.48 E-06
Chloroform		5.59 E-06
Chloromethane		2.10 E-06
Vinyl Chloride		3.38 E-06
Total Dioxin/Furans (2,3,7,8-T		3.11 E-04
Total Risk:	7.10	4.11 E-04

Table A-4 - Location 4
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		4.21 E-05
Beryllium		8.45 E-06
Cadmium		8.82 E-05
Particulate Matter (PM10)	15.19	
Dichloroethane, 1,2-		5.67 E-06
Dichloropropane, 1,2-	4.89	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.88 E-05
Carbon Tetrachloride		8.38 E-06
Chloroform		9.00 E-06
Chloromethane		4.02 E-06
Vinyl Chloride		8.14 E-06
Total Dioxin/Furans (2,3,7,8-T		6.37 E-04
Total Risk:	20.08	8.39 E-04

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

lyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		4.87 E-06
Beryllium		1.89 E-07
Cadmium		1.12 E-05
Particulate Matter (PM10)	7.85	
Acetaldehyde	0.22	
Formaldehyde		1.90 E-07
Dichloroethane, 1,2-		8.00 E-06
Dichloropropane, 1,2-		1.35 E-06
Dichlorobenzene, 1,4-	0.43	
Benzene	<0.01	
Carbon Tetrachloride		5.35 E-06
Chloroform		1.16 E-06
Chloromethane		1.43 E-06
Vinyl Chloride		4.97 E-07
Total Dioxin/Furans (2,3,7,8-T		8.71 E-07
		4.11 E-05
Total Risk:	8.51	7.62 E-05

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

lyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3 **Media:** OUTDOOR AIR **Route of Exposure:** Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		1.93 E-05
Beryllium		7.18 E-07
Cadmium		7.15 E-05
Particulate Matter (PM10)	18.13	
Acetaldehyde	0.52	
Formaldehyde		4.39 E-07
Dichloroethane, 1,2-		1.36 E-05
Dichloropropane, 1,2-		2.84 E-06
Dichlorobenzene, 1,4-	2.42	
Benzene	0.01	
Carbon Tetrachloride		8.02 E-06
Chloroform		1.66 E-06
Chloromethane		5.82 E-06
Vinyl Chloride		1.04 E-06
Total Dioxin/Furans (2,3,7,8-T		3.35 E-06
		1.56 E-04
Total Risk:	21.08	2.84 E-04

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		9.73 E-06
Beryllium		3.78 E-07
Cadmium		2.24 E-05
Particulate Matter (PM10)	7.85	
Acetaldehyde	0.22	
Formaldehyde		3.80 E-07
Dichloroethane, 1,2-		1.60 E-05
Dichloropropane, 1,2-		2.70 E-06
Dichlorobenzene, 1,4-	0.43	
Benzene	<0.01	
Carbon Tetrachloride		1.07 E-05
Chloroform		2.33 E-06
Chloromethane		2.85 E-06
Vinyl Chloride		9.94 E-07
Total Dioxin/Furans (2,3,7,8-T		1.74 E-06
		8.22 E-05
Total Risk:	**8.51**	**1.52 E-04**

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: RME**		
Arsenic		3.86 E-05
Beryllium		1.44 E-06
Cadmium		1.43 E-04
Particulate Matter (PM10)	18.13	
Acetaldehyde	0.52	
Formaldehyde		8.78 E-07
Dichloroethane, 1,2-		2.72 E-05
Dichloropropane, 1,2-		5.68 E-06
Dichlorobenzene, 1,4-	2.42	
Benzene	0.01	
Carbon Tetrachloride		1.60 E-05
Chloroform		3.31 E-06
Chloromethane		1.16 E-05
Vinyl Chloride		2.07 E-06
Total Dioxin/Furans (2,3,7,8-T		6.71 E-06
		3.12 E-04
Total Risk:	21.08	5.68 E-04

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3 **Media: OUTDOOR AIR**		
Route of Exposure: Inhalation of Outdoor Air **Receptor: AVERAGE**		
Arsenic		1.74 E-06
Beryllium		6.76 E-08
Cadmium		3.99 E-06
Particulate Matter (PM10)	2.80	
Acetaldehyde	0.08	6.79 E-08
Formaldehyde		2.86 E-06
Dichloroethane, 1,2-		4.82 E-07
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.91 E-06
Carbon Tetrachloride		4.16 E-07
Chloroform		5.10 E-07
Chloromethane		1.78 E-07
Vinyl Chloride		3.11 E-07
Total Dioxin/Furans (2,3,7,8-T		1.47 E-05
Total Risk:	**3.04**	**2.72 E-05**

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		6.89 E-06
Beryllium		2.56 E-07
Cadmium		2.55 E-05
Particulate Matter (PM10)	6.47	
Acetaldehyde	0.18	1.57 E-07
Formaldehyde		4.85 E-06
Dichloroethane, 1,2-		1.02 E-06
Dichloropropane, 1,2-	0.86	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.87 E-06
Carbon Tetrachloride		5.92 E-07
Chloroform		2.08 E-06
Chloromethane		3.70 E-07
Vinyl Chloride		1.20 E-06
Total Dioxin/Furans (2,3,7,8-T		5.56 E-05
Total Risk:	**7.53**	**1.01 E-04**

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		2.36 E-05
Beryllium		9.19 E-07
Cadmium		5.43 E-05
Particulate Matter (PM10)	3.81	
Acetaldehyde	0.11	
Formaldehyde		9.23 E-07
Dichloroethane, 1,2-		3.89 E-05
Dichloropropane, 1,2-		6.55 E-06
Dichlorobenzene, 1,4-	0.21	
Benzene	<0.01	
Carbon Tetrachloride		2.60 E-05
Chloroform		5.66 E-06
Chloromethane		6.93 E-06
Vinyl Chloride		2.41 E-06
Total Dioxin/Furans (2,3,7,8-T		4.23 E-06
		2.00 E-04
Total Risk:	**4.13**	**3.70 E-04**

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
oute of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
rsenic		9.37 E-05
eryllium		3.49 E-06
admium		3.47 E-04
articulate Matter (PM10)	8.81	
cetaldehyde	0.25	2.13 E-06
ormaldehyde		6.60 E-05
ichloroethane, 1,2-		1.38 E-05
ichloropropane, 1,2-	1.17	
ichlorobenzene, 1,4-	<0.01	
enzene		3.90 E-05
arbon Tetrachloride		8.05 E-06
hloroform		2.83 E-05
hloromethane		5.03 E-06
inyl Chloride		1.63 E-05
otal Dioxin/Furans (2,3,7,8-T		7.57 E-04
Total Risk:	10.24	1.38 E-03

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
oute of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
senic		3.48 E-06
eryllium		1.35 E-07
dmium		7.99 E-06
rticulate Matter (PM10)	2.80	
etaldehyde	0.08	1.36 E-07
rmaldehyde		5.72 E-06
chloroethane, 1,2-		9.63 E-07
chloropropane, 1,2-	0.15	
chlorobenzene, 1,4-	<0.01	
nzene		3.82 E-06
rbon Tetrachloride		8.32 E-07
loroform		1.02 E-06
loromethane		3.55 E-07
yl Chloride		6.22 E-07
tal Dioxin/Furans (2,3,7,8-T		2.94 E-05
Total Risk:	3.04	5.44 E-05

Table A-5 - Location 5
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.38 E-05
Beryllium		5.13 E-07
Cadmium		5.11 E-05
Particulate Matter (PM10)	6.47	
Acetaldehyde	0.18	3.14 E-07
Formaldehyde		9.70 E-06
Dichloroethane, 1,2-		2.03 E-06
Dichloropropane, 1,2-	0.86	
Dichlorobenzene, 1,4-	<0.01	
Benzene		5.73 E-06
Carbon Tetrachloride		1.18 E-06
Chloroform		4.16 E-06
Chloromethane		7.40 E-07
Vinyl Chloride		2.40 E-06
Total Dioxin/Furans (2,3,7,8-T		1.11 E-04
Total Risk:	7.53	2.03 E-04

Table A-5 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: INDUST - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		1.24 E-06
Beryllium		4.83 E-08
Cadmium		2.85 E-06
Particulate Matter (PM10)	2.00	
Acetaldehyde	0.06	4.85 E-08
Formaldehyde		2.04 E-06
Dichloroethane, 1,2-		3.44 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.36 E-06
Carbon Tetrachloride		2.97 E-07
Chloroform		3.64 E-07
Chloromethane		1.27 E-07
Vinyl Chloride		2.22 E-07
Total Dioxin/Furans (2,3,7,8-T		1.05 E-05
Total Risk:	**2.17**	**1.94 E-05**

Table A-5 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: INDUST - 3 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		4.92 E-06
Beryllium		1.83 E-07
Cadmium		1.82 E-05
Particulate Matter (PM10)	4.62	
Acetaldehyde	0.13	1.12 E-07
Formaldehyde		3.47 E-06
Dichloroethane, 1,2-		7.25 E-07
Dichloropropane, 1,2-	0.62	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.05 E-06
Carbon Tetrachloride		4.23 E-07
Chloroform		1.49 E-06
Chloromethane		2.64 E-07
Vinyl Chloride		8.55 E-07
Total Dioxin/Furans (2,3,7,8-T		3.97 E-05
Total Risk:	**5.38**	**7.25 E-05**

Table A-5 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: INDUST - 30	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		1.24 E-05
Beryllium		4.83 E-07
Cadmium		2.85 E-05
Particulate Matter (PM10)	2.00	
Acetaldehyde	0.06	4.85 E-07
Formaldehyde		2.04 E-05
Dichloroethane, 1,2-		3.44 E-06
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.36 E-05
Carbon Tetrachloride		2.97 E-06
Chloroform		3.64 E-06
Chloromethane		1.27 E-06
Vinyl Chloride		2.22 E-06
Total Dioxin/Furans (2,3,7,8-T		1.05 E-04
Total Risk:	2.17	1.94 E-04

Table A-5 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: INDUST - 30	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		4.92 E-05
Beryllium		1.83 E-06
Cadmium		1.82 E-04
Particulate Matter (PM10)	4.62	
Acetaldehyde	0.13	
Formaldehyde		1.12 E-06
Dichloroethane, 1,2-		3.47 E-05
Dichloropropane, 1,2-		7.25 E-06
Dichlorobenzene, 1,4-	0.62	
Benzene	<0.01	
Carbon Tetrachloride		2.05 E-05
Chloroform		4.23 E-06
Chloromethane		1.49 E-05
Vinyl Chloride		2.64 E-06
Total Dioxin/Furans (2,3,7,8-T		8.55 E-06
		3.97 E-04
Total Risk:	**5.38**	**7.25 E-04**

Table A-5 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: INDUST - 6 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** AVERAGE		
Arsenic		2.48 E-06
Beryllium		9.65 E-08
Cadmium		5.71 E-06
Particulate Matter (PM10)	2.00	
Acetaldehyde	0.06	9.70 E-08
Formaldehyde		4.08 E-06
Dichloroethane, 1,2-		6.88 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.73 E-06
Carbon Tetrachloride		5.94 E-07
Chloroform		7.28 E-07
Chloromethane		2.54 E-07
Vinyl Chloride		4.44 E-07
Total Dioxin/Furans (2,3,7,8-T		2.10 E-05
Total Risk:	2.17	3.89 E-05

Table A-5 - Background
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: INDUST - 6 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** RME		
Arsenic		9.85 E-06
Beryllium		3.66 E-07
Cadmium		3.65 E-05
Particulate Matter (PM10)	4.62	
Acetaldehyde	0.13	2.24 E-07
Formaldehyde		6.93 E-06
Dichloroethane, 1,2-		1.45 E-06
Dichloropropane, 1,2-	0.62	
Dichlorobenzene, 1,4-	<0.01	
Benzene		4.09 E-06
Carbon Tetrachloride		8.45 E-07
Chloroform		2.97 E-06
Chloromethane		5.28 E-07
Vinyl Chloride		1.71 E-06
Total Dioxin/Furans (2,3,7,8-T		7.95 E-05
Total Risk:	**5.38**	**1.45 E-04**

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		2.99 E-06
Cadmium		5.49 E-07
Particulate Matter (PM10)	6.06	
Dichloroethane, 1,2-		1.38 E-06
Dichloropropane, 1,2-	0.41	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.57 E-06
Carbon Tetrachloride		1.06 E-06
Chloroform		1.68 E-06
Chloromethane		4.89 E-07
Vinyl Chloride		1.02 E-06
Total Dioxin/Furans (2,3,7,8-T		2.84 E-05
Total Risk:	6.49	4.12 E-05

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

lyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		6.48 E-06
Cadmium		1.08 E-06
Particulate Matter (PM10)	8.92	
Dichloroethane, 1,2-		2.99 E-06
Dichloropropane, 1,2-	1.21	
Dichlorobenzene, 1,4-	0.01	
Benzene		5.73 E-06
Carbon Tetrachloride		1.24 E-06
Chloroform		9.00 E-06
Chloromethane		1.45 E-06
Vinyl Chloride		4.04 E-06
Total Dioxin/Furans (2,3,7,8-T		9.66 E-05
Total Risk:	10.14	1.29 E-04

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]te	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		5.97 E-06
Cadmium		1.10 E-06
Particulate Matter (PM10)	6.06	
Dichloroethane, 1,2-		2.75 E-06
Dichloropropane, 1,2-	0.41	
Dichlorobenzene, 1,4-	<0.01	
Benzene		7.14 E-06
Carbon Tetrachloride		2.12 E-06
Chloroform		3.36 E-06
Chloromethane		9.79 E-07
Vinyl Chloride		2.03 E-06
Total Dioxin/Furans (2,3,7,8-T		5.69 E-05
Total Risk:	6.49	8.23 E-05

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.30 E-05
Cadmium		2.15 E-06
Particulate Matter (PM10)	8.92	
Dichloroethane, 1,2-		5.98 E-06
Dichloropropane, 1,2-	1.21	
Dichlorobenzene, 1,4-	0.01	
Benzene		1.15 E-05
Carbon Tetrachloride		2.49 E-06
Chloroform		1.80 E-05
Chloromethane		2.90 E-06
Vinyl Chloride		8.09 E-06
Total Dioxin/Furans (2,3,7,8-T		1.93 E-04
Total Risk:	10.14	2.57 E-04

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		1.07 E-06
Cadmium		1.96 E-07
Particulate Matter (PM10)	2.17	
Dichloroethane, 1,2-		4.91 E-07
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.27 E-06
Carbon Tetrachloride		3.79 E-07
Chloroform		6.00 E-07
Chloromethane		1.75 E-07
Vinyl Chloride		3.63 E-07
Total Dioxin/Furans (2,3,7,8-T		1.02 E-05
Total Risk:	2.32	1.47 E-05

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		2.31 E-06
Cadmium		3.85 E-07
Particulate Matter (PM10)	3.19	
Dichloroethane, 1,2-		1.07 E-06
Dichloropropane, 1,2-	0.43	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.05 E-06
Carbon Tetrachloride		4.44 E-07
Chloroform		3.21 E-06
Chloromethane		5.18 E-07
Vinyl Chloride		1.44 E-06
Total Dioxin/Furans (2,3,7,8-T		3.45 E-05
Total Risk:	3.62	**4.59 E-05**

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

[redacted]lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30 **Media:** OUTDOOR AIR		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** AVERAGE		
Arsenic		1.45 E-05
Cadmium		2.67 E-06
Particulate Matter (PM10)	2.95	
Dichloroethane, 1,2-		6.68 E-06
Dichloropropane, 1,2-	0.20	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.73 E-05
Carbon Tetrachloride		5.16 E-06
Chloroform		8.16 E-06
Chloromethane		2.38 E-06
Vinyl Chloride		4.94 E-06
Total Dioxin/Furans (2,3,7,8-T		1.38 E-04
Total Risk:	3.15	2.00 E-04

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		3.15 E-05
Cadmium		5.23 E-06
Particulate Matter (PM10)	4.33	
Dichloroethane, 1,2-		1.45 E-05
Dichloropropane, 1,2-	0.59	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.78 E-05
Carbon Tetrachloride		6.04 E-06
Chloroform		4.37 E-05
Chloromethane		7.04 E-06
Vinyl Chloride		1.96 E-05
Total Dioxin/Furans (2,3,7,8-T		4.69 E-04
Total Risk:	4.93	6.25 E-04

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		2.13 E-06
Cadmium		3.92 E-07
Particulate Matter (PM10)	2.17	
Dichloroethane, 1,2-		9.83 E-07
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.55 E-06
Carbon Tetrachloride		7.58 E-07
Chloroform		1.20 E-06
Chloromethane		3.50 E-07
Vinyl Chloride		7.26 E-07
Total Dioxin/Furans (2,3,7,8-T		2.03 E-05
Total Risk:	2.32	2.94 E-05

Table A-6 - Location 6
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		4.63 E-06
Cadmium		7.69 E-07
Particulate Matter (PM10)	3.19	
Dichloroethane, 1,2-		2.14 E-06
Dichloropropane, 1,2-	0.43	
Dichlorobenzene, 1,4-	<0.01	
Benzene		4.09 E-06
Carbon Tetrachloride		8.88 E-07
Chloroform		6.43 E-06
Chloromethane		1.04 E-06
Vinyl Chloride		2.89 E-06
Total Dioxin/Furans (2,3,7,8-T		6.90 E-05
Total Risk:	3.62	9.19 E-05

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]te	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3 **Media:** OUTDOOR [redacted]		
Route of Exposure: Inhalation of Outdoor Air **Receptor:** AVERAGE		
Arsenic		2.73 E-06
Cadmium		1.33 E-06
Particulate Matter (PM10)	5.54	
Dichloroethane, 1,2-		1.28 E-06
Dichloropropane, 1,2-	0.38	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.53 E-06
Carbon Tetrachloride		1.17 E-06
Chloroform		5.66 E-07
Chloromethane		3.55 E-07
Vinyl Chloride		6.30 E-07
Total Dioxin/Furans (2,3,7,8-T		3.01 E-05
Total Risk:	5.92	4.17 E-05

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

te	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		7.08 E-06
Cadmium		6.01 E-06
Particulate Matter (PM10)	8.84	
Dichloroethane, 1,2-		2.21 E-06
Dichloropropane, 1,2-	0.81	
Dichlorobenzene, 1,4-	0.02	
Benzene		6.78 E-06
Carbon Tetrachloride		2.07 E-06
Chloroform		1.09 E-06
Chloromethane		5.59 E-07
Vinyl Chloride		1.28 E-06
Total Dioxin/Furans (2,3,7,8-T		1.08 E-04
Total Risk:	9.66	1.35 E-04

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]yte	CHILD Hazard Index	CHILD Carcinogenic Risk
[redacted] Scenario: [redacted]	Media: OUTDOOR AIR	
Route of Exposure: [redacted]	Receptor: AVERAGE	
Arsenic		5.46 E-06
Cadmium		2.65 E-06
Particulate Matter (PM10)	5.54	
Dichloroethane, 1,2-		2.56 E-06
Dichloropropane, 1,2-	0.38	
Dichlorobenzene, 1,4-	<0.01	
Benzene		7.07 E-06
Carbon Tetrachloride		2.35 E-06
Chloroform		1.13 E-06
Chloromethane		7.09 E-07
Vinyl Chloride		1.26 E-06
Total Dioxin/Furans (2,3,7,8-T		6.03 E-05
Total Risk:	5.92	8.35 E-05

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]rte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6 [redacted]	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.42 E-05
Cadmium		1.20 E-05
Particulate Matter (PM10)	8.84	
Dichloroethane, 1,2-		4.43 E-06
Dichloropropane, 1,2-	0.81	
Dichlorobenzene, 1,4-	0.02	
Benzene		1.36 E-05
Carbon Tetrachloride		4.14 E-06
Chloroform		2.17 E-06
Chloromethane		1.12 E-06
Vinyl Chloride		2.56 E-06
Total Dioxin/Furans (2,3,7,8-T		2.17 E-04
Total Risk:	9.66	2.71 E-04

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		9.75 E-07
Cadmium		4.73 E-07
Particulate Matter (PM10)	1.98	
Dichloroethane, 1,2-		4.57 E-07
Dichloropropane, 1,2-	0.14	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.26 E-06
Carbon Tetrachloride		4.19 E-07
Chloroform		2.02 E-07
Chloromethane		1.27 E-07
Vinyl Chloride		2.25 E-07
Total Dioxin/Furans (2,3,7,8-T		1.08 E-05
Total Risk:	2.12	1.49 E-05

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3 / **Route of Exposure:** Inhalation of Outdoor Air	**Media:** OUTDOOR AIR / **Receptor:** RME	
Arsenic		2.53 E-06
Cadmium		2.15 E-06
Particulate Matter (PM10)	3.16	
Dichloroethane, 1,2-		7.91 E-07
Dichloropropane, 1,2-	0.29	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.42 E-06
Carbon Tetrachloride		7.40 E-07
Chloroform		3.88 E-07
Chloromethane		2.00 E-07
Vinyl Chloride		4.58 E-07
Total Dioxin/Furans (2,3,7,8-T		3.87 E-05
Total Risk:	3.45	4.83 E-05

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.33 E-05
Cadmium		6.44 E-06
Particulate Matter (PM10)	2.69	
Dichloroethane, 1,2-		6.21 E-06
Dichloropropane, 1,2-	0.18	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.72 E-05
Carbon Tetrachloride		5.70 E-06
Chloroform		2.75 E-06
Chloromethane		1.72 E-06
Vinyl Chloride		3.06 E-06
Total Dioxin/Furans (2,3,7,8-T		1.46 E-04
Total Risk:	2.88	2.03 E-04

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		3.44 E-05
Cadmium		2.92 E-05
Particulate Matter (PM10)	4.29	
Dichloroethane, 1,2-		1.08 E-05
Dichloropropane, 1,2-	0.39	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.29 E-05
Carbon Tetrachloride		1.01 E-05
Chloroform		5.27 E-06
Chloromethane		2.72 E-06
Vinyl Chloride		6.23 E-06
Total Dioxin/Furans (2,3,7,8-T		5.26 E-04
Total Risk:	4.69	6.57 E-04

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

[redacted]te	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		1.95 E-06
Cadmium		9.47 E-07
Particulate Matter (PM10)	1.98	
Dichloroethane, 1,2-		9.14 E-07
Dichloropropane, 1,2-	0.14	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.52 E-06
Carbon Tetrachloride		8.38 E-07
Chloroform		4.04 E-07
Chloromethane		2.53 E-07
Vinyl Chloride		4.50 E-07
Total Dioxin/Furans (2,3,7,8-T		2.15 E-05
Total Risk:	2.12	2.98 E-05

Table A-7 - Location 7
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		5.05 E-06
Cadmium		4.29 E-06
Particulate Matter (PM10)	3.16	
Dichloroethane, 1,2-		1.58 E-06
Dichloropropane, 1,2-	0.29	
Dichlorobenzene, 1,4-	<0.01	
Benzene		4.84 E-06
Carbon Tetrachloride		1.48 E-06
Chloroform		7.75 E-07
Chloromethane		3.99 E-07
Vinyl Chloride		9.16 E-07
Total Dioxin/Furans (2,3,7,8-T		7.73 E-05
Total Risk:	3.45	9.67 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

te	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		2.42 E-06
Cadmium		8.60 E-07
Particulate Matter (PM10)	4.90	
Dichloroethane, 1,2-		1.23 E-06
Dichloropropane, 1,2-	0.31	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.51 E-06
Carbon Tetrachloride		1.17 E-06
Chloroform		1.05 E-06
Chloromethane		4.04 E-07
Vinyl Chloride		5.70 E-07
Total Dioxin/Furans (2,3,7,8-T		2.16 E-05
Total Risk:	5.21	3.28 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]te	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		5.10 E-06
Cadmium		3.19 E-06
Particulate Matter (PM10)	7.05	
Dichloroethane, 1,2-		1.97 E-06
Dichloropropane, 1,2-	0.42	
Dichlorobenzene, 1,4-	0.01	
Benzene		4.39 E-06
Carbon Tetrachloride		2.07 E-06
Chloroform		3.71 E-06
Chloromethane		5.59 E-07
Vinyl Chloride		1.28 E-06
Total Dioxin/Furans (2,3,7,8-T		6.52 E-05
Total Risk:	7.49	8.75 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]e	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		4.83 E-06
Cadmium		1.72 E-06
Particulate Matter (PM10)	4.90	
Dichloroethane, 1,2-		2.46 E-06
Dichloropropane, 1,2-	0.31	
Dichlorobenzene, 1,4-	<0.01	
Benzene		7.02 E-06
Carbon Tetrachloride		2.35 E-06
Chloroform		2.10 E-06
Chloromethane		8.08 E-07
Vinyl Chloride		1.14 E-06
Total Dioxin/Furans (2,3,7,8-T		4.31 E-05
Total Risk:	5.21	6.55 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.02 E-05
Cadmium		6.38 E-06
Particulate Matter (PM10)	7.05	
Dichloroethane, 1,2-		3.95 E-06
Dichloropropane, 1,2-	0.42	
Dichlorobenzene, 1,4-	0.01	
Benzene		8.79 E-06
Carbon Tetrachloride		4.14 E-06
Chloroform		7.41 E-06
Chloromethane		1.12 E-06
Vinyl Chloride		2.56 E-06
Total Dioxin/Furans (2,3,7,8-T		1.30 E-04
Total Risk:	7.49	1.75 E-04

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

[redacted]yte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		8.63 E-07
Cadmium		3.07 E-07
Particulate Matter (PM10)	1.75	
Dichloroethane, 1,2-		4.39 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.25 E-06
Carbon Tetrachloride		4.19 E-07
Chloroform		3.75 E-07
Chloromethane		1.44 E-07
Vinyl Chloride		2.04 E-07
Total Dioxin/Furans (2,3,7,8-T		7.70 E-06
Total Risk:	1.86	1.17 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

[redacted]yte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.82 E-06
Cadmium		1.14 E-06
Particulate Matter (PM10)	2.52	
Dichloroethane, 1,2-		7.05 E-07
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.57 E-06
Carbon Tetrachloride		7.40 E-07
Chloroform		1.32 E-06
Chloromethane		2.00 E-07
Vinyl Chloride		4.58 E-07
Total Dioxin/Furans (2,3,7,8-T		2.33 E-05
Total Risk:	2.67	3.12 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

lyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.17 E-05
Cadmium		4.17 E-06
Particulate Matter (PM10)	2.38	
Dichloroethane, 1,2-		5.97 E-06
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.70 E-05
Carbon Tetrachloride		5.70 E-06
Chloroform		5.09 E-06
Chloromethane		1.96 E-06
Vinyl Chloride		2.77 E-06
Total Dioxin/Furans (2,3,7,8-T		1.05 E-04
Total Risk:	2.53	1.59 E-04

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

[redacted]te	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		2.48 E-05
Cadmium		1.55 E-05
Particulate Matter (PM10)	3.43	
Dichloroethane, 1,2-		9.59 E-06
Dichloropropane, 1,2-	0.21	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.13 E-05
Carbon Tetrachloride		1.01 E-05
Chloroform		1.80 E-05
Chloromethane		2.72 E-06
Vinyl Chloride		6.23 E-06
Total Dioxin/Furans (2,3,7,8-T		3.17 E-04
Total Risk:	3.64	4.25 E-04

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

yte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: AVERAGE**		
Arsenic		1.73 E-06
Cadmium		6.14 E-07
Particulate Matter (PM10)	1.75	
Dichloroethane, 1,2-		8.77 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.51 E-06
Carbon Tetrachloride		8.38 E-07
Chloroform		7.49 E-07
Chloromethane		2.88 E-07
Vinyl Chloride		4.07 E-07
Total Dioxin/Furans (2,3,7,8-T		1.54 E-05
Total Risk:	1.86	2.34 E-05

Table A-8 - Location 8
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

[redacted]yte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		3.64 E-06
Cadmium		2.28 E-06
Particulate Matter (PM10)	2.52	
Dichloroethane, 1,2-		1.41 E-06
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.14 E-06
Carbon Tetrachloride		1.48 E-06
Chloroform		2.65 E-06
Chloromethane		3.99 E-07
Vinyl Chloride		9.16 E-07
Total Dioxin/Furans (2,3,7,8-T		4.66 E-05
Total Risk:	2.67	6.25 E-05

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		2.82 E-06
Cadmium		7.33 E-07
Particulate Matter (PM10)	6.62	
Dichloroethane, 1,2-		1.16 E-06
Dichloropropane, 1,2-	0.32	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.62 E-06
Carbon Tetrachloride		1.09 E-06
Chloroform		5.89 E-07
Chloromethane		3.54 E-07
Vinyl Chloride		6.43 E-07
Total Dioxin/Furans (2,3,7,8-T		1.06 E-04
Total Risk:	6.95	1.17 E-04

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

Analyte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		8.61 E-06
Cadmium		3.56 E-06
Particulate Matter (PM10)		
Dichloroethane, 1,2-	8.86	
Dichloropropane, 1,2-		1.38 E-06
Dichlorobenzene, 1,4-	0.45	
Benzene	0.01	
Carbon Tetrachloride		4.97 E-06
Chloroform		1.36 E-06
Chloromethane		1.11 E-06
Vinyl Chloride		7.04 E-07
Total Dioxin/Furans (2,3,7,8-T		1.48 E-06
		4.92 E-04
Total Risk:	9.32	5.15 E-04

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		5.63 E-06
Cadmium		1.47 E-06
Particulate Matter (PM10)	6.62	
Dichloroethane, 1,2-		2.33 E-06
Dichloropropane, 1,2-	0.32	
Dichlorobenzene, 1,4-	<0.01	
Benzene		7.24 E-06
Carbon Tetrachloride		2.18 E-06
Chloroform		1.18 E-06
Chloromethane		7.08 E-07
Vinyl Chloride		1.29 E-06
Total Dioxin/Furans (2,3,7,8-T		2.12 E-04
Total Risk:	6.95	2.34 E-04

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - CHILD

[redacted]yte	CHILD Hazard Index	CHILD Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		1.72 E-05
Cadmium		7.13 E-06
Particulate Matter (PM10)	8.86	
Dichloroethane, 1,2-		2.75 E-06
Dichloropropane, 1,2-	0.45	
Dichlorobenzene, 1,4-	0.01	
Benzene		9.93 E-06
Carbon Tetrachloride		2.73 E-06
Chloroform		2.22 E-06
Chloromethane		1.41 E-06
Vinyl Chloride		2.96 E-06
Total Dioxin/Furans (2,3,7,8-T		9.84 E-04
Total Risk:	9.32	1.03 E-03

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3 **Media: OUTDOOR AIR** **Route of Exposure: Inhalation of Outdoor Air** **Receptor: AVERAGE**		
Arsenic		1.01 E-06
Cadmium		2.62 E-07
Particulate Matter (PM10)	2.37	
Dichloroethane, 1,2-		4.15 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.29 E-06
Carbon Tetrachloride		3.90 E-07
Chloroform		2.11 E-07
Chloromethane		1.26 E-07
Vinyl Chloride		2.30 E-07
Total Dioxin/Furans (2,3,7,8-T		3.79 E-05
Total Risk:	2.48	4.19 E-05

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

alyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 3	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		3.07 E-06
Cadmium		1.27 E-06
Particulate Matter (PM10)	3.16	
Dichloroethane, 1,2-		4.91 E-07
Dichloropropane, 1,2-	0.16	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.77 E-06
Carbon Tetrachloride		4.87 E-07
Chloroform		3.97 E-07
Chloromethane		2.51 E-07
Vinyl Chloride		5.28 E-07
Total Dioxin/Furans (2,3,7,8-T		1.76 E-04
Total Risk:	3.33	1.84 E-04

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

yte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: AVERAGE**	
Arsenic		1.37 E-05
Cadmium		3.56 E-06
Particulate Matter (PM10)	3.22	
Dichloroethane, 1,2-		5.65 E-06
Dichloropropane, 1,2-	0.15	
Dichlorobenzene, 1,4-	<0.01	
Benzene		1.76 E-05
Carbon Tetrachloride		5.30 E-06
Chloroform		2.86 E-06
Chloromethane		1.72 E-06
Vinyl Chloride		3.12 E-06
Total Dioxin/Furans (2,3,7,8-T		5.16 E-04
Total Risk:	3.37	5.69 E-04

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 30	**Media: OUTDOOR AIR**	
Route of Exposure: Inhalation of Outdoor Air	**Receptor: RME**	
Arsenic		4.18 E-05
Cadmium		1.73 E-05
Particulate Matter (PM10)	4.30	
Dichloroethane, 1,2-		6.68 E-06
Dichloropropane, 1,2-	0.22	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.41 E-05
Carbon Tetrachloride		6.62 E-06
Chloroform		5.40 E-06
Chloromethane		3.42 E-06
Vinyl Chloride		7.19 E-06
Total Dioxin/Furans (2,3,7,8-T		2.39 E-03
Total Risk:	**4.53**	**2.50 E-03**

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 8	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** AVERAGE	
Arsenic		2.01 E-06
Cadmium		5.23 E-07
Particulate Matter (PM10)	2.37	
Dichloroethane, 1,2-		8.30 E-07
Dichloropropane, 1,2-	0.11	
Dichlorobenzene, 1,4-	<0.01	
Benzene		2.59 E-06
Carbon Tetrachloride		7.80 E-07
Chloroform		4.21 E-07
Chloromethane		2.53 E-07
Vinyl Chloride		4.60 E-07
Total Dioxin/Furans (2,3,7,8-T		7.59 E-05
Total Risk:	2.48	8.37 E-05

Table A-9 - Location 9
RISK REPORT
TOTAL NONCARCINOGENIC AND CARCINOGENIC RISK VIA ROUTE OF EXPOSURE - ADULT

Analyte	ADULT Hazard Index	ADULT Carcinogenic Risk
Scenario: RES - 6	**Media:** OUTDOOR AIR	
Route of Exposure: Inhalation of Outdoor Air	**Receptor:** RME	
Arsenic		6.15 E-06
Cadmium		2.54 E-06
Particulate Matter (PM10)	3.16	
Dichloroethane, 1,2-		9.83 E-07
Dichloropropane, 1,2-	0.16	
Dichlorobenzene, 1,4-	<0.01	
Benzene		3.55 E-06
Carbon Tetrachloride		9.74 E-07
Chloroform		7.94 E-07
Chloromethane		5.03 E-07
Vinyl Chloride		1.06 E-06
Total Dioxin/Furans (2,3,7,8-T		3.51 E-04
Total Risk:	**3.33**	**3.68 E-04**

APPENDIX B

1997 Air Sampling Schedule, Statistical Summaries, and Sampling Results

1997 AIR SAMPLING SCHEDULE

SITE	NUMBER OF SAMPLES	DATES SAMPLED (1997)
1. Skeet Range (Background, Upwind)	28	7/27, 7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5,8/6, 8/7, 8/19, 8/20, 8/21, 8/22, 8/23, 8/26, 8/27, 8/28, 8/29, 8/30, 9/7, 9/10, 9/11
2. Golf Course South	9	7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7
3. Golf Course North	17	7/27, 7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7, 8/19, 8/20, 8/27, 8/30, 9/7, 9/10, 9/11
4. Fenceline	9	7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7
5. Ground Electronics Maintenance	17	7/27, 7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7, 8/19, 8/20, 8/22, 8/23, 8/26, 8/28, 8/29
6. Building 3102, Khaki Towers	9	7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7
7. Building 3101, Enlisted Towers	12	7/27, 7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7, 8/19, 8/21
8. Playground/Picnic Area	9	7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7
9. Child Development Center	9	7/28, 7/29, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7

Background

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	27	11.11	0.000004	0.00002	0.000003	0.00003	0.000008	0.000007	
As	MG/M3	27	88.89	0.000002	0.000005	0.000002	0.00002	0.000007	0.000006	
Be	MG/M3	27	48.15	0.0000003	0.000001	0.0000002	0.000005	0.000001	0.0000006	0.0000002
Cd	MG/M3	27	96.30	0.00000010	0.00000010	0.0000003	0.00001	0.000004	0.000004	
Cr	MG/M3	27	100.00			0.000008	0.00008	0.00003	0.00002	
Cr_VI	MG/M3	27	3.70	0.0000009	0.000005	0.00002	0.00002	0.000003	0.000002	
Cu	MG/M3	27	96.30	0.00001	0.00001	0.00005	0.0004	0.0002	0.0001	
Ni	MG/M3	27	77.78	0.00002	0.00002	0.000007	0.00006	0.00003	0.00003	
Pb	MG/M3	27	100.00			0.000004	0.0006	0.0002	0.0002	
Sb	MG/M3	27	14.81	0.00003	0.0001	0.00002	0.0001	0.00006	0.00006	
Zn	MG/M3	27	96.30	0.00001	0.00001	0.0001	0.001	0.0006	0.0005	
Particulates										
PM10	MG/M3	8	100.00			0.08	0.29	0.16	0.14	
Volatile/Semi-Volatile Organic										
Acetaldehyde	MG/M3	6	100.00			0.0001	0.001	0.0007	0.0008	0.0001
Acetone	MG/M3	6	100.00			0.0001	0.0006	0.0003	0.0003	
Benzaldehyde	MG/M3	6	83.33	0.0002	0.0002	0.0002	0.0007	0.0003	0.0002	
Formaldehyde	MG/M3	6	100.00			0.003	0.008	0.004	0.003	0.003
Methyl Ethyl Ketone/Butyraldeh	MG/M3	6	66.67	0.0003	0.0003	0.0003	0.002	0.0008	0.0008	0.0002
Propanal	MG/M3	6	66.67	0.0002	0.0002	0.00008	0.0004	0.0002	0.0002	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	16	37.50	0.0010	0.0010	0.0008	0.002	0.0008	0.0005	0.0005
1,2,4-Trimethylbenzene	MG/M3	16	100.00			0.0010	0.008	0.003	0.003	
1,2-Dichloroethane	MG/M3	16	31.25	0.0008	0.0008	0.0001	0.0007	0.0004	0.0004	
1,2-Dichloropropane	MG/M3	16	31.25	0.0009	0.0009	0.0003	0.0005	0.0004	0.0004	
1,3,5-Trimethylbenzene	MG/M3	16	25.00	0.0009	0.0009	0.0009	0.002	0.0007	0.0005	0.0005
1,4-Dichlorobenzene	MG/M3	16	68.75	0.001	0.001	0.002	0.005	0.002	0.002	0.0006

Background

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
4-Bromofluorobenzene	%	16	100.00			67.48	127.00	107.09	107.50	
Benzene	MG/M3	16	100.00			0.001	0.009	0.004	0.004	
Bromomethane	MG/M3	16	68.75	0.0006	0.0006	0.0006	0.002	0.0010	0.001	0.0003
Carbon Tetrachloride	MG/M3	16	31.25	0.001	0.001	0.0004	0.0008	0.0006	0.0006	
Chloroethane	MG/M3	16	6.25	0.0005	0.0005	0.001	0.001	0.0003	0.0002	0.0002
Chloroform	MG/M3	16	81.25	0.0002	0.0002	0.0002	0.0006	0.0003	0.0003	0.00009
Chloromethane	MG/M3	16	100.00			0.001	0.003	0.002	0.002	
Ethyl Benzene	MG/M3	16	100.00			0.002	0.01	0.005	0.004	
Freon 11	MG/M3	16	100.00			0.001	0.002	0.002	0.002	
Freon 12	MG/M3	16	100.00			0.002	0.007	0.005	0.004	
Octafluorotoluene	%	16	100.00			50.93	106.00	90.75	90.00	
Styrene	MG/M3	16	68.75	0.0008	0.0008	0.0006	0.003	0.001	0.0010	0.0004
Tetrachloroethene	MG/M3	16	25.00	0.001	0.001	0.001	0.003	0.0009	0.0007	0.0007
Toluene	MG/M3	16	100.00			0.008	0.06	0.03	0.02	
Toluene-d8	%	16	100.00			58.57	115.00	97.29	99.00	
Trichloroethene	MG/M3	16	62.50	0.0010	0.0010	0.0009	0.006	0.002	0.001	0.0005
Vinyl Chloride	MG/M3	16	18.75	0.00010	0.00010	0.00009	0.0002	0.00006	0.00005	0.00005
cis-1,3-Dichloropropene	MG/M3	16	25.00	0.0002	0.0002	0.0002	0.0010	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	16	100.00			0.003	0.02	0.007	0.007	
o-Xylene	MG/M3	16	100.00			0.001	0.006	0.003	0.003	
trans-1,3-Dichloropropene	MG/M3	16	37.50	0.0008	0.0008	0.0008	0.004	0.0009	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	28	100.00			0.000000002	0.0000002	0.00000002	0.000000009	
1,2,3,4,6,7,8,9-OCDF	MG/M3	28	92.86	0.0000000008	0.000000003	0.0000000007	0.0000002	0.00000002	0.000000006	
1,2,3,4,6,7,8-HpCDD	MG/M3	28	96.43	0.000000003	0.000000003	0.0000000005	0.00000007	0.000000009	0.000000005	
1,2,3,4,6,7,8-HpCDF	MG/M3	28	100.00			0.0000000006	0.0000002	0.00000002	0.000000008	
1,2,3,4,7,8,9-HpCDF	MG/M3	28	71.43	0.0000000003	0.000000003	0.0000000009	0.00000005	0.000000004	0.000000002	
1,2,3,4,7,8-HxCDD	MG/M3	28	32.14	0.0000000003	0.000000003	0.0000000004	0.000000009	0.0000000010	0.0000000005	
1,2,3,4,7,8-HxCDF	MG/M3	28	96.43	0.000000002	0.000000002	0.0000000004	0.00000006	0.000000008	0.000000004	

Background

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
1,2,3,6,7,8-HxCDD	MG/M3	28	46.43	0.0000000002	0.000000002	0.0000000003	0.00000001	0.000000001	0.0000000005	
1,2,3,6,7,8-HxCDF	MG/M3	28	96.43	0.000000002	0.000000002	0.0000000002	0.00000002	0.000000003	0.000000001	
1,2,3,7,8,9-HxCDD	MG/M3	28	57.14	0.0000000002	0.000000002	0.0000000002	0.00000002	0.000000002	0.0000000006	
1,2,3,7,8,9-HxCDF	MG/M3	28	28.57	0.0000000002	0.000000005	0.0000000002	0.000000004	0.0000000006	0.0000000003	
1,2,3,7,8-PeCDD	MG/M3	28	17.86	0.0000000002	0.000000004	0.0000000003	0.000000003	0.0000000006	0.0000000003	
1,2,3,7,8-PeCDF	MG/M3	28	71.43	0.0000000002	0.000000001	0.0000000003	0.000000008	0.000000001	0.0000000006	
2,3,4,6,7,8-HxCDF	MG/M3	28	96.43	0.000000002	0.000000002	0.0000000004	0.00000007	0.000000008	0.000000003	
2,3,4,7,8-PeCDF	MG/M3	28	92.86	0.0000000003	0.000000001	0.0000000002	0.00000002	0.000000003	0.000000002	
2,3,7,8-TCDD	MG/M3	28	14.29	0.0000000001	0.000000002	0.0000000000	0.0000000004	0.0000000003	0.0000000002	
2,3,7,8-TCDF	MG/M3	28	60.71	0.0000000003	0.000000002	0.0000000003	0.000000005	0.0000000009	0.0000000006	
Total HpCDD	MG/M3	28	96.43	0.000000003	0.000000003	0.0000000007	0.0000002	0.00000002	0.000000008	
Total HpCDF	MG/M3	28	100.00			0.0000000006	0.0000004	0.00000004	0.00000001	
Total HxCDD	MG/M3	28	96.43	0.000000002	0.000000002	0.0000000007	0.0000002	0.00000002	0.000000004	
Total HxCDF	MG/M3	28	96.43	0.000000002	0.000000002	0.0000000007	0.0000003	0.00000004	0.00000002	
Total PeCDD	MG/M3	28	85.71	0.0000000003	0.000000003	0.0000000006	0.00000006	0.000000007	0.000000003	
Total PeCDF	MG/M3	28	96.43	0.000000001	0.000000001	0.000000001	0.0000002	0.00000003	0.00000001	
Total TCDD	MG/M3	28	92.86	0.000000001	0.000000002	0.0000000007	0.00000005	0.000000006	0.000000003	
Total TCDF	MG/M3	28	96.43	0.000000001	0.000000001	0.000000002	0.0000002	0.00000003	0.00000002	
TSP										
Net_Mass	MG/M3	27	100.00			0.003	0.91	0.32	0.29	

Background

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.000006	0.000008	0.00003	0.000006	0.000010	0.000009	Unknown
As	MG/M3	0.000004	0.000007	0.00002	0.000006	0.000008	0.000009	Normal/Lognormal
Be	MG/M3	0.000001	0.000001	0.000005	0.0000009	0.000002	0.000002	Lognormal
Cd	MG/M3	0.000003	0.000004	0.00001	0.000003	0.000005	0.000010	Unknown
Cr	MG/M3	0.00002	0.00003	0.00008	0.00002	0.00004	0.00004	Lognormal
Cr_VI	MG/M3	0.000004	0.000003	0.00002	0.000002	0.000004	0.000003	Unknown
Cu	MG/M3	0.00010	0.0002	0.0004	0.0001	0.0002	0.0003	Normal
Ni	MG/M3	0.00002	0.00003	0.00006	0.00002	0.00004	0.00004	Unknown
Pb	MG/M3	0.0001	0.0002	0.0006	0.0001	0.0002	0.0004	Unknown
Sb	MG/M3	0.00003	0.00006	0.0001	0.00005	0.00007	0.00007	Unknown
Zn	MG/M3	0.0004	0.0006	0.001	0.0004	0.0007	0.001	Normal
Particulates								
PM10	MG/M3	0.07	0.16	0.29	0.15	0.21	0.23	Normal/Lognormal
Volatile/Semi-Volatile Organic								
Acetaldehyde	MG/M3	0.0006	0.0007	0.001	0.0004	0.001	0.02	Unknown
Acetone	MG/M3	0.0002	0.0003	0.0006	0.0003	0.0005	0.001	Normal/Lognormal
Benzaldehyde	MG/M3	0.0002	0.0003	0.0007	0.0003	0.0005	0.0008	Normal/Lognormal
Formaldehyde	MG/M3	0.002	0.004	0.008	0.004	0.006	0.006	Lognormal
Methyl Ethyl Ketone/Butyraldeh	MG/M3	0.0007	0.0008	0.002	0.0005	0.001	0.010	Normal/Lognormal
Propanal	MG/M3	0.0001	0.0002	0.0004	0.0002	0.0003	0.0005	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0004	0.0008	0.002	0.0007	0.0010	0.001	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.002	0.003	0.008	0.003	0.004	0.005	Normal/Lognormal
1,2-Dichloroethane	MG/M3	0.0001	0.0004	0.0007	0.0004	0.0004	0.0005	Unknown
1,2-Dichloropropane	MG/M3	0.00006	0.0004	0.0005	0.0004	0.0004	0.0004	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0005	0.0007	0.002	0.0006	0.0009	0.0009	Unknown
1,4-Dichlorobenzene	MG/M3	0.001	0.002	0.005	0.002	0.003	0.004	Normal

Background

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
4-Bromofluorobenzene	%	14.85	107.09	127.00	106.00	113.60	115.06	Normal
Benzene	MG/M3	0.002	0.004	0.009	0.004	0.005	0.006	Normal/Lognormal
Bromomethane	MG/M3	0.0006	0.0010	0.002	0.0008	0.001	0.002	Normal
Carbon Tetrachloride	MG/M3	0.00008	0.0006	0.0008	0.0006	0.0007	0.0007	Unknown
Chloroethane	MG/M3	0.0003	0.0003	0.001	0.0003	0.0004	0.0004	Unknown
Chloroform	MG/M3	0.0001	0.0003	0.0006	0.0002	0.0003	0.0004	Normal/Lognormal
Chloromethane	MG/M3	0.0004	0.002	0.003	0.002	0.002	0.002	Normal/Lognormal
Ethyl Benzene	MG/M3	0.003	0.005	0.01	0.005	0.007	0.007	Lognormal
Freon 11	MG/M3	0.0003	0.002	0.002	0.002	0.002	0.002	Normal/Lognormal
Freon 12	MG/M3	0.001	0.005	0.007	0.005	0.005	0.006	Normal/Lognormal
Octafluorotoluene	%	14.38	90.75	106.00	89.47	97.05	99.00	Unknown
Styrene	MG/M3	0.0007	0.001	0.003	0.0009	0.001	0.002	Lognormal
Tetrachloroethene	MG/M3	0.0005	0.0009	0.003	0.0008	0.001	0.001	Unknown
Toluene	MG/M3	0.02	0.03	0.06	0.02	0.04	0.04	Normal/Lognormal
Toluene-d8	%	13.47	97.29	115.00	96.25	103.19	104.80	Unknown
Trichloroethene	MG/M3	0.002	0.002	0.006	0.001	0.003	0.003	Unknown
Vinyl Chloride	MG/M3	0.00003	0.00006	0.0002	0.00006	0.00008	0.00007	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0002	0.0002	0.0010	0.0001	0.0003	0.0002	Unknown
m,p-Xylene	MG/M3	0.003	0.007	0.02	0.007	0.009	0.009	Lognormal
o-Xylene	MG/M3	0.001	0.003	0.006	0.003	0.003	0.004	Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0010	0.0009	0.004	0.0006	0.001	0.001	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000004	0.00000002	0.0000002	0.00000001	0.00000003	0.00000003	Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000003	0.00000002	0.0000002	0.000000006	0.00000002	0.00000003	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.00000002	0.000000009	0.00000007	0.000000004	0.00000001	0.00000001	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000004	0.00000002	0.0000002	0.000000009	0.00000003	0.00000004	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000009	0.000000004	0.00000005	0.000000002	0.000000007	0.000000010	Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.000000002	0.0000000010	0.000000009	0.0000000005	0.000000002	0.000000001	Unknown
1,2,3,4,7,8-HxCDF	MG/M3	0.00000001	0.000000008	0.00000006	0.000000004	0.00000001	0.00000001	Lognormal

Background

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
1,2,3,6,7,8-HxCDD	MG/M3	0.000000002	0.000000001	0.00000001	0.0000000006	0.000000002	0.000000002	Unknown
1,2,3,6,7,8-HxCDF	MG/M3	0.000000005	0.000000003	0.00000002	0.000000002	0.000000005	0.000000005	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000004	0.000000002	0.00000002	0.0000000007	0.000000003	0.000000003	Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000008	0.0000000006	0.000000004	0.0000000004	0.0000000008	0.0000000008	Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.0000000007	0.0000000006	0.000000003	0.0000000004	0.0000000008	0.0000000008	Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.000000002	0.000000001	0.000000008	0.0000000007	0.000000002	0.000000002	Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.00000001	0.000000008	0.00000007	0.000000004	0.00000001	0.00000001	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000005	0.000000003	0.00000002	0.000000002	0.000000005	0.000000005	Lognormal
2,3,7,8-TCDD	MG/M3	0.0000000003	0.0000000003	0.0000000004	0.0000000002	0.0000000004	0.0000000005	Lognormal
2,3,7,8-TCDF	MG/M3	0.0000000010	0.0000000009	0.000000005	0.0000000006	0.000000001	0.000000001	Lognormal
Total HpCDD	MG/M3	0.00000004	0.00000002	0.0000002	0.000000007	0.00000003	0.00000003	Lognormal
Total HpCDF	MG/M3	0.00000008	0.00000004	0.0000004	0.00000001	0.00000007	0.00000010	Lognormal
Total HxCDD	MG/M3	0.00000004	0.00000002	0.0000002	0.000000005	0.00000003	0.00000003	Lognormal
Total HxCDF	MG/M3	0.00000008	0.00000004	0.0000003	0.00000002	0.00000007	0.00000009	Lognormal
Total PeCDD	MG/M3	0.00000001	0.000000007	0.00000006	0.000000003	0.00000001	0.00000001	Lognormal
Total PeCDF	MG/M3	0.00000006	0.00000003	0.0000002	0.00000001	0.00000005	0.00000007	Lognormal
Total TCDD	MG/M3	0.00000001	0.000000006	0.00000005	0.000000003	0.000000010	0.000000010	Lognormal
Total TCDF	MG/M3	0.00000004	0.00000003	0.0000002	0.00000002	0.00000005	0.00000006	Unknown
TSP								
Net_Mass	MG/M3	0.23	0.32	0.91	0.23	0.40	0.73	Unknown

Location 2

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	8	25.00	0.000009	0.00001	0.00001	0.00001	0.000008	0.000006	
As	MG/M3	8	87.50	0.000002	0.000002	0.000003	0.00002	0.000008	0.000006	
Be	MG/M3	8	12.50	0.0000008	0.000001	0.000002	0.000002	0.0000007	0.0000005	0.0000004
Cd	MG/M3	8	100.00			0.000001	0.000005	0.000003	0.000002	
Cr	MG/M3	8	100.00			0.00001	0.00005	0.00002	0.00001	
Cu	MG/M3	8	100.00			0.0002	0.0005	0.0003	0.0004	
Ni	MG/M3	8	62.50	0.00002	0.00002	0.00002	0.00004	0.00002	0.00002	
Pb	MG/M3	8	100.00			0.00004	0.0002	0.0001	0.00008	
Sb	MG/M3	8	12.50	0.00008	0.0001	0.0002	0.0002	0.00006	0.00005	
Se	MG/M3	8	12.50	0.0002	0.0002	0.0002	0.0002	0.0001	0.00010	
Zn	MG/M3	8	100.00			0.0001	0.0008	0.0003	0.0002	
Particulates										
PM10	MG/M3	8	100.00			0.06	0.15	0.10	0.10	
Volatile/Semi-Volatile Organic										
1,2,4-Trimethylbenzene	MG/M3	9	77.78	0.0007	0.0007	0.002	0.006	0.003	0.002	0.0003
1,2-Dichloroethane	MG/M3	9	11.11	0.0008	0.0008	0.0002	0.0002	0.0004	0.0004	
1,3,5-Trimethylbenzene	MG/M3	9	22.22	0.0009	0.0009	0.0009	0.001	0.0006	0.0005	0.0005
1,4-Dichlorobenzene	MG/M3	9	55.56	0.001	0.001	0.001	0.004	0.002	0.001	0.0006
4-Bromofluorobenzene	%	9	100.00			98.00	115.00	106.78	107.00	
Benzene	MG/M3	9	100.00			0.002	0.004	0.003	0.004	0.002
Bromomethane	MG/M3	9	77.78	0.0006	0.0006	0.0007	0.003	0.001	0.0008	0.0003
Carbon Tetrachloride	MG/M3	9	11.11	0.001	0.001	0.0004	0.0004	0.0006	0.0006	
Chloroform	MG/M3	9	66.67	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.00009
Chloromethane	MG/M3	9	100.00			0.001	0.002	0.002	0.002	
Ethyl Benzene	MG/M3	9	100.00			0.001	0.008	0.004	0.003	
Freon 11	MG/M3	9	88.89	0.0008	0.0008	0.002	0.002	0.002	0.002	
Freon 12	MG/M3	9	100.00			0.002	0.008	0.005	0.006	
Octafluorotoluene	%	9	100.00			86.00	109.00	96.22	96.00	

Location 2

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Styrene	MG/M3	9	66.67	0.0008	0.0008	0.0008	0.001	0.0008	0.0008	0.0004
Tetrachloroethene	MG/M3	9	22.22	0.001	0.001	0.001	0.001	0.0008	0.0007	0.0007
Toluene	MG/M3	9	100.00			0.007	0.04	0.02	0.01	
Toluene-d8	%	9	100.00			92.00	115.00	103.56	104.00	92.00
Trichloroethene	MG/M3	9	44.44	0.0010	0.0010	0.001	0.004	0.001	0.0005	0.0005
cis-1,3-Dichloropropene	MG/M3	9	33.33	0.0002	0.0002	0.0002	0.0009	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	9	100.00			0.002	0.008	0.004	0.004	
o-Xylene	MG/M3	9	88.89	0.0006	0.0006	0.0010	0.003	0.002	0.002	
trans-1,3-Dichloropropene	MG/M3	9	11.11	0.0008	0.0008	0.002	0.002	0.0006	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	8	100.00			0.000000003	0.00000003	0.00000001	0.00000001	
1,2,3,4,6,7,8,9-OCDF	MG/M3	8	100.00			0.000000001	0.00000004	0.00000001	0.000000009	
1,2,3,4,6,7,8-HpCDD	MG/M3	8	100.00			0.000000001	0.00000002	0.000000006	0.000000006	
1,2,3,4,6,7,8-HpCDF	MG/M3	8	100.00			0.000000003	0.00000006	0.00000001	0.000000010	
1,2,3,4,7,8,9-HpCDF	MG/M3	8	87.50	0.0000000009	0.0000000009	0.0000000004	0.00000001	0.000000004	0.000000003	
1,2,3,4,7,8-HxCDD	MG/M3	8	25.00	0.0000000002	0.000000001	0.0000000008	0.000000001	0.0000000006	0.0000000004	
1,2,3,4,7,8-HxCDF	MG/M3	8	87.50	0.0000000006	0.0000000006	0.0000000006	0.00000002	0.000000005	0.000000005	
1,2,3,6,7,8-HxCDD	MG/M3	8	62.50	0.0000000001	0.0000000008	0.0000000007	0.000000002	0.0000000009	0.0000000008	
1,2,3,6,7,8-HxCDF	MG/M3	8	100.00			0.0000000003	0.000000007	0.000000002	0.000000002	
1,2,3,7,8,9-HxCDD	MG/M3	8	87.50	0.0000000007	0.0000000007	0.0000000002	0.000000003	0.000000001	0.0000000010	
1,2,3,7,8,9-HxCDF	MG/M3	8	50.00	0.0000000001	0.0000000009	0.0000000002	0.0000000008	0.0000000004	0.0000000004	
1,2,3,7,8-PeCDD	MG/M3	8	25.00	0.0000000002	0.000000001	0.0000000006	0.0000000010	0.0000000005	0.0000000005	
1,2,3,7,8-PeCDF	MG/M3	8	87.50	0.0000000001	0.0000000001	0.0000000004	0.000000002	0.0000000009	0.0000000009	
2,3,4,6,7,8-HxCDF	MG/M3	8	100.00			0.0000000009	0.00000002	0.000000006	0.000000004	
2,3,4,7,8-PeCDF	MG/M3	8	100.00			0.0000000004	0.000000007	0.000000002	0.000000002	
2,3,7,8-TCDF	MG/M3	8	50.00	0.0000000001	0.000000002	0.0000000005	0.000000001	0.0000000006	0.0000000006	
Total HpCDD	MG/M3	8	100.00			0.000000002	0.00000004	0.00000001	0.000000008	
Total HpCDF	MG/M3	8	100.00			0.000000003	0.0000001	0.00000003	0.00000002	

Location 2

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
Total HxCDD	MG/M3	8	100.00			0.0000000002	0.00000003	0.000000009	0.000000008	
Total HxCDF	MG/M3	8	100.00			0.000000002	0.0000001	0.00000003	0.00000002	
Total PeCDD	MG/M3	8	100.00			0.0000000009	0.00000001	0.000000006	0.000000005	
Total PeCDF	MG/M3	8	100.00			0.000000004	0.00000010	0.00000003	0.00000002	
Total TCDD	MG/M3	8	100.00			0.000000001	0.00000002	0.000000006	0.000000005	
Total TCDF	MG/M3	8	100.00			0.000000009	0.00000010	0.00000004	0.00000003	
TSP										
Net_Mass	MG/M3	8	100.00			0.07	0.33	0.14	0.12	

Location 2

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.000004	0.000008	0.00001	0.000007	0.000010	0.00001	Lognormal
As	MG/M3	0.000006	0.000008	0.00002	0.000006	0.00001	0.00003	Normal/Lognormal
Be	MG/M3	0.0000005	0.0000007	0.000002	0.0000006	0.000001	0.000001	Unknown
Cd	MG/M3	0.000001	0.000003	0.000005	0.000002	0.000003	0.000004	Normal/Lognormal
Cr	MG/M3	0.00001	0.00002	0.00005	0.00002	0.00003	0.00003	Unknown
Cu	MG/M3	0.0001	0.0003	0.0005	0.0003	0.0004	0.0005	Normal/Lognormal
Ni	MG/M3	0.00001	0.00002	0.00004	0.00002	0.00003	0.00003	Normal/Lognormal
Pb	MG/M3	0.00006	0.0001	0.0002	0.00009	0.0001	0.0002	Normal/Lognormal
Sb	MG/M3	0.00004	0.00006	0.0002	0.00005	0.00009	0.00009	Unknown
Se	MG/M3	0.00006	0.0001	0.0002	0.0001	0.0002	0.0002	Unknown
Zn	MG/M3	0.0002	0.0003	0.0008	0.0002	0.0004	0.0005	Lognormal
Particulates								
PM10	MG/M3	0.03	0.10	0.15	0.10	0.12	0.13	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,2,4-Trimethylbenzene	MG/M3	0.002	0.003	0.006	0.002	0.004	0.010	Normal/Lognormal
1,2-Dichloroethane	MG/M3	0.00008	0.0002	0.0002	0.0003	0.0004	0.0004	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0003	0.0006	0.001	0.0005	0.0008	0.0008	Unknown
1,4-Dichlorobenzene	MG/M3	0.001	0.002	0.004	0.001	0.002	0.004	Lognormal
4-Bromofluorobenzene	%	6.69	106.78	115.00	106.59	110.92	111.12	Normal/Lognormal
Benzene	MG/M3	0.001	0.003	0.004	0.003	0.004	0.004	Unknown
Bromomethane	MG/M3	0.001	0.001	0.003	0.0010	0.002	0.004	Lognormal
Carbon Tetrachloride	MG/M3	0.00008	0.0004	0.0004	0.0006	0.0006	0.0006	Unknown
Chloroform	MG/M3	0.00008	0.0002	0.0003	0.0002	0.0002	0.0003	Normal
Chloromethane	MG/M3	0.0004	0.002	0.002	0.002	0.002	0.002	Normal/Lognormal
Ethyl Benzene	MG/M3	0.002	0.004	0.008	0.003	0.005	0.006	Lognormal
Freon 11	MG/M3	0.0005	0.002	0.002	0.002	0.002	0.003	Unknown
Freon 12	MG/M3	0.002	0.005	0.008	0.005	0.006	0.008	Normal/Lognormal
Octafluorotoluene	%	7.33	96.22	109.00	95.98	100.77	101.03	Normal/Lognormal

Location 2

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Styrene	MG/M3	0.0003	0.0008	0.001	0.0007	0.0010	0.001	Unknown
Tetrachloroethene	MG/M3	0.0002	0.0008	0.001	0.0007	0.0009	0.0009	Unknown
Toluene	MG/M3	0.01	0.02	0.04	0.01	0.03	0.03	Lognormal
Toluene-d8	%	9.37	103.56	115.00	103.18	109.36	109.85	Normal/Lognormal
Trichloroethene	MG/M3	0.001	0.001	0.004	0.0009	0.002	0.002	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0003	0.0002	0.0009	0.0001	0.0004	0.0004	Unknown
m,p-Xylene	MG/M3	0.002	0.004	0.008	0.004	0.006	0.007	Normal/Lognormal
o-Xylene	MG/M3	0.0008	0.002	0.003	0.001	0.002	0.003	Normal/Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0006	0.0006	0.002	0.0005	0.0010	0.0009	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.000000008	0.00000001	0.00000003	0.00000001	0.00000002	0.00000004	Normal/Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000001	0.00000001	0.00000004	0.000000008	0.00000002	0.00000008	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.000000005	0.000000006	0.00000002	0.000000005	0.000000010	0.00000002	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000002	0.00000001	0.00000006	0.000000009	0.00000003	0.00000005	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000004	0.000000004	0.00000001	0.000000002	0.000000006	0.00000003	Normal/Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.0000000004	0.0000000006	0.000000001	0.0000000004	0.0000000008	0.000000001	Normal/Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.000000005	0.000000005	0.00000002	0.000000003	0.000000009	0.00000007	Normal/Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.0000000007	0.0000000009	0.000000002	0.0000000006	0.000000001	0.000000005	Normal/Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000002	0.000000002	0.000000007	0.000000001	0.000000004	0.000000007	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000001	0.000000001	0.000000003	0.0000000008	0.000000002	0.000000004	Normal/Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000002	0.0000000004	0.0000000008	0.0000000003	0.0000000006	0.000000001	Normal/Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.0000000003	0.0000000005	0.0000000010	0.0000000004	0.0000000006	0.000000001	Normal/Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.0000000005	0.0000000009	0.000000002	0.0000000006	0.000000001	0.000000005	Normal
2,3,4,6,7,8-HxCDF	MG/M3	0.000000007	0.000000006	0.00000002	0.000000004	0.00000001	0.00000002	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000002	0.000000002	0.000000007	0.000000002	0.000000004	0.000000007	Lognormal
2,3,7,8-TCDF	MG/M3	0.0000000003	0.0000000006	0.000000001	0.0000000005	0.0000000008	0.000000002	Normal
Total HpCDD	MG/M3	0.00000001	0.00000001	0.00000004	0.000000008	0.00000002	0.00000003	Lognormal
Total HpCDF	MG/M3	0.00000004	0.00000003	0.0000001	0.00000002	0.00000005	0.0000001	Lognormal

Location 2

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
Total HxCDD	MG/M3	0.000000009	0.000000009	0.00000003	0.000000004	0.00000002	0.0000003	Normal/Lognormal
Total HxCDF	MG/M3	0.00000003	0.00000003	0.0000001	0.00000002	0.00000005	0.0000003	Lognormal
Total PeCDD	MG/M3	0.000000005	0.000000006	0.00000001	0.000000004	0.000000009	0.00000003	Normal/Lognormal
Total PeCDF	MG/M3	0.00000003	0.00000003	0.00000010	0.00000002	0.00000005	0.00000009	Lognormal
Total TCDD	MG/M3	0.000000006	0.000000006	0.00000002	0.000000004	0.00000001	0.00000002	Lognormal
Total TCDF	MG/M3	0.00000003	0.00000004	0.00000010	0.00000003	0.00000006	0.00000009	Normal/Lognormal
TSP								
Net_Mass	MG/M3	0.08	0.14	0.33	0.13	0.20	0.22	Lognormal

Location 3

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	14	21.43	0.000010	0.00002	0.00002	0.00002	0.000010	0.000008	
As	MG/M3	14	100.00			0.000003	0.00004	0.000009	0.000006	
Be	MG/M3	14	14.29	0.0000008	0.000002	0.000002	0.000002	0.0000007	0.0000006	
Cd	MG/M3	14	100.00			0.000002	0.0001	0.00002	0.000008	
Cr	MG/M3	14	100.00			0.000009	0.00008	0.00003	0.00003	
Cu	MG/M3	14	100.00			0.0002	0.0007	0.0004	0.0003	
Ni	MG/M3	14	78.57	0.00002	0.00003	0.00002	0.0004	0.00007	0.00004	
Pb	MG/M3	14	100.00			0.00004	0.001	0.0004	0.0003	
Sb	MG/M3	14	14.29	0.00008	0.0002	0.0002	0.0003	0.00009	0.00006	
Se	MG/M3	14	7.14	0.0002	0.0003	0.0003	0.0003	0.0001	0.0001	
Zn	MG/M3	14	100.00			0.0002	0.002	0.0008	0.0007	
Particulates										
PM10	MG/M3	8	100.00			0.11	0.17	0.13	0.13	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	8	37.50	0.0010	0.0010	0.0009	0.001	0.0008	0.0005	0.0005
1,2,4-Trimethylbenzene	MG/M3	8	100.00			0.001	0.004	0.003	0.003	
1,2-Dichloroethane	MG/M3	8	12.50	0.0008	0.0008	0.0004	0.0004	0.0004	0.0004	
1,2-Dichloropropane	MG/M3	8	37.50	0.0009	0.0009	0.0002	0.002	0.0006	0.0004	
1,3,5-Trimethylbenzene	MG/M3	8	25.00	0.0009	0.0009	0.0008	0.0009	0.0006	0.0005	0.0005
1,4-Dichlorobenzene	MG/M3	8	62.50	0.001	0.001	0.001	0.004	0.002	0.001	0.0006
4-Bromofluorobenzene	%	8	100.00			98.00	115.00	106.88	107.50	
Benzene	MG/M3	8	100.00			0.003	0.005	0.004	0.004	
Bromomethane	MG/M3	8	75.00	0.0006	0.0006	0.0008	0.003	0.001	0.0008	0.0003
Carbon Tetrachloride	MG/M3	8	12.50	0.001	0.001	0.0006	0.0006	0.0006	0.0006	0.0006
Chloroform	MG/M3	8	87.50	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	
Chloromethane	MG/M3	8	100.00			0.001	0.002	0.002	0.002	
Ethyl Benzene	MG/M3	8	100.00			0.002	0.01	0.004	0.003	
Freon 11	MG/M3	8	100.00			0.002	0.002	0.002	0.002	0.002

Location 3

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Freon 12	MG/M3	8	100.00			0.003	0.008	0.005	0.004	
Octafluorotoluene	%	8	100.00			86.00	106.00	96.13	97.50	
Styrene	MG/M3	8	62.50	0.0008	0.0008	0.0010	0.003	0.001	0.0010	0.0004
Tetrachloroethene	MG/M3	8	25.00	0.001	0.001	0.0004	0.001	0.0007	0.0007	
Toluene	MG/M3	8	100.00			0.01	0.05	0.02	0.02	
Toluene-d8	%	8	100.00			90.00	118.00	99.75	98.00	90.00
Trichloroethene	MG/M3	8	87.50	0.0010	0.0010	0.001	0.004	0.002	0.002	
Vinyl Chloride	MG/M3	8	12.50	0.00010	0.00010	0.0001	0.0001	0.00006	0.00005	0.00005
cis-1,2-Dichloroethene	MG/M3	8	12.50	0.0007	0.0007	0.0009	0.0009	0.0004	0.0004	0.0004
cis-1,3-Dichloropropene	MG/M3	8	37.50	0.0002	0.0002	0.0002	0.0009	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	8	100.00			0.004	0.01	0.006	0.004	
o-Xylene	MG/M3	8	100.00			0.001	0.004	0.002	0.002	
trans-1,3-Dichloropropene	MG/M3	8	12.50	0.0008	0.0008	0.002	0.002	0.0006	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	14	100.00			0.000000007	0.00000004	0.00000002	0.00000002	
1,2,3,4,6,7,8,9-OCDF	MG/M3	14	100.00			0.000000003	0.00000005	0.00000002	0.00000001	
1,2,3,4,6,7,8-HpCDD	MG/M3	14	100.00			0.000000004	0.00000002	0.000000009	0.000000008	
1,2,3,4,6,7,8-HpCDF	MG/M3	14	100.00			0.000000005	0.00000007	0.00000002	0.00000001	
1,2,3,4,7,8,9-HpCDF	MG/M3	14	92.86	0.000000001	0.000000001	0.0000000010	0.00000002	0.000000005	0.000000003	
1,2,3,4,7,8-HxCDD	MG/M3	14	64.29	0.0000000003	0.000000001	0.0000000004	0.000000003	0.0000000008	0.0000000006	
1,2,3,4,7,8-HxCDF	MG/M3	14	92.86	0.0000000009	0.0000000009	0.000000002	0.00000002	0.000000007	0.000000004	
1,2,3,6,7,8-HxCDD	MG/M3	14	78.57	0.0000000005	0.000000001	0.0000000005	0.000000004	0.000000001	0.0000000008	
1,2,3,6,7,8-HxCDF	MG/M3	14	100.00			0.0000000009	0.000000010	0.000000003	0.000000002	
1,2,3,7,8,9-HxCDD	MG/M3	14	78.57	0.0000000006	0.0000000010	0.0000000007	0.000000005	0.000000002	0.000000001	
1,2,3,7,8,9-HxCDF	MG/M3	14	28.57	0.0000000003	0.000000001	0.0000000003	0.000000002	0.0000000005	0.0000000004	
1,2,3,7,8-PeCDD	MG/M3	14	28.57	0.0000000003	0.000000001	0.0000000004	0.000000002	0.0000000005	0.0000000004	
1,2,3,7,8-PeCDF	MG/M3	14	100.00			0.0000000005	0.000000005	0.000000001	0.000000001	
2,3,4,6,7,8-HxCDF	MG/M3	14	92.86	0.0000000007	0.0000000007	0.000000002	0.00000003	0.000000008	0.000000005	
2,3,4,7,8-PeCDF	MG/M3	14	100.00			0.000000001	0.00000001	0.000000003	0.000000002	

Location 3

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
2,3,7,8-TCDD	MG/M3	14	7.14	0.0000000002	0.0000000008	0.0000000005	0.0000000005	0.0000000002	0.0000000002	
2,3,7,8-TCDF	MG/M3	14	92.86	0.000000001	0.000000001	0.0000000004	0.000000004	0.000000001	0.0000000007	
Total HpCDD	MG/M3	14	100.00			0.000000005	0.00000004	0.00000002	0.00000001	
Total HpCDF	MG/M3	14	100.00			0.000000007	0.0000002	0.00000004	0.00000003	
Total HxCDD	MG/M3	14	100.00			0.000000003	0.00000006	0.00000002	0.00000001	
Total HxCDF	MG/M3	14	100.00			0.00000001	0.0000002	0.00000004	0.00000003	
Total PeCDD	MG/M3	14	100.00			0.0000000007	0.00000002	0.000000007	0.000000007	
Total PeCDF	MG/M3	14	100.00			0.000000009	0.0000002	0.00000004	0.00000002	
Total TCDD	MG/M3	14	100.00			0.000000003	0.00000003	0.00000001	0.000000009	
Total TCDF	MG/M3	14	100.00			0.00000002	0.0000003	0.00000006	0.00000004	
TSP										
Net_Mass	MG/M3	14	100.00			0.10	0.38	0.22	0.24	

Location 3

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.000005	0.000010	0.00002	0.000009	0.00001	0.00001	Lognormal
As	MG/M3	0.000009	0.000009	0.00004	0.000007	0.00001	0.00001	Lognormal
Be	MG/M3	0.0000004	0.0000007	0.000002	0.0000007	0.0000009	0.0000009	Lognormal
Cd	MG/M3	0.00003	0.00002	0.0001	0.000009	0.00004	0.00005	Lognormal
Cr	MG/M3	0.00002	0.00003	0.00008	0.00003	0.00004	0.00005	Normal/Lognormal
Cu	MG/M3	0.0001	0.0004	0.0007	0.0003	0.0004	0.0004	Lognormal
Ni	MG/M3	0.0001	0.00007	0.0004	0.00004	0.0001	0.0001	Lognormal
Pb	MG/M3	0.0003	0.0004	0.001	0.0003	0.0005	0.0007	Lognormal
Sb	MG/M3	0.00009	0.00009	0.0003	0.00007	0.0001	0.0001	Unknown
Se	MG/M3	0.00005	0.0001	0.0003	0.0001	0.0002	0.0002	Lognormal
Zn	MG/M3	0.0005	0.0008	0.002	0.0007	0.001	0.001	Normal/Lognormal
Particulates								
PM10	MG/M3	0.02	0.13	0.17	0.13	0.14	0.14	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0004	0.0008	0.001	0.0007	0.001	0.001	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.001	0.003	0.004	0.002	0.003	0.004	Normal/Lognormal
1,2-Dichloroethane	MG/M3	0.000002	0.0004	0.0004	0.0004	0.0004	0.0004	Unknown
1,2-Dichloropropane	MG/M3	0.0005	0.0006	0.002	0.0005	0.0009	0.001	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0002	0.0006	0.0009	0.0005	0.0007	0.0007	Unknown
1,4-Dichlorobenzene	MG/M3	0.002	0.002	0.004	0.001	0.003	0.006	Unknown
4-Bromofluorobenzene	%	6.33	106.88	115.00	106.71	111.12	111.37	Normal/Lognormal
Benzene	MG/M3	0.0009	0.004	0.005	0.004	0.004	0.005	Normal/Lognormal
Bromomethane	MG/M3	0.0008	0.001	0.003	0.0008	0.002	0.003	Normal/Lognormal
Carbon Tetrachloride	MG/M3	0.00001	0.0006	0.0006	0.0006	0.0006	0.0006	Unknown
Chloroform	MG/M3	0.00008	0.0002	0.0003	0.0002	0.0003	0.0003	Normal/Lognormal
Chloromethane	MG/M3	0.0003	0.002	0.002	0.002	0.002	0.002	Lognormal
Ethyl Benzene	MG/M3	0.003	0.004	0.01	0.004	0.006	0.008	Lognormal
Freon 11	MG/M3	0.0001	0.002	0.002	0.002	0.002	0.002	Unknown

Location 3

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Freon 12	MG/M3	0.002	0.005	0.008	0.005	0.006	0.007	Normal/Lognormal
Octafluorotoluene	%	7.47	96.13	106.00	95.87	101.13	101.52	Normal/Lognormal
Styrene	MG/M3	0.001	0.001	0.003	0.0009	0.002	0.003	Lognormal
Tetrachloroethene	MG/M3	0.0003	0.0007	0.001	0.0007	0.0009	0.0009	Unknown
Toluene	MG/M3	0.01	0.02	0.05	0.02	0.03	0.04	Normal/Lognormal
Toluene-d8	%	9.65	99.75	118.00	99.36	106.21	106.54	Normal/Lognormal
Trichloroethene	MG/M3	0.001	0.002	0.004	0.002	0.003	0.005	Normal/Lognormal
Vinyl Chloride	MG/M3	0.00003	0.00006	0.0001	0.00005	0.00007	0.00007	Unknown
cis-1,2-Dichloroethene	MG/M3	0.0002	0.0004	0.0009	0.0004	0.0005	0.0005	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0003	0.0002	0.0009	0.0001	0.0004	0.0005	Unknown
m,p-Xylene	MG/M3	0.003	0.006	0.01	0.006	0.008	0.009	Unknown
o-Xylene	MG/M3	0.0010	0.002	0.004	0.002	0.003	0.003	Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0006	0.0006	0.002	0.0005	0.0010	0.0010	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000001	0.00000002	0.00000004	0.00000002	0.00000003	0.00000003	Normal/Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000002	0.00000002	0.00000005	0.00000001	0.00000002	0.00000003	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.000000006	0.000000009	0.00000002	0.000000008	0.00000001	0.00000001	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000002	0.00000002	0.00000007	0.00000001	0.00000003	0.00000003	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000006	0.000000005	0.00000002	0.000000003	0.000000008	0.00000001	Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.0000000007	0.0000000008	0.000000003	0.0000000006	0.000000001	0.000000001	Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.000000006	0.000000007	0.00000002	0.000000005	0.00000001	0.00000002	Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000001	0.000000001	0.000000004	0.0000000009	0.000000002	0.000000002	Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000002	0.000000003	0.000000010	0.000000002	0.000000004	0.000000005	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000001	0.000000002	0.000000005	0.000000001	0.000000002	0.000000003	Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000005	0.0000000005	0.000000002	0.0000000004	0.0000000007	0.0000000008	Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.0000000004	0.0000000005	0.000000002	0.0000000004	0.0000000007	0.0000000008	Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.000000001	0.000000001	0.000000005	0.000000001	0.000000002	0.000000002	Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.000000009	0.000000008	0.00000003	0.000000005	0.00000001	0.00000002	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000003	0.000000003	0.00000001	0.000000002	0.000000005	0.000000005	Lognormal

Location 3

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
2,3,7,8-TCDD	MG/M3	0.0000000001	0.0000000002	0.0000000005	0.0000000002	0.0000000003	0.0000000003	Normal/Lognormal
2,3,7,8-TCDF	MG/M3	0.0000000008	0.000000001	0.000000004	0.0000000008	0.000000001	0.000000001	Lognormal
Total HpCDD	MG/M3	0.00000001	0.00000002	0.00000004	0.00000001	0.00000002	0.00000003	Lognormal
Total HpCDF	MG/M3	0.00000004	0.00000004	0.0000002	0.00000003	0.00000006	0.00000008	Lognormal
Total HxCDD	MG/M3	0.00000001	0.00000002	0.00000006	0.00000001	0.00000002	0.00000003	Lognormal
Total HxCDF	MG/M3	0.00000004	0.00000004	0.0000002	0.00000003	0.00000006	0.00000007	Lognormal
Total PeCDD	MG/M3	0.000000005	0.000000007	0.00000002	0.000000006	0.00000001	0.00000001	Lognormal
Total PeCDF	MG/M3	0.00000005	0.00000004	0.0000002	0.00000003	0.00000006	0.00000007	Lognormal
Total TCDD	MG/M3	0.000000007	0.00000001	0.00000003	0.000000008	0.00000001	0.00000002	Lognormal
Total TCDF	MG/M3	0.00000007	0.00000006	0.0000003	0.00000004	0.00000009	0.00000008	Unknown
TSP								
Net_Mass	MG/M3	0.08	0.22	0.38	0.21	0.26	0.27	Normal/Lognormal

Location 4

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Hydrogen Chloride										
HCl	MG/M3	8	12.50	0.005	0.006	0.01	0.01	0.004	0.003	
Inorganics										
Ag	MG/M3	8	37.50	0.00001	0.00002	0.00002	0.00005	0.00002	0.000009	
As	MG/M3	8	100.00			0.000003	0.00002	0.00001	0.00001	
Be	MG/M3	8	25.00	0.0000010	0.000002	0.000003	0.000006	0.000002	0.0000007	0.0000005
Cd	MG/M3	8	100.00			0.000004	0.00009	0.00003	0.00002	
Cr	MG/M3	8	100.00			0.00001	0.0002	0.00006	0.00003	
Cu	MG/M3	8	100.00			0.00009	0.001	0.0005	0.0004	
Ni	MG/M3	8	100.00			0.00002	0.0001	0.00006	0.00005	
Pb	MG/M3	8	100.00			0.0001	0.002	0.0010	0.0008	
Sb	MG/M3	8	25.00	0.00010	0.0002	0.00010	0.0006	0.0001	0.00007	
Zn	MG/M3	8	100.00			0.0003	0.004	0.002	0.002	
Particulates										
PM10	MG/M3	8	100.00			0.10	0.58	0.24	0.15	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	8	75.00	0.0010	0.0010	0.0010	0.002	0.001	0.0010	0.0010
1,2,4-Trimethylbenzene	MG/M3	8	100.00			0.002	0.006	0.004	0.005	
1,2-Dichloroethane	MG/M3	8	12.50	0.0008	0.0008	0.0004	0.0004	0.0004	0.0004	0.0004
1,2-Dichloropropane	MG/M3	8	25.00	0.0009	0.0009	0.0005	0.02	0.002	0.0004	0.0004
1,3,5-Trimethylbenzene	MG/M3	8	75.00	0.0009	0.0009	0.0009	0.001	0.0010	0.001	0.0005
1,4-Dichlorobenzene	MG/M3	8	75.00	0.001	0.001	0.001	0.004	0.002	0.001	0.0006
4-Bromofluorobenzene	%	8	100.00			96.00	119.00	108.38	107.50	
Benzene	MG/M3	8	100.00			0.004	0.006	0.005	0.005	
Bromomethane	MG/M3	8	50.00	0.0006	0.0006	0.0007	0.002	0.0007	0.0005	0.0003
Carbon Tetrachloride	MG/M3	8	25.00	0.001	0.001	0.0006	0.0010	0.0007	0.0006	0.0006
Chlorobenzene	MG/M3	8	12.50	0.0009	0.0009	0.001	0.001	0.0005	0.0004	0.0004
Chloroethane	MG/M3	8	12.50	0.0005	0.0005	0.001	0.001	0.0004	0.0002	0.0002

Location 4

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Chloroform	MG/M3	8	100.00			0.0002	0.0007	0.0004	0.0004	
Chloromethane	MG/M3	8	100.00			0.001	0.004	0.002	0.002	
Ethyl Benzene	MG/M3	8	100.00			0.004	0.02	0.008	0.008	
Freon 11	MG/M3	8	100.00			0.002	0.003	0.002	0.002	
Freon 113	MG/M3	8	12.50	0.001	0.001	0.001	0.001	0.0008	0.0007	0.0007
Freon 12	MG/M3	8	100.00			0.003	0.008	0.005	0.005	0.003
Octafluorotoluene	%	8	100.00			84.00	100.00	92.75	93.50	84.00
Styrene	MG/M3	8	100.00			0.0008	0.004	0.002	0.002	
Tetrachloroethene	MG/M3	8	12.50	0.001	0.001	0.001	0.001	0.0007	0.0007	0.0007
Toluene	MG/M3	8	100.00			0.02	0.13	0.05	0.05	
Toluene-d8	%	8	100.00			84.00	114.00	100.63	102.50	
Trichloroethene	MG/M3	8	100.00			0.001	0.04	0.007	0.003	
Vinyl Chloride	MG/M3	8	25.00	0.00010	0.00010	0.0001	0.0002	0.00007	0.00005	0.00005
cis-1,2-Dichloroethene	MG/M3	8	12.50	0.0007	0.0007	0.001	0.001	0.0005	0.0004	0.0004
cis-1,3-Dichloropropene	MG/M3	8	37.50	0.0002	0.0002	0.0002	0.0006	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	8	100.00			0.005	0.02	0.01	0.01	0.005
o-Xylene	MG/M3	8	100.00			0.002	0.008	0.004	0.004	
trans-1,3-Dichloropropene	MG/M3	8	12.50	0.0008	0.0008	0.002	0.002	0.0006	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	8	100.00			0.000000006	0.00000007	0.00000003	0.00000002	
1,2,3,4,6,7,8,9-OCDF	MG/M3	8	100.00			0.000000006	0.00000007	0.00000002	0.00000002	
1,2,3,4,6,7,8-HpCDD	MG/M3	8	100.00			0.000000006	0.00000004	0.00000002	0.00000001	
1,2,3,4,6,7,8-HpCDF	MG/M3	8	100.00			0.000000010	0.00000007	0.00000003	0.00000002	
1,2,3,4,7,8,9-HpCDF	MG/M3	8	87.50	0.000000001	0.000000001	0.000000002	0.00000002	0.000000007	0.000000005	
1,2,3,4,7,8-HxCDD	MG/M3	8	87.50	0.000000002	0.000000002	0.0000000007	0.000000005	0.000000002	0.000000001	
1,2,3,4,7,8-HxCDF	MG/M3	8	100.00			0.000000006	0.00000004	0.00000002	0.00000002	
1,2,3,6,7,8-HxCDD	MG/M3	8	87.50	0.000000001	0.000000001	0.0000000010	0.000000007	0.000000003	0.000000003	
1,2,3,6,7,8-HxCDF	MG/M3	8	100.00			0.000000002	0.00000001	0.000000007	0.000000006	
1,2,3,7,8,9-HxCDD	MG/M3	8	100.00			0.000000001	0.00000001	0.000000005	0.000000003	

Location 4

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
1,2,3,7,8,9-HxCDF	MG/M3	8	87.50	0.000000001	0.000000001	0.0000000003	0.000000002	0.0000000009	0.0000000007	
1,2,3,7,8-PeCDD	MG/M3	8	62.50	0.0000000006	0.000000002	0.0000000006	0.000000004	0.000000002	0.000000001	
1,2,3,7,8-PeCDF	MG/M3	8	100.00			0.000000001	0.00000001	0.000000005	0.000000005	
2,3,4,6,7,8-HxCDF	MG/M3	8	100.00			0.000000004	0.00000004	0.00000002	0.00000001	
2,3,4,7,8-PeCDF	MG/M3	8	100.00			0.000000002	0.00000002	0.000000010	0.000000008	
2,3,7,8-TCDD	MG/M3	8	50.00	0.0000000003	0.000000001	0.0000000004	0.0000000009	0.0000000005	0.0000000005	
2,3,7,8-TCDF	MG/M3	8	100.00			0.000000002	0.000000008	0.000000004	0.000000004	
Total HpCDD	MG/M3	8	100.00			0.000000006	0.00000008	0.00000004	0.00000003	
Total HpCDF	MG/M3	8	100.00			0.00000002	0.0000002	0.00000006	0.00000004	
Total HxCDD	MG/M3	8	100.00			0.00000002	0.0000001	0.00000005	0.00000005	
Total HxCDF	MG/M3	8	100.00			0.00000002	0.0000002	0.00000010	0.00000008	
Total PeCDD	MG/M3	8	100.00			0.00000002	0.0000001	0.00000004	0.00000003	
Total PeCDF	MG/M3	8	100.00			0.00000003	0.0000003	0.0000001	0.0000001	
Total TCDD	MG/M3	8	100.00			0.00000002	0.00000009	0.00000004	0.00000003	
Total TCDF	MG/M3	8	100.00			0.00000008	0.0000005	0.0000002	0.0000002	
TSP										
Net_Mass	MG/M3	8	100.00			0.11	1.95	0.55	0.28	

Location 4

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Hydrogen Chloride								
HCl	MG/M3	0.004	0.004	0.01	0.004	0.007	0.007	Unknown
Inorganics								
Ag	MG/M3	0.00002	0.00002	0.00005	0.00001	0.00003	0.00005	Lognormal
As	MG/M3	0.000006	0.00001	0.00002	0.000009	0.00001	0.00002	Normal/Lognormal
Be	MG/M3	0.000002	0.000002	0.000006	0.000001	0.000003	0.000005	Unknown
Cd	MG/M3	0.00003	0.00003	0.00009	0.00002	0.00005	0.0002	Normal/Lognormal
Cr	MG/M3	0.00006	0.00006	0.0002	0.00004	0.00010	0.0002	Lognormal
Cu	MG/M3	0.0004	0.0005	0.001	0.0004	0.0008	0.002	Normal/Lognormal
Ni	MG/M3	0.00003	0.00006	0.0001	0.00005	0.00009	0.0001	Normal/Lognormal
Pb	MG/M3	0.0008	0.0010	0.002	0.0006	0.002	0.005	Normal/Lognormal
Sb	MG/M3	0.0002	0.0001	0.0006	0.00009	0.0003	0.0003	Unknown
Zn	MG/M3	0.001	0.002	0.004	0.001	0.003	0.007	Normal/Lognormal
Particulates								
PM10	MG/M3	0.19	0.24	0.58	0.19	0.37	0.50	Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0005	0.001	0.002	0.0010	0.001	0.002	Normal/Lognormal
1,2,4-Trimethylbenzene	MG/M3	0.001	0.004	0.006	0.004	0.005	0.006	Normal
1,2-Dichloroethane	MG/M3	0.000005	0.0004	0.0004	0.0004	0.0004	0.0004	Unknown
1,2-Dichloropropane	MG/M3	0.005	0.002	0.02	0.0007	0.006	0.01	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0003	0.0010	0.001	0.0009	0.001	0.001	Normal
1,4-Dichlorobenzene	MG/M3	0.001	0.002	0.004	0.002	0.003	0.005	Normal/Lognormal
4-Bromofluorobenzene	%	7.89	108.38	119.00	108.12	113.66	114.04	Normal/Lognormal
Benzene	MG/M3	0.0007	0.005	0.006	0.005	0.005	0.005	Normal/Lognormal
Bromomethane	MG/M3	0.0006	0.0007	0.002	0.0006	0.001	0.002	Normal
Carbon Tetrachloride	MG/M3	0.0001	0.0007	0.0010	0.0006	0.0007	0.0007	Unknown
Chlorobenzene	MG/M3	0.0003	0.0005	0.001	0.0005	0.0007	0.0007	Unknown
Chloroethane	MG/M3	0.0004	0.0004	0.001	0.0003	0.0006	0.0006	Unknown

Location 4

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Chloroform	MG/M3	0.0002	0.0004	0.0007	0.0004	0.0006	0.0007	Normal/Lognormal
Chloromethane	MG/M3	0.0009	0.002	0.004	0.002	0.003	0.003	Lognormal
Ethyl Benzene	MG/M3	0.004	0.008	0.02	0.007	0.01	0.01	Normal/Lognormal
Freon 11	MG/M3	0.0004	0.002	0.003	0.002	0.003	0.003	Normal/Lognormal
Freon 113	MG/M3	0.0002	0.0008	0.001	0.0008	0.0009	0.0009	Unknown
Freon 12	MG/M3	0.002	0.005	0.008	0.005	0.007	0.007	Normal/Lognormal
Octafluorotoluene	%	6.52	92.75	100.00	92.55	97.12	97.45	Normal/Lognormal
Styrene	MG/M3	0.0009	0.002	0.004	0.002	0.003	0.003	Normal/Lognormal
Tetrachloroethene	MG/M3	0.0002	0.0007	0.001	0.0007	0.0008	0.0008	Unknown
Toluene	MG/M3	0.04	0.05	0.13	0.04	0.08	0.11	Normal/Lognormal
Toluene-d8	%	10.65	100.63	114.00	100.12	107.76	108.61	Normal/Lognormal
Trichloroethene	MG/M3	0.01	0.007	0.04	0.004	0.02	0.02	Unknown
Vinyl Chloride	MG/M3	0.00005	0.00007	0.0002	0.00006	0.0001	0.0001	Unknown
cis-1,2-Dichloroethene	MG/M3	0.0004	0.0005	0.001	0.0004	0.0007	0.0007	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0002	0.0002	0.0006	0.0001	0.0003	0.0004	Unknown
m,p-Xylene	MG/M3	0.006	0.01	0.02	0.010	0.02	0.02	Normal/Lognormal
o-Xylene	MG/M3	0.002	0.004	0.008	0.004	0.006	0.007	Normal/Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0005	0.0006	0.002	0.0005	0.0009	0.0009	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000002	0.00000003	0.00000007	0.00000002	0.00000005	0.00000009	Normal/Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000002	0.00000002	0.00000007	0.00000001	0.00000003	0.00000007	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.00000001	0.00000002	0.00000004	0.00000001	0.00000003	0.00000005	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000002	0.00000003	0.00000007	0.00000003	0.00000005	0.00000007	Normal/Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000007	0.000000007	0.00000002	0.000000004	0.00000001	0.00000004	Normal/Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.000000002	0.000000002	0.000000005	0.000000002	0.000000003	0.000000005	Normal/Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.00000001	0.00000002	0.00000004	0.00000002	0.00000003	0.00000005	Normal/Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000002	0.000000003	0.000000007	0.000000002	0.000000005	0.000000009	Normal/Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000004	0.000000007	0.00000001	0.000000006	0.00000001	0.00000002	Normal/Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000004	0.000000005	0.00000001	0.000000004	0.000000007	0.00000001	Normal/Lognormal

Location 4

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000006	0.0000000009	0.000000002	0.0000000007	0.000000001	0.000000002	Normal/Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.000000001	0.000000002	0.000000004	0.000000001	0.000000003	0.000000006	Normal/Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.000000003	0.000000005	0.00000001	0.000000004	0.000000007	0.00000001	Normal/Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.00000001	0.00000002	0.00000004	0.00000001	0.00000002	0.00000004	Normal/Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000006	0.000000010	0.00000002	0.000000008	0.00000001	0.00000002	Normal/Lognormal
2,3,7,8-TCDD	MG/M3	0.0000000003	0.0000000005	0.0000000009	0.0000000004	0.0000000007	0.000000001	Normal/Lognormal
2,3,7,8-TCDF	MG/M3	0.000000003	0.000000004	0.000000008	0.000000004	0.000000006	0.000000009	Normal/Lognormal
Total HpCDD	MG/M3	0.00000003	0.00000004	0.00000008	0.00000003	0.00000006	0.0000001	Normal/Lognormal
Total HpCDF	MG/M3	0.00000005	0.00000006	0.0000002	0.00000005	0.00000009	0.0000001	Normal/Lognormal
Total HxCDD	MG/M3	0.00000004	0.00000005	0.0000001	0.00000004	0.00000008	0.0000001	Normal/Lognormal
Total HxCDF	MG/M3	0.00000006	0.00000010	0.0000002	0.00000008	0.0000001	0.0000002	Normal/Lognormal
Total PeCDD	MG/M3	0.00000004	0.00000004	0.0000001	0.00000003	0.00000007	0.0000001	Normal/Lognormal
Total PeCDF	MG/M3	0.00000008	0.0000001	0.0000003	0.0000001	0.0000002	0.0000003	Normal/Lognormal
Total TCDD	MG/M3	0.00000003	0.00000004	0.00000009	0.00000004	0.00000006	0.00000008	Normal/Lognormal
Total TCDF	MG/M3	0.0000001	0.0000002	0.0000005	0.0000002	0.0000003	0.0000005	Normal/Lognormal
TSP								
Net_Mass	MG/M3	0.63	0.55	1.95	0.34	0.97	2.12	Lognormal

Location 5

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	20	50.00	0.000003	0.00003	0.000004	0.00008	0.00002	0.000009	
As	MG/M3	20	100.00			0.000003	0.00004	0.000010	0.000006	0.000003
Be	MG/M3	20	30.00	0.0000003	0.000002	0.0000008	0.000003	0.0000007	0.0000005	0.0000002
Cd	MG/M3	20	100.00			0.000004	0.0003	0.00005	0.00002	
Cr	MG/M3	20	100.00			0.000007	0.0002	0.00004	0.00003	
Cu	MG/M3	20	100.00			0.00006	0.001	0.0006	0.0006	
Hg	MG/M3	20	5.00	0.0000003	0.000002	0.00000010	0.00000010	0.0000004	0.0000005	
Ni	MG/M3	20	100.00			0.000007	0.0005	0.00007	0.00005	
Pb	MG/M3	20	100.00			0.0002	0.003	0.001	0.0005	
Sb	MG/M3	20	40.00	0.00003	0.0002	0.00009	0.0004	0.0001	0.00006	
Se	MG/M3	20	10.00	0.00005	0.0005	0.0002	0.0004	0.0001	0.00009	
Zn	MG/M3	20	100.00			0.0004	0.006	0.002	0.001	
Particulates										
PM10	MG/M3	9	100.00			0.08	0.34	0.15	0.13	
Volatile/Semi-Volatile Organic										
Acetaldehyde	MG/M3	4	100.00			0.0001	0.002	0.0008	0.0006	
Acetone	MG/M3	4	75.00	0.0002	0.0002	0.0002	0.0009	0.0004	0.0002	
Benzaldehyde	MG/M3	4	100.00			0.0002	0.0009	0.0005	0.0005	
Formaldehyde	MG/M3	4	100.00			0.003	0.009	0.005	0.005	
Methyl Ethyl Ketone/Butyraldeh	MG/M3	4	75.00	0.0003	0.0003	0.0004	0.002	0.0008	0.0006	
Propanal	MG/M3	4	75.00	0.0002	0.0002	0.00010	0.0005	0.0002	0.0001	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	13	53.85	0.0010	0.0010	0.0009	0.002	0.0009	0.0009	0.0005
1,2,4-Trimethylbenzene	MG/M3	13	92.31	0.0007	0.0007	0.001	0.006	0.003	0.003	
1,2-Dichloroethane	MG/M3	13	38.46	0.0008	0.0008	0.0004	0.0010	0.0005	0.0004	0.0004
1,2-Dichloropropane	MG/M3	13	46.15	0.0009	0.0009	0.0003	0.004	0.0006	0.0004	
1,3,5-Trimethylbenzene	MG/M3	13	38.46	0.0009	0.0009	0.0009	0.001	0.0007	0.0005	0.0005
1,3-Dichlorobenzene	MG/M3	13	7.69	0.001	0.001	0.001	0.001	0.0006	0.0006	0.0006

Location 5

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
1,4-Dichlorobenzene	MG/M3	13	69.23	0.001	0.001	0.001	0.004	0.002	0.002	0.0006
4-Bromofluorobenzene	%	13	100.00			96.00	115.00	106.00	106.00	96.00
Benzene	MG/M3	13	100.00			0.003	0.008	0.006	0.005	
Bromomethane	MG/M3	13	69.23	0.0006	0.0006	0.0007	0.002	0.0010	0.0008	0.0003
Carbon Tetrachloride	MG/M3	13	38.46	0.001	0.001	0.0007	0.0010	0.0007	0.0006	0.0006
Chlorobenzene	MG/M3	13	7.69	0.0009	0.0009	0.001	0.001	0.0005	0.0004	0.0004
Chloroethane	MG/M3	13	7.69	0.0005	0.0005	0.002	0.002	0.0004	0.0002	0.0002
Chloroform	MG/M3	13	92.31	0.0002	0.0002	0.0002	0.002	0.0005	0.0004	
Chloromethane	MG/M3	13	100.00			0.002	0.005	0.002	0.002	0.002
Ethyl Benzene	MG/M3	13	100.00			0.002	0.01	0.006	0.006	
Freon 11	MG/M3	13	100.00			0.002	0.003	0.002	0.002	
Freon 113	MG/M3	13	7.69	0.001	0.001	0.002	0.002	0.0008	0.0007	0.0007
Freon 12	MG/M3	13	100.00			0.004	0.007	0.005	0.005	0.004
Octafluorotoluene	%	13	100.00			80.00	104.00	92.00	88.00	
Styrene	MG/M3	13	92.31	0.0008	0.0008	0.0008	0.003	0.002	0.002	
Tetrachloroethene	MG/M3	13	30.77	0.001	0.001	0.001	0.003	0.001	0.0007	0.0007
Toluene	MG/M3	13	100.00			0.008	0.08	0.03	0.03	
Toluene-d8	%	13	100.00			90.00	120.00	99.54	96.00	90.00
Trichloroethene	MG/M3	13	84.62	0.0010	0.0010	0.0010	0.007	0.003	0.003	0.0005
Vinyl Chloride	MG/M3	13	30.77	0.00010	0.00010	0.0001	0.0003	0.00009	0.00005	0.00005
cis-1,2-Dichloroethene	MG/M3	13	7.69	0.0007	0.0007	0.001	0.001	0.0004	0.0004	0.0004
cis-1,3-Dichloropropene	MG/M3	13	38.46	0.0002	0.0002	0.0002	0.0009	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	13	100.00			0.002	0.01	0.008	0.007	
o-Xylene	MG/M3	13	92.31	0.0006	0.0006	0.002	0.005	0.003	0.003	
trans-1,3-Dichloropropene	MG/M3	13	30.77	0.0008	0.0008	0.002	0.002	0.0009	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	20	100.00			0.000000002	0.00000008	0.00000003	0.00000002	
1,2,3,4,6,7,8,9-OCDF	MG/M3	20	95.00	0.000000002	0.000000002	0.000000002	0.00000006	0.00000002	0.00000001	

Location 5

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
1,2,3,4,6,7,8-HpCDD	MG/M3	20	100.00			0.000000001	0.00000004	0.00000001	0.000000008	
1,2,3,4,6,7,8-HpCDF	MG/M3	20	100.00			0.000000003	0.00000007	0.00000002	0.00000001	
1,2,3,4,7,8,9-HpCDF	MG/M3	20	90.00	0.0000000003	0.000000001	0.000000001	0.00000002	0.000000005	0.000000003	
1,2,3,4,7,8-HxCDD	MG/M3	20	85.00	0.0000000003	0.0000000009	0.0000000004	0.000000005	0.000000001	0.0000000008	
1,2,3,4,7,8-HxCDF	MG/M3	20	100.00			0.000000002	0.00000004	0.00000001	0.000000008	
1,2,3,6,7,8-HxCDD	MG/M3	20	90.00	0.0000000007	0.0000000008	0.0000000005	0.000000008	0.000000002	0.000000001	
1,2,3,6,7,8-HxCDF	MG/M3	20	100.00			0.0000000008	0.00000001	0.000000004	0.000000003	
1,2,3,7,8,9-HxCDD	MG/M3	20	90.00	0.0000000008	0.0000000008	0.0000000008	0.00000001	0.000000003	0.000000002	
1,2,3,7,8,9-HxCDF	MG/M3	20	70.00	0.0000000001	0.000000002	0.0000000002	0.000000002	0.0000000005	0.0000000004	
1,2,3,7,8-PeCDD	MG/M3	20	75.00	0.0000000001	0.0000000007	0.0000000003	0.000000005	0.000000001	0.0000000007	
1,2,3,7,8-PeCDF	MG/M3	20	100.00			0.0000000006	0.00000001	0.000000003	0.000000002	
2,3,4,6,7,8-HxCDF	MG/M3	20	100.00			0.000000002	0.00000004	0.000000010	0.000000006	
2,3,4,7,8-PeCDF	MG/M3	20	100.00			0.0000000009	0.00000002	0.000000006	0.000000004	
2,3,7,8-TCDD	MG/M3	20	55.00	0.0000000000	0.0000000009	0.0000000000	0.000000001	0.0000000003	0.0000000002	
2,3,7,8-TCDF	MG/M3	20	95.00	0.000000001	0.000000001	0.0000000005	0.00000001	0.000000003	0.000000001	
Total HpCDD	MG/M3	20	100.00			0.000000001	0.00000010	0.00000003	0.00000002	
Total HpCDF	MG/M3	20	100.00			0.000000006	0.0000002	0.00000004	0.00000003	
Total HxCDD	MG/M3	20	100.00			0.000000005	0.0000001	0.00000003	0.00000002	
Total HxCDF	MG/M3	20	100.00			0.000000009	0.0000002	0.00000006	0.00000004	
Total PeCDD	MG/M3	20	100.00			0.000000001	0.0000001	0.00000003	0.00000001	
Total PeCDF	MG/M3	20	100.00			0.00000001	0.0000003	0.00000009	0.00000005	
Total TCDD	MG/M3	20	100.00			0.000000004	0.0000002	0.00000003	0.00000001	
Total TCDF	MG/M3	20	100.00			0.00000002	0.0000005	0.0000001	0.00000006	
TSP										
Net_Mass	MG/M3	20	100.00			0.07	0.54	0.23	0.21	

Location 5

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.00002	0.00002	0.00008	0.00001	0.00003	0.00003	Lognormal
As	MG/M3	0.000009	0.000010	0.00004	0.000007	0.00001	0.00001	Lognormal
Be	MG/M3	0.0000005	0.0000007	0.000003	0.0000005	0.0000009	0.000001	Lognormal
Cd	MG/M3	0.00008	0.00005	0.0003	0.00002	0.00009	0.0001	Lognormal
Cr	MG/M3	0.00005	0.00004	0.0002	0.00003	0.00006	0.00006	Lognormal
Cu	MG/M3	0.0004	0.0006	0.001	0.0005	0.0008	0.001	Normal/Lognormal
Hg	MG/M3	0.0000002	0.00000010	0.00000010	0.0000003	0.0000005	0.0000005	Unknown
Ni	MG/M3	0.0001	0.00007	0.0005	0.00005	0.0001	0.0001	Lognormal
Pb	MG/M3	0.001	0.001	0.003	0.0006	0.001	0.002	Lognormal
Sb	MG/M3	0.0001	0.0001	0.0004	0.00007	0.0002	0.0002	Lognormal
Se	MG/M3	0.00009	0.0001	0.0004	0.00009	0.0002	0.0002	Unknown
Zn	MG/M3	0.002	0.002	0.006	0.001	0.003	0.003	Lognormal
Particulates								
PM10	MG/M3	0.08	0.15	0.34	0.13	0.20	0.21	Lognormal
Volatile/Semi-Volatile Organic								
Acetaldehyde	MG/M3	0.0007	0.0008	0.002	0.0005	0.002	0.13	Normal/Lognormal
Acetone	MG/M3	0.0004	0.0004	0.0009	0.0003	0.0008	0.007	Normal/Lognormal
Benzaldehyde	MG/M3	0.0003	0.0005	0.0009	0.0004	0.0008	0.003	Normal/Lognormal
Formaldehyde	MG/M3	0.003	0.005	0.009	0.005	0.009	0.02	Normal/Lognormal
Methyl Ethyl Ketone/Butyraldeh	MG/M3	0.0007	0.0008	0.002	0.0006	0.002	0.08	Normal/Lognormal
Propanal	MG/M3	0.0002	0.0002	0.0005	0.0002	0.0004	0.002	Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0005	0.0009	0.002	0.0008	0.001	0.001	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.002	0.003	0.006	0.003	0.004	0.007	Normal
1,2-Dichloroethane	MG/M3	0.0002	0.0005	0.0010	0.0004	0.0005	0.0005	Unknown
1,2-Dichloropropane	MG/M3	0.0009	0.0006	0.004	0.0005	0.001	0.0009	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0004	0.0007	0.001	0.0006	0.0009	0.0010	Unknown
1,3-Dichlorobenzene	MG/M3	0.0002	0.0006	0.001	0.0006	0.0007	0.0007	Unknown

Location 5

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
1,4-Dichlorobenzene	MG/M3	0.002	0.002	0.004	0.002	0.003	0.005	Unknown
4-Bromofluorobenzene	%	6.38	106.00	115.00	105.82	109.15	109.31	Normal/Lognormal
Benzene	MG/M3	0.002	0.006	0.008	0.005	0.006	0.007	Normal/Lognormal
Bromomethane	MG/M3	0.0007	0.0010	0.002	0.0007	0.001	0.002	Normal/Lognormal
Carbon Tetrachloride	MG/M3	0.0001	0.0007	0.0010	0.0007	0.0007	0.0007	Unknown
Chlorobenzene	MG/M3	0.0002	0.0005	0.001	0.0005	0.0006	0.0006	Unknown
Chloroethane	MG/M3	0.0004	0.0004	0.002	0.0003	0.0006	0.0005	Unknown
Chloroform	MG/M3	0.0006	0.0005	0.002	0.0004	0.0008	0.001	Lognormal
Chloromethane	MG/M3	0.001	0.002	0.005	0.002	0.003	0.003	Unknown
Ethyl Benzene	MG/M3	0.003	0.006	0.01	0.005	0.008	0.009	Normal/Lognormal
Freon 11	MG/M3	0.0005	0.002	0.003	0.002	0.002	0.002	Unknown
Freon 113	MG/M3	0.0002	0.0008	0.002	0.0007	0.0009	0.0009	Unknown
Freon 12	MG/M3	0.001	0.005	0.007	0.005	0.006	0.006	Normal/Lognormal
Octafluorotoluene	%	8.50	92.00	104.00	91.64	96.20	96.44	Normal/Lognormal
Styrene	MG/M3	0.0009	0.002	0.003	0.002	0.002	0.003	Normal/Lognormal
Tetrachloroethene	MG/M3	0.0006	0.001	0.003	0.0009	0.001	0.001	Unknown
Toluene	MG/M3	0.02	0.03	0.08	0.03	0.04	0.05	Normal/Lognormal
Toluene-d8	%	9.88	99.54	120.00	99.10	104.42	104.59	Normal/Lognormal
Trichloroethene	MG/M3	0.002	0.003	0.007	0.002	0.004	0.005	Normal/Lognormal
Vinyl Chloride	MG/M3	0.00008	0.00009	0.0003	0.00007	0.0001	0.0001	Unknown
cis-1,2-Dichloroethene	MG/M3	0.0002	0.0004	0.001	0.0004	0.0005	0.0005	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0002	0.0002	0.0009	0.0001	0.0003	0.0003	Unknown
m,p-Xylene	MG/M3	0.004	0.008	0.01	0.007	0.010	0.01	Normal/Lognormal
o-Xylene	MG/M3	0.001	0.003	0.005	0.002	0.004	0.006	Normal
trans-1,3-Dichloropropene	MG/M3	0.0008	0.0009	0.002	0.0007	0.001	0.002	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000002	0.00000003	0.00000008	0.00000002	0.00000003	0.00000005	Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000001	0.00000002	0.00000006	0.00000001	0.00000002	0.00000003	Lognormal

Location 5

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
1,2,3,4,6,7,8-HpCDD	MG/M3	0.00000001	0.00000001	0.00000004	0.000000009	0.00000002	0.00000002	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000002	0.00000002	0.00000007	0.00000002	0.00000003	0.00000004	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000004	0.000000005	0.00000002	0.000000003	0.000000006	0.00000001	Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.000000001	0.000000001	0.000000005	0.0000000009	0.000000002	0.000000002	Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.00000001	0.00000001	0.00000004	0.000000009	0.00000002	0.00000002	Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000002	0.000000002	0.000000008	0.000000001	0.000000003	0.000000003	Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000004	0.000000004	0.00000001	0.000000003	0.000000006	0.000000007	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000003	0.000000003	0.00000001	0.000000002	0.000000004	0.000000006	Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000004	0.0000000005	0.000000002	0.0000000004	0.0000000007	0.0000000009	Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.000000001	0.000000001	0.000000005	0.0000000007	0.000000002	0.000000003	Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.000000003	0.000000003	0.00000001	0.000000002	0.000000004	0.000000005	Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.000000009	0.000000010	0.00000004	0.000000007	0.00000001	0.00000002	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000006	0.000000006	0.00000002	0.000000004	0.000000009	0.00000001	Lognormal
2,3,7,8-TCDD	MG/M3	0.0000000003	0.0000000003	0.000000001	0.0000000002	0.0000000004	0.0000000006	Lognormal
2,3,7,8-TCDF	MG/M3	0.000000003	0.000000003	0.00000001	0.000000002	0.000000004	0.000000005	Lognormal
Total HpCDD	MG/M3	0.00000002	0.00000003	0.00000010	0.00000002	0.00000004	0.00000005	Lognormal
Total HpCDF	MG/M3	0.00000004	0.00000004	0.0000002	0.00000003	0.00000006	0.00000007	Lognormal
Total HxCDD	MG/M3	0.00000004	0.00000003	0.0000001	0.00000002	0.00000005	0.00000006	Lognormal
Total HxCDF	MG/M3	0.00000006	0.00000006	0.0000002	0.00000004	0.00000008	0.0000001	Lognormal
Total PeCDD	MG/M3	0.00000004	0.00000003	0.0000001	0.00000001	0.00000004	0.00000006	Lognormal
Total PeCDF	MG/M3	0.00000009	0.00000009	0.0000003	0.00000005	0.0000001	0.0000002	Lognormal
Total TCDD	MG/M3	0.00000004	0.00000003	0.0000002	0.00000002	0.00000005	0.00000007	Unknown
Total TCDF	MG/M3	0.0000001	0.0000001	0.0000005	0.00000008	0.0000002	0.0000003	Unknown
TSP								
Net_Mass	MG/M3	0.12	0.23	0.54	0.21	0.28	0.29	Normal/Lognormal

Location 6

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Hydrogen Chloride										
HCl	MG/M3	7	14.29	0.005	0.006	0.007	0.007	0.003	0.003	
Inorganics										
Ag	MG/M3	8	12.50	0.00001	0.00002	0.00002	0.00002	0.000009	0.000008	
As	MG/M3	8	75.00	0.000002	0.000003	0.000002	0.00001	0.000006	0.000006	
Cd	MG/M3	8	100.00			0.000001	0.000005	0.000003	0.000002	
Cr	MG/M3	8	100.00			0.00001	0.00002	0.00002	0.00002	
Cu	MG/M3	8	100.00			0.0001	0.0004	0.0002	0.0002	
Ni	MG/M3	8	62.50	0.00002	0.00003	0.00002	0.00004	0.00003	0.00003	
Pb	MG/M3	8	100.00			0.00005	0.0002	0.0001	0.00009	
Sb	MG/M3	8	62.50	0.0001	0.0001	0.0001	0.0006	0.0002	0.0001	
Se	MG/M3	8	12.50	0.0002	0.0003	0.0004	0.0004	0.0002	0.0001	
Zn	MG/M3	8	100.00			0.0002	0.0010	0.0004	0.0003	
Particulates										
PM10	MG/M3	8	100.00			0.08	0.17	0.11	0.11	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	8	25.00	0.0010	0.0010	0.0010	0.001	0.0006	0.0005	0.0005
1,2,4-Trimethylbenzene	MG/M3	8	100.00			0.001	0.007	0.004	0.004	
1,2-Dichloroethane	MG/M3	8	25.00	0.0008	0.0008	0.0004	0.0010	0.0005	0.0004	0.0004
1,2-Dichloropropane	MG/M3	8	25.00	0.0009	0.0009	0.0006	0.002	0.0006	0.0004	0.0004
1,3,5-Trimethylbenzene	MG/M3	8	37.50	0.0009	0.0009	0.0010	0.002	0.0008	0.0005	0.0005
1,3-Dichlorobenzene	MG/M3	8	12.50	0.001	0.001	0.002	0.002	0.0007	0.0006	0.0006
1,4-Dichlorobenzene	MG/M3	8	87.50	0.001	0.001	0.001	0.004	0.002	0.001	
4-Bromofluorobenzene	%	8	100.00			90.00	125.00	107.00	107.00	
Benzene	MG/M3	8	100.00			0.002	0.006	0.004	0.004	
Bromomethane	MG/M3	8	62.50	0.0006	0.0006	0.0008	0.002	0.001	0.0008	0.0003
Carbon Tetrachloride	MG/M3	8	12.50	0.001	0.001	0.0007	0.0007	0.0006	0.0006	0.0006
Chloroethane	MG/M3	8	12.50	0.0005	0.0005	0.002	0.002	0.0005	0.0002	0.0002

Location 6

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Chloroform	MG/M3	8	75.00	0.0002	0.0002	0.0002	0.003	0.0006	0.0003	0.00009
Chloromethane	MG/M3	8	100.00			0.001	0.007	0.002	0.002	
Ethyl Benzene	MG/M3	8	100.00			0.003	0.02	0.008	0.006	
Freon 11	MG/M3	8	100.00			0.002	0.002	0.002	0.002	0.002
Freon 12	MG/M3	8	100.00			0.003	0.007	0.005	0.004	0.003
Octafluorotoluene	%	8	100.00			82.00	105.00	92.88	91.00	
Styrene	MG/M3	8	75.00	0.0008	0.0008	0.0009	0.005	0.002	0.001	0.0004
Toluene	MG/M3	8	100.00			0.01	0.09	0.04	0.03	0.01
Toluene-d8	%	8	100.00			90.00	103.00	96.88	98.50	90.00
Trichloroethene	MG/M3	8	50.00	0.0010	0.0010	0.001	0.004	0.001	0.0009	0.0005
Vinyl Chloride	MG/M3	8	25.00	0.00010	0.00010	0.0001	0.0004	0.0001	0.00005	0.00005
cis-1,2-Dichloroethene	MG/M3	8	12.50	0.0007	0.0007	0.0009	0.0009	0.0004	0.0004	0.0004
cis-1,3-Dichloropropene	MG/M3	8	62.50	0.0002	0.0002	0.0002	0.0005	0.0002	0.0002	0.00009
m,p-Xylene	MG/M3	8	100.00			0.003	0.03	0.01	0.007	
o-Xylene	MG/M3	8	100.00			0.002	0.010	0.004	0.003	
trans-1,3-Dichloropropene	MG/M3	8	50.00	0.0008	0.0008	0.001	0.002	0.001	0.0008	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	8	100.00			0.000000004	0.00000005	0.00000002	0.000000009	
1,2,3,4,6,7,8,9-OCDF	MG/M3	8	100.00			0.000000003	0.00000009	0.00000002	0.00000001	
1,2,3,4,6,7,8-HpCDD	MG/M3	8	100.00			0.000000002	0.00000003	0.000000009	0.000000005	
1,2,3,4,6,7,8-HpCDF	MG/M3	8	100.00			0.000000004	0.00000009	0.00000002	0.00000001	
1,2,3,4,7,8,9-HpCDF	MG/M3	8	87.50	0.000000001	0.000000001	0.0000000008	0.00000003	0.000000007	0.000000004	
1,2,3,4,7,8-HxCDD	MG/M3	8	37.50	0.0000000003	0.000000001	0.0000000006	0.000000002	0.0000000008	0.0000000005	
1,2,3,4,7,8-HxCDF	MG/M3	8	100.00			0.000000001	0.00000003	0.000000009	0.000000005	
1,2,3,6,7,8-HxCDD	MG/M3	8	62.50	0.0000000003	0.000000001	0.0000000006	0.000000004	0.000000001	0.0000000008	
1,2,3,6,7,8-HxCDF	MG/M3	8	100.00			0.0000000006	0.000000010	0.000000003	0.000000002	
1,2,3,7,8,9-HxCDD	MG/M3	8	62.50	0.0000000003	0.000000001	0.0000000007	0.000000005	0.000000002	0.0000000010	
1,2,3,7,8,9-HxCDF	MG/M3	8	62.50	0.0000000002	0.000000001	0.0000000002	0.000000002	0.0000000006	0.0000000005	

Location 6

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
1,2,3,7,8-PeCDD	MG/M3	8	12.50	0.0000000003	0.000000002	0.000000001	0.000000001	0.0000000006	0.0000000004	
1,2,3,7,8-PeCDF	MG/M3	8	75.00	0.0000000002	0.0000000008	0.0000000006	0.000000002	0.000000001	0.0000000007	
2,3,4,6,7,8-HxCDF	MG/M3	8	100.00			0.000000002	0.00000005	0.00000001	0.000000006	
2,3,4,7,8-PeCDF	MG/M3	8	100.00			0.0000000007	0.00000001	0.000000004	0.000000002	
2,3,7,8-TCDF	MG/M3	8	75.00	0.0000000004	0.000000002	0.0000000004	0.000000003	0.0000000010	0.0000000006	
Total HpCDD	MG/M3	8	100.00			0.000000002	0.00000005	0.00000002	0.000000008	
Total HpCDF	MG/M3	8	100.00			0.000000004	0.0000002	0.00000004	0.00000002	
Total HxCDD	MG/M3	8	100.00			0.0000000009	0.00000004	0.00000001	0.00000001	
Total HxCDF	MG/M3	8	100.00			0.000000006	0.0000002	0.00000006	0.00000003	
Total PeCDD	MG/M3	8	100.00			0.000000001	0.00000001	0.000000005	0.000000003	
Total PeCDF	MG/M3	8	100.00			0.000000005	0.0000002	0.00000005	0.00000002	
Total TCDD	MG/M3	8	100.00			0.000000001	0.00000003	0.000000008	0.000000005	
Total TCDF	MG/M3	8	100.00			0.00000002	0.0000003	0.00000008	0.00000002	
TSP										
Net_Mass	MG/M3	8	100.00			0.10	0.21	0.15	0.14	

Location 6

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Hydrogen Chloride								
HCl	MG/M3	0.002	0.003	0.007	0.003	0.005	0.005	Unknown
Inorganics								
Ag	MG/M3	0.000003	0.000009	0.00002	0.000008	0.00001	0.00001	Lognormal
As	MG/M3	0.000005	0.000006	0.00001	0.000004	0.000009	0.00002	Normal/Lognormal
Cd	MG/M3	0.000001	0.000003	0.000005	0.000002	0.000004	0.000004	Normal/Lognormal
Cr	MG/M3	0.000004	0.00002	0.00002	0.00002	0.00002	0.00002	Normal/Lognormal
Cu	MG/M3	0.00009	0.0002	0.0004	0.0002	0.0002	0.0003	Lognormal
Ni	MG/M3	0.00001	0.00003	0.00004	0.00002	0.00003	0.00005	Normal/Lognormal
Pb	MG/M3	0.00006	0.0001	0.0002	0.0001	0.0002	0.0002	Normal/Lognormal
Sb	MG/M3	0.0002	0.0002	0.0006	0.0001	0.0003	0.0004	Lognormal
Se	MG/M3	0.00009	0.0002	0.0004	0.0001	0.0002	0.0002	Unknown
Zn	MG/M3	0.0002	0.0004	0.0010	0.0003	0.0005	0.0006	Lognormal
Particulates								
PM10	MG/M3	0.03	0.11	0.17	0.11	0.13	0.14	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0003	0.0006	0.001	0.0006	0.0008	0.0008	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.002	0.004	0.007	0.003	0.005	0.008	Normal/Lognormal
1,2-Dichloroethane	MG/M3	0.0002	0.0005	0.0010	0.0004	0.0006	0.0006	Unknown
1,2-Dichloropropane	MG/M3	0.0005	0.0006	0.002	0.0005	0.0009	0.0009	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0005	0.0008	0.002	0.0007	0.001	0.001	Unknown
1,3-Dichlorobenzene	MG/M3	0.0004	0.0007	0.002	0.0006	0.0009	0.0009	Unknown
1,4-Dichlorobenzene	MG/M3	0.001	0.002	0.004	0.002	0.003	0.004	Normal/Lognormal
4-Bromofluorobenzene	%	13.26	107.00	125.00	106.29	115.88	116.89	Normal/Lognormal
Benzene	MG/M3	0.001	0.004	0.006	0.004	0.005	0.005	Normal/Lognormal
Bromomethane	MG/M3	0.0008	0.001	0.002	0.0007	0.002	0.003	Normal/Lognormal
Carbon Tetrachloride	MG/M3	0.00004	0.0006	0.0007	0.0006	0.0006	0.0006	Unknown
Chloroethane	MG/M3	0.0006	0.0005	0.002	0.0003	0.0009	0.0009	Unknown

Location 6

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Chloroform	MG/M3	0.001	0.0006	0.003	0.0003	0.001	0.003	Lognormal
Chloromethane	MG/M3	0.002	0.002	0.007	0.002	0.004	0.004	Unknown
Ethyl Benzene	MG/M3	0.006	0.008	0.02	0.007	0.01	0.02	Normal/Lognormal
Freon 11	MG/M3	0.0002	0.002	0.002	0.002	0.002	0.002	Normal/Lognormal
Freon 12	MG/M3	0.001	0.005	0.007	0.004	0.005	0.006	Lognormal
Octafluorotoluene	%	9.25	92.88	105.00	92.47	99.07	99.60	Normal/Lognormal
Styrene	MG/M3	0.001	0.002	0.005	0.001	0.003	0.004	Lognormal
Toluene	MG/M3	0.02	0.04	0.09	0.03	0.05	0.09	Normal/Lognormal
Toluene-d8	%	5.46	96.88	103.00	96.74	100.53	100.75	Normal/Lognormal
Trichloroethene	MG/M3	0.001	0.001	0.004	0.0010	0.002	0.003	Lognormal
Vinyl Chloride	MG/M3	0.0001	0.0001	0.0004	0.00007	0.0002	0.0002	Unknown
cis-1,2-Dichloroethene	MG/M3	0.0002	0.0004	0.0009	0.0004	0.0006	0.0006	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0001	0.0002	0.0005	0.0002	0.0003	0.0003	Lognormal
m,p-Xylene	MG/M3	0.007	0.01	0.03	0.008	0.02	0.02	Lognormal
o-Xylene	MG/M3	0.003	0.004	0.010	0.003	0.006	0.007	Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0007	0.001	0.002	0.0008	0.002	0.002	Normal
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000001	0.00000002	0.00000005	0.00000001	0.00000003	0.00000005	Normal/Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000003	0.00000002	0.00000009	0.00000001	0.00000004	0.0000001	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.000000009	0.000000009	0.00000003	0.000000006	0.00000001	0.00000003	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000003	0.00000002	0.00000009	0.00000001	0.00000004	0.0000001	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000009	0.000000007	0.00000003	0.000000003	0.00000001	0.00000006	Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.0000000006	0.0000000008	0.000000002	0.0000000006	0.000000001	0.000000002	Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.00000001	0.000000009	0.00000003	0.000000005	0.00000002	0.00000004	Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000001	0.000000001	0.000000004	0.0000000008	0.000000002	0.000000005	Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000003	0.000000003	0.000000010	0.000000002	0.000000005	0.00000001	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000002	0.000000002	0.000000005	0.0000000009	0.000000003	0.000000008	Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000005	0.0000000006	0.000000002	0.0000000005	0.0000000009	0.000000002	Normal/Lognormal

Location 6

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
1,2,3,7,8-PeCDD	MG/M3	0.0000000004	0.0000000006	0.000000001	0.0000000004	0.0000000008	0.000000001	Normal/Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.0000000009	0.000000001	0.000000002	0.0000000008	0.000000002	0.000000006	Normal/Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.00000002	0.00000001	0.00000005	0.000000006	0.00000002	0.00000006	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000004	0.000000004	0.00000001	0.000000003	0.000000007	0.00000002	Lognormal
2,3,7,8-TCDF	MG/M3	0.000000001	0.0000000010	0.000000003	0.0000000007	0.000000002	0.000000003	Lognormal
Total HpCDD	MG/M3	0.00000002	0.00000002	0.00000005	0.000000009	0.00000003	0.00000009	Lognormal
Total HpCDF	MG/M3	0.00000005	0.00000004	0.0000002	0.00000002	0.00000008	0.0000004	Lognormal
Total HxCDD	MG/M3	0.00000001	0.00000001	0.00000004	0.000000008	0.00000002	0.0000001	Normal/Lognormal
Total HxCDF	MG/M3	0.00000007	0.00000006	0.0000002	0.00000003	0.0000001	0.0000004	Lognormal
Total PeCDD	MG/M3	0.000000004	0.000000005	0.00000001	0.000000003	0.000000008	0.00000002	Normal/Lognormal
Total PeCDF	MG/M3	0.00000006	0.00000005	0.0000002	0.00000003	0.00000009	0.0000006	Normal/Lognormal
Total TCDD	MG/M3	0.000000009	0.000000008	0.00000003	0.000000005	0.00000001	0.00000004	Lognormal
Total TCDF	MG/M3	0.0000001	0.00000008	0.0000003	0.00000004	0.0000001	0.0000004	Lognormal
TSP								
Net_Mass	MG/M3	0.05	0.15	0.21	0.14	0.18	0.19	Normal/Lognormal

Location 7

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	10	10.00	0.00001	0.00002	0.00001	0.00001	0.000008	0.000007	
As	MG/M3	10	80.00	0.000002	0.000003	0.000002	0.00001	0.000006	0.000003	
Cd	MG/M3	10	100.00			0.000002	0.00003	0.000006	0.000004	
Cr	MG/M3	10	100.00			0.000009	0.00002	0.00002	0.00002	
Cu	MG/M3	10	100.00			0.00007	0.0005	0.0002	0.0002	
Ni	MG/M3	10	90.00	0.00003	0.00003	0.00002	0.00004	0.00003	0.00003	
Pb	MG/M3	10	100.00			0.00006	0.002	0.0003	0.00010	
Sb	MG/M3	10	20.00	0.00009	0.0001	0.0001	0.0002	0.00008	0.00006	
Se	MG/M3	10	10.00	0.0002	0.0003	0.0003	0.0003	0.0001	0.0001	
Zn	MG/M3	10	100.00			0.0002	0.002	0.0005	0.0004	
Particulates										
PM10	MG/M3	8	100.00			0.06	0.16	0.10	0.10	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	8	50.00	0.0010	0.0010	0.0010	0.001	0.0008	0.0007	0.0005
1,2,4-Trimethylbenzene	MG/M3	8	100.00			0.002	0.004	0.003	0.003	
1,2-Dichloroethane	MG/M3	8	25.00	0.0008	0.0008	0.0004	0.0007	0.0004	0.0004	0.0004
1,2-Dichloropropane	MG/M3	8	25.00	0.0009	0.0009	0.0008	0.001	0.0006	0.0004	0.0004
1,3,5-Trimethylbenzene	MG/M3	8	25.00	0.0009	0.0009	0.0010	0.0010	0.0006	0.0005	0.0005
1,4-Dichlorobenzene	MG/M3	8	50.00	0.001	0.001	0.002	0.005	0.002	0.001	0.0006
4-Bromofluorobenzene	%	8	100.00			93.00	121.00	105.88	104.00	
Benzene	MG/M3	8	100.00			0.002	0.007	0.004	0.004	
Bromomethane	MG/M3	8	50.00	0.0006	0.0006	0.0008	0.002	0.0007	0.0005	0.0003
Carbon Tetrachloride	MG/M3	8	25.00	0.001	0.001	0.0006	0.001	0.0007	0.0006	0.0006
Chloroethane	MG/M3	8	12.50	0.0005	0.0005	0.01	0.01	0.002	0.0002	0.0002
Chloroform	MG/M3	8	50.00	0.0002	0.0002	0.0002	0.0004	0.0002	0.0002	0.00009
Chloromethane	MG/M3	8	100.00			0.001	0.003	0.002	0.002	
Ethyl Benzene	MG/M3	8	100.00			0.002	0.01	0.006	0.006	
Freon 11	MG/M3	8	100.00			0.002	0.003	0.002	0.002	

Location 7

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Freon 113	MG/M3	8	12.50	0.001	0.001	0.002	0.002	0.0008	0.0007	0.0007
Freon 12	MG/M3	8	100.00			0.003	0.008	0.005	0.005	
Octafluorotoluene	%	8	100.00			84.00	103.00	93.88	95.50	84.00
Styrene	MG/M3	8	62.50	0.0008	0.0008	0.001	0.004	0.002	0.001	0.0004
Tetrachloroethene	MG/M3	8	12.50	0.001	0.001	0.007	0.007	0.001	0.0007	0.0007
Toluene	MG/M3	8	100.00			0.02	0.06	0.03	0.04	
Toluene-d8	%	8	100.00			90.00	107.00	98.50	101.00	90.00
Trichloroethene	MG/M3	8	50.00	0.0010	0.0010	0.0010	0.004	0.001	0.0008	0.0005
Vinyl Chloride	MG/M3	8	25.00	0.00010	0.00010	0.00010	0.0001	0.00006	0.00005	0.00005
cis-1,2-Dichloroethene	MG/M3	8	12.50	0.0007	0.0007	0.001	0.001	0.0005	0.0004	0.0004
cis-1,3-Dichloropropene	MG/M3	8	37.50	0.0002	0.0002	0.0002	0.0007	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	8	100.00			0.003	0.01	0.008	0.008	
o-Xylene	MG/M3	8	100.00			0.001	0.004	0.003	0.003	
trans-1,3-Dichloropropene	MG/M3	8	50.00	0.0008	0.0008	0.0008	0.001	0.0007	0.0006	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	10	100.00			0.000000004	0.00000005	0.00000002	0.00000001	
1,2,3,4,6,7,8,9-OCDF	MG/M3	10	90.00	0.0000000009	0.0000000009	0.000000002	0.00000009	0.00000002	0.000000007	
1,2,3,4,6,7,8-HpCDD	MG/M3	10	100.00			0.000000002	0.00000003	0.000000009	0.000000004	
1,2,3,4,6,7,8-HpCDF	MG/M3	10	100.00			0.000000001	0.00000010	0.00000002	0.000000008	
1,2,3,4,7,8,9-HpCDF	MG/M3	10	70.00	0.000000001	0.000000002	0.0000000009	0.00000003	0.000000006	0.000000001	
1,2,3,4,7,8-HxCDD	MG/M3	10	40.00	0.0000000001	0.000000002	0.0000000005	0.000000002	0.0000000009	0.0000000008	
1,2,3,4,7,8-HxCDF	MG/M3	10	100.00			0.000000002	0.00000003	0.000000010	0.000000004	
1,2,3,6,7,8-HxCDD	MG/M3	10	50.00	0.0000000000	0.000000002	0.0000000003	0.000000004	0.000000001	0.0000000007	
1,2,3,6,7,8-HxCDF	MG/M3	10	100.00			0.0000000005	0.00000001	0.000000004	0.000000002	
1,2,3,7,8,9-HxCDD	MG/M3	10	50.00	0.0000000000	0.000000002	0.0000000005	0.000000006	0.000000002	0.0000000008	
1,2,3,7,8,9-HxCDF	MG/M3	10	40.00	0.0000000003	0.000000002	0.0000000001	0.000000002	0.0000000007	0.0000000006	
1,2,3,7,8-PeCDD	MG/M3	10	20.00	0.0000000001	0.000000004	0.0000000005	0.000000002	0.0000000008	0.0000000006	
1,2,3,7,8-PeCDF	MG/M3	10	70.00	0.0000000008	0.000000002	0.0000000003	0.000000006	0.000000002	0.0000000010	

Location 7

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
2,3,4,6,7,8-HxCDF	MG/M3	10	100.00			0.000000001	0.00000005	0.00000001	0.000000004	
2,3,4,7,8-PeCDF	MG/M3	10	70.00	0.0000000008	0.000000002	0.0000000008	0.00000002	0.000000004	0.000000001	
2,3,7,8-TCDD	MG/M3	10	10.00	0.0000000002	0.000000002	0.0000000001	0.0000000001	0.0000000005	0.0000000004	
2,3,7,8-TCDF	MG/M3	10	90.00	0.000000001	0.000000001	0.0000000003	0.000000005	0.000000001	0.0000000009	
Total HpCDD	MG/M3	10	100.00			0.000000002	0.00000006	0.00000002	0.000000008	
Total HpCDF	MG/M3	10	100.00			0.000000002	0.0000002	0.00000005	0.000000010	
Total HxCDD	MG/M3	10	100.00			0.000000001	0.00000006	0.00000001	0.000000004	
Total HxCDF	MG/M3	10	100.00			0.000000006	0.0000002	0.00000006	0.00000002	
Total PeCDD	MG/M3	10	90.00	0.000000003	0.000000003	0.000000001	0.00000003	0.000000007	0.000000004	
Total PeCDF	MG/M3	10	100.00			0.000000008	0.0000002	0.00000005	0.00000001	
Total TCDD	MG/M3	10	90.00	0.000000002	0.000000002	0.000000002	0.00000003	0.000000007	0.000000004	
Total TCDF	MG/M3	10	100.00			0.000000009	0.0000002	0.00000006	0.00000003	
TSP										
Net_Mass	MG/M3	10	100.00			0.10	0.18	0.14	0.14	

Location 7

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.000003	0.000008	0.00001	0.000008	0.000009	0.000009	Unknown
As	MG/M3	0.000005	0.000006	0.00001	0.000004	0.000008	0.00001	Lognormal
Cd	MG/M3	0.000008	0.000006	0.00003	0.000004	0.00001	0.00001	Lognormal
Cr	MG/M3	0.000004	0.00002	0.00002	0.00001	0.00002	0.00002	Normal/Lognormal
Cu	MG/M3	0.0001	0.0002	0.0005	0.0002	0.0003	0.0003	Lognormal
Ni	MG/M3	0.000007	0.00003	0.00004	0.00003	0.00003	0.00003	Normal/Lognormal
Pb	MG/M3	0.0005	0.0003	0.002	0.0001	0.0005	0.0006	Unknown
Sb	MG/M3	0.00004	0.00008	0.0002	0.00007	0.0001	0.0001	Unknown
Se	MG/M3	0.00007	0.0001	0.0003	0.0001	0.0002	0.0002	Unknown
Zn	MG/M3	0.0006	0.0005	0.002	0.0004	0.0009	0.0009	Unknown
Particulates								
PM10	MG/M3	0.04	0.10	0.16	0.10	0.13	0.14	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0003	0.0008	0.001	0.0007	0.001	0.001	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.0010	0.003	0.004	0.003	0.004	0.004	Normal/Lognormal
1,2-Dichloroethane	MG/M3	0.0001	0.0004	0.0007	0.0004	0.0005	0.0005	Unknown
1,2-Dichloropropane	MG/M3	0.0003	0.0006	0.001	0.0005	0.0008	0.0008	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0002	0.0006	0.0010	0.0005	0.0007	0.0008	Unknown
1,4-Dichlorobenzene	MG/M3	0.002	0.002	0.005	0.001	0.003	0.008	Normal
4-Bromofluorobenzene	%	9.49	105.88	121.00	105.51	112.24	112.69	Normal/Lognormal
Benzene	MG/M3	0.002	0.004	0.007	0.003	0.005	0.006	Normal/Lognormal
Bromomethane	MG/M3	0.0006	0.0007	0.002	0.0005	0.001	0.002	Lognormal
Carbon Tetrachloride	MG/M3	0.0002	0.0007	0.001	0.0007	0.0008	0.0008	Unknown
Chloroethane	MG/M3	0.004	0.002	0.01	0.0004	0.004	0.009	Unknown
Chloroform	MG/M3	0.0001	0.0002	0.0004	0.0002	0.0003	0.0005	Unknown
Chloromethane	MG/M3	0.0005	0.002	0.003	0.002	0.002	0.002	Normal/Lognormal
Ethyl Benzene	MG/M3	0.003	0.006	0.01	0.006	0.008	0.010	Normal/Lognormal
Freon 11	MG/M3	0.0003	0.002	0.003	0.002	0.002	0.002	Unknown

Location 7

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Freon 113	MG/M3	0.0003	0.0008	0.002	0.0008	0.0010	0.0010	Unknown
Freon 12	MG/M3	0.001	0.005	0.008	0.005	0.006	0.007	Normal/Lognormal
Octafluorotoluene	%	7.77	93.88	103.00	93.59	99.08	99.54	Normal/Lognormal
Styrene	MG/M3	0.001	0.002	0.004	0.001	0.002	0.005	Normal/Lognormal
Tetrachloroethene	MG/M3	0.002	0.001	0.007	0.0009	0.003	0.003	Unknown
Toluene	MG/M3	0.02	0.03	0.06	0.03	0.04	0.05	Normal/Lognormal
Toluene-d8	%	6.85	98.50	107.00	98.29	103.09	103.42	Normal/Lognormal
Trichloroethene	MG/M3	0.001	0.001	0.004	0.0009	0.002	0.003	Lognormal
Vinyl Chloride	MG/M3	0.00003	0.00006	0.0001	0.00006	0.00009	0.00009	Unknown
cis-1,2-Dichloroethene	MG/M3	0.0003	0.0005	0.001	0.0004	0.0007	0.0007	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0002	0.0002	0.0007	0.0001	0.0003	0.0005	Unknown
m,p-Xylene	MG/M3	0.002	0.008	0.01	0.007	0.009	0.01	Normal/Lognormal
o-Xylene	MG/M3	0.0009	0.003	0.004	0.003	0.004	0.004	Normal
trans-1,3-Dichloropropene	MG/M3	0.0003	0.0007	0.001	0.0006	0.0009	0.001	Normal
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000002	0.00000002	0.00000005	0.00000001	0.00000003	0.00000005	Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000003	0.00000002	0.00000009	0.000000008	0.00000004	0.0000003	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.00000001	0.000000009	0.00000003	0.000000005	0.00000002	0.00000003	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000003	0.00000002	0.00000010	0.00000001	0.00000004	0.0000001	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000008	0.000000006	0.00000003	0.000000002	0.00000001	0.00000004	Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.0000000008	0.0000000009	0.000000002	0.0000000006	0.000000001	0.000000005	Normal/Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.00000001	0.000000010	0.00000003	0.000000005	0.00000002	0.00000004	Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000001	0.000000001	0.000000004	0.0000000007	0.000000002	0.000000009	Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000004	0.000000004	0.00000001	0.000000002	0.000000006	0.00000001	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000002	0.000000002	0.000000006	0.0000000009	0.000000003	0.00000002	Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000006	0.0000000007	0.000000002	0.0000000005	0.000000001	0.000000002	Normal/Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.0000000007	0.0000000008	0.000000002	0.0000000006	0.000000001	0.000000004	Normal/Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.000000002	0.000000002	0.000000006	0.000000001	0.000000003	0.000000005	Lognormal

Location 7

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
2,3,4,6,7,8-HxCDF	MG/M3	0.00000001	0.00000001	0.00000005	0.000000005	0.00000002	0.00000005	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000005	0.000000004	0.00000002	0.000000002	0.000000007	0.00000002	Lognormal
2,3,7,8-TCDD	MG/M3	0.0000000004	0.0000000001	0.0000000001	0.0000000004	0.0000000007	0.000000001	Normal/Lognormal
2,3,7,8-TCDF	MG/M3	0.000000001	0.000000001	0.000000005	0.0000000009	0.000000002	0.000000003	Lognormal
Total HpCDD	MG/M3	0.00000002	0.00000002	0.00000006	0.000000010	0.00000003	0.00000008	Lognormal
Total HpCDF	MG/M3	0.00000007	0.00000005	0.0000002	0.00000002	0.00000009	0.0000006	Lognormal
Total HxCDD	MG/M3	0.00000002	0.00000001	0.00000006	0.000000006	0.00000002	0.00000005	Lognormal
Total HxCDF	MG/M3	0.00000007	0.00000006	0.0000002	0.00000003	0.00000010	0.0000003	Lognormal
Total PeCDD	MG/M3	0.00000001	0.000000007	0.00000003	0.000000004	0.00000001	0.00000002	Lognormal
Total PeCDF	MG/M3	0.00000006	0.00000005	0.0000002	0.00000002	0.00000008	0.0000002	Unknown
Total TCDD	MG/M3	0.000000009	0.000000007	0.00000003	0.000000004	0.00000001	0.00000002	Lognormal
Total TCDF	MG/M3	0.00000007	0.00000006	0.0000002	0.00000004	0.0000001	0.0000002	Lognormal
TSP								
Net_Mass	MG/M3	0.03	0.14	0.18	0.14	0.16	0.17	Normal/Lognormal

Location 8

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	8	12.50	0.000009	0.00001	0.00001	0.00001	0.000006	0.000005	
As	MG/M3	8	87.50	0.000002	0.000002	0.000002	0.00001	0.000005	0.000005	
Cd	MG/M3	8	100.00			0.000001	0.00002	0.000004	0.000002	0.000001
Cr	MG/M3	8	100.00			0.000007	0.00002	0.00001	0.00001	0.000007
Cu	MG/M3	8	100.00			0.00006	0.0004	0.0002	0.0002	
Ni	MG/M3	8	87.50	0.00002	0.00002	0.00002	0.00003	0.00002	0.00002	
Pb	MG/M3	8	100.00			0.00005	0.001	0.0002	0.00006	
Sb	MG/M3	8	50.00	0.00007	0.00010	0.00008	0.0003	0.00009	0.00006	
Zn	MG/M3	8	100.00			0.00002	0.001	0.0003	0.0003	
Particulates										
PM10	MG/M3	8	100.00			0.05	0.13	0.09	0.09	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	8	37.50	0.0010	0.0010	0.0010	0.001	0.0008	0.0005	0.0005
1,2,4-Trimethylbenzene	MG/M3	8	100.00			0.0010	0.008	0.003	0.003	
1,2-Dichloroethane	MG/M3	8	12.50	0.0008	0.0008	0.0007	0.0007	0.0004	0.0004	0.0004
1,2-Dichloropropane	MG/M3	8	12.50	0.0009	0.0009	0.0006	0.0006	0.0005	0.0004	0.0004
1,3,5-Trimethylbenzene	MG/M3	8	12.50	0.0009	0.0009	0.0009	0.0009	0.0005	0.0005	0.0005
1,4-Dichlorobenzene	MG/M3	8	75.00	0.001	0.001	0.001	0.004	0.002	0.002	0.0006
4-Bromofluorobenzene	%	8	100.00			96.00	123.00	108.25	106.00	
Benzene	MG/M3	8	100.00			0.003	0.005	0.004	0.004	
Bromomethane	MG/M3	8	50.00	0.0006	0.0006	0.0008	0.001	0.0007	0.0006	0.0003
Carbon Tetrachloride	MG/M3	8	25.00	0.001	0.001	0.0006	0.001	0.0007	0.0006	0.0006
Chloroform	MG/M3	8	87.50	0.0002	0.0002	0.0002	0.001	0.0004	0.0003	
Chloromethane	MG/M3	8	100.00			0.002	0.003	0.002	0.002	0.002
Ethyl Benzene	MG/M3	8	100.00			0.002	0.02	0.006	0.005	
Freon 11	MG/M3	8	100.00			0.001	0.002	0.002	0.002	0.002
Freon 113	MG/M3	8	25.00	0.001	0.001	0.002	0.002	0.0010	0.0007	0.0007
Freon 12	MG/M3	8	100.00			0.003	0.007	0.005	0.004	

Location 8

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Octafluorotoluene	%	8	100.00			82.00	103.00	89.88	88.50	82.00
Styrene	MG/M3	8	50.00	0.0008	0.0008	0.001	0.004	0.001	0.0009	0.0004
Toluene	MG/M3	8	100.00			0.01	0.06	0.03	0.03	
Toluene-d8	%	8	100.00			90.00	112.00	99.75	100.00	
Trichloroethene	MG/M3	8	50.00	0.0010	0.0010	0.0009	0.003	0.001	0.0007	0.0005
Vinyl Chloride	MG/M3	8	12.50	0.00010	0.00010	0.0001	0.0001	0.00006	0.00005	0.00005
cis-1,2-Dichloroethene	MG/M3	8	12.50	0.0007	0.0007	0.0009	0.0009	0.0004	0.0004	0.0004
cis-1,3-Dichloropropene	MG/M3	8	37.50	0.0002	0.0002	0.0002	0.0006	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	8	100.00			0.002	0.01	0.007	0.006	
o-Xylene	MG/M3	8	100.00			0.001	0.004	0.003	0.003	
trans-1,3-Dichloropropene	MG/M3	8	25.00	0.0008	0.0008	0.0010	0.001	0.0006	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	8	100.00			0.000000002	0.00000003	0.00000001	0.000000008	
1,2,3,4,6,7,8,9-OCDF	MG/M3	8	87.50	0.0000000006	0.0000000006	0.000000002	0.00000005	0.00000002	0.00000001	
1,2,3,4,6,7,8-HpCDD	MG/M3	8	100.00			0.0000000007	0.00000002	0.000000007	0.000000004	
1,2,3,4,6,7,8-HpCDF	MG/M3	8	100.00			0.0000000009	0.00000006	0.00000002	0.00000001	
1,2,3,4,7,8,9-HpCDF	MG/M3	8	87.50	0.0000000006	0.0000000006	0.0000000004	0.00000001	0.000000005	0.000000003	
1,2,3,4,7,8-HxCDD	MG/M3	8	37.50	0.0000000002	0.000000002	0.0000000004	0.000000001	0.0000000005	0.0000000003	
1,2,3,4,7,8-HxCDF	MG/M3	8	100.00			0.0000000008	0.00000002	0.000000008	0.000000004	
1,2,3,6,7,8-HxCDD	MG/M3	8	62.50	0.0000000003	0.0000000005	0.0000000006	0.000000003	0.000000001	0.0000000006	
1,2,3,6,7,8-HxCDF	MG/M3	8	87.50	0.0000000003	0.0000000003	0.0000000007	0.000000009	0.000000003	0.000000002	
1,2,3,7,8,9-HxCDD	MG/M3	8	62.50	0.0000000002	0.0000000006	0.0000000007	0.000000003	0.000000001	0.0000000008	
1,2,3,7,8,9-HxCDF	MG/M3	8	50.00	0.0000000002	0.0000000005	0.0000000002	0.000000001	0.0000000004	0.0000000002	
1,2,3,7,8-PeCDD	MG/M3	8	25.00	0.0000000002	0.000000003	0.0000000001	0.0000000010	0.0000000004	0.0000000002	
1,2,3,7,8-PeCDF	MG/M3	8	62.50	0.0000000004	0.000000001	0.0000000005	0.000000003	0.0000000009	0.0000000006	
2,3,4,6,7,8-HxCDF	MG/M3	8	100.00			0.000000001	0.00000003	0.000000009	0.000000006	
2,3,4,7,8-PeCDF	MG/M3	8	75.00	0.0000000003	0.0000000005	0.0000000008	0.000000008	0.000000003	0.000000002	
2,3,7,8-TCDF	MG/M3	8	87.50	0.0000000005	0.0000000005	0.0000000003	0.000000002	0.0000000009	0.0000000009	
Total HpCDD	MG/M3	8	100.00			0.000000001	0.00000004	0.00000001	0.000000006	

Location 8

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
Total HpCDF	MG/M3	8	100.00			0.0000000010	0.0000001	0.00000004	0.00000003	
Total HxCDD	MG/M3	8	100.00			0.0000000004	0.00000003	0.00000001	0.000000006	
Total HxCDF	MG/M3	8	100.00			0.000000005	0.0000001	0.00000005	0.00000003	
Total PeCDD	MG/M3	8	87.50	0.0000000005	0.0000000005	0.000000001	0.00000002	0.000000006	0.000000005	
Total PeCDF	MG/M3	8	100.00			0.000000003	0.00000007	0.00000003	0.00000003	
Total TCDD	MG/M3	8	100.00			0.0000000006	0.00000001	0.000000005	0.000000003	
Total TCDF	MG/M3	8	100.00			0.000000003	0.0000001	0.00000005	0.00000003	
TSP										
Net_Mass	MG/M3	8	100.00			0.06	0.14	0.11	0.11	

Location 8

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.000003	0.000006	0.00001	0.000006	0.000008	0.000008	Unknown
As	MG/M3	0.000003	0.000005	0.00001	0.000004	0.000007	0.00001	Normal/Lognormal
Cd	MG/M3	0.000005	0.000004	0.00002	0.000003	0.000007	0.00001	Lognormal
Cr	MG/M3	0.000004	0.00001	0.00002	0.00001	0.00001	0.00001	Normal/Lognormal
Cu	MG/M3	0.00009	0.0002	0.0004	0.0002	0.0003	0.0003	Normal/Lognormal
Ni	MG/M3	0.000007	0.00002	0.00003	0.00002	0.00002	0.00003	Normal/Lognormal
Pb	MG/M3	0.0004	0.0002	0.001	0.00010	0.0005	0.0007	Unknown
Sb	MG/M3	0.00009	0.00009	0.0003	0.00007	0.0002	0.0002	Lognormal
Zn	MG/M3	0.0003	0.0003	0.001	0.0002	0.0006	0.002	Lognormal
Particulates								
PM10	MG/M3	0.03	0.09	0.13	0.09	0.11	0.12	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0004	0.0008	0.001	0.0007	0.001	0.001	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.002	0.003	0.008	0.003	0.005	0.006	Normal/Lognormal
1,2-Dichloroethane	MG/M3	0.0001	0.0004	0.0007	0.0004	0.0005	0.0005	Unknown
1,2-Dichloropropane	MG/M3	0.00007	0.0005	0.0006	0.0005	0.0005	0.0005	Unknown
1,3,5-Trimethylbenzene	MG/M3	0.0002	0.0005	0.0009	0.0005	0.0006	0.0006	Unknown
1,4-Dichlorobenzene	MG/M3	0.001	0.002	0.004	0.002	0.003	0.005	Normal/Lognormal
4-Bromofluorobenzene	%	9.92	108.25	123.00	107.86	114.90	115.38	Normal/Lognormal
Benzene	MG/M3	0.0008	0.004	0.005	0.004	0.004	0.004	Normal/Lognormal
Bromomethane	MG/M3	0.0004	0.0007	0.001	0.0005	0.0010	0.001	Unknown
Carbon Tetrachloride	MG/M3	0.0002	0.0007	0.001	0.0007	0.0008	0.0008	Unknown
Chloroform	MG/M3	0.0004	0.0004	0.001	0.0003	0.0007	0.0009	Lognormal
Chloromethane	MG/M3	0.0004	0.002	0.003	0.002	0.002	0.002	Normal/Lognormal
Ethyl Benzene	MG/M3	0.005	0.006	0.02	0.005	0.009	0.01	Normal/Lognormal
Freon 11	MG/M3	0.0003	0.002	0.002	0.002	0.002	0.002	Normal/Lognormal
Freon 113	MG/M3	0.0005	0.0010	0.002	0.0009	0.001	0.001	Unknown
Freon 12	MG/M3	0.002	0.005	0.007	0.005	0.006	0.006	Unknown

Location 8

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Octafluorotoluene	%	7.66	89.88	103.00	89.60	95.01	95.31	Normal/Lognormal
Styrene	MG/M3	0.001	0.001	0.004	0.0009	0.002	0.004	Unknown
Toluene	MG/M3	0.01	0.03	0.06	0.02	0.04	0.05	Normal/Lognormal
Toluene-d8	%	8.26	99.75	112.00	99.45	105.28	105.68	Normal/Lognormal
Trichloroethene	MG/M3	0.0008	0.001	0.003	0.0008	0.002	0.002	Lognormal
Vinyl Chloride	MG/M3	0.00003	0.00006	0.0001	0.00005	0.00008	0.00008	Unknown
cis-1,2-Dichloroethene	MG/M3	0.0002	0.0004	0.0009	0.0004	0.0006	0.0006	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0002	0.0002	0.0006	0.0001	0.0003	0.0004	Unknown
m,p-Xylene	MG/M3	0.004	0.007	0.01	0.006	0.009	0.01	Normal/Lognormal
o-Xylene	MG/M3	0.001	0.003	0.004	0.002	0.003	0.004	Normal/Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0003	0.0006	0.001	0.0005	0.0008	0.0008	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.00000001	0.00000001	0.00000003	0.000000009	0.00000002	0.00000005	Normal/Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.00000002	0.00000002	0.00000005	0.000000008	0.00000003	0.000001	Normal/Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.000000007	0.000000007	0.00000002	0.000000004	0.00000001	0.00000004	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.00000002	0.00000002	0.00000006	0.00000001	0.00000003	0.0000002	Normal/Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.000000005	0.000000005	0.00000001	0.000000002	0.000000008	0.00000007	Normal/Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.0000000004	0.0000000005	0.000000001	0.0000000004	0.0000000008	0.000000001	Normal/Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.000000008	0.000000008	0.00000002	0.000000005	0.00000001	0.00000005	Normal/Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000001	0.000000001	0.000000003	0.0000000006	0.000000002	0.000000006	Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.000000003	0.000000003	0.000000009	0.000000002	0.000000005	0.00000003	Normal/Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.000000001	0.000000001	0.000000003	0.0000000007	0.000000002	0.000000010	Normal/Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.0000000004	0.0000000004	0.000000001	0.0000000003	0.0000000007	0.000000001	Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.0000000004	0.0000000004	0.0000000010	0.0000000003	0.0000000007	0.000000001	Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.0000000009	0.0000000009	0.000000003	0.0000000007	0.000000001	0.000000003	Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.00000001	0.000000009	0.00000003	0.000000005	0.00000002	0.00000005	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.000000003	0.000000003	0.000000008	0.000000001	0.000000005	0.00000003	Normal/Lognormal
2,3,7,8-TCDF	MG/M3	0.0000000006	0.0000000009	0.000000002	0.0000000007	0.000000001	0.000000002	Normal/Lognormal
Total HpCDD	MG/M3	0.00000001	0.00000001	0.00000004	0.000000008	0.00000002	0.0000001	Lognormal

Location 8

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
Total HpCDF	MG/M3	0.00000004	0.00000004	0.0000001	0.00000002	0.00000007	0.000001	Normal/Lognormal
Total HxCDD	MG/M3	0.00000001	0.00000001	0.00000003	0.000000005	0.00000002	0.0000003	Normal/Lognormal
Total HxCDF	MG/M3	0.00000005	0.00000005	0.0000001	0.00000003	0.00000008	0.0000003	Normal/Lognormal
Total PeCDD	MG/M3	0.000000007	0.000000006	0.00000002	0.000000003	0.00000001	0.0000001	Normal/Lognormal
Total PeCDF	MG/M3	0.00000003	0.00000003	0.00000007	0.00000002	0.00000005	0.0000002	Normal/Lognormal
Total TCDD	MG/M3	0.000000005	0.000000005	0.00000001	0.000000003	0.000000008	0.00000003	Lognormal
Total TCDF	MG/M3	0.00000004	0.00000005	0.0000001	0.00000003	0.00000008	0.0000003	Normal/Lognormal
TSP								
Net_Mass	MG/M3	0.03	0.11	0.14	0.10	0.13	0.13	Normal/Lognormal

Location 9

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Inorganics										
Ag	MG/M3	8	12.50	0.000009	0.00001	0.00002	0.00002	0.000007	0.000006	
As	MG/M3	8	87.50	0.000002	0.000002	0.000003	0.00002	0.000006	0.000004	
Cd	MG/M3	8	100.00			0.0000008	0.00002	0.000004	0.000001	
Cr	MG/M3	8	100.00			0.000008	0.00002	0.00001	0.00001	
Cu	MG/M3	8	100.00			0.00007	0.0004	0.0002	0.0002	
Ni	MG/M3	8	75.00	0.00002	0.00002	0.00002	0.00004	0.00002	0.00002	
Pb	MG/M3	8	100.00			0.00004	0.001	0.0002	0.00006	
Sb	MG/M3	8	25.00	0.00007	0.0001	0.00009	0.0002	0.00007	0.00005	
Zn	MG/M3	8	100.00			0.0001	0.001	0.0004	0.0003	
Particulates										
PM10	MG/M3	8	100.00			0.07	0.16	0.12	0.14	
Volatile/Semi-Volatile Organic										
1,1,1-Trichloroethane	MG/M3	11	45.45	0.0010	0.0010	0.0010	0.004	0.001	0.0005	0.0005
1,2,4-Trimethylbenzene	MG/M3	11	90.91	0.0007	0.0007	0.002	0.004	0.003	0.003	
1,2-Dichloroethane	MG/M3	11	18.18	0.0008	0.0008	0.0004	0.0005	0.0004	0.0004	0.0004
1,2-Dichloropropane	MG/M3	11	18.18	0.0009	0.0009	0.0007	0.0007	0.0005	0.0004	0.0004
1,4-Dichlorobenzene	MG/M3	11	63.64	0.001	0.001	0.001	0.004	0.002	0.003	0.0006
4-Bromofluorobenzene	%	11	100.00			92.00	125.00	109.45	106.00	
Benzene	MG/M3	11	100.00			0.002	0.005	0.004	0.004	
Bromomethane	MG/M3	11	54.55	0.0006	0.0006	0.0009	0.002	0.0008	0.0009	0.0003
Carbon Tetrachloride	MG/M3	11	18.18	0.001	0.001	0.0008	0.0008	0.0006	0.0006	0.0006
Chloroform	MG/M3	11	54.55	0.0002	0.0002	0.0003	0.0004	0.0002	0.0003	0.00009
Chloromethane	MG/M3	11	100.00			0.001	0.003	0.002	0.002	
Ethyl Benzene	MG/M3	11	100.00			0.001	0.006	0.004	0.004	
Freon 11	MG/M3	11	100.00			0.001	0.002	0.002	0.002	
Freon 12	MG/M3	11	100.00			0.003	0.007	0.004	0.004	
Octafluorotoluene	%	11	100.00			82.00	105.00	92.45	92.00	82.00
Styrene	MG/M3	11	45.45	0.0008	0.0008	0.002	0.002	0.001	0.0004	0.0004

Location 9

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Volatile/Semi-Volatile Organic										
Toluene	MG/M3	11	100.00			0.008	0.04	0.02	0.03	
Toluene-d8	%	11	100.00			88.00	106.00	98.09	101.00	
Trichloroethene	MG/M3	11	54.55	0.0010	0.0010	0.001	0.003	0.001	0.001	0.0005
Vinyl Chloride	MG/M3	11	18.18	0.00010	0.00010	0.0001	0.0002	0.00007	0.00005	0.00005
cis-1,3-Dichloropropene	MG/M3	11	45.45	0.0002	0.0002	0.0002	0.0006	0.0002	0.00009	0.00009
m,p-Xylene	MG/M3	11	100.00			0.002	0.009	0.006	0.005	
o-Xylene	MG/M3	11	100.00			0.0009	0.003	0.002	0.002	
trans-1,3-Dichloropropene	MG/M3	11	36.36	0.0008	0.0008	0.0010	0.002	0.0007	0.0004	0.0004
Dioxins/Furans										
1,2,3,4,6,7,8,9-OCDD	MG/M3	8	100.00			0.000000003	0.0000003	0.00000008	0.000000008	
1,2,3,4,6,7,8,9-OCDF	MG/M3	8	100.00			0.0000000007	0.0000005	0.0000001	0.000000008	
1,2,3,4,6,7,8-HpCDD	MG/M3	8	87.50	0.000000004	0.000000004	0.0000000008	0.0000002	0.00000004	0.000000003	
1,2,3,4,6,7,8-HpCDF	MG/M3	8	100.00			0.0000000008	0.0000005	0.0000001	0.000000007	
1,2,3,4,7,8,9-HpCDF	MG/M3	8	62.50	0.0000000003	0.000000004	0.000000001	0.0000002	0.00000003	0.000000002	
1,2,3,4,7,8-HxCDD	MG/M3	8	25.00	0.0000000003	0.00000002	0.0000000009	0.000000008	0.000000003	0.000000001	
1,2,3,4,7,8-HxCDF	MG/M3	8	100.00			0.0000000010	0.0000002	0.00000004	0.000000004	
1,2,3,6,7,8-HxCDD	MG/M3	8	37.50	0.0000000002	0.000000004	0.000000002	0.00000002	0.000000004	0.000000002	
1,2,3,6,7,8-HxCDF	MG/M3	8	100.00			0.0000000004	0.00000007	0.00000001	0.000000001	
1,2,3,7,8,9-HxCDD	MG/M3	8	50.00	0.0000000002	0.000000005	0.0000000009	0.00000004	0.000000008	0.000000002	
1,2,3,7,8,9-HxCDF	MG/M3	8	25.00	0.0000000002	0.00000002	0.0000000006	0.000000006	0.000000003	0.000000001	
1,2,3,7,8-PeCDD	MG/M3	8	12.50	0.0000000002	0.00000003	0.0000000008	0.0000000008	0.000000003	0.000000001	
1,2,3,7,8-PeCDF	MG/M3	8	50.00	0.0000000002	0.000000004	0.0000000005	0.00000002	0.000000004	0.000000001	
2,3,4,6,7,8-HxCDF	MG/M3	8	100.00			0.000000001	0.0000002	0.00000005	0.000000004	
2,3,4,7,8-PeCDF	MG/M3	8	75.00	0.000000002	0.000000004	0.0000000005	0.00000006	0.00000001	0.000000002	
2,3,7,8-TCDD	MG/M3	8	12.50	0.0000000002	0.00000002	0.0000000003	0.0000000003	0.000000002	0.0000000006	
2,3,7,8-TCDF	MG/M3	8	75.00	0.0000000007	0.000000003	0.0000000007	0.00000001	0.000000003	0.000000001	
Total HpCDD	MG/M3	8	87.50	0.000000004	0.000000004	0.0000000008	0.0000004	0.00000008	0.000000005	
Total HpCDF	MG/M3	8	100.00			0.000000001	0.000001	0.0000002	0.000000008	
Total HxCDD	MG/M3	8	87.50	0.000000005	0.000000005	0.0000000003	0.0000001	0.00000003	0.000000004	

Location 9

Constituent	Units	Number of Samples Analyzed	Frequency of Detection	Minimum Non-Detected Value	Maximum Non-Detected Value	Minimum Detected Value	Maximum Detected Value	Mean	Median	Mode
Dioxins/Furans										
Total HxCDF	MG/M3	8	100.00			0.000000005	0.000001	0.0000002	0.00000001	
Total PeCDD	MG/M3	8	87.50	0.000000006	0.000000006	0.0000000005	0.00000008	0.00000002	0.000000004	
Total PeCDF	MG/M3	8	87.50	0.000000004	0.000000004	0.000000004	0.0000005	0.0000001	0.00000002	
Total TCDD	MG/M3	8	87.50	0.000000004	0.000000004	0.0000000008	0.00000007	0.00000002	0.000000004	
Total TCDF	MG/M3	8	87.50	0.000000003	0.000000003	0.000000003	0.0000005	0.0000001	0.00000005	
TSP										
Net_Mass	MG/M3	8	100.00			0.08	0.16	0.11	0.09	

Location 9

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Inorganics								
Ag	MG/M3	0.000004	0.000007	0.00002	0.000006	0.000010	0.000010	Unknown
As	MG/M3	0.000005	0.000006	0.00002	0.000004	0.000009	0.00002	Lognormal
Cd	MG/M3	0.000006	0.000004	0.00002	0.000002	0.000007	0.00001	Unknown
Cr	MG/M3	0.000004	0.00001	0.00002	0.00001	0.00001	0.00001	Normal/Lognormal
Cu	MG/M3	0.0001	0.0002	0.0004	0.0002	0.0003	0.0003	Normal/Lognormal
Ni	MG/M3	0.000009	0.00002	0.00004	0.00002	0.00003	0.00004	Normal/Lognormal
Pb	MG/M3	0.0004	0.0002	0.001	0.00009	0.0005	0.0007	Unknown
Sb	MG/M3	0.00004	0.00007	0.0002	0.00006	0.00009	0.0001	Lognormal
Zn	MG/M3	0.0004	0.0004	0.001	0.0003	0.0006	0.0007	Lognormal
Particulates								
PM10	MG/M3	0.04	0.12	0.16	0.12	0.15	0.16	Normal/Lognormal
Volatile/Semi-Volatile Organic								
1,1,1-Trichloroethane	MG/M3	0.0009	0.001	0.004	0.0008	0.002	0.002	Unknown
1,2,4-Trimethylbenzene	MG/M3	0.0009	0.003	0.004	0.002	0.003	0.005	Normal
1,2-Dichloroethane	MG/M3	0.00003	0.0004	0.0005	0.0004	0.0004	0.0004	Unknown
1,2-Dichloropropane	MG/M3	0.00009	0.0005	0.0007	0.0005	0.0005	0.0005	Unknown
1,4-Dichlorobenzene	MG/M3	0.001	0.002	0.004	0.002	0.003	0.005	Unknown
4-Bromofluorobenzene	%	11.33	109.45	125.00	108.92	115.64	116.18	Normal/Lognormal
Benzene	MG/M3	0.001	0.004	0.005	0.004	0.004	0.005	Normal/Lognormal
Bromomethane	MG/M3	0.0006	0.0008	0.002	0.0006	0.001	0.002	Unknown
Carbon Tetrachloride	MG/M3	0.00007	0.0006	0.0008	0.0006	0.0007	0.0007	Unknown
Chloroform	MG/M3	0.0001	0.0002	0.0004	0.0002	0.0003	0.0004	Unknown
Chloromethane	MG/M3	0.0006	0.002	0.003	0.002	0.002	0.002	Unknown
Ethyl Benzene	MG/M3	0.002	0.004	0.006	0.004	0.005	0.006	Normal
Freon 11	MG/M3	0.0003	0.002	0.002	0.002	0.002	0.002	Normal/Lognormal
Freon 12	MG/M3	0.001	0.004	0.007	0.004	0.005	0.005	Unknown
Octafluorotoluene	%	9.63	92.45	105.00	92.00	97.71	98.11	Unknown
Styrene	MG/M3	0.0007	0.001	0.002	0.0008	0.001	0.002	Unknown

Location 9

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Volatile/Semi-Volatile Organic								
Toluene	MG/M3	0.01	0.02	0.04	0.02	0.03	0.03	Normal/Lognormal
Toluene-d8	%	6.16	98.09	106.00	97.91	101.45	101.64	Normal/Lognormal
Trichloroethene	MG/M3	0.0008	0.001	0.003	0.0010	0.002	0.002	Unknown
Vinyl Chloride	MG/M3	0.00004	0.00007	0.0002	0.00006	0.00009	0.00009	Unknown
cis-1,3-Dichloropropene	MG/M3	0.0001	0.0002	0.0006	0.0001	0.0003	0.0003	Unknown
m,p-Xylene	MG/M3	0.002	0.006	0.009	0.005	0.007	0.008	Normal/Lognormal
o-Xylene	MG/M3	0.0008	0.002	0.003	0.002	0.003	0.003	Normal/Lognormal
trans-1,3-Dichloropropene	MG/M3	0.0004	0.0007	0.002	0.0006	0.0009	0.0010	Unknown
Dioxins/Furans								
1,2,3,4,6,7,8,9-OCDD	MG/M3	0.0000001	0.00000008	0.0000003	0.00000002	0.0000002	0.000006	Lognormal
1,2,3,4,6,7,8,9-OCDF	MG/M3	0.0000002	0.0000001	0.0000005	0.00000001	0.0000002	0.00004	Lognormal
1,2,3,4,6,7,8-HpCDD	MG/M3	0.00000007	0.00000004	0.0000002	0.000000007	0.00000008	0.000006	Lognormal
1,2,3,4,6,7,8-HpCDF	MG/M3	0.0000002	0.0000001	0.0000005	0.00000002	0.0000002	0.00004	Lognormal
1,2,3,4,7,8,9-HpCDF	MG/M3	0.00000006	0.00000003	0.0000002	0.000000004	0.00000007	0.00002	Lognormal
1,2,3,4,7,8-HxCDD	MG/M3	0.000000004	0.000000003	0.000000008	0.000000001	0.000000006	0.0000002	Lognormal
1,2,3,4,7,8-HxCDF	MG/M3	0.00000007	0.00000004	0.0000002	0.000000008	0.00000008	0.000004	Lognormal
1,2,3,6,7,8-HxCDD	MG/M3	0.000000006	0.000000004	0.00000002	0.000000001	0.000000008	0.0000005	Lognormal
1,2,3,6,7,8-HxCDF	MG/M3	0.00000003	0.00000001	0.00000007	0.000000003	0.00000003	0.000001	Lognormal
1,2,3,7,8,9-HxCDD	MG/M3	0.00000001	0.000000008	0.00000004	0.000000002	0.00000002	0.000002	Lognormal
1,2,3,7,8,9-HxCDF	MG/M3	0.000000003	0.000000003	0.000000006	0.0000000009	0.000000005	0.0000001	Lognormal
1,2,3,7,8-PeCDD	MG/M3	0.000000005	0.0000000008	0.0000000008	0.0000000010	0.000000007	0.0000001	Lognormal
1,2,3,7,8-PeCDF	MG/M3	0.000000006	0.000000004	0.00000002	0.000000001	0.000000009	0.0000008	Lognormal
2,3,4,6,7,8-HxCDF	MG/M3	0.00000009	0.00000005	0.0000002	0.000000009	0.0000001	0.000005	Lognormal
2,3,4,7,8-PeCDF	MG/M3	0.00000002	0.00000001	0.00000006	0.000000003	0.00000003	0.0000007	Lognormal
2,3,7,8-TCDD	MG/M3	0.000000003	0.0000000003	0.0000000003	0.0000000006	0.000000004	0.00000007	Lognormal
2,3,7,8-TCDF	MG/M3	0.000000005	0.000000003	0.00000001	0.000000002	0.000000007	0.00000002	Lognormal
Total HpCDD	MG/M3	0.0000001	0.00000008	0.0000004	0.00000001	0.0000002	0.00006	Lognormal
Total HpCDF	MG/M3	0.0000005	0.0000002	0.000001	0.00000002	0.0000005	0.0003	Lognormal
Total HxCDD	MG/M3	0.00000005	0.00000003	0.0000001	0.000000007	0.00000007	0.00001	Lognormal

Location 9

Constituent	Units	Standard Deviation	Alternate	RME	Log Mean	95% UCL	Log 95% UCL	Distribution Test 95% Confidence Level
Dioxins/Furans								
Total HxCDF	MG/M3	0.0000004	0.0000002	0.000001	0.00000003	0.0000005	0.00009	Lognormal
Total PeCDD	MG/M3	0.00000004	0.00000002	0.00000008	0.000000006	0.00000005	0.000001	Lognormal
Total PeCDF	MG/M3	0.0000002	0.0000001	0.0000005	0.00000002	0.0000002	0.00002	Lognormal
Total TCDD	MG/M3	0.00000002	0.00000002	0.00000007	0.000000006	0.00000003	0.0000004	Lognormal
Total TCDF	MG/M3	0.0000002	0.0000001	0.0000005	0.00000003	0.0000003	0.00005	Lognormal
TSP								
Net_Mass	MG/M3	0.03	0.11	0.16	0.10	0.13	0.13	Normal/Lognormal

Background

Constituent / Sample ID:	1-SKEET RANGE	1-SKEET	97-M437	97-M457	97-M467	97-M477
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	1-SKEET RANGE	1-SKEET	97-M437	97-M457	97-M467	97-M477
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000002 U	0.0000000001 C				
1,2,3,7,8,9-HxCDD	0.0000000003 U	0.0000000002 C				
Total PeCDF	0.000000006	0.000000001				
1,2,3,4,6,7,8,9-OCDD	0.000000003 B	0.000000002 B				

Background

Constituent / Sample ID:	1-SKEET RANGE	1-SKEET	97-M437	97-M457	97-M467	97-M477
Total HxCDD	0.0000000007	0.000000002 C				
1,2,3,4,6,7,8-HpCDD	0.000000001	0.0000000005				
Total PeCDD	0.000000002	0.0000000003 U				
Total HpCDD	0.000000003	0.0000000007				
Total HpCDF	0.000000007	0.0000000006				
1,2,3,4,6,7,8,9-OCDF	0.000000003	0.0000000007 C				
1,2,3,4,7,8-HxCDD	0.0000000003 U	0.0000000003 U				
1,2,3,7,8-PeCDD	0.0000000003 U	0.0000000003 U				
Total TCDD	0.000000003	0.000000001				
2,3,7,8-TCDF	0.0000000005 C	0.0000000006				
1,2,3,4,7,8,9-HpCDF	0.0000000004 U	0.0000000003 U				
Total HxCDF	0.000000004	0.0000000007				
Total TCDF	0.00000002	0.000000002				
2,3,4,7,8-PeCDF	0.0000000007	0.0000000002				
1,2,3,7,8-PeCDF	0.0000000003 PRC	0.0000000002 U				
1,2,3,6,7,8-HxCDF	0.0000000004 C	0.0000000002 C				
1,2,3,6,7,8-HxCDD	0.0000000003 U	0.0000000002 U				
2,3,4,6,7,8-HxCDF	0.000000001	0.0000000004 C				
1,2,3,4,6,7,8-HpCDF	0.000000004 PR	0.0000000006 PR				
1,2,3,4,7,8-HxCDF	0.000000001	0.0000000004				
1,2,3,7,8,9-HxCDF	0.0000000003 U	0.0000000002 U				
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	97-M487	97-M504	97-M514	97-M526	97-M558	97-M561
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-M487	97-M504	97-M514	97-M526	97-M558	97-M561
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-M487	97-M504	97-M514	97-M526	97-M558	97-M561
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	97-M564	97-Q1253	97-Q1272	97-Q1273	97-Q1292	97-Q1293
Inorganics (MG/M3)						
Cr_VI		0.00002	0.000003 U		0.000003 U	
Pb		0.0003	0.00004		0.0001	
Ni		0.00002 U	0.00002 U		0.00002	
Ag		0.00001 U	0.00001 U		0.00001 U	
Sb		0.0001	0.00009 U		0.00009 U	
As		0.000005 U	0.000008		0.000005	
Be		0.000001 U	0.0000009 U		0.000002	
Cd		0.0000003	0.0000009		0.000002	
Cr		0.00008	0.000008		0.00004	
Cu		0.00006	0.00005		0.0001	
Zn		0.0002	0.0001		0.0006	
Particulates (MG/M3)						
PM10				0.11		0.24
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-M564	97-Q1253	97-Q1272	97-Q1273	97-Q1292	97-Q1293
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-M564	97-Q1253	97-Q1272	97-Q1273	97-Q1292	97-Q1293
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.14	0.09		0.35	

Background

Constituent / Sample ID:	97-Q1313	97-Q1314	97-Q1319	97-Q1320	97-Q1341	97-Q1342
Inorganics (MG/M3)						
Cr_VI		0.000003 U	0.000003 U		0.000004 U	
Pb		0.00006	0.00007		0.0002	
Ni		0.00002	0.00003		0.00004	
Ag		0.00001 U	0.00001 U		0.00001 U	
Sb		0.00009 U	0.00009 U		0.0001 U	
As		0.000003	0.000006		0.00001	
Be		0.0000009 U	0.0000009 U		0.0000010 U	
Cd		0.000001	0.000002		0.000009	
Cr		0.00002	0.00001		0.00003	
Cu		0.00009	0.0001		0.0003	
Zn		0.0002	0.0002		0.0003	
Particulates (MG/M3)						
PM10	0.12			0.14		0.29
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-Q1313	97-Q1314	97-Q1319	97-Q1320	97-Q1341	97-Q1342
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-Q1313	97-Q1314	97-Q1319	97-Q1320	97-Q1341	97-Q1342
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.15	0.18		0.48	

Background

Constituent / Sample ID:	97-Q1384	97-Q1385	97-Q1406	97-Q1408	97-Q1422	97-Q1423
Inorganics (MG/M3)						
Cr_VI	0.000005 U		0.000004 U		0.000005 U	
Pb	0.0006		0.00007		0.0002	
Ni	0.00002 U		0.00002 U		0.00004	
Ag	0.00001 U		0.00002		0.00002 U	
Sb	0.0001 U		0.0001 U		0.0001 U	
As	0.000008		0.000002 U		0.000005	
Be	0.000001 U		0.000001 U		0.000002	
Cd	0.000002		0.000001		0.000005	
Cr	0.00007		0.00002		0.00003	
Cu	0.0001		0.0001		0.0001	
Zn	0.001		0.0002		0.0008	
Particulates (MG/M3)						
PM10		0.14		0.08		0.19
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-Q1384	97-Q1385	97-Q1406	97-Q1408	97-Q1422	97-Q1423
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-Q1384	97-Q1385	97-Q1406	97-Q1408	97-Q1422	97-Q1423
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.30		0.10		0.29	

Background

Constituent / Sample ID:	97-Q1430	97-Q1442	97-Q1444	97-Q1445	97-Q1450	97-Q1456
Inorganics (MG/M3)						
Cr_VI	0.000004 U	0.000005 U	0.000005 U	0.000003 U	0.000004 U	0.000005 U
Pb	0.0002	0.000004	0.0002	0.00007	0.0002	0.0001
Ni	0.00005	0.00004	0.00003	0.00002	0.00003	0.00005
Ag	0.00001 U	0.00002 U	0.00002 U	0.00001 U	0.00001 U	0.00001 U
Sb	0.0001 U	0.0001 U	0.0001	0.00009 U	0.0001 U	0.0001 U
As	0.000007	0.000003 U	0.000006	0.000002	0.000005	0.000006
Be	0.000001	0.000001 U	0.000002	0.0000009 U	0.000002	0.000001 U
Cd	0.000005	0.00000010 U	0.000003	0.000001	0.000003	0.000003
Cr	0.00003	0.000008	0.00003	0.00001	0.00002	0.00002
Cu	0.0002	0.00001 U	0.0002	0.0001	0.0001	0.0002
Zn	0.0008	0.00001 U	0.0006	0.0002	0.0004	0.0004
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-Q1430	97-Q1442	97-Q1444	97-Q1445	97-Q1450	97-Q1456
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-Q1430	97-Q1442	97-Q1444	97-Q1445	97-Q1450	97-Q1456
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.37	0.003	0.35	0.19	0.32	0.35

Background

Constituent / Sample ID:	97-Q1458	97-Q1459	97-Q1460	97-Q1489	97-Q1491	97-Q1495
Inorganics (MG/M3)						
Cr_VI	0.000005 U	0.000004 U	0.000004 U	0.000004 U	0.000005 U	0.000004 U
Pb	0.0003	0.0003	0.00006	0.0003	0.0002	0.0002
Ni	0.00006	0.00006	0.00002 U	0.00003	0.00005	0.00006
Ag	0.00002 U	0.00001 U	0.00001 U	0.00001 U	0.00001 U	0.00001 U
Sb	0.0001 U	0.0001 U	0.00009 U	0.0001 U	0.0001 U	0.0001
As	0.00001	0.00001	0.000004	0.00001	0.00001	0.00001
Be	0.000005	0.000005	0.0000009 U	0.000002	0.000003	0.000001
Cd	0.000010	0.000005	0.000004	0.000006	0.000006	0.000005
Cr	0.00007	0.00006	0.00001	0.00003	0.00004	0.00003
Cu	0.0004	0.0003	0.0001	0.0002	0.0002	0.0002
Zn	0.001	0.001	0.0005	0.0008	0.0008	0.0006
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-Q1458	97-Q1459	97-Q1460	97-Q1489	97-Q1491	97-Q1495
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-Q1458	97-Q1459	97-Q1460	97-Q1489	97-Q1491	97-Q1495
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.91	0.77	0.16	0.47	0.53	0.39

Background

Constituent / Sample ID:	97-Q1497	97-Q1509	97-Q1514	97-Q1516	97-Q1520	97-Q1524
Inorganics (MG/M3)						
Cr_VI	0.000005 U	0.000004 U	0.000001 U	0.000001 U	0.0000009 U	0.000001 U
Pb	0.0006	0.00005	0.0002	0.0003	0.0001	0.0002
Ni	0.00006	0.00002 U	0.000007	0.000008	0.00002	0.00003
Ag	0.00002 U	0.00001 U	0.000004 U	0.00003	0.000003	0.000004 U
Sb	0.0001 U	0.0001 U	0.00003 U	0.00003 U	0.00002	0.00003 U
As	0.00002	0.000003	0.000005	0.000006	0.000004	0.000009
Be	0.000005	0.000001 U	0.0000003 U	0.0000003 U	0.0000002	0.0000008
Cd	0.000006	0.0000010	0.000005	0.000007	0.000004	0.00001
Cr	0.00006	0.00002	0.000008	0.00001	0.00002	0.00002
Cu	0.0004	0.0001	0.0001	0.0002	0.0001	0.0002
Zn	0.001	0.0002	0.0004	0.0006	0.0005	0.0009
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	97-Q1497	97-Q1509	97-Q1514	97-Q1516	97-Q1520	97-Q1524
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	97-Q1497	97-Q1509	97-Q1514	97-Q1516	97-Q1520	97-Q1524
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.84	0.22	0.09	0.15	0.16	0.29

Background

Constituent / Sample ID:	LOCATION 1	LOCATION 1 OUTDOOR	LOCATION 1 OUTDOOR	LOCATION 1 RUN 12	LOCATION 1 RUN 25	Location 1 100P
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						0.0002
Propanal						0.0002 ND
Formaldehyde						0.003
Acetone						0.0001 B
Acetaldehyde						0.0001
Methyl Ethyl Ketone/Butyraldeh						0.0003 ND
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						0.004
Styrene (MG/M3)						0.0006
cis-1,3-Dichloropropene (MG/M3						0.0002 ND
trans-1,3-Dichloropropene (MG/						0.0008
1,4-Dichlorobenzene (MG/M3)						0.003
1,2-Dichloroethane (MG/M3)						0.0001

Background

Constituent / Sample ID:	LOCATION 1	LOCATION 1 OUTDOOR	LOCATION 1 OUTDOOR	LOCATION 1 RUN 12	LOCATION 1 RUN 25	Location 1 100P
m,p-Xylene (MG/M3)						0.006
1,3,5-Trimethylbenzene (MG/M3)						0.0009
Toluene (MG/M3)						0.02
Tetrachloroethene (MG/M3)						0.001
Toluene-d8 (%)						58.57
Toluene-d8 (%R)						58.57
Octafluorotoluene (%)						50.93
Octafluorotoluene (%R)						50.93
4-Bromofluorobenzene (%)						67.48
4-Bromofluorobenzene (%R)						67.48
Carbon Tetrachloride (MG/M3)						0.0004
Chloroform (MG/M3)						0.0002
Benzene (MG/M3)						0.004
1,1,1-Trichloroethane (MG/M3)						0.0008
Bromomethane (MG/M3)						0.0006
Chloromethane (MG/M3)						0.001
Chloroethane (MG/M3)						0.0005 ND
Vinyl Chloride (MG/M3)						0.00010 ND
Freon 11 (MG/M3)						0.001
Freon 12 (MG/M3)						0.002
1,2-Dichloropropane (MG/M3)						0.0003
Trichloroethene (MG/M3)						0.002
o-Xylene (MG/M3)						0.002
1,2,4-Trimethylbenzene (MG/M3)						0.004
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.00000000009 C	0.00000000003 C	0.0000000002 U	0.0000000004 U	0.000000001 U	
1,2,3,7,8,9-HxCDD	0.0000000004	0.000000001 PR	0.0000000002 U	0.0000000007 C	0.00000001 PR	
Total PeCDF	0.000000008	0.00000002	0.000000007	0.00000001	0.0000002	
1,2,3,4,6,7,8,9-OCDD	0.000000009	0.000000009	0.000000002 C	0.000000010 B	0.0000001	

Background

Constituent / Sample ID:	LOCATION 1	LOCATION 1 OUTDOOR	LOCATION 1 OUTDOOR	LOCATION 1 RUN 12	LOCATION 1 RUN 25	Location 1 100P
Total HxCDD	0.000000004	0.000000010	0.000000001	0.000000002	0.00000010	
1,2,3,4,6,7,8-HpCDD	0.000000003	0.000000005	0.000000001	0.000000003 C	0.00000007	
Total PeCDD	0.0000000006	0.0000000006	0.000000004 C	0.000000002 C	0.00000005	
Total HpCDD	0.000000003	0.000000009	0.000000002	0.000000005	0.0000001	
Total HpCDF	0.00000001	0.00000001	0.000000002	0.00000002	0.0000004	
1,2,3,4,6,7,8,9-OCDF	0.000000007	0.000000005	0.000000002	0.00000001	0.0000002	
1,2,3,4,7,8-HxCDD	0.0000000005	0.0000000004	0.0000000003 U	0.0000000010 U	0.000000005 C	
1,2,3,7,8-PeCDD	0.0000000006 U	0.0000000003	0.0000000003 U	0.0000000006 U	0.000000003	
Total TCDD	0.000000001	0.000000005	0.000000005	0.000000002	0.00000003	
2,3,7,8-TCDF	0.0000000003 C	0.0000000005	0.0000000003 C	0.000000002 U	0.000000003 C	
1,2,3,4,7,8,9-HpCDF	0.000000002	0.000000001	0.0000000003 U	0.000000003	0.00000005	
Total HxCDF	0.00000001	0.00000002	0.000000005	0.00000002	0.0000003	
Total TCDF	0.00000002	0.00000002	0.00000002	0.00000002	0.0000002	
2,3,4,7,8-PeCDF	0.000000002	0.000000002	0.0000000009	0.000000002 C	0.00000002	
1,2,3,7,8-PeCDF	0.0000000006	0.0000000009	0.0000000006 C	0.0000000008 C	0.000000006	
1,2,3,6,7,8-HxCDF	0.000000001	0.000000001	0.0000000004	0.000000002	0.00000002	
1,2,3,6,7,8-HxCDD	0.0000000005	0.0000000007	0.0000000002 U	0.0000000008 U	0.000000008	
2,3,4,6,7,8-HxCDF	0.000000001	0.000000005	0.000000001 B	0.000000006 PR	0.00000007	
1,2,3,4,6,7,8-HpCDF	0.000000008	0.000000007	0.000000002	0.00000001	0.0000002	
1,2,3,4,7,8-HxCDF	0.000000001	0.000000004 PR	0.000000001	0.000000005 PR	0.00000005 PR	
1,2,3,7,8,9-HxCDF	0.0000000006 U	0.0000000002	0.0000000002 U	0.0000000004	0.000000004	
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	Location 1 100P-DUP	Location 1 101P	Location 1 102P	Location 1 103P	Location 1 103P-DUP	Location1 OUTD.
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde	0.0002	0.0005	0.0007	0.0002	0.0002 ND	
Propanal	0.0002 ND	0.00008	0.0004	0.0002	0.0003	
Formaldehyde	0.003	0.005	0.008	0.003	0.003	
Acetone	0.0001 B	0.0002 B	0.0006 B	0.0004 B	0.0005 B	
Acetaldehyde	0.0001	0.0002	0.001	0.001	0.001	
Methyl Ethyl Ketone/Butyraldeh	0.0003 ND	0.0003	0.002	0.001	0.001	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)		0.01	0.009	0.01		
Styrene (MG/M3)		0.001	0.001	0.003		
cis-1,3-Dichloropropene (MG/M3		0.0002 ND	0.0002 ND	0.0002 ND		
trans-1,3-Dichloropropene (MG/		0.0008 ND	0.0010	0.0008 ND		
1,4-Dichlorobenzene (MG/M3)		0.005	0.004	0.004		
1,2-Dichloroethane (MG/M3)		0.0003	0.0007	0.0006		

Background

Constituent / Sample ID:	Location 1 100P-DUP	Location 1 101P	Location 1 102P	Location 1 103P	Location 1 103P-DUP	Location1 OUTD.
m,p-Xylene (MG/M3)		0.02	0.01	0.01		
1,3,5-Trimethylbenzene (MG/M3)		0.002	0.001	0.002		
Toluene (MG/M3)		0.05	0.04	0.04		
Tetrachloroethene (MG/M3)		0.003	0.001	0.001 ND		
Toluene-d8 (%)		92.00	92.00	90.00		
Toluene-d8 (%R)		92.00	92.00	90.00		
Octafluorotoluene (%)		84.00	84.00	80.00		
Octafluorotoluene (%R)		84.00	84.00	80.00		
4-Bromofluorobenzene (%)		108.00	108.00	94.00		
4-Bromofluorobenzene (%R)		108.00	108.00	94.00		
Carbon Tetrachloride (MG/M3)		0.0007	0.0008	0.0008		
Chloroform (MG/M3)		0.0005	0.0006	0.0004		
Benzene (MG/M3)		0.007	0.008	0.009		
1,1,1-Trichloroethane (MG/M3)		0.001	0.002	0.002		
Bromomethane (MG/M3)		0.0006 ND	0.001	0.0009		
Chloromethane (MG/M3)		0.002	0.002	0.002		
Chloroethane (MG/M3)		0.0005 ND	0.0005 ND	0.0005 ND		
Vinyl Chloride (MG/M3)		0.00010 ND	0.0001	0.0002		
Freon 11 (MG/M3)		0.002	0.002	0.002		
Freon 12 (MG/M3)		0.004	0.004	0.006		
1,2-Dichloropropane (MG/M3)		0.0003	0.0003	0.0003		
Trichloroethene (MG/M3)		0.006	0.005	0.004		
o-Xylene (MG/M3)		0.006	0.004	0.005		
1,2,4-Trimethylbenzene (MG/M3)		0.008	0.006	0.006		
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						0.0000000001 U
1,2,3,7,8,9-HxCDD						0.000000003 PR
Total PeCDF						0.00000004
1,2,3,4,6,7,8,9-OCDD						0.00000003

Background

Constituent / Sample ID:	Location 1 100P-DUP	Location 1 101P	Location 1 102P	Location 1 103P	Location 1 103P-DUP	Location1 OUTD.
Total HxCDD						0.00000003
1,2,3,4,6,7,8-HpCDD						0.00000001
Total PeCDD						0.00000001
Total HpCDD						0.00000002
Total HpCDF						0.00000004
1,2,3,4,6,7,8,9-OCDF						0.00000001
1,2,3,4,7,8-HxCDD						0.000000001
1,2,3,7,8-PeCDD						0.0000000008
Total TCDD						0.00000001
2,3,7,8-TCDF						0.0000000008
1,2,3,4,7,8,9-HpCDF						0.000000004
Total HxCDF						0.00000005
Total TCDF						0.00000004
2,3,4,7,8-PeCDF						0.000000003
1,2,3,7,8-PeCDF						0.000000001 PR
1,2,3,6,7,8-HxCDF						0.000000003
1,2,3,6,7,8-HxCDD						0.000000002
2,3,4,6,7,8-HxCDF						0.000000009 PR
1,2,3,4,6,7,8-HpCDF						0.00000002
1,2,3,4,7,8-HxCDF						0.00000001 PR
1,2,3,7,8,9-HxCDF						0.0000000005 PR
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	Location1 Outdoor	Location1 Run26	RUN # 5-LOCATION # 1	RUN # 6-LOCATION # 1	RUN # 6-LOCATION #	RUN #10 LOCATION 1
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)			0.005	0.004	0.004	
Styrene (MG/M3)			0.001	0.0008 ND	0.0008 ND	
cis-1,3-Dichloropropene (MG/M3			0.0010	0.0002 ND	0.0002 ND	
trans-1,3-Dichloropropene (MG/			0.002	0.004	0.0010	
1,4-Dichlorobenzene (MG/M3)			0.002	0.004	0.004	
1,2-Dichloroethane (MG/M3)			0.0008 ND	0.0008 ND	0.0008 ND	

Background

Constituent / Sample ID:	Location1 Outdoor	Location1 Run26	RUN # 5-LOCATION # 1	RUN # 6-LOCATION # 1	RUN # 6-LOCATION #	RUN #10 LOCATION 1
m,p-Xylene (MG/M3)			0.007	0.004	0.004	
1,3,5-Trimethylbenzene (MG/M3)			0.0009 ND	0.0009 ND	0.0009 ND	
Toluene (MG/M3)			0.05	0.01	0.01	
Tetrachloroethene (MG/M3)			0.001 ND	0.001 ND	0.001 ND	
Toluene-d8 (%)			92.00	92.00	86.00	
Toluene-d8 (%R)			92.00	92.00	86.00	
Octafluorotoluene (%)			86.00	82.00	82.00	
Octafluorotoluene (%R)			86.00	82.00	82.00	
4-Bromofluorobenzene (%)			102.00	106.00	104.00	
4-Bromofluorobenzene (%R)			102.00	106.00	104.00	
Carbon Tetrachloride (MG/M3)			0.001 ND	0.001 ND	0.001 ND	
Chloroform (MG/M3)			0.0003	0.0003	0.0003	
Benzene (MG/M3)			0.006	0.005	0.004	
1,1,1-Trichloroethane (MG/M3)			0.001	0.0010 ND	0.0010 ND	
Bromomethane (MG/M3)			0.0006 ND	0.0006 ND	0.0006 ND	
Chloromethane (MG/M3)			0.002	0.003	0.003	
Chloroethane (MG/M3)			0.0005 ND	0.0005 ND	0.0005 ND	
Vinyl Chloride (MG/M3)			0.00010 ND	0.00010 ND	0.00010 ND	
Freon 11 (MG/M3)			0.002	0.002	0.002	
Freon 12 (MG/M3)			0.004	0.004	0.003	
1,2-Dichloropropane (MG/M3)			0.0009 ND	0.0009 ND	0.0009 ND	
Trichloroethene (MG/M3)			0.0009	0.0010 ND	0.0010 ND	
o-Xylene (MG/M3)			0.003	0.002	0.002	
1,2,4-Trimethylbenzene (MG/M3)			0.002	0.004	0.0010	
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000001 U	0.000000002 U				0.0000000005 U
1,2,3,7,8,9-HxCDD	0.000000002 PR	0.00000002 PR				0.0000000007
Total PeCDF	0.00000004	0.0000002				0.00000001
1,2,3,4,6,7,8,9-OCDD	0.00000003	0.0000002				0.000000006 B

Background

Constituent / Sample ID:	Location1 Outdoor	Location1 Run26	RUN # 5-LOCATION # 1	RUN # 6-LOCATION # 1	RUN # 6-LOCATION #	RUN #10 LOCATION 1
Total HxCDD	0.00000002	0.0000002				0.000000006
1,2,3,4,6,7,8-HpCDD	0.00000001	0.00000007				0.000000003
Total PeCDD	0.000000010	0.00000006				0.000000003 C
Total HpCDD	0.00000003	0.0000002				0.000000006
Total HpCDF	0.00000007	0.0000002				0.000000010
1,2,3,4,6,7,8,9-OCDF	0.00000003	0.00000003 C				0.000000002 B
1,2,3,4,7,8-HxCDD	0.0000000009	0.000000009				0.0000000007 U
1,2,3,7,8-PeCDD	0.0000000005	0.000000004 U				0.0000000007 U
Total TCDD	0.000000006	0.00000005				0.000000003
2,3,7,8-TCDF	0.0000000009	0.000000005 C				0.0000000003 U
1,2,3,4,7,8,9-HpCDF	0.000000007	0.00000001				0.0000000009
Total HxCDF	0.00000006	0.0000003				0.00000001
Total TCDF	0.00000004	0.0000002				0.00000001
2,3,4,7,8-PeCDF	0.000000003	0.00000002				0.000000001
1,2,3,7,8-PeCDF	0.000000001	0.000000008				0.0000000006 C
1,2,3,6,7,8-HxCDF	0.000000004	0.00000002				0.000000001
1,2,3,6,7,8-HxCDD	0.000000001	0.00000001				0.0000000004 C
2,3,4,6,7,8-HxCDF	0.00000001 PR	0.00000005 PR				0.000000003 PR
1,2,3,4,6,7,8-HpCDF	0.00000003	0.0000001				0.000000005 PR
1,2,3,4,7,8-HxCDF	0.00000001 PR	0.00000006 PR				0.000000002 PR
1,2,3,7,8,9-HxCDF	0.0000000005 PR	0.000000005 U				0.0000000006 U
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	RUN #11 LOCATION 1	RUN #15 SITE 1	RUN 19 LOCATION 1	RUN 21 LOCATION 1	RUN#16 LOCATION 1	RUN#3 SITE #1
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	RUN #11 LOCATION 1	RUN #15 SITE 1	RUN 19 LOCATION 1	RUN 21 LOCATION 1	RUN#16 LOCATION 1	RUN#3 SITE #1
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000004 U	0.0000000004 U	0.0000000007 U	0.0000000004 U	0.0000000003 U	0.000000001 U
1,2,3,7,8,9-HxCDD	0.0000000005 U	0.0000000008 U	0.000000001 U	0.0000000007 U	0.0000000006	0.000000002 U
Total PeCDF	0.00000001	0.00000002	0.000000008	0.00000002	0.00000002	0.000000001 U
1,2,3,4,6,7,8,9-OCDD	0.000000004 B	0.000000008 BC	0.00000002	0.00000001	0.000000009	0.000000003 C

Background

Constituent / Sample ID:	RUN #11 LOCATION 1	RUN #15 SITE 1	RUN 19 LOCATION 1	RUN 21 LOCATION 1	RUN#16 LOCATION 1	RUN#3 SITE #1
Total HxCDD	0.000000003	0.000000004	0.000000002	0.000000009	0.000000004	0.000000002 U
1,2,3,4,6,7,8-HpCDD	0.000000001	0.000000006	0.000000005	0.000000005	0.000000003	0.000000003 U
Total PeCDD	0.000000003	0.000000003	0.000000001 C	0.000000003 C	0.000000003	0.000000002 U
Total HpCDD	0.000000002	0.00000001	0.00000001	0.00000001	0.000000007	0.000000003 U
Total HpCDF	0.000000004	0.00000004 C	0.00000001	0.00000001	0.00000001	0.000000002
1,2,3,4,6,7,8,9-OCDF	0.000000001 B	0.00000002	0.000000007	0.000000005	0.000000008 B	0.000000003 U
1,2,3,4,7,8-HxCDD	0.0000000006 U	0.0000000009 U	0.000000001 U	0.0000000008 U	0.0000000006 U	0.000000003 U
1,2,3,7,8-PeCDD	0.0000000007 U	0.0000000007 U	0.0000000010 U	0.0000000006 U	0.0000000005 U	0.000000002 U
Total TCDD	0.000000001	0.000000003 C	0.000000003 C	0.000000005	0.000000003	0.000000001 U
2,3,7,8-TCDF	0.0000000009 U	0.000000002 U	0.0000000003 C	0.000000001	0.0000000006	0.000000001 U
1,2,3,4,7,8,9-HpCDF	0.0000000007 U	0.000000005 C	0.000000001 C	0.000000002	0.000000002 C	0.000000003 U
Total HxCDF	0.000000007	0.00000003	0.00000001	0.00000001	0.00000002	0.000000002 U
Total TCDF	0.000000009	0.00000001	0.00000002	0.00000004	0.00000002	0.000000001 U
2,3,4,7,8-PeCDF	0.000000001 C	0.000000002	0.000000001	0.000000002	0.000000002	0.000000001 U
1,2,3,7,8-PeCDF	0.0000000005 U	0.0000000005 U	0.0000000008 U	0.000000002	0.0000000007 C	0.000000001 U
1,2,3,6,7,8-HxCDF	0.0000000007	0.000000002	0.000000001	0.000000002	0.000000002	0.000000002 U
1,2,3,6,7,8-HxCDD	0.0000000005 U	0.0000000008 U	0.000000001 U	0.0000000008 U	0.0000000005 PR	0.000000002 U
2,3,4,6,7,8-HxCDF	0.000000002 PR	0.000000008 PR	0.000000003 PR	0.000000004	0.000000005 B	0.000000002 U
1,2,3,4,6,7,8-HpCDF	0.000000003	0.00000002 C	0.000000007	0.000000008	0.000000009 B	0.000000002 PR
1,2,3,4,7,8-HxCDF	0.000000002 PR	0.000000005 PRC	0.000000003 PR	0.000000005	0.000000004	0.000000002 U
1,2,3,7,8,9-HxCDF	0.0000000005 U	0.0000000009 U	0.000000001 U	0.0000000006 U	0.0000000005 U	0.000000002 U
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	RUN#4 SITE #1	RUN#5 SITE#1	RUN#6 SITE#1	RUN#7 LOCATION#1	RUN#8 LOCATION#1	RUN#9 LOCATION#1
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						

Background

Constituent / Sample ID:	RUN#4 SITE #1	RUN#5 SITE#1	RUN#6 SITE#1	RUN#7 LOCATION#1	RUN#8 LOCATION#1	RUN#9 LOCATION#1
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000005 U	0.0000000002 U	0.0000000006 U	0.000000002 U	0.000000001 U	0.0000000010 U
1,2,3,7,8,9-HxCDD	0.0000000007 U	0.0000000004 U	0.0000000006 U	0.000000002 U	0.000000002	0.000000001 U
Total PeCDF	0.00000001	0.000000005	0.000000003	0.00000005	0.00000006	0.00000002
1,2,3,4,6,7,8,9-OCDD	0.000000004	0.00000001	0.000000004 C	0.00000002 B	0.00000002 B	0.00000002

Background

Constituent / Sample ID:	RUN#4 SITE #1	RUN#5 SITE#1	RUN#6 SITE#1	RUN#7 LOCATION#1	RUN#8 LOCATION#1	RUN#9 LOCATION#1
Total HxCDD	0.000000005	0.000000003	0.000000001	0.000000005	0.00000002	0.000000002
1,2,3,4,6,7,8-HpCDD	0.000000002 C	0.000000005	0.000000002	0.000000006 C	0.00000001	0.000000007
Total PeCDD	0.000000006	0.000000001	0.0000000008 U	0.000000003 U	0.000000003	0.000000002 C
Total HpCDD	0.000000002	0.00000001	0.000000003	0.000000006	0.00000002	0.00000001
Total HpCDF	0.000000002 C	0.00000001	0.000000004	0.00000005	0.00000010	0.00000003
1,2,3,4,6,7,8,9-OCDF	0.0000000008 U	0.000000004	0.000000002 C	0.00000002	0.00000003	0.00000002
1,2,3,4,7,8-HxCDD	0.0000000008 U	0.0000000005 U	0.0000000007 U	0.000000002 U	0.000000002 U	0.000000001 U
1,2,3,7,8-PeCDD	0.0000000006 U	0.0000000002 U	0.0000000008 U	0.000000003 U	0.000000002 U	0.000000001 U
Total TCDD	0.00000001	0.000000001	0.000000001	0.000000002 U	0.000000005	0.000000006
2,3,7,8-TCDF	0.0000000006 U	0.000000001 U	0.0000000004 C	0.000000002	0.000000002 U	0.0000000006
1,2,3,4,7,8,9-HpCDF	0.0000000009 U	0.000000001	0.0000000006 U	0.000000006 C	0.000000009 C	0.000000004 C
Total HxCDF	0.000000009	0.00000001	0.000000008	0.00000005	0.00000008	0.00000003
Total TCDF	0.00000003	0.00000001	0.00000001	0.00000004	0.00000005	0.00000002
2,3,4,7,8-PeCDF	0.0000000010 C	0.0000000007	0.000000001	0.000000005	0.000000005 C	0.000000003
1,2,3,7,8-PeCDF	0.0000000006	0.0000000003 C	0.0000000005 U	0.000000002 C	0.000000001 C	0.000000001 U
1,2,3,6,7,8-HxCDF	0.0000000007	0.0000000008	0.0000000010	0.000000004	0.000000005	0.000000002
1,2,3,6,7,8-HxCDD	0.0000000007 U	0.0000000004 U	0.0000000006 U	0.000000002 U	0.000000002	0.0000000009 U
2,3,4,6,7,8-HxCDF	0.000000002 PR	0.000000002	0.000000001 C	0.00000001 B	0.00000002	0.000000007
1,2,3,4,6,7,8-HpCDF	0.000000002 C	0.000000005	0.000000004	0.00000002	0.00000005	0.00000001
1,2,3,4,7,8-HxCDF	0.000000002 PR	0.000000002	0.000000002	0.000000009	0.00000001	0.000000006
1,2,3,7,8,9-HxCDF	0.0000000007 U	0.0000000003 U	0.0000000005 U	0.0000000007	0.000000001 U	0.000000001 U
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	Run # 3 - Location # 1	Run # 4 - Location # 1	Run # 4 - Location #	Run # 9 - Location # 1	Run #1, Location #1	Run #1, Location #1-DUP
Inorganics (MG/M3)						
Cr_VI						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)	0.004	0.004	0.004	0.005	0.003	0.003
Styrene (MG/M3)	0.002	0.0010	0.0010	0.0010	0.0008 ND	0.0008 ND
cis-1,3-Dichloropropene (MG/M3	0.0002 ND	0.0003	0.0002	0.0002 ND	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.001 ND	0.002	0.002	0.003	0.001 ND	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND	0.0008 ND	0.0004	0.0008 ND	0.0008 ND

Background

Constituent / Sample ID:	Run # 3 - Location # 1	Run # 4 - Location # 1	Run # 4 - Location #	Run # 9 - Location # 1	Run #1, Location #1	Run #1, Location #1-DUP
m,p-Xylene (MG/M3)	0.005	0.007	0.007	0.007	0.006	0.006
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND	0.0009 ND	0.0009 ND	0.0009 ND
Toluene (MG/M3)	0.06	0.02	0.02	0.03	0.008	0.008
Tetrachloroethene (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001 ND	0.001 ND	0.001 ND
Toluene-d8 (%)	103.00	115.00	112.00	106.00	108.00	102.00
Toluene-d8 (%R)	103.00	115.00	112.00	106.00	108.00	102.00
Octafluorotoluene (%)	99.00	104.00	102.00	90.00	104.00	103.00
Octafluorotoluene (%R)	99.00	104.00	102.00	90.00	104.00	103.00
4-Bromofluorobenzene (%)	122.00	124.00	127.00	95.00	114.00	120.00
4-Bromofluorobenzene (%R)	122.00	124.00	127.00	95.00	114.00	120.00
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.0007	0.001 ND	0.001 ND
Chloroform (MG/M3)	0.0002	0.0002	0.0003	0.0003	0.0002 ND	0.0002 ND
Benzene (MG/M3)	0.003	0.005	0.005	0.006	0.001	0.001
1,1,1-Trichloroethane (MG/M3)	0.001	0.0010 ND	0.0010 ND	0.0010 ND	0.0010 ND	0.0010 ND
Bromomethane (MG/M3)	0.001	0.001	0.001	0.002	0.002	0.001
Chloromethane (MG/M3)	0.001	0.002	0.002	0.002	0.002	0.002
Chloroethane (MG/M3)	0.001	0.0005 ND	0.0005 ND	0.0005 ND	0.0005 ND	0.0005 ND
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND	0.00010 ND	0.00009	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)	0.002	0.002	0.002	0.002	0.002	0.001
Freon 12 (MG/M3)	0.007	0.006	0.004	0.004	0.006	0.006
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND	0.0005	0.0009 ND	0.0009 ND
Trichloroethene (MG/M3)	0.001	0.0010 ND	0.0010 ND	0.002	0.0010 ND	0.0010 ND
o-Xylene (MG/M3)	0.002	0.003	0.003	0.003	0.002	0.002
1,2,4-Trimethylbenzene (MG/M3)	0.002	0.002	0.003	0.003	0.003	0.003
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						

Background

Constituent / Sample ID:	Run # 3 - Location # 1	Run # 4 - Location # 1	Run # 4 - Location #	Run # 9 - Location # 1	Run #1, Location #1	Run #1, Location #1-DUP
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass						

Background

Constituent / Sample ID:	Run #2 - Location #1	Run #7 - Location #1	Run #8 - Location #1	SITE 1 RUN 13	SITE#1 RUN 14
Inorganics (MG/M3)					
Cr_VI					
Pb					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Particulates (MG/M3)					
PM10					
Volatile/Semi-Volatile Organic					
Benzaldehyde					
Propanal					
Formaldehyde					
Acetone					
Acetaldehyde					
Methyl Ethyl Ketone/Butyraldeh					
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)	0.002	0.010	0.007		
Styrene (MG/M3)	0.0008 ND	0.002	0.0010		
cis-1,3-Dichloropropene (MG/M3	0.0002	0.0002 ND	0.0002 ND		
trans-1,3-Dichloropropene (MG/	0.001	0.0008 ND	0.0008 ND		
1,4-Dichlorobenzene (MG/M3)	0.002	0.001 ND	0.001 ND		
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND	0.0008 ND		

Background

Constituent / Sample ID:	Run #2 - Location #1	Run #7 - Location #1	Run #8 - Location #1	SITE 1 RUN 13	SITE#1 RUN 14
m,p-Xylene (MG/M3)	0.003	0.008	0.008		
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND		
Toluene (MG/M3)	0.010	0.02	0.04		
Tetrachloroethene (MG/M3)	0.001 ND	0.001 ND	0.002		
Toluene-d8 (%)	96.00	106.00	106.00		
Toluene-d8 (%R)	96.00	106.00	106.00		
Octafluorotoluene (%)	90.00	105.00	106.00		
Octafluorotoluene (%R)	90.00	105.00	106.00		
4-Bromofluorobenzene (%)	96.00	107.00	119.00		
4-Bromofluorobenzene (%R)	96.00	107.00	119.00		
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND	0.001 ND		
Chloroform (MG/M3)	0.0002	0.0002 ND	0.0002		
Benzene (MG/M3)	0.002	0.003	0.004		
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.0010 ND	0.0010 ND		
Bromomethane (MG/M3)	0.0006 ND	0.0008	0.002		
Chloromethane (MG/M3)	0.002	0.002	0.002		
Chloroethane (MG/M3)	0.0005 ND	0.0005 ND	0.0005 ND		
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND	0.00010 ND		
Freon 11 (MG/M3)	0.002	0.002	0.002		
Freon 12 (MG/M3)	0.004	0.005	0.007		
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND		
Trichloroethene (MG/M3)	0.001	0.002	0.002		
o-Xylene (MG/M3)	0.001	0.003	0.003		
1,2,4-Trimethylbenzene (MG/M3)	0.003	0.003	0.003		
Dioxins/Furans (MG/M3)					
2,3,7,8-TCDD				0.0000000004	0.0000000004 U
1,2,3,7,8,9-HxCDD				0.000000001 PR	0.0000000005
Total PeCDF				0.00000003	0.000000010
1,2,3,4,6,7,8,9-OCDD				0.00000002 B	0.000000004 B

Background

Constituent / Sample ID:	Run #2 - Location #1	Run #7 - Location #1	Run #8 - Location #1	SITE 1 RUN 13	SITE#1 RUN 14
Total HxCDD				0.000000010	0.000000002
1,2,3,4,6,7,8-HpCDD				0.000000009 C	0.000000002
Total PeCDD				0.000000003	0.000000001
Total HpCDD				0.000000009	0.000000004
Total HpCDF				0.00000004	0.000000007
1,2,3,4,6,7,8,9-OCDF				0.00000002 C	0.000000003 C
1,2,3,4,7,8-HxCDD				0.0000000008 C	0.0000000007 U
1,2,3,7,8-PeCDD				0.0000000009 U	0.0000000007 U
Total TCDD				0.000000005	0.000000002 C
2,3,7,8-TCDF				0.000000001 U	0.0000000006 U
1,2,3,4,7,8,9-HpCDF				0.000000005 C	0.0000000009 C
Total HxCDF				0.00000004	0.000000010
Total TCDF				0.00000002	0.00000001
2,3,4,7,8-PeCDF				0.000000003	0.0000000010 C
1,2,3,7,8-PeCDF				0.000000001	0.0000000004 C
1,2,3,6,7,8-HxCDF				0.000000003	0.0000000008
1,2,3,6,7,8-HxCDD				0.000000001 C	0.0000000006 U
2,3,4,6,7,8-HxCDF				0.000000009 PR	0.000000002 PR
1,2,3,4,6,7,8-HpCDF				0.00000002	0.000000005
1,2,3,4,7,8-HxCDF				0.000000007 PR	0.000000002 PR
1,2,3,7,8,9-HxCDF				0.0000000008 C	0.0000000005 U
TSP (MG/M3)					
Net_Mass					

Location 2

Constituent / Sample ID:	2-GOLF SOUTH	97-M438	97-M458	97-M468	97-M478	97-M488
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 2

Constituent / Sample ID:	2-GOLF SOUTH	97-M438	97-M458	97-M468	97-M478	97-M488
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD	0.0000000002 C					
Total PeCDF	0.000000004					
1,2,3,4,6,7,8,9-OCDD	0.000000003 B					
Total HxCDD	0.0000000002					
1,2,3,4,6,7,8-HpCDD	0.000000001					
Total PeCDD	0.000000001 C					
Total HpCDD	0.000000002					
Total HpCDF	0.000000004					
1,2,3,4,6,7,8,9-OCDF	0.000000002					
1,2,3,4,7,8-HxCDD	0.0000000002 U					
1,2,3,7,8-PeCDD	0.0000000002 U					
Total TCDD	0.000000003					
2,3,7,8-TCDF	0.0000000001 U					
1,2,3,4,7,8,9-HpCDF	0.0000000004 C					
Total HxCDF	0.000000004					

Location 2

Constituent / Sample ID:	2-GOLF SOUTH	97-M438	97-M458	97-M468	97-M478	97-M488
Total TCDF	0.000000009					
2,3,4,7,8-PeCDF	0.0000000004 C					
1,2,3,7,8-PeCDF	0.0000000001 U					
1,2,3,6,7,8-HxCDF	0.0000000003					
1,2,3,6,7,8-HxCDD	0.0000000001 U					
2,3,4,6,7,8-HxCDF	0.000000001					
1,2,3,4,6,7,8-HpCDF	0.000000003					
1,2,3,4,7,8-HxCDF	0.0000000006 C					
1,2,3,7,8,9-HxCDF	0.0000000001 U					
TSP (MG/M3)						
Net_Mass						

Location 2

Constituent / Sample ID:	97-M505	97-M515	97-M527	97-Q1255	97-Q1256	97-Q1288
Inorganics (MG/M3)						
Pb				0.00008		0.0002
Ni				0.00002 U		0.00004
Ag				0.00001 U		0.00001 U
Sb				0.0002		0.0001 U
As				0.00001		0.00002
Be				0.000001 U		0.000002
Cd				0.000002		0.000005
Cr				0.00002		0.00005
Cu				0.0004		0.0004
Zn				0.0003		0.0008
Se				0.0002 U		0.0002
Particulates (MG/M3)						
PM10					0.09	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 2

Constituent / Sample ID:	97-M505	97-M515	97-M527	97-Q1255	97-Q1256	97-Q1288
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 2

Constituent / Sample ID:	97-M505	97-M515	97-M527	97-Q1255	97-Q1256	97-Q1288
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass				0.12		0.33

Location 2

Constituent / Sample ID:	97-Q1289	97-Q1315	97-Q1316	97-Q1321	97-Q1322	97-Q1343
Inorganics (MG/M3)						
Pb			0.00004	0.0001		0.00008
Ni			0.00002 U	0.00002		0.00002
Ag			0.00001 U	0.00001 U		0.00001 U
Sb			0.00008 U	0.00009 U		0.00009 U
As			0.000003	0.000006		0.000006
Be			0.0000008 U	0.0000009 U		0.0000009 U
Cd			0.000002	0.000002		0.000002
Cr			0.00003	0.00001		0.00001
Cu			0.0005	0.0003		0.0002
Zn			0.0002	0.0002		0.0002
Se			0.0002 U	0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10	0.12	0.09			0.12	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 2

Constituent / Sample ID:	97-Q1289	97-Q1315	97-Q1316	97-Q1321	97-Q1322	97-Q1343
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 2

Constituent / Sample ID:	97-Q1289	97-Q1315	97-Q1316	97-Q1321	97-Q1322	97-Q1343
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass			0.09	0.13		0.16

Location 2

Constituent / Sample ID:	97-Q1344	97-Q1386	97-Q1387	97-Q1407	97-Q1409	97-Q1424
Inorganics (MG/M3)						
Pb		0.00007		0.00006		0.0002
Ni		0.00002		0.00002 U		0.00003
Ag		0.000009 U		0.00001		0.00001
Sb		0.00008 U		0.00010 U		0.0001 U
As		0.00001		0.000002 U		0.000004
Be		0.0000008 U		0.0000010 U		0.0000010 U
Cd		0.000002		0.000001		0.000004
Cr		0.00001		0.00001		0.00001
Cu		0.0002		0.0003		0.0005
Zn		0.0002		0.0001		0.0004
Se		0.0002 U		0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10	0.15		0.07		0.06	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 2

Constituent / Sample ID:	97-Q1344	97-Q1386	97-Q1387	97-Q1407	97-Q1409	97-Q1424
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 2

Constituent / Sample ID:	97-Q1344	97-Q1386	97-Q1387	97-Q1407	97-Q1409	97-Q1424
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.08		0.07		0.15

Location 2

Constituent / Sample ID:	97-Q1425 RUN # 5-LOCATION # 2	RUN # 6-LOCATION # 2	RUN#3 SITE #2	RUN#4 SITE #2	RUN#5 SITE#2
Inorganics (MG/M3)					
Pb					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Se					
Particulates (MG/M3)					
PM10	0.12				
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)	0.002	0.002			
Styrene (MG/M3)	0.0008	0.0008 ND			
cis-1,3-Dichloropropene (MG/M3	0.0009	0.0002 ND			
trans-1,3-Dichloropropene (MG/	0.002	0.0008 ND			
1,4-Dichlorobenzene (MG/M3)	0.004	0.004			
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND			
m,p-Xylene (MG/M3)	0.004	0.002			
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009 ND			
Toluene (MG/M3)	0.01	0.009			
Tetrachloroethene (MG/M3)	0.001 ND	0.001 ND			
Toluene-d8 (%)	92.00	94.00			
Toluene-d8 (%R)	92.00	94.00			
Octafluorotoluene (%)	86.00	90.00			

Location 2

Constituent / Sample ID:	97-Q1425 RUN # 5-LOCATION # 2	RUN # 6-LOCATION # 2	RUN#3 SITE #2	RUN#4 SITE #2	RUN#5 SITE#2
Octafluorotoluene (%R)	86.00	90.00			
4-Bromofluorobenzene (%)	102.00	100.00			
4-Bromofluorobenzene (%R)	102.00	100.00			
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND			
Chloroform (MG/M3)	0.0003	0.0003			
Benzene (MG/M3)	0.004	0.004			
Bromomethane (MG/M3)	0.0007	0.0006 ND			
Chloromethane (MG/M3)	0.002	0.002			
Freon 11 (MG/M3)	0.002	0.002			
Freon 12 (MG/M3)	0.004	0.004			
Trichloroethene (MG/M3)	0.0010 ND	0.0010 ND			
o-Xylene (MG/M3)	0.002	0.0010			
1,2,4-Trimethylbenzene (MG/M3)	0.003	0.0007 ND			
Dioxins/Furans (MG/M3)					
1,2,3,7,8,9-HxCDD			0.000000001 PR	0.000000002 PRC	0.0000000006 C
Total PeCDF			0.00000002	0.00000003	0.00000001
1,2,3,4,6,7,8,9-OCDD			0.00000002	0.000000009 B	0.00000001
Total HxCDD			0.000000009	0.00000002	0.000000010
1,2,3,4,6,7,8-HpCDD			0.000000008	0.000000006 C	0.000000005 C
Total PeCDD			0.000000009 C	0.00000001	0.000000008
Total HpCDD			0.000000008	0.000000008	0.000000006
Total HpCDF			0.00000002	0.00000002	0.00000002
1,2,3,4,6,7,8,9-OCDF			0.00000001	0.000000005	0.000000007
1,2,3,4,7,8-HxCDD			0.000000001 U	0.0000000006 U	0.0000000009 U
1,2,3,7,8-PeCDD			0.0000000009 U	0.0000000010	0.0000000005 U
Total TCDD			0.000000008	0.00000002	0.000000007
2,3,7,8-TCDF			0.000000001	0.0000000008	0.000000001 U
1,2,3,4,7,8,9-HpCDF			0.000000003 C	0.000000003	0.000000002
Total HxCDF			0.00000003	0.00000002	0.00000002

Location 2

Constituent / Sample ID:	97-Q1425 RUN # 5-LOCATION # 2 RUN # 6-LOCATION # 2	RUN#3 SITE #2	RUN#4 SITE #2	RUN#5 SITE#2
Total TCDF		0.00000005	0.00000005	0.00000003
2,3,4,7,8-PeCDF		0.000000002	0.000000002	0.000000001
1,2,3,7,8-PeCDF		0.000000001	0.000000001	0.0000000008
1,2,3,6,7,8-HxCDF		0.000000002	0.000000002	0.000000001
1,2,3,6,7,8-HxCDD		0.000000001	0.000000002	0.0000000007
2,3,4,6,7,8-HxCDF		0.000000004 PR	0.000000004 PRB	0.000000004
1,2,3,4,6,7,8-HpCDF		0.00000001 PR	0.000000009	0.000000009
1,2,3,4,7,8-HxCDF		0.000000006 PR	0.000000006 PR	0.000000003
1,2,3,7,8,9-HxCDF		0.0000000009 U	0.0000000005 U	0.0000000002
TSP (MG/M3)				
Net_Mass				

Location 2

Constituent / Sample ID:	RUN#6 SITE#2	RUN#7 LOCATION#2	RUN#8 LOCATION#2	RUN#9 LOCATION#2	Run # 3 - Location # 2	Run # 4 - Location # 2
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)					0.002	0.003
Styrene (MG/M3)					0.0009	0.001
cis-1,3-Dichloropropene (MG/M3					0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/					0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)					0.001 ND	0.002
1,2-Dichloroethane (MG/M3)					0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)					0.002	0.004
1,3,5-Trimethylbenzene (MG/M3)					0.0009 ND	0.0009 ND
Toluene (MG/M3)					0.007	0.02
Tetrachloroethene (MG/M3)					0.001 ND	0.001 ND
Toluene-d8 (%)					111.00	115.00
Toluene-d8 (%R)					111.00	115.00
Octafluorotoluene (%)					100.00	102.00

Location 2

Constituent / Sample ID:	RUN#6 SITE#2	RUN#7 LOCATION#2	RUN#8 LOCATION#2	RUN#9 LOCATION#2	Run # 3 - Location # 2	Run # 4 - Location # 2
Octafluorotoluene (%R)					100.00	102.00
4-Bromofluorobenzene (%)					114.00	115.00
4-Bromofluorobenzene (%R)					114.00	115.00
Carbon Tetrachloride (MG/M3)					0.001 ND	0.001 ND
Chloroform (MG/M3)					0.0002 ND	0.0002
Benzene (MG/M3)					0.002	0.004
Bromomethane (MG/M3)					0.0010	0.0008
Chloromethane (MG/M3)					0.002	0.002
Freon 11 (MG/M3)					0.002	0.002
Freon 12 (MG/M3)					0.007	0.006
Trichloroethene (MG/M3)					0.0010 ND	0.001
o-Xylene (MG/M3)					0.0006 ND	0.002
1,2,4-Trimethylbenzene (MG/M3)					0.0007 ND	0.002
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD	0.0000000007 U	0.0000000005	0.000000003	0.000000001		
Total PeCDF	0.00000001	0.00000002	0.00000010	0.00000002		
1,2,3,4,6,7,8,9-OCDD	0.000000004	0.00000002 C	0.00000003	0.00000002		
Total HxCDD	0.000000002	0.000000001	0.00000003	0.000000007		
1,2,3,4,6,7,8-HpCDD	0.000000001	0.000000006	0.00000002	0.000000006		
Total PeCDD	0.0000000009	0.000000002	0.00000001	0.000000002		
Total HpCDD	0.000000003	0.00000001	0.00000004	0.00000001		
Total HpCDF	0.000000003	0.00000002	0.0000001	0.00000002		
1,2,3,4,6,7,8,9-OCDF	0.000000001 C	0.00000001	0.00000004	0.00000002		
1,2,3,4,7,8-HxCDD	0.0000000008 U	0.0000000008 U	0.000000001	0.0000000008		
1,2,3,7,8-PeCDD	0.0000000006 U	0.000000001 U	0.0000000006 C	0.000000001 U		
Total TCDD	0.000000001	0.000000001 C	0.000000008	0.000000003		
2,3,7,8-TCDF	0.0000000005 C	0.0000000006 U	0.000000002 U	0.0000000006		
1,2,3,4,7,8,9-HpCDF	0.0000000009 U	0.000000005 C	0.00000001	0.000000005		
Total HxCDF	0.000000002	0.00000002	0.0000001	0.00000003		

Location 2

Constituent / Sample ID:	RUN#6 SITE#2	RUN#7 LOCATION#2	RUN#8 LOCATION#2	RUN#9 LOCATION#2	Run # 3 - Location # 2	Run # 4 - Location # 2
Total TCDF	0.00000002	0.00000001	0.00000010	0.00000003		
2,3,4,7,8-PeCDF	0.0000000010	0.000000002	0.000000007	0.000000003 C		
1,2,3,7,8-PeCDF	0.0000000004 PRC	0.0000000006	0.000000002 EC	0.000000001		
1,2,3,6,7,8-HxCDF	0.0000000006 C	0.000000001	0.000000007	0.000000002		
1,2,3,6,7,8-HxCDD	0.0000000008 U	0.0000000007 U	0.000000002	0.0000000010		
2,3,4,6,7,8-HxCDF	0.0000000009 C	0.000000005 B	0.00000002	0.000000008		
1,2,3,4,6,7,8-HpCDF	0.000000003	0.00000001	0.00000006	0.00000001 C		
1,2,3,4,7,8-HxCDF	0.0000000006 U	0.000000004	0.00000002	0.000000007		
1,2,3,7,8,9-HxCDF	0.0000000006 U	0.0000000006 C	0.0000000008 C	0.0000000006		
TSP (MG/M3)						
Net_Mass						

Location 2

Constituent / Sample ID:	Run # 9 - Location # 2	Run #2 - Location #2	Run #7 - Location #2	Run #8 - Location #2	Run #8 - Location
Inorganics (MG/M3)					
Pb					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Se					
Particulates (MG/M3)					
PM10					
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)	0.003	0.001	0.005	0.007	0.008
Styrene (MG/M3)	0.0008 ND	0.0008 ND	0.0008	0.001	0.001
cis-1,3-Dichloropropene (MG/M3	0.0002 ND	0.0002 ND	0.0002 ND	0.0002	0.0002
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.002	0.001	0.001 ND	0.001 ND	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0002	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)	0.004	0.003	0.005	0.008	0.008
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND	0.001	0.0009
Toluene (MG/M3)	0.01	0.007	0.02	0.04	0.04
Tetrachloroethene (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001	0.001
Toluene-d8 (%)	101.00	92.00	108.00	104.00	115.00
Toluene-d8 (%R)	101.00	92.00	108.00	104.00	115.00
Octafluorotoluene (%)	109.00	88.00	96.00	96.00	99.00

Location 2

Constituent / Sample ID:	Run # 9 - Location # 2	Run #2 - Location #2	Run #7 - Location #2	Run #8 - Location #2	Run #8 - Location
Octafluorotoluene (%R)	109.00	88.00	96.00	96.00	99.00
4-Bromofluorobenzene (%)	115.00	98.00	108.00	102.00	107.00
4-Bromofluorobenzene (%R)	115.00	98.00	108.00	102.00	107.00
Carbon Tetrachloride (MG/M3)	0.0004	0.001 ND	0.001 ND	0.001 ND	0.001 ND
Chloroform (MG/M3)	0.0002	0.0002 ND	0.0002 ND	0.0002	0.0002
Benzene (MG/M3)	0.002	0.002	0.002	0.004	0.004
Bromomethane (MG/M3)	0.002	0.0006 ND	0.0008	0.003	0.003
Chloromethane (MG/M3)	0.002	0.001	0.002	0.001	0.002
Freon 11 (MG/M3)	0.0008 ND	0.002	0.002	0.002	0.002
Freon 12 (MG/M3)	0.002	0.003	0.006	0.007	0.008
Trichloroethene (MG/M3)	0.0010 ND	0.0010 ND	0.004	0.001	0.001
o-Xylene (MG/M3)	0.002	0.001	0.002	0.003	0.003
1,2,4-Trimethylbenzene (MG/M3)	0.002	0.003	0.002	0.006	0.005
Dioxins/Furans (MG/M3)					
1,2,3,7,8,9-HxCDD					
Total PeCDF					
1,2,3,4,6,7,8,9-OCDD					
Total HxCDD					
1,2,3,4,6,7,8-HpCDD					
Total PeCDD					
Total HpCDD					
Total HpCDF					
1,2,3,4,6,7,8,9-OCDF					
1,2,3,4,7,8-HxCDD					
1,2,3,7,8-PeCDD					
Total TCDD					
2,3,7,8-TCDF					
1,2,3,4,7,8,9-HpCDF					
Total HxCDF					

Location 2

Constituent / Sample ID:	Run # 9 - Location # 2	Run #2 - Location #2	Run #7 - Location #2	Run #8 - Location #2	Run #8 - Location
Total TCDF					
2,3,4,7,8-PeCDF					
1,2,3,7,8-PeCDF					
1,2,3,6,7,8-HxCDF					
1,2,3,6,7,8-HxCDD					
2,3,4,6,7,8-HxCDF					
1,2,3,4,6,7,8-HpCDF					
1,2,3,4,7,8-HxCDF					
1,2,3,7,8,9-HxCDF					
TSP (MG/M3)					
Net_Mass					

Location 3

Constituent	Sample ID:	3-GOLF NORTH	97-M439	97-M469	97-M479	97-M489	97-M506
Inorganics (MG/M3)							
Pb							
Ni							
Ag							
Sb							
As							
Be							
Cd							
Cr							
Cu							
Zn							
Se							
Particulates (MG/M3)							
PM10							
Volatile/Semi-Volatile Organic							
Ethyl Benzene (MG/M3)							
Styrene (MG/M3)							
cis-1,3-Dichloropropene (MG/M3							
trans-1,3-Dichloropropene (MG/							
1,4-Dichlorobenzene (MG/M3)							
1,2-Dichloroethane (MG/M3)							
m,p-Xylene (MG/M3)							
1,3,5-Trimethylbenzene (MG/M3)							
Toluene (MG/M3)							
Tetrachloroethene (MG/M3)							
cis-1,2-Dichloroethene (MG/M3)							
Toluene-d8 (%)							
Toluene-d8 (%R)							

Location 3

Constituent / Sample ID:	3-GOLF NORTH	97-M439	97-M469	97-M479	97-M489	97-M506
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000002 U					
1,2,3,7,8,9-HxCDD	0.0000000008					
Total PeCDF	0.00000001					
1,2,3,4,6,7,8,9-OCDD	0.000000007 B					
Total HxCDD	0.000000003					
1,2,3,4,6,7,8-HpCDD	0.000000004					
Total PeCDD	0.000000004					
Total HpCDD	0.000000007					
Total HpCDF	0.00000001					
1,2,3,4,6,7,8,9-OCDF	0.000000003					
1,2,3,4,7,8-HxCDD	0.0000000003 U					

Location 3

Constituent / Sample ID:	3-GOLF NORTH	97-M439	97-M469	97-M479	97-M489	97-M506
1,2,3,7,8-PeCDD	0.0000000003 U					
Total TCDD	0.000000009					
2,3,7,8-TCDF	0.0000000007					
1,2,3,4,7,8,9-HpCDF	0.0000000010					
Total HxCDF	0.00000001					
Total TCDF	0.00000002					
2,3,4,7,8-PeCDF	0.000000001					
1,2,3,7,8-PeCDF	0.0000000007 PRC					
1,2,3,6,7,8-HxCDF	0.0000000009					
1,2,3,6,7,8-HxCDD	0.0000000006					
2,3,4,6,7,8-HxCDF	0.000000002					
1,2,3,4,6,7,8-HpCDF	0.000000006 PR					
1,2,3,4,7,8-HxCDF	0.000000002					
1,2,3,7,8,9-HxCDF	0.0000000003 U					
TSP (MG/M3)						
Net_Mass						

Location 3

Constituent / Sample ID:	97-M516	97-M528	97-Q1257	97-Q1258	97-Q1290	97-Q1291
Inorganics (MG/M3)						
Pb			0.0005		0.0003	
Ni			0.00003 U		0.00005	
Ag			0.00002 U		0.00001 U	
Sb			0.0002		0.0001 U	
As			0.00002		0.00004	
Be			0.000002		0.000001 U	
Cd			0.00006		0.000005	
Cr			0.00003		0.00003	
Cu			0.0003		0.0003	
Zn			0.001		0.0006	
Se			0.0003		0.0002 U	
Particulates (MG/M3)						
PM10				0.17		0.13
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 3

Constituent / Sample ID:	97-M516	97-M528	97-Q1257	97-Q1258	97-Q1290	97-Q1291
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						

Location 3

Constituent / Sample ID:	97-M516	97-M528	97-Q1257	97-Q1258	97-Q1290	97-Q1291
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass			0.24		0.29	

Location 3

Constituent / Sample ID:	97-Q1309	97-Q1310	97-Q1323	97-Q1324	97-Q1345	97-Q1346
Inorganics (MG/M3)						
Pb		0.00004	0.0001		0.0003	
Ni		0.00003	0.00002 U		0.00004	
Ag		0.00001 U	0.00001 U		0.00001 U	
Sb		0.00009 U	0.00009 U		0.00010 U	
As		0.000004	0.000005		0.000008	
Be		0.0000009 U	0.0000009 U		0.0000010 U	
Cd		0.000002	0.000002		0.000009	
Cr		0.00002	0.000009		0.00002	
Cu		0.0005	0.0003		0.0003	
Zn		0.0002	0.0002		0.0004	
Se		0.0002 U	0.0002 U		0.0002 U	
Particulates (MG/M3)						
PM10	0.11			0.12		0.14
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 3

Constituent / Sample ID:	97-Q1309	97-Q1310	97-Q1323	97-Q1324	97-Q1345	97-Q1346
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						

Location 3

Constituent / Sample ID:	97-Q1309	97-Q1310	97-Q1323	97-Q1324	97-Q1345	97-Q1346
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.10	0.12		0.20	

Location 3

Constituent / Sample ID:	97-Q1388	97-Q1389	97-Q1410	97-Q1411	97-Q1426	97-Q1427
Inorganics (MG/M3)						
Pb	0.0006		0.0007		0.0001	
Ni	0.00003		0.00002		0.00003	
Ag	0.00002		0.00002		0.00001 U	
Sb	0.00008 U		0.0003		0.00010 U	
As	0.000008		0.000003		0.000004	
Be	0.0000008 U		0.0000010 U		0.0000010 U	
Cd	0.000008		0.0001		0.000004	
Cr	0.00003		0.00001		0.00001	
Cu	0.0003		0.0007		0.0003	
Zn	0.0007		0.001		0.0004	
Se	0.0002 U		0.0002 U		0.0002 U	
Particulates (MG/M3)						
PM10		0.12		0.13		0.11
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 3

Constituent / Sample ID:	97-Q1388	97-Q1389	97-Q1410	97-Q1411	97-Q1426	97-Q1427
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						

Location 3

Constituent / Sample ID:	97-Q1388	97-Q1389	97-Q1410	97-Q1411	97-Q1426	97-Q1427
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.19		0.14		0.13	

Location 3

Constituent / Sample ID:	97-Q1448	97-Q1466	97-Q1498	97-Q1508	97-Q1511	97-Q1512
Inorganics (MG/M3)						
Pb	0.0004	0.0002	0.0005	0.001	0.0002	0.0002
Ni	0.00005	0.0004	0.0001	0.00003 U	0.00006	0.00008
Ag	0.000010 U	0.00001 U	0.00002	0.00002 U	0.00002 U	0.00002 U
Sb	0.00008 U	0.0001 U	0.0001 U	0.0002 U	0.0002 U	0.0002 U
As	0.000004	0.000006	0.00001	0.000004	0.000007	0.000006
Be	0.000002	0.000001 U	0.000002 U	0.000002 U	0.000002 U	0.000002 U
Cd	0.00001	0.000008	0.000007	0.00004	0.000006	0.00001
Cr	0.00006	0.00003	0.00005	0.00003	0.00008	0.00004
Cu	0.0004	0.0003	0.0003	0.0004	0.0002	0.0004
Zn	0.001	0.0009	0.001	0.002	0.0005	0.0006
Se	0.0002 U	0.0002 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 3

Constituent / Sample ID:	97-Q1448	97-Q1466	97-Q1498	97-Q1508	97-Q1511	97-Q1512
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						

Location 3

Constituent / Sample ID:	97-Q1448	97-Q1466	97-Q1498	97-Q1508	97-Q1511	97-Q1512
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.28	0.27	0.38	0.25	0.24	0.26

Location 3

Constituent / Sample ID:	LOCATION 3 LOCATION 3 OUTDOOR	LOCATION 3 RUN 12	LOCATION 3 RUN 25	Location3 Run26	RUN # 5-LOCATION # 3
Inorganics (MG/M3)					
Pb					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Se					
Particulates (MG/M3)					
PM10					
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)					0.002
Styrene (MG/M3)					0.0010
cis-1,3-Dichloropropene (MG/M3					0.0009
trans-1,3-Dichloropropene (MG/					0.002
1,4-Dichlorobenzene (MG/M3)					0.004
1,2-Dichloroethane (MG/M3)					0.0008 ND
m,p-Xylene (MG/M3)					0.004
1,3,5-Trimethylbenzene (MG/M3)					0.0009 ND
Toluene (MG/M3)					0.01
Tetrachloroethene (MG/M3)					0.001 ND
cis-1,2-Dichloroethene (MG/M3)					0.0007 ND
Toluene-d8 (%)					90.00
Toluene-d8 (%R)					90.00

Location 3

Constituent / Sample ID:	LOCATION 3	LOCATION 3 OUTDOOR	LOCATION 3 RUN 12	LOCATION 3 RUN 25	Location3 Run26	RUN # 5-LOCATION # 3
Octafluorotoluene (%)						86.00
Octafluorotoluene (%R)						86.00
4-Bromofluorobenzene (%)						102.00
4-Bromofluorobenzene (%R)						102.00
Carbon Tetrachloride (MG/M3)						0.001 ND
Chloroform (MG/M3)						0.0003
Benzene (MG/M3)						0.005
1,1,1-Trichloroethane (MG/M3)						0.0010 ND
Bromomethane (MG/M3)						0.0008
Chloromethane (MG/M3)						0.002
Vinyl Chloride (MG/M3)						0.00010 ND
Freon 11 (MG/M3)						0.002
Freon 12 (MG/M3)						0.004
1,2-Dichloropropane (MG/M3)						0.0009 ND
Trichloroethene (MG/M3)						0.0010 ND
o-Xylene (MG/M3)						0.002
1,2,4-Trimethylbenzene (MG/M3)						0.003
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000002 U	0.0000000003 U	0.0000000004 U	0.0000000002 U	0.0000000006 U	
1,2,3,7,8,9-HxCDD	0.0000000007	0.0000000006 U	0.000000001 C	0.000000002 PR	0.000000005 PR	
Total PeCDF	0.00000002	0.00000003	0.00000004	0.00000004	0.00000007	
1,2,3,4,6,7,8,9-OCDD	0.00000002	0.00000001	0.00000002 B	0.00000003	0.00000003	
Total HxCDD	0.000000008	0.000000007	0.00000001	0.00000001	0.00000003	
1,2,3,4,6,7,8-HpCDD	0.000000005	0.000000005	0.000000009	0.00000001	0.00000002	
Total PeCDD	0.000000004	0.000000005	0.0000000007	0.000000002	0.00000001	
Total HpCDD	0.00000001	0.000000010	0.00000002	0.00000002	0.00000004	
Total HpCDF	0.00000001	0.00000002	0.00000003	0.0000001	0.00000006	
1,2,3,4,6,7,8,9-OCDF	0.000000005	0.00000001	0.00000002	0.00000004	0.00000002	
1,2,3,4,7,8-HxCDD	0.0000000004	0.0000000006 U	0.0000000007 C	0.0000000009	0.000000002	

Location 3

Constituent / Sample ID:	LOCATION 3	LOCATION 3 OUTDOOR	LOCATION 3 RUN 12	LOCATION 3 RUN 25	Location3 Run26 RUN # 5-LOCATION # 3
1,2,3,7,8-PeCDD	0.0000000003 U	0.0000000005 U	0.0000000007	0.0000000005 C	0.0000000008 U
Total TCDD	0.000000005	0.00000001	0.000000008	0.000000005	0.00000001
2,3,7,8-TCDF	0.0000000006	0.0000000007	0.0000000006 C	0.0000000007	0.000000001
1,2,3,4,7,8,9-HpCDF	0.000000001	0.000000003	0.000000003 C	0.00000001	0.000000006
Total HxCDF	0.00000002	0.00000002	0.00000004	0.00000007	0.00000008
Total TCDF	0.00000002	0.00000002	0.00000004	0.00000004	0.00000006
2,3,4,7,8-PeCDF	0.000000001	0.000000002	0.000000004	0.000000003	0.000000006
1,2,3,7,8-PeCDF	0.0000000005 C	0.000000001	0.000000002	0.000000001	0.000000002 C
1,2,3,6,7,8-HxCDF	0.000000001	0.000000002	0.000000003	0.000000005	0.000000006
1,2,3,6,7,8-HxCDD	0.0000000005 C	0.0000000005 U	0.0000000008 C	0.000000001	0.000000002
2,3,4,6,7,8-HxCDF	0.000000003 B	0.000000004 B	0.000000008 PR	0.00000001	0.00000002 PR
1,2,3,4,6,7,8-HpCDF	0.000000006	0.00000001	0.00000002	0.00000004	0.00000003
1,2,3,4,7,8-HxCDF	0.000000003	0.000000004	0.000000008 PR	0.00000001 PR	0.00000002 PR
1,2,3,7,8,9-HxCDF	0.0000000003 U	0.0000000004 U	0.0000000005	0.0000000006 C	0.000000001 U
TSP (MG/M3)					
Net_Mass					

Location 3

Constituent / Sample ID:	RUN # 6-LOCATION # 3	RUN 21 LOCATION 3	RUN#3 SITE #3	RUN#4 SITE #3	RUN#5 SITE#3	RUN#6 SITE#3
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)	0.003					
Styrene (MG/M3)	0.0008 ND					
cis-1,3-Dichloropropene (MG/M3	0.0002 ND					
trans-1,3-Dichloropropene (MG/	0.0008 ND					
1,4-Dichlorobenzene (MG/M3)	0.004					
1,2-Dichloroethane (MG/M3)	0.0008 ND					
m,p-Xylene (MG/M3)	0.004					
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND					
Toluene (MG/M3)	0.01					
Tetrachloroethene (MG/M3)	0.001 ND					
cis-1,2-Dichloroethene (MG/M3)	0.0009					
Toluene-d8 (%)	94.00					
Toluene-d8 (%R)	94.00					

Location 3

Constituent / Sample ID:	RUN # 6-LOCATION # 3	RUN 21 LOCATION 3	RUN#3 SITE #3	RUN#4 SITE #3	RUN#5 SITE#3	RUN#6 SITE#3
Octafluorotoluene (%)	90.00					
Octafluorotoluene (%R)	90.00					
4-Bromofluorobenzene (%)	100.00					
4-Bromofluorobenzene (%R)	100.00					
Carbon Tetrachloride (MG/M3)	0.001 ND					
Chloroform (MG/M3)	0.0003					
Benzene (MG/M3)	0.004					
1,1,1-Trichloroethane (MG/M3)	0.001					
Bromomethane (MG/M3)	0.0006 ND					
Chloromethane (MG/M3)	0.002					
Vinyl Chloride (MG/M3)	0.00010 ND					
Freon 11 (MG/M3)	0.002					
Freon 12 (MG/M3)	0.004					
1,2-Dichloropropane (MG/M3)	0.0009 ND					
Trichloroethene (MG/M3)	0.003					
o-Xylene (MG/M3)	0.002					
1,2,4-Trimethylbenzene (MG/M3)	0.001					
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD		0.0000000005 U	0.0000000006 U	0.0000000002 U	0.0000000003 U	0.0000000004 U
1,2,3,7,8,9-HxCDD		0.0000000008 U	0.000000002 PRC	0.000000001 C	0.0000000010	0.0000000010 U
Total PeCDF		0.00000002	0.00000002	0.000000009	0.00000001	0.00000002
1,2,3,4,6,7,8,9-OCDD		0.00000001	0.00000004	0.000000008 B	0.00000001	0.000000007
Total HxCDD		0.000000005	0.00000001	0.00000001	0.00000001	0.000000008
1,2,3,4,6,7,8-HpCDD		0.000000005	0.00000002	0.000000005	0.000000007	0.000000004
Total PeCDD		0.000000004	0.000000008 C	0.000000009	0.000000008	0.000000007
Total HpCDD		0.000000005	0.00000003	0.00000001	0.00000001	0.000000007
Total HpCDF		0.00000001	0.00000003	0.00000001	0.00000002	0.000000007
1,2,3,4,6,7,8,9-OCDF		0.000000005	0.00000001	0.000000004	0.000000006	0.000000004
1,2,3,4,7,8-HxCDD		0.0000000009 U	0.0000000008 C	0.0000000005 C	0.0000000006 U	0.000000001 U

Location 3

Constituent / Sample ID:	RUN # 6-LOCATION # 3	RUN 21 LOCATION 3	RUN#3 SITE #3	RUN#4 SITE #3	RUN#5 SITE#3	RUN#6 SITE#3
1,2,3,7,8-PeCDD		0.0000000007 U	0.0000000008 U	0.0000000004 C	0.0000000004 U	0.0000000006 U
Total TCDD		0.000000003	0.000000004	0.00000001	0.000000008	0.000000007
2,3,7,8-TCDF		0.0000000009	0.000000001 U	0.0000000004 C	0.000000001	0.0000000008
1,2,3,4,7,8,9-HpCDF		0.000000002	0.000000006	0.000000001 C	0.000000002	0.000000001 U
Total HxCDF		0.00000002	0.00000003	0.00000002	0.00000002	0.00000001
Total TCDF		0.00000004	0.00000003	0.00000002	0.00000004	0.00000004
2,3,4,7,8-PeCDF		0.000000002	0.000000002	0.000000001 C	0.000000001	0.000000001 C
1,2,3,7,8-PeCDF		0.000000001	0.000000001	0.0000000007	0.0000000007 C	0.0000000009 PRC
1,2,3,6,7,8-HxCDF		0.000000002	0.000000003	0.000000001	0.000000001	0.000000001
1,2,3,6,7,8-HxCDD		0.0000000008 U	0.000000002	0.0000000008 C	0.0000000006	0.000000001 U
2,3,4,6,7,8-HxCDF		0.000000003	0.000000006 PR	0.000000003 PRB	0.000000003	0.0000000007 U
1,2,3,4,6,7,8-HpCDF		0.000000007	0.00000002 PR	0.000000007 B	0.000000009	0.000000005
1,2,3,4,7,8-HxCDF		0.000000004	0.000000008 PR	0.000000004 PR	0.000000003	0.000000003
1,2,3,7,8,9-HxCDF		0.0000000007 U	0.0000000010 U	0.0000000003 U	0.0000000003	0.0000000008 U
TSP (MG/M3)						
Net_Mass						

Location 3

Constituent / Sample ID:	RUN#7 LOCATION#3	RUN#8 LOCATION#3	RUN#9 LOCATION#3	Run # 3 - Location # 3	Run # 4 - Location # 3	Run # 9 - Location # 3
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)				0.003	0.003	0.006
Styrene (MG/M3)				0.0008 ND	0.0010	0.001
cis-1,3-Dichloropropene (MG/M3				0.0002 ND	0.0002	0.0002
trans-1,3-Dichloropropene (MG/				0.0008 ND	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)				0.001 ND	0.002	0.004
1,2-Dichloroethane (MG/M3)				0.0008 ND	0.0008 ND	0.0004
m,p-Xylene (MG/M3)				0.004	0.004	0.008
1,3,5-Trimethylbenzene (MG/M3)				0.0009 ND	0.0009 ND	0.0009 ND
Toluene (MG/M3)				0.02	0.03	0.03
Tetrachloroethene (MG/M3)				0.001 ND	0.001 ND	0.001 ND
cis-1,2-Dichloroethene (MG/M3)				0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)				109.00	118.00	97.00
Toluene-d8 (%R)				109.00	118.00	97.00

Location 3

Constituent / Sample ID:	RUN#7 LOCATION#3	RUN#8 LOCATION#3	RUN#9 LOCATION#3	Run # 3 - Location # 3	Run # 4 - Location # 3	Run # 9 - Location # 3
Octafluorotoluene (%)				95.00	103.00	101.00
Octafluorotoluene (%R)				95.00	103.00	101.00
4-Bromofluorobenzene (%)				108.00	112.00	107.00
4-Bromofluorobenzene (%R)				108.00	112.00	107.00
Carbon Tetrachloride (MG/M3)				0.001 ND	0.001 ND	0.0006
Chloroform (MG/M3)				0.0002 ND	0.0002	0.0003
Benzene (MG/M3)				0.003	0.004	0.005
1,1,1-Trichloroethane (MG/M3)				0.0010 ND	0.0010 ND	0.0010 ND
Bromomethane (MG/M3)				0.0010	0.0009	0.0008
Chloromethane (MG/M3)				0.001	0.002	0.002
Vinyl Chloride (MG/M3)				0.00010 ND	0.00010 ND	0.0001
Freon 11 (MG/M3)				0.002	0.002	0.002
Freon 12 (MG/M3)				0.008	0.008	0.004
1,2-Dichloropropane (MG/M3)				0.0009 ND	0.0009 ND	0.0004
Trichloroethene (MG/M3)				0.002	0.001	0.002
o-Xylene (MG/M3)				0.001	0.002	0.003
1,2,4-Trimethylbenzene (MG/M3)				0.002	0.001	0.003
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000007 U	0.0000000005 C	0.0000000008 U			
1,2,3,7,8,9-HxCDD	0.000000002	0.000000005 C	0.000000002 C			
Total PeCDF	0.00000005	0.0000002	0.00000005			
1,2,3,4,6,7,8,9-OCDD	0.00000003	0.00000004	0.00000002			
Total HxCDD	0.00000003	0.00000006	0.00000002			
1,2,3,4,6,7,8-HpCDD	0.000000010 C	0.00000002	0.000000009			
Total PeCDD	0.000000009	0.00000002	0.00000001			
Total HpCDD	0.00000001	0.00000004	0.00000002			
Total HpCDF	0.00000003	0.0000002	0.00000004			
1,2,3,4,6,7,8,9-OCDF	0.00000002	0.00000005	0.00000002			
1,2,3,4,7,8-HxCDD	0.0000000009	0.000000003	0.000000001			

Location 3

Constituent / Sample ID:	RUN#7 LOCATION#3	RUN#8 LOCATION#3	RUN#9 LOCATION#3	Run # 3 - Location # 3	Run # 4 - Location # 3	Run # 9 - Location # 3
1,2,3,7,8-PeCDD	0.000000001 U	0.000000002 C	0.000000001 U			
Total TCDD	0.00000002	0.00000003	0.00000001			
2,3,7,8-TCDF	0.000000002	0.000000004 C	0.0000000005 C			
1,2,3,4,7,8,9-HpCDF	0.000000005	0.00000002	0.000000004			
Total HxCDF	0.00000004	0.0000002	0.00000005			
Total TCDF	0.00000004	0.0000003	0.00000008			
2,3,4,7,8-PeCDF	0.000000004	0.00000001	0.000000004			
1,2,3,7,8-PeCDF	0.000000002	0.000000005 EC	0.000000002			
1,2,3,6,7,8-HxCDF	0.000000003	0.000000010	0.000000003			
1,2,3,6,7,8-HxCDD	0.000000001	0.000000004	0.000000001			
2,3,4,6,7,8-HxCDF	0.000000008	0.00000003	0.000000010			
1,2,3,4,6,7,8-HpCDF	0.00000002	0.00000007	0.00000002			
1,2,3,4,7,8-HxCDF	0.000000008	0.00000002	0.0000000009 U			
1,2,3,7,8,9-HxCDF	0.0000000006 U	0.000000002	0.0000000010 U			
TSP (MG/M3)						
Net_Mass						

Location 3

Constituent / Sample ID:	Run #2 - Location #3	Run #7 - Location #3	Run #7 - Location
Inorganics (MG/M3)			
Pb			
Ni			
Ag			
Sb			
As			
Be			
Cd			
Cr			
Cu			
Zn			
Se			
Particulates (MG/M3)			
PM10			
Volatile/Semi-Volatile Organic			
Ethyl Benzene (MG/M3)	0.003	0.007	0.01
Styrene (MG/M3)	0.0008 ND	0.003	0.002
cis-1,3-Dichloropropene (MG/M3	0.0002 ND	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.001	0.001 ND	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)	0.004	0.009	0.01
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009	0.0008 J
Toluene (MG/M3)	0.01	0.04	0.05
Tetrachloroethene (MG/M3)	0.001 ND	0.001	0.0004 J
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)	90.00	99.00	101.00
Toluene-d8 (%R)	90.00	99.00	101.00

Location 3

Constituent / Sample ID:	Run #2 - Location #3	Run #7 - Location #3	Run #7 - Location
Octafluorotoluene (%)	88.00	100.00	106.00
Octafluorotoluene (%R)	88.00	100.00	106.00
4-Bromofluorobenzene (%)	98.00	115.00	113.00
4-Bromofluorobenzene (%R)	98.00	115.00	113.00
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND	0.001 ND
Chloroform (MG/M3)	0.0002	0.0002	0.0002 J
Benzene (MG/M3)	0.003	0.005	0.003
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.001	0.0009 J
Bromomethane (MG/M3)	0.0006 ND	0.002	0.003
Chloromethane (MG/M3)	0.002	0.002	0.002
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)	0.002	0.002	0.002
Freon 12 (MG/M3)	0.003	0.006	0.004
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0002 J	0.002
Trichloroethene (MG/M3)	0.001	0.004	0.003
o-Xylene (MG/M3)	0.002	0.003	0.004
1,2,4-Trimethylbenzene (MG/M3)	0.004	0.004	0.004
Dioxins/Furans (MG/M3)			
2,3,7,8-TCDD			
1,2,3,7,8,9-HxCDD			
Total PeCDF			
1,2,3,4,6,7,8,9-OCDD			
Total HxCDD			
1,2,3,4,6,7,8-HpCDD			
Total PeCDD			
Total HpCDD			
Total HpCDF			
1,2,3,4,6,7,8,9-OCDF			
1,2,3,4,7,8-HxCDD			

Location 3

Constituent / Sample ID:	Run #2 - Location #3	Run #7 - Location #3	Run #7 - Location
1,2,3,7,8-PeCDD			
Total TCDD			
2,3,7,8-TCDF			
1,2,3,4,7,8,9-HpCDF			
Total HxCDF			
Total TCDF			
2,3,4,7,8-PeCDF			
1,2,3,7,8-PeCDF			
1,2,3,6,7,8-HxCDF			
1,2,3,6,7,8-HxCDD			
2,3,4,6,7,8-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
TSP (MG/M3)			
Net_Mass			

Location 4

Constituent / Sample ID:	4-FENCE LINE	97-M440	97-M460	97-M470	97-M480	97-M490
Hydrogen Chloride (MG/M3)						
HCl		0.006 U	0.006 U	0.01	0.005 U	0.006 U
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						

Location 4

Constituent / Sample ID:	4-FENCE LINE	97-M440	97-M460	97-M470	97-M480	97-M490
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000004 C					
1,2,3,7,8,9-HxCDD	0.000000004					
Total PeCDF	0.0000001					
1,2,3,4,6,7,8,9-OCDD	0.00000001					
Total HxCDD	0.00000006					
1,2,3,4,6,7,8-HpCDD	0.00000001					
Total PeCDD	0.00000006					

Location 4

Constituent / Sample ID:	4-FENCE LINE	97-M440	97-M460	97-M470	97-M480	97-M490
Total HpCDD	0.00000003					
Total HpCDF	0.00000004					
1,2,3,4,6,7,8,9-OCDF	0.000000006					
1,2,3,4,7,8-HxCDD	0.000000002					
1,2,3,7,8-PeCDD	0.000000001					
Total TCDD	0.00000006					
2,3,7,8-TCDF	0.000000005					
1,2,3,4,7,8,9-HpCDF	0.000000003					
Total HxCDF	0.00000006					
Total TCDF	0.0000002					
2,3,4,7,8-PeCDF	0.000000009					
1,2,3,7,8-PeCDF	0.000000005					
1,2,3,6,7,8-HxCDF	0.000000006					
1,2,3,6,7,8-HxCDD	0.000000002					
2,3,4,6,7,8-HxCDF	0.000000009					
1,2,3,4,6,7,8-HpCDF	0.00000002					
1,2,3,4,7,8-HxCDF	0.00000001					
1,2,3,7,8,9-HxCDF	0.0000000003 C					
TSP (MG/M3)						
Net_Mass						

Location 4

Constituent / Sample ID:	97-M507	97-M517	97-M529	97-Q1259	97-Q1260	97-Q1286
Hydrogen Chloride (MG/M3)						
HCl	0.006 U	0.006 U	0.006 U			
Inorganics (MG/M3)						
Pb				0.0004		0.002
Ni				0.00002		0.00008
Ag				0.00001 U		0.00005
Sb				0.0001 U		0.00010
As				0.00002		0.00001
Be				0.0000010 U		0.000003
Cd				0.00005		0.00009
Cr				0.00001		0.00009
Cu				0.0004		0.001
Zn				0.001		0.004
Particulates (MG/M3)						
PM10					0.13	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						

Location 4

Constituent / Sample ID:	97-M507	97-M517	97-M529	97-Q1259	97-Q1260	97-Q1286
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						

Location 4

Constituent / Sample ID:	97-M507	97-M517	97-M529	97-Q1259	97-Q1260	97-Q1286
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass				0.12		0.97

Location 4

Constituent / Sample ID:	97-Q1287	97-Q1311	97-Q1312	97-Q1325	97-Q1326	97-Q1348
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb			0.0001	0.002		0.001
Ni			0.00004	0.00004		0.00010
Ag			0.00001 U	0.00002 U		0.00002 U
Sb			0.00010 U	0.0001 U		0.0002 U
As			0.000003	0.000009		0.00001
Be			0.0000010 U	0.000001 U		0.000002 U
Cd			0.000004	0.00003		0.00003
Cr			0.00003	0.00002		0.00006
Cu			0.00009	0.0005		0.0006
Zn			0.0003	0.002		0.002
Particulates (MG/M3)						
PM10	0.52	0.10			0.17	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						

Location 4

Constituent / Sample ID:	97-Q1287	97-Q1311	97-Q1312	97-Q1325	97-Q1326	97-Q1348
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						

Location 4

Constituent / Sample ID:	97-Q1287	97-Q1311	97-Q1312	97-Q1325	97-Q1326	97-Q1348
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass			0.11	0.28		0.50

Location 4

Constituent / Sample ID:	97-Q1349	97-Q1390	97-Q1391	97-Q1412	97-Q1413	97-Q1428
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb		0.001		0.0003		0.0002
Ni		0.0001		0.00006		0.00004
Ag		0.00003		0.00002		0.00001 U
Sb		0.0002 U		0.0006		0.0001 U
As		0.00002		0.000004		0.000005
Be		0.000006		0.000002 U		0.000001 U
Cd		0.00002		0.000005		0.000006
Cr		0.0002		0.00003		0.00002
Cu		0.001		0.0003		0.0002
Zn		0.003		0.0006		0.0005
Particulates (MG/M3)						
PM10	0.22		0.58		0.11	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						

Location 4

Constituent / Sample ID:	97-Q1349	97-Q1390	97-Q1391	97-Q1412	97-Q1413	97-Q1428
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						

Location 4

Constituent / Sample ID:	97-Q1349	97-Q1390	97-Q1391	97-Q1412	97-Q1413	97-Q1428
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		1.95		0.28		0.16

Location 4

Constituent / Sample ID:	97-Q1429 RUN # 5-LOCATION # 4	RUN # 6-LOCATION # 4	RUN#3 SITE #4	RUN#4 SITE #4	RUN#5 SITE#4
Hydrogen Chloride (MG/M3)					
HCl					
Inorganics (MG/M3)					
Pb					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Particulates (MG/M3)					
PM10	0.13				
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)		0.009	0.004		
Styrene (MG/M3)		0.004	0.002		
cis-1,3-Dichloropropene (MG/M3		0.0006	0.0002 ND		
trans-1,3-Dichloropropene (MG/		0.002	0.0008 ND		
1,4-Dichlorobenzene (MG/M3)		0.004	0.003		
1,2-Dichloroethane (MG/M3)		0.0008 ND	0.0008 ND		
m,p-Xylene (MG/M3)		0.01	0.005		
1,3,5-Trimethylbenzene (MG/M3)		0.001	0.0009 ND		
Toluene (MG/M3)		0.06	0.02		
Chlorobenzene (MG/M3)		0.0009 ND	0.001		
Tetrachloroethene (MG/M3)		0.001	0.001 ND		
cis-1,2-Dichloroethene (MG/M3)		0.0007 ND	0.001		

Location 4

Constituent / Sample ID:	97-Q1429 RUN # 5-LOCATION # 4	RUN # 6-LOCATION # 4	RUN#3 SITE #4	RUN#4 SITE #4	RUN#5 SITE#4
Toluene-d8 (%)	84.00	92.00			
Toluene-d8 (%R)	84.00	92.00			
Octafluorotoluene (%)	90.00	84.00			
Octafluorotoluene (%R)	90.00	84.00			
4-Bromofluorobenzene (%)	104.00	104.00			
4-Bromofluorobenzene (%R)	104.00	104.00			
Carbon Tetrachloride (MG/M3)	0.0010	0.001 ND			
Chloroform (MG/M3)	0.0007	0.0004			
Benzene (MG/M3)	0.006	0.006			
1,1,1-Trichloroethane (MG/M3)	0.002	0.001			
Bromomethane (MG/M3)	0.0007	0.0006 ND			
Chloromethane (MG/M3)	0.004	0.002			
Chloroethane (MG/M3)	0.0005 ND	0.0005 ND			
Vinyl Chloride (MG/M3)	0.00010 ND	0.0001			
Freon 11 (MG/M3)	0.003	0.002			
Freon 12 (MG/M3)	0.004	0.005			
Freon 113 (MG/M3)	0.001	0.001 ND			
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND			
Trichloroethene (MG/M3)	0.001	0.003			
o-Xylene (MG/M3)	0.005	0.002			
1,2,4-Trimethylbenzene (MG/M3)	0.005	0.002			
Dioxins/Furans (MG/M3)					
2,3,7,8-TCDD			0.0000000009 C	0.0000000003 U	0.0000000004 U
1,2,3,7,8,9-HxCDD			0.000000009 PR	0.000000001 PRC	0.000000003
Total PeCDF			0.0000002	0.00000003	0.0000001
1,2,3,4,6,7,8,9-OCDD			0.00000007	0.000000009 B	0.000000006
Total HxCDD			0.00000009	0.00000002	0.00000005
1,2,3,4,6,7,8-HpCDD			0.00000004	0.000000007	0.000000006
Total PeCDD			0.00000007	0.00000002	0.00000005

Location 4

Constituent / Sample ID:	97-Q1429 RUN # 5-LOCATION # 4 RUN # 6-LOCATION # 4	RUN#3 SITE #4	RUN#4 SITE #4	RUN#5 SITE#4
Total HpCDD		0.00000007	0.00000001	0.00000001
Total HpCDF		0.00000008	0.00000002	0.00000003
1,2,3,4,6,7,8,9-OCDF		0.00000003	0.000000006	0.000000006
1,2,3,4,7,8-HxCDD		0.000000004	0.0000000007	0.000000001
1,2,3,7,8-PeCDD		0.000000003	0.0000000006 C	0.000000002
Total TCDD		0.00000006	0.00000002	0.00000003
2,3,7,8-TCDF		0.000000008	0.000000002	0.000000004
1,2,3,4,7,8,9-HpCDF		0.00000001	0.000000002	0.000000003
Total HxCDF		0.0000001	0.00000002	0.0000001
Total TCDF		0.0000004	0.00000008	0.0000001
2,3,4,7,8-PeCDF		0.00000001	0.000000002 C	0.000000007
1,2,3,7,8-PeCDF		0.000000008	0.000000001 C	0.000000005
1,2,3,6,7,8-HxCDF		0.00000001	0.000000002	0.000000006
1,2,3,6,7,8-HxCDD		0.000000005	0.0000000010 C	0.000000003
2,3,4,6,7,8-HxCDF		0.00000002 PR	0.000000004 PRB	0.00000001
1,2,3,4,6,7,8-HpCDF		0.00000005 PR	0.000000010	0.00000002
1,2,3,4,7,8-HxCDF		0.00000003 PR	0.000000006 PR	0.00000003
1,2,3,7,8,9-HxCDF		0.000000001	0.0000000003 C	0.0000000008
TSP (MG/M3)				
Net_Mass				

Location 4

Constituent / Sample ID:	RUN#6 SITE#4	RUN#7 LOCATION#4	RUN#8 LOCATION#4	RUN#9 LOCATION#4	Run # 3 - Location # 4	Run # 4 - Location # 4
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)					0.009	0.004
Styrene (MG/M3)					0.002	0.002
cis-1,3-Dichloropropene (MG/M3					0.0002 ND	0.0002
trans-1,3-Dichloropropene (MG/					0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)					0.001 ND	0.002
1,2-Dichloroethane (MG/M3)					0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)					0.01	0.006
1,3,5-Trimethylbenzene (MG/M3)					0.001	0.0009 ND
Toluene (MG/M3)					0.08	0.03
Chlorobenzene (MG/M3)					0.0009 ND	0.0009 ND
Tetrachloroethene (MG/M3)					0.001 ND	0.001 ND
cis-1,2-Dichloroethene (MG/M3)					0.0007 ND	0.0007 ND

Location 4

Constituent / Sample ID:	RUN#6 SITE#4	RUN#7 LOCATION#4	RUN#8 LOCATION#4	RUN#9 LOCATION#4	Run # 3 - Location # 4	Run # 4 - Location # 4
Toluene-d8 (%)					112.00	114.00
Toluene-d8 (%R)					112.00	114.00
Octafluorotoluene (%)					97.00	100.00
Octafluorotoluene (%R)					97.00	100.00
4-Bromofluorobenzene (%)					111.00	113.00
4-Bromofluorobenzene (%R)					111.00	113.00
Carbon Tetrachloride (MG/M3)					0.001 ND	0.001 ND
Chloroform (MG/M3)					0.0004	0.0003
Benzene (MG/M3)					0.004	0.004
1,1,1-Trichloroethane (MG/M3)					0.001	0.0010 ND
Bromomethane (MG/M3)					0.001	0.0010
Chloromethane (MG/M3)					0.003	0.002
Chloroethane (MG/M3)					0.001	0.0005 ND
Vinyl Chloride (MG/M3)					0.00010 ND	0.00010 ND
Freon 11 (MG/M3)					0.003	0.002
Freon 12 (MG/M3)					0.008	0.007
Freon 113 (MG/M3)					0.001 ND	0.001 ND
1,2-Dichloropropane (MG/M3)					0.0009 ND	0.0009 ND
Trichloroethene (MG/M3)					0.005	0.002
o-Xylene (MG/M3)					0.004	0.002
1,2,4-Trimethylbenzene (MG/M3)					0.005	0.002
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000006 C	0.000000001 U	0.0000000006 C	0.0000000010 U		
1,2,3,7,8,9-HxCDD	0.00000001 PR	0.000000002	0.000000008	0.000000002		
Total PeCDF	0.0000003	0.00000006	0.0000002	0.00000007		
1,2,3,4,6,7,8,9-OCDD	0.00000006	0.00000002	0.00000005	0.00000002		
Total HxCDD	0.0000001	0.00000002	0.00000007	0.00000002		
1,2,3,4,6,7,8-HpCDD	0.00000004	0.000000006 C	0.00000003	0.00000001		
Total PeCDD	0.0000001	0.00000002	0.00000002	0.00000002		

Location 4

Constituent / Sample ID:	RUN#6 SITE#4	RUN#7 LOCATION#4	RUN#8 LOCATION#4	RUN#9 LOCATION#4	Run # 3 - Location # 4	Run # 4 - Location # 4
Total HpCDD	0.00000008	0.000000006	0.00000006	0.00000002		
Total HpCDF	0.00000008	0.00000002	0.0000002	0.00000005		
1,2,3,4,6,7,8,9-OCDF	0.00000002	0.000000008	0.00000007	0.00000002		
1,2,3,4,7,8-HxCDD	0.000000005	0.000000002 U	0.000000003 C	0.000000001		
1,2,3,7,8-PeCDD	0.000000004	0.000000002 U	0.0000000006 U	0.000000001 U		
Total TCDD	0.00000009	0.00000004	0.00000003	0.00000002		
2,3,7,8-TCDF	0.000000008	0.000000003	0.000000005 EC	0.000000002		
1,2,3,4,7,8,9-HpCDF	0.000000007	0.000000001 U	0.00000002	0.000000007		
Total HxCDF	0.0000002	0.00000004	0.0000002	0.00000006		
Total TCDF	0.0000005	0.0000001	0.0000003	0.00000009		
2,3,4,7,8-PeCDF	0.00000002	0.000000005	0.00000002	0.000000005		
1,2,3,7,8-PeCDF	0.00000001	0.000000002	0.000000005	0.000000003		
1,2,3,6,7,8-HxCDF	0.00000001	0.000000003	0.00000001	0.000000004		
1,2,3,6,7,8-HxCDD	0.000000007	0.000000001 U	0.000000005	0.000000002		
2,3,4,6,7,8-HxCDF	0.00000002 PR	0.000000006	0.00000004	0.00000001		
1,2,3,4,6,7,8-HpCDF	0.00000005	0.00000001	0.00000007	0.00000002		
1,2,3,4,7,8-HxCDF	0.00000004 PR	0.000000008	0.00000003	0.00000001		
1,2,3,7,8,9-HxCDF	0.000000001	0.000000001 U	0.000000002	0.0000000006		
TSP (MG/M3)						
Net_Mass						

Location 4

Constituent / Sample ID:	Run # 9 - Location # 4	Run #2 - Location #4	Run #7 - Location #4	Run #8 - Location #4
Hydrogen Chloride (MG/M3)				
HCl				
Inorganics (MG/M3)				
Pb				
Ni				
Ag				
Sb				
As				
Be				
Cd				
Cr				
Cu				
Zn				
Particulates (MG/M3)				
PM10				
Volatile/Semi-Volatile Organic				
Ethyl Benzene (MG/M3)	0.009	0.005	0.02	0.008
Styrene (MG/M3)	0.001	0.003	0.0008	0.002
cis-1,3-Dichloropropene (MG/M3	0.0002	0.0002 ND	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.004	0.001	0.001 ND	0.001
1,2-Dichloroethane (MG/M3)	0.0004	0.0008 ND	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)	0.02	0.005	0.02	0.009
1,3,5-Trimethylbenzene (MG/M3)	0.001	0.001	0.001	0.0009
Toluene (MG/M3)	0.05	0.02	0.13	0.05
Chlorobenzene (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND	0.0009 ND
Tetrachloroethene (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001 ND
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND	0.0007 ND	0.0007 ND	0.0007 ND

Location 4

Constituent / Sample ID:	Run # 9 - Location # 4	Run #2 - Location #4	Run #7 - Location #4	Run #8 - Location #4
Toluene-d8 (%)	106.00	92.00	99.00	106.00
Toluene-d8 (%R)	106.00	92.00	99.00	106.00
Octafluorotoluene (%)	100.00	84.00	96.00	91.00
Octafluorotoluene (%R)	100.00	84.00	96.00	91.00
4-Bromofluorobenzene (%)	103.00	96.00	117.00	119.00
4-Bromofluorobenzene (%R)	103.00	96.00	117.00	119.00
Carbon Tetrachloride (MG/M3)	0.0006	0.001 ND	0.001 ND	0.001 ND
Chloroform (MG/M3)	0.0006	0.0002	0.0007	0.0002
Benzene (MG/M3)	0.005	0.005	0.004	0.005
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.0010	0.0010	0.0010
Bromomethane (MG/M3)	0.0006 ND	0.0006 ND	0.0006 ND	0.002
Chloromethane (MG/M3)	0.002	0.002	0.002	0.001
Chloroethane (MG/M3)	0.0005 ND	0.0005 ND	0.0005 ND	0.0005 ND
Vinyl Chloride (MG/M3)	0.0002	0.00010 ND	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)	0.002	0.002	0.002	0.002
Freon 12 (MG/M3)	0.007	0.003	0.003	0.006
Freon 113 (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001 ND
1,2-Dichloropropane (MG/M3)	0.0005	0.0009 ND	0.02	0.0009 ND
Trichloroethene (MG/M3)	0.002	0.002	0.04	0.003
o-Xylene (MG/M3)	0.008	0.002	0.007	0.003
1,2,4-Trimethylbenzene (MG/M3)	0.005	0.006	0.005	0.004
Dioxins/Furans (MG/M3)				
2,3,7,8-TCDD				
1,2,3,7,8,9-HxCDD				
Total PeCDF				
1,2,3,4,6,7,8,9-OCDD				
Total HxCDD				
1,2,3,4,6,7,8-HpCDD				
Total PeCDD				

Location 4

Constituent / Sample ID:	Run # 9 - Location # 4	Run #2 - Location #4	Run #7 - Location #4	Run #8 - Location #4
Total HpCDD				
Total HpCDF				
1,2,3,4,6,7,8,9-OCDF				
1,2,3,4,7,8-HxCDD				
1,2,3,7,8-PeCDD				
Total TCDD				
2,3,7,8-TCDF				
1,2,3,4,7,8,9-HpCDF				
Total HxCDF				
Total TCDF				
2,3,4,7,8-PeCDF				
1,2,3,7,8-PeCDF				
1,2,3,6,7,8-HxCDF				
1,2,3,6,7,8-HxCDD				
2,3,4,6,7,8-HxCDF				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
TSP (MG/M3)				
Net_Mass				

Location 5

Constituent / Sample ID:	5-GME (HIT)	5-GME(HIT)	97-M441	97-M461	97-M471	97-M481
Inorganics (MG/M3)						
Pb						
Hg						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	5-GME (HIT)	5-GME(HIT)	97-M441	97-M461	97-M471	97-M481
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	5-GME (HIT)	5-GME(HIT)	97-M441	97-M461	97-M471	97-M481
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.000000001	0.0000000005				
1,2,3,7,8,9-HxCDD	0.00000001 PR	0.000000004 PR				
Total PeCDF	0.0000003	0.0000001 E				
1,2,3,4,6,7,8,9-OCDD	0.00000008	0.00000002				
Total HxCDD	0.0000001	0.00000005				
1,2,3,4,6,7,8-HpCDD	0.00000004	0.00000002				
Total PeCDD	0.0000001	0.00000004				
Total HpCDD	0.00000010	0.00000004				
Total HpCDF	0.00000009	0.00000003				
1,2,3,4,6,7,8,9-OCDF	0.00000002	0.000000009				
1,2,3,4,7,8-HxCDD	0.000000005	0.000000001 C				
1,2,3,7,8-PeCDD	0.000000005	0.000000001				
Total TCDD	0.0000002	0.00000005				
2,3,7,8-TCDF	0.00000001	0.000000004				
1,2,3,4,7,8,9-HpCDF	0.000000008	0.000000003 C				
Total HxCDF	0.0000002	0.00000007				
Total TCDF	0.0000005	0.0000002				
2,3,4,7,8-PeCDF	0.00000002	0.000000009				
1,2,3,7,8-PeCDF	0.00000001	0.000000005				
1,2,3,6,7,8-HxCDF	0.00000001	0.000000006				
1,2,3,6,7,8-HxCDD	0.000000008	0.000000003				
2,3,4,6,7,8-HxCDF	0.00000002 PR	0.000000009				
1,2,3,4,6,7,8-HpCDF	0.00000006 PR	0.00000002				
1,2,3,4,7,8-HxCDF	0.00000004 PR	0.00000002 PR				
1,2,3,7,8,9-HxCDF	0.000000001	0.0000000005 PR				
TSP (MG/M3)						
Net_Mass						

Location 5

Constituent / Sample ID:	97-M491	97-M508	97-M518	97-M530	97-M559	97-M562
Inorganics (MG/M3)						
Pb						
Hg						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-M491	97-M508	97-M518	97-M530	97-M559	97-M562
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-M491	97-M508	97-M518	97-M530	97-M559	97-M562
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass						

Location 5

Constituent / Sample ID:	97-M565	97-Q1261	97-Q1262	97-Q1274	97-Q1275	97-Q1284
Inorganics (MG/M3)						
Pb		0.002		0.003		0.003
Hg		0.00000010		0.0000010 U		0.0000009 U
Ni		0.00004		0.00004		0.00004
Ag		0.00002		0.00001 U		0.00008
Sb		0.0002		0.0001		0.00009 U
As		0.000009		0.00003		0.00002
Be		0.000001 U		0.000001 U		0.000001
Cd		0.00007		0.0003		0.0002
Cr		0.00005		0.00010		0.00004
Cu		0.0010		0.001		0.001
Zn		0.003		0.006		0.005
Se		0.0002		0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10			0.34		0.14	
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-M565	97-Q1261	97-Q1262	97-Q1274	97-Q1275	97-Q1284
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-M565	97-Q1261	97-Q1262	97-Q1274	97-Q1275	97-Q1284
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.45		0.24		0.34

Location 5

Constituent / Sample ID:	97-Q1285	97-Q1317	97-Q1318	97-Q1327	97-Q1328	97-Q1358
Inorganics (MG/M3)						
Pb			0.0006	0.0003		0.0006
Hg			0.000001 U	0.0000009 U		0.0000010 U
Ni			0.00004	0.00003		0.00005
Ag			0.00002	0.00001 U		0.00001 U
Sb			0.0001 U	0.00009 U		0.0001 U
As			0.000005	0.000007		0.00001
Be			0.000001 U	0.0000009 U		0.0000010 U
Cd			0.00002	0.000004		0.00002
Cr			0.00004	0.000009		0.00002
Cu			0.0009	0.0004		0.0005
Zn			0.001	0.0004		0.0009
Se			0.0004	0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10	0.20	0.08			0.09	
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent	Sample ID:	97-Q1285	97-Q1317	97-Q1318	97-Q1327	97-Q1328	97-Q1358
1,2-Dichloroethane (MG/M3)							
m,p-Xylene (MG/M3)							
1,3,5-Trimethylbenzene (MG/M3)							
Toluene (MG/M3)							
Chlorobenzene (MG/M3)							
Tetrachloroethene (MG/M3)							
cis-1,2-Dichloroethene (MG/M3)							
Toluene-d8 (%)							
Toluene-d8 (%R)							
Octafluorotoluene (%)							
Octafluorotoluene (%R)							
4-Bromofluorobenzene (%)							
4-Bromofluorobenzene (%R)							
1,3-Dichlorobenzene (MG/M3)							
Carbon Tetrachloride (MG/M3)							
Chloroform (MG/M3)							
Benzene (MG/M3)							
1,1,1-Trichloroethane (MG/M3)							
Bromomethane (MG/M3)							
Chloromethane (MG/M3)							
Chloroethane (MG/M3)							
Vinyl Chloride (MG/M3)							
Freon 11 (MG/M3)							
Freon 12 (MG/M3)							
Freon 113 (MG/M3)							
1,2-Dichloropropane (MG/M3)							
Trichloroethene (MG/M3)							
o-Xylene (MG/M3)							
1,2,4-Trimethylbenzene (MG/M3)							

Location 5

Constituent / Sample ID:	97-Q1285	97-Q1317	97-Q1318	97-Q1327	97-Q1328	97-Q1358
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass			0.17	0.14		0.22

Location 5

Constituent / Sample ID:	97-Q1359	97-Q1392	97-Q1393	97-Q1414	97-Q1415	97-Q1431
Inorganics (MG/M3)						
Pb		0.003		0.0010		0.0002
Hg		0.0000009 U		0.0000009 U		0.0000009 U
Ni		0.00004		0.00005		0.00004
Ag		0.00006		0.00003		0.00001 U
Sb		0.0002		0.0004		0.00009 U
As		0.000010		0.000005		0.000006
Be		0.0000009 U		0.0000009 U		0.000001
Cd		0.00005		0.00004		0.000005
Cr		0.00006		0.00002		0.00003
Cu		0.001		0.0009		0.0002
Zn		0.003		0.002		0.0006
Se		0.0002 U		0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10	0.13		0.16		0.10	
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-Q1359	97-Q1392	97-Q1393	97-Q1414	97-Q1415	97-Q1431
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-Q1359	97-Q1392	97-Q1393	97-Q1414	97-Q1415	97-Q1431
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.33		0.16		0.24

Location 5

Constituent / Sample ID:	97-Q1432	97-Q1433	97-Q1449	97-Q1451	97-Q1455	97-Q1457
Inorganics (MG/M3)						
Pb	0.0003		0.002	0.0010	0.0004	0.0004
Hg	0.0000010 U		0.0000008 U	0.0000008 U	0.0000009 U	0.0000007 U
Ni	0.00009		0.00005	0.00007	0.00006	0.00009
Ag	0.00001 U		0.000009	0.00001	0.00001 U	0.000009 U
Sb	0.0001 U		0.0004	0.0002	0.00009	0.00008 U
As	0.000005		0.000004	0.000006	0.000005	0.000003
Be	0.0000010 U		0.0000008	0.0000010	0.0000009 U	0.0000008 U
Cd	0.000009		0.00004	0.0002	0.000007	0.00001
Cr	0.00002		0.00002	0.00003	0.00002	0.00002
Cu	0.0006		0.0007	0.0006	0.0003	0.0005
Zn	0.0005		0.002	0.002	0.001	0.001
Se	0.0002 U		0.0002 U	0.0002 U	0.0002 U	0.0002 U
Particulates (MG/M3)						
PM10		0.08				
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-Q1432	97-Q1433	97-Q1449	97-Q1451	97-Q1455	97-Q1457
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-Q1432	97-Q1433	97-Q1449	97-Q1451	97-Q1455	97-Q1457
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.14		0.24	0.27	0.21	0.12

Location 5

Constituent / Sample ID:	97-Q1492	97-Q1493	97-Q1513	97-Q1517	97-Q1519	97-Q1522
Inorganics (MG/M3)						
Pb	0.0004	0.0009	0.0002	0.0002	0.0002	0.0003
Hg	0.0000010 U	0.000002 U	0.0000003 U	0.0000003 U	0.0000003 U	0.0000003 U
Ni	0.00009	0.0001	0.000009	0.00001	0.0005	0.000007
Ag	0.00001	0.00002 U	0.000003 U	0.00003	0.00003 U	0.000004
Sb	0.00010 U	0.0002 U	0.00003 U	0.00003 U	0.0003	0.00003 U
As	0.000008	0.00001	0.000003	0.000005	0.00004	0.000004
Be	0.0000010	0.000002 U	0.0000003 U	0.0000003 U	0.000003	0.0000003 U
Cd	0.00001	0.00003	0.000004	0.000007	0.00005	0.00001
Cr	0.00004	0.00005	0.000007	0.00001	0.0002	0.00002
Cu	0.0003	0.0003	0.00006	0.0001	0.001	0.0002
Zn	0.001	0.002	0.0004	0.0005	0.006	0.0009
Se	0.0002 U	0.0003 U	0.00005 U	0.00005 U	0.0005 U	0.00005 U
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-Q1492	97-Q1493	97-Q1513	97-Q1517	97-Q1519	97-Q1522
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	97-Q1492	97-Q1493	97-Q1513	97-Q1517	97-Q1519	97-Q1522
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.32	0.54	0.07	0.14	0.15	0.19

Location 5

Constituent / Sample ID:	LOCATION 5 LOCATION 5 OUTDOOR	Location 5 100P	Location 5 101P	Location 5 102P	Location 5 103P
Inorganics (MG/M3)					
Pb					
Hg					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Se					
Particulates (MG/M3)					
PM10					
Volatile/Semi-Volatile Organic					
Benzaldehyde		0.0002	0.0005	0.0009	0.0004
Propanal		0.0002 ND	0.00010	0.0005	0.0001
Formaldehyde		0.003	0.005	0.009	0.005
Acetone		0.0002 ND	0.0002 B	0.0009 B	0.0002 B
Acetaldehyde		0.0001	0.0003	0.002	0.0008
Methyl Ethyl Ketone/Butyraldeh		0.0003 ND	0.0004	0.002	0.0008
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)		0.006	0.009	0.007	0.010
Styrene (MG/M3)		0.0008 ND	0.0008	0.0010	0.002
cis-1,3-Dichloropropene (MG/M3		0.0002 ND	0.0002 ND	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/		0.0008 ND	0.0008 ND	0.0008 ND	0.002
1,4-Dichlorobenzene (MG/M3)		0.004	0.002	0.004	0.003

Location 5

Constituent / Sample ID:	LOCATION 5 LOCATION 5 OUTDOOR	Location 5 100P	Location 5 101P	Location 5 102P	Location 5 103P
1,2-Dichloroethane (MG/M3)		0.0010	0.0004	0.0006	0.0005
m,p-Xylene (MG/M3)		0.01	0.01	0.010	0.01
1,3,5-Trimethylbenzene (MG/M3)		0.001	0.0009 ND	0.001	0.001
Toluene (MG/M3)		0.03	0.05	0.03	0.06
Chlorobenzene (MG/M3)		0.001	0.0009 ND	0.0009 ND	0.0009 ND
Tetrachloroethene (MG/M3)		0.002	0.003	0.001	0.001
cis-1,2-Dichloroethene (MG/M3)		0.0007 ND	0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)		96.00	90.00	94.00	90.00
Toluene-d8 (%R)		96.00	90.00	94.00	90.00
Octafluorotoluene (%)		86.00	82.00	86.00	80.00
Octafluorotoluene (%R)		86.00	82.00	86.00	80.00
4-Bromofluorobenzene (%)		98.00	106.00	106.00	96.00
4-Bromofluorobenzene (%R)		98.00	106.00	106.00	96.00
1,3-Dichlorobenzene (MG/M3)		0.001 ND	0.001 ND	0.001 ND	0.001 ND
Carbon Tetrachloride (MG/M3)		0.0010	0.0007	0.0008	0.0008
Chloroform (MG/M3)		0.002	0.0008	0.001	0.0005
Benzene (MG/M3)		0.006	0.008	0.007	0.008
1,1,1-Trichloroethane (MG/M3)		0.0010 ND	0.002	0.001	0.002
Bromomethane (MG/M3)		0.0006 ND	0.0007	0.002	0.002
Chloromethane (MG/M3)		0.005	0.002	0.002	0.002
Chloroethane (MG/M3)		0.002	0.0005 ND	0.0005 ND	0.0005 ND
Vinyl Chloride (MG/M3)		0.0003	0.00010 ND	0.0001	0.0001
Freon 11 (MG/M3)		0.002	0.002	0.002	0.002
Freon 12 (MG/M3)		0.004	0.004	0.004	0.004
Freon 113 (MG/M3)		0.001 ND	0.002	0.001 ND	0.001 ND
1,2-Dichloropropane (MG/M3)		0.0003	0.0003	0.0003	0.0003
Trichloroethene (MG/M3)		0.003	0.007	0.003	0.004
o-Xylene (MG/M3)		0.004	0.004	0.004	0.005
1,2,4-Trimethylbenzene (MG/M3)		0.005	0.002	0.005	0.006

Location 5

Constituent / Sample ID:	LOCATION 5	LOCATION 5 OUTDOOR	Location 5 100P	Location 5 101P	Location 5 102P	Location 5 103P
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000003 U	0.00000000010				
1,2,3,7,8,9-HxCDD	0.0000000008	0.000000001				
Total PeCDF	0.00000001	0.00000003				
1,2,3,4,6,7,8,9-OCDD	0.00000001	0.00000001				
Total HxCDD	0.000000005	0.00000001				
1,2,3,4,6,7,8-HpCDD	0.000000004	0.000000005				
Total PeCDD	0.000000004	0.000000006				
Total HpCDD	0.000000010	0.00000001				
Total HpCDF	0.00000002	0.00000002				
1,2,3,4,6,7,8,9-OCDF	0.000000006	0.000000007				
1,2,3,4,7,8-HxCDD	0.0000000008 U	0.0000000004				
1,2,3,7,8-PeCDD	0.0000000006 U	0.0000000003				
Total TCDD	0.000000004	0.000000006				
2,3,7,8-TCDF	0.0000000006	0.0000000008				
1,2,3,4,7,8,9-HpCDF	0.000000002	0.000000002				
Total HxCDF	0.00000002	0.00000002				
Total TCDF	0.00000003	0.00000002				
2,3,4,7,8-PeCDF	0.000000001 C	0.000000002				
1,2,3,7,8-PeCDF	0.0000000008	0.0000000008				
1,2,3,6,7,8-HxCDF	0.0000000008	0.000000002				
1,2,3,6,7,8-HxCDD	0.0000000005	0.0000000008				
2,3,4,6,7,8-HxCDF	0.000000002	0.000000004				
1,2,3,4,6,7,8-HpCDF	0.000000009	0.000000008				
1,2,3,4,7,8-HxCDF	0.000000002	0.000000004				
1,2,3,7,8,9-HxCDF	0.0000000006 U	0.0000000002				
TSP (MG/M3)						
Net_Mass						

Location 5

Constituent / Sample ID:	Location5 OUTD.	Location5 Outdoor	RUN # 5-LOCATION # 5	RUN # 6-LOCATION # 5	RUN #11 LOCATION 5	RUN #15 SITE 5
Inorganics (MG/M3)						
Pb						
Hg						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)			0.003	0.003		
Styrene (MG/M3)			0.002	0.002		
cis-1,3-Dichloropropene (MG/M3			0.0009	0.0002 ND		
trans-1,3-Dichloropropene (MG/			0.002	0.002		
1,4-Dichlorobenzene (MG/M3)			0.004	0.003		

Location 5

Constituent / Sample ID:	Location5 OUTD.	Location5 Outdoor	RUN # 5-LOCATION # 5	RUN # 6-LOCATION # 5	RUN #11 LOCATION 5	RUN #15 SITE 5
1,2-Dichloroethane (MG/M3)			0.0008 ND	0.0008 ND		
m,p-Xylene (MG/M3)			0.005	0.004		
1,3,5-Trimethylbenzene (MG/M3)			0.0009 ND	0.0009 ND		
Toluene (MG/M3)			0.01	0.01		
Chlorobenzene (MG/M3)			0.0009 ND	0.0009 ND		
Tetrachloroethene (MG/M3)			0.001 ND	0.001 ND		
cis-1,2-Dichloroethene (MG/M3)			0.0007 ND	0.001		
Toluene-d8 (%)			92.00	90.00		
Toluene-d8 (%R)			92.00	90.00		
Octafluorotoluene (%)			86.00	86.00		
Octafluorotoluene (%R)			86.00	86.00		
4-Bromofluorobenzene (%)			104.00	108.00		
4-Bromofluorobenzene (%R)			104.00	108.00		
1,3-Dichlorobenzene (MG/M3)			0.001 ND	0.001 ND		
Carbon Tetrachloride (MG/M3)			0.001 ND	0.001 ND		
Chloroform (MG/M3)			0.0003	0.0004		
Benzene (MG/M3)			0.005	0.007		
1,1,1-Trichloroethane (MG/M3)			0.0010 ND	0.001		
Bromomethane (MG/M3)			0.0008	0.0006 ND		
Chloromethane (MG/M3)			0.005	0.003		
Chloroethane (MG/M3)			0.0005 ND	0.0005 ND		
Vinyl Chloride (MG/M3)			0.00010 ND	0.00010 ND		
Freon 11 (MG/M3)			0.002	0.002		
Freon 12 (MG/M3)			0.004	0.005		
Freon 113 (MG/M3)			0.001 ND	0.001 ND		
1,2-Dichloropropane (MG/M3)			0.0009 ND	0.0009 ND		
Trichloroethene (MG/M3)			0.0010	0.003		
o-Xylene (MG/M3)			0.002	0.002		
1,2,4-Trimethylbenzene (MG/M3)			0.003	0.001		

Location 5

Constituent / Sample ID:	Location5 OUTD.	Location5 Outdoor	RUN # 5-LOCATION # 5	RUN # 6-LOCATION # 5	RUN #11 LOCATION 5	RUN #15 SITE 5
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.00000000008 PR	0.00000000008			0.0000000003 U	0.0000000009 U
1,2,3,7,8,9-HxCDD	0.000000002 PR	0.000000001 PR			0.000000002 PR	0.000000002
Total PeCDF	0.00000003	0.00000003			0.00000004	0.00000006
1,2,3,4,6,7,8,9-OCDD	0.00000002	0.00000001			0.000000009 B	0.00000004 B
Total HxCDD	0.00000002	0.00000001			0.00000002	0.00000001
1,2,3,4,6,7,8-HpCDD	0.000000008	0.000000006			0.000000006	0.00000001
Total PeCDD	0.000000009	0.000000007			0.00000001	0.000000005
Total HpCDD	0.00000002	0.00000001			0.00000001	0.00000003
Total HpCDF	0.00000003	0.00000003			0.00000001	0.00000006
1,2,3,4,6,7,8,9-OCDF	0.00000001	0.00000001			0.000000002 B	0.00000004
1,2,3,4,7,8-HxCDD	0.0000000006	0.0000000005			0.0000000008	0.0000000007 C
1,2,3,7,8-PeCDD	0.0000000004	0.0000000003			0.0000000007	0.000000001 C
Total TCDD	0.000000008	0.000000005			0.00000001	0.000000008
2,3,7,8-TCDF	0.0000000006	0.0000000005			0.000000001 C	0.000000001 U
1,2,3,4,7,8,9-HpCDF	0.000000004	0.000000003			0.000000001	0.000000008 C
Total HxCDF	0.00000003	0.00000003			0.00000003	0.00000005
Total TCDF	0.00000003	0.00000002			0.00000005	0.00000005
2,3,4,7,8-PeCDF	0.000000002	0.000000002			0.000000003	0.000000004
1,2,3,7,8-PeCDF	0.0000000009	0.0000000008 PR			0.000000001 C	0.000000002
1,2,3,6,7,8-HxCDF	0.000000002	0.000000002			0.000000002	0.000000004
1,2,3,6,7,8-HxCDD	0.0000000009	0.0000000008			0.0000000009	0.0000000009 C
2,3,4,6,7,8-HxCDF	0.000000006 PR	0.000000006 PR			0.000000003 PR	0.00000001 PR
1,2,3,4,6,7,8-HpCDF	0.00000001	0.00000001			0.000000007	0.00000003
1,2,3,4,7,8-HxCDF	0.000000007 PR	0.000000006 PR			0.000000006 PR	0.00000001 PR
1,2,3,7,8,9-HxCDF	0.0000000004 PR	0.0000000003 PR			0.0000000003 U	0.000000002 U
TSP (MG/M3)						
Net_Mass						

Location 5

Constituent / Sample ID:	RUN 19 LOCATION 5	RUN#16 LOCATION 5	RUN#3 SITE #5	RUN#4 SITE #5	RUN#5 SITE#5	RUN#6 SITE#5
Inorganics (MG/M3)						
Pb						
Hg						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						

Location 5

Constituent / Sample ID:	RUN 19 LOCATION 5	RUN#16 LOCATION 5	RUN#3 SITE #5	RUN#4 SITE #5	RUN#5 SITE#5	RUN#6 SITE#5
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Chlorobenzene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						

Location 5

Constituent / Sample ID:	RUN 19 LOCATION 5	RUN#16 LOCATION 5	RUN#3 SITE #5	RUN#4 SITE #5	RUN#5 SITE#5	RUN#6 SITE#5
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000005 U	0.00000000008 U	0.0000000007 C	0.0000000003 U	0.0000000003 U	0.0000000003 C
1,2,3,7,8,9-HxCDD	0.000000003 PR	0.0000000008	0.000000006 PR	0.000000002 PR	0.0000000008 U	0.000000005 PR
Total PeCDF	0.00000005	0.00000003	0.0000002	0.00000004	0.00000002	0.0000001
1,2,3,4,6,7,8,9-OCDD	0.00000004	0.00000001	0.00000004	0.00000001 B	0.000000002	0.00000003
Total HxCDD	0.00000002	0.000000008	0.00000006	0.00000002	0.000000005	0.00000005
1,2,3,4,6,7,8-HpCDD	0.00000001	0.000000005	0.00000002	0.000000008	0.000000001	0.00000002
Total PeCDD	0.00000001	0.000000007	0.00000003	0.00000002	0.000000006	0.00000004
Total HpCDD	0.00000003	0.00000001	0.00000005	0.00000002	0.000000001	0.00000003
Total HpCDF	0.00000003	0.00000002	0.00000007	0.00000002	0.000000006	0.00000004
1,2,3,4,6,7,8,9-OCDF	0.00000001	0.000000008 B	0.00000002	0.000000008	0.000000002 U	0.00000001
1,2,3,4,7,8-HxCDD	0.000000002	0.0000000004 C	0.000000002 C	0.0000000008 C	0.0000000009 U	0.000000002
1,2,3,7,8-PeCDD	0.000000002	0.0000000001 U	0.000000002 C	0.0000000007	0.0000000005 U	0.000000002 C
Total TCDD	0.00000001	0.000000008	0.00000006	0.00000003	0.000000008	0.00000005
2,3,7,8-TCDF	0.000000001	0.000000001	0.000000006	0.000000002	0.000000001	0.000000005
1,2,3,4,7,8,9-HpCDF	0.000000003	0.000000003	0.000000008	0.000000003	0.000000001 U	0.000000003
Total HxCDF	0.00000004	0.00000003	0.0000001	0.00000003	0.00000002	0.00000008
Total TCDF	0.00000007	0.00000004	0.0000003	0.00000008	0.00000005	0.0000002
2,3,4,7,8-PeCDF	0.000000004	0.000000003	0.00000001	0.000000003	0.000000001 C	0.000000007
1,2,3,7,8-PeCDF	0.000000002	0.0000000009 C	0.000000007	0.000000002	0.000000001	0.000000004
1,2,3,6,7,8-HxCDF	0.000000004	0.000000002	0.000000009	0.000000003	0.0000000010	0.000000006
1,2,3,6,7,8-HxCDD	0.000000002	0.0000000006 C	0.000000004	0.000000001 C	0.0000000007 U	0.000000003
2,3,4,6,7,8-HxCDF	0.000000007 PR	0.000000005 B	0.00000001 PR	0.000000005 PR	0.000000002	0.00000001 PR
1,2,3,4,6,7,8-HpCDF	0.00000001	0.000000010	0.00000003 PR	0.00000001	0.000000003	0.00000002
1,2,3,4,7,8-HxCDF	0.000000009 PR	0.000000006	0.00000002 PR	0.000000007 PR	0.000000003	0.00000002 PR
1,2,3,7,8,9-HxCDF	0.0000000006	0.0000000001 U	0.000000001	0.0000000003	0.0000000006 U	0.0000000004 C
TSP (MG/M3)						
Net_Mass						

Location 5

Constituent / Sample ID:	RUN#7 LOCATION#5	RUN#8 LOCATION#5	RUN#9 LOCATION#5	Run # 3 - Location # 5	Run # 4 - Location # 5	Run # 9 - Location # 5
Inorganics (MG/M3)						
Pb						
Hg						
Ni						
Ag						
Sb						
As						
Be						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Benzaldehyde						
Propanal						
Formaldehyde						
Acetone						
Acetaldehyde						
Methyl Ethyl Ketone/Butyraldeh						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)				0.005	0.003	0.006
Styrene (MG/M3)				0.001	0.003	0.001
cis-1,3-Dichloropropene (MG/M3				0.0005	0.0002	0.0002
trans-1,3-Dichloropropene (MG/				0.002	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)				0.001 ND	0.002	0.004

Location 5

Constituent / Sample ID:	RUN#7 LOCATION#5	RUN#8 LOCATION#5	RUN#9 LOCATION#5	Run # 3 - Location # 5	Run # 4 - Location # 5	Run # 9 - Location # 5
1,2-Dichloroethane (MG/M3)				0.0008 ND	0.0008 ND	0.0004
m,p-Xylene (MG/M3)				0.005	0.004	0.007
1,3,5-Trimethylbenzene (MG/M3)				0.0009 ND	0.0009 ND	0.0009
Toluene (MG/M3)				0.03	0.02	0.03
Chlorobenzene (MG/M3)				0.0009 ND	0.0009 ND	0.0009 ND
Tetrachloroethene (MG/M3)				0.001 ND	0.001 ND	0.001 ND
cis-1,2-Dichloroethene (MG/M3)				0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)				105.00	120.00	102.00
Toluene-d8 (%R)				105.00	120.00	102.00
Octafluorotoluene (%)				95.00	104.00	101.00
Octafluorotoluene (%R)				95.00	104.00	101.00
4-Bromofluorobenzene (%)				109.00	113.00	104.00
4-Bromofluorobenzene (%R)				109.00	113.00	104.00
1,3-Dichlorobenzene (MG/M3)				0.001 ND	0.001 ND	0.001 ND
Carbon Tetrachloride (MG/M3)				0.001 ND	0.001 ND	0.0007
Chloroform (MG/M3)				0.0004	0.0002	0.0004
Benzene (MG/M3)				0.003	0.004	0.005
1,1,1-Trichloroethane (MG/M3)				0.002	0.0010 ND	0.0010 ND
Bromomethane (MG/M3)				0.001	0.0008	0.0006 ND
Chloromethane (MG/M3)				0.002	0.002	0.002
Chloroethane (MG/M3)				0.0005 ND	0.0005 ND	0.0005 ND
Vinyl Chloride (MG/M3)				0.00010 ND	0.00010 ND	0.0001
Freon 11 (MG/M3)				0.003	0.002	0.002
Freon 12 (MG/M3)				0.007	0.007	0.006
Freon 113 (MG/M3)				0.001 ND	0.001 ND	0.001 ND
1,2-Dichloropropane (MG/M3)				0.0009 ND	0.0009 ND	0.0005
Trichloroethene (MG/M3)				0.003	0.0010 ND	0.002
o-Xylene (MG/M3)				0.002	0.002	0.003
1,2,4-Trimethylbenzene (MG/M3)				0.003	0.002	0.004

Location 5

Constituent / Sample ID:	RUN#7 LOCATION#5	RUN#8 LOCATION#5	RUN#9 LOCATION#5	Run # 3 - Location # 5	Run # 4 - Location # 5	Run # 9 - Location # 5
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000006 C	0.0000000005 C	0.0000000005 U			
1,2,3,7,8,9-HxCDD	0.000000008	0.000000008 C	0.000000002			
Total PeCDF	0.0000002	0.0000003	0.00000005			
1,2,3,4,6,7,8,9-OCDD	0.00000006	0.00000005	0.00000002			
Total HxCDD	0.0000001	0.00000007	0.00000002			
1,2,3,4,6,7,8-HpCDD	0.00000003	0.00000003	0.000000007			
Total PeCDD	0.00000009	0.00000007	0.00000001			
Total HpCDD	0.00000007	0.00000006	0.00000001			
Total HpCDF	0.00000008	0.0000002	0.00000004			
1,2,3,4,6,7,8,9-OCDF	0.00000003	0.00000006	0.00000002			
1,2,3,4,7,8-HxCDD	0.000000004	0.000000004	0.0000000010			
1,2,3,7,8-PeCDD	0.000000002 C	0.000000003	0.0000000007 U			
Total TCDD	0.0000001	0.00000006	0.00000001			
2,3,7,8-TCDF	0.000000006	0.000000005 C	0.000000001			
1,2,3,4,7,8,9-HpCDF	0.000000008	0.00000002	0.000000005			
Total HxCDF	0.0000001	0.0000002	0.00000005			
Total TCDF	0.0000003	0.0000003	0.00000006			
2,3,4,7,8-PeCDF	0.00000002	0.00000002	0.000000004			
1,2,3,7,8-PeCDF	0.000000007	0.000000008	0.000000002			
1,2,3,6,7,8-HxCDF	0.000000008	0.00000001	0.000000003			
1,2,3,6,7,8-HxCDD	0.000000004	0.000000005 C	0.000000001			
2,3,4,6,7,8-HxCDF	0.00000002	0.00000004	0.000000008			
1,2,3,4,6,7,8-HpCDF	0.00000005	0.00000007	0.00000002			
1,2,3,4,7,8-HxCDF	0.00000003	0.00000004	0.000000008			
1,2,3,7,8,9-HxCDF	0.0000000010	0.000000002	0.0000000004 C			
TSP (MG/M3)						
Net_Mass						

Location 5

Constituent / Sample ID:	Run #1, Location #5	Run #2 - Location #5	Run #7 - Location #5	Run #8 - Location #5	SITE 5 RUN 13
Inorganics (MG/M3)					
Pb					
Hg					
Ni					
Ag					
Sb					
As					
Be					
Cd					
Cr					
Cu					
Zn					
Se					
Particulates (MG/M3)					
PM10					
Volatile/Semi-Volatile Organic					
Benzaldehyde					
Propanal					
Formaldehyde					
Acetone					
Acetaldehyde					
Methyl Ethyl Ketone/Butyraldeh					
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)	0.002	0.006	0.01	0.007	
Styrene (MG/M3)	0.002	0.003	0.002	0.002	
cis-1,3-Dichloropropene (MG/M3	0.0002 ND	0.0002 ND	0.0002 ND	0.0002	
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND	
1,4-Dichlorobenzene (MG/M3)	0.001 ND	0.001	0.001 ND	0.001 ND	

Location 5

Constituent / Sample ID:	Run #1, Location #5	Run #2 - Location #5	Run #7 - Location #5	Run #8 - Location #5	SITE 5 RUN 13
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND	
m,p-Xylene (MG/M3)	0.002	0.007	0.01	0.007	
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009 ND	0.0010	0.0009 ND	
Toluene (MG/M3)	0.008	0.02	0.08	0.04	
Chlorobenzene (MG/M3)	0.0009 ND	0.0009 ND	0.0009 ND	0.0009 ND	
Tetrachloroethene (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001 ND	
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND	0.0007 ND	0.0007 ND	0.0007 ND	
Toluene-d8 (%)	106.00	90.00	107.00	112.00	
Toluene-d8 (%R)	106.00	90.00	107.00	112.00	
Octafluorotoluene (%)	102.00	88.00	99.00	101.00	
Octafluorotoluene (%R)	102.00	88.00	99.00	101.00	
4-Bromofluorobenzene (%)	115.00	96.00	114.00	109.00	
4-Bromofluorobenzene (%R)	115.00	96.00	114.00	109.00	
1,3-Dichlorobenzene (MG/M3)	0.001 ND	0.001	0.001 ND	0.001 ND	
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001 ND	
Chloroform (MG/M3)	0.0002 ND	0.0002	0.0002	0.0002	
Benzene (MG/M3)	0.004	0.007	0.004	0.005	
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.001	0.0010 ND	0.0009	
Bromomethane (MG/M3)	0.002	0.0006 ND	0.0008	0.001	
Chloromethane (MG/M3)	0.002	0.002	0.002	0.002	
Chloroethane (MG/M3)	0.0005 ND	0.0005 ND	0.0005 ND	0.0005 ND	
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND	0.00010 ND	0.00010 ND	
Freon 11 (MG/M3)	0.002	0.002	0.002	0.002	
Freon 12 (MG/M3)	0.006	0.004	0.005	0.007	
Freon 113 (MG/M3)	0.001 ND	0.001 ND	0.001 ND	0.001 ND	
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND	0.004	0.0009 ND	
Trichloroethene (MG/M3)	0.0010 ND	0.002	0.006	0.002	
o-Xylene (MG/M3)	0.0006 ND	0.004	0.005	0.003	
1,2,4-Trimethylbenzene (MG/M3)	0.0007 ND	0.006	0.004	0.003	

Location 5

Constituent / Sample ID:	Run #1, Location #5	Run #2 - Location #5	Run #7 - Location #5	Run #8 - Location #5	SITE 5 RUN 13
Dioxins/Furans (MG/M3)					
2,3,7,8-TCDD					0.0000000004
1,2,3,7,8,9-HxCDD					0.000000003 PRC
Total PeCDF					0.0000002 E
1,2,3,4,6,7,8,9-OCDD					0.00000002 B
Total HxCDD					0.00000002
1,2,3,4,6,7,8-HpCDD					0.00000001
Total PeCDD					0.00000002
Total HpCDD					0.00000003
Total HpCDF					0.00000007
1,2,3,4,6,7,8,9-OCDF					0.00000002
1,2,3,4,7,8-HxCDD					0.000000001
1,2,3,7,8-PeCDD					0.0000000009
Total TCDD					0.00000003
2,3,7,8-TCDF					0.000000003
1,2,3,4,7,8,9-HpCDF					0.000000007
Total HxCDF					0.0000001
Total TCDF					0.0000003
2,3,4,7,8-PeCDF					0.000000009 EC
1,2,3,7,8-PeCDF					0.000000003 EC
1,2,3,6,7,8-HxCDF					0.000000006
1,2,3,6,7,8-HxCDD					0.000000002
2,3,4,6,7,8-HxCDF					0.00000001 PR
1,2,3,4,6,7,8-HpCDF					0.00000003
1,2,3,4,7,8-HxCDF					0.00000001 PR
1,2,3,7,8,9-HxCDF					0.0000000007
TSP (MG/M3)					
Net_Mass					

Location 6

Constituent / Sample ID:	6-KAKHI TOWER	97-M462	97-M472	97-M482	97-M492	97-M509
Hydrogen Chloride (MG/M3)						
HCl		0.006 U	0.007	0.005 U	0.006 U	0.006 U
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 6

Constituent / Sample ID:	6-KAKHI TOWER	97-M462	97-M472	97-M482	97-M492	97-M509
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD	0.0000000003 U					
Total PeCDF	0.000000005					
1,2,3,4,6,7,8,9-OCDD	0.000000004 B					
Total HxCDD	0.0000000009					
1,2,3,4,6,7,8-HpCDD	0.000000002					
Total PeCDD	0.000000003 C					
Total HpCDD	0.000000002					
Total HpCDF	0.000000008					
1,2,3,4,6,7,8,9-OCDF	0.000000004					

Location 6

Constituent / Sample ID:	6-KAKHI TOWER	97-M462	97-M472	97-M482	97-M492	97-M509
1,2,3,4,7,8-HxCDD	0.0000000003 U					
1,2,3,7,8-PeCDD	0.0000000003 U					
Total TCDD	0.000000003					
2,3,7,8-TCDF	0.0000000004					
1,2,3,4,7,8,9-HpCDF	0.0000000009 C					
Total HxCDF	0.000000006					
Total TCDF	0.00000002					
2,3,4,7,8-PeCDF	0.0000000007 C					
1,2,3,7,8-PeCDF	0.0000000002 U					
1,2,3,6,7,8-HxCDF	0.0000000006					
1,2,3,6,7,8-HxCDD	0.0000000003 U					
2,3,4,6,7,8-HxCDF	0.000000002					
1,2,3,4,6,7,8-HpCDF	0.000000004 PR					
1,2,3,4,7,8-HxCDF	0.000000001 C					
1,2,3,7,8,9-HxCDF	0.0000000002 U					
TSP (MG/M3)						
Net_Mass						

Location 6

Constituent / Sample ID:	97-M519	97-M531	97-Q1276	97-Q1277	97-Q1295	97-Q1296
Hydrogen Chloride (MG/M3)						
HCl	0.006 U	0.006 U				
Inorganics (MG/M3)						
Pb				0.00009		0.00007
Ni				0.00002 U		0.00002 U
Ag				0.00001 U		0.00001 U
Sb				0.0001 U		0.0001 U
As				0.00001		0.000002 U
Cd				0.000002		0.000001
Cr				0.00001		0.00002
Cu				0.0001		0.0001
Zn				0.0004		0.0003
Se				0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10			0.09		0.10	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 6

Constituent / Sample ID:	97-M519	97-M531	97-Q1276	97-Q1277	97-Q1295	97-Q1296
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						

Location 6

Constituent / Sample ID:	97-M519	97-M531	97-Q1276	97-Q1277	97-Q1295	97-Q1296
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass				0.10		0.16

Location 6

Constituent / Sample ID:	97-Q1297	97-Q1302	97-Q1329	97-Q1330	97-Q1350	97-Q1351
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb		0.00005	0.0002		0.0002	
Ni		0.00002	0.00004		0.00003	
Ag		0.00002	0.00001 U		0.00002 U	
Sb		0.0006	0.0002		0.0001 U	
As		0.000002	0.000008		0.00001	
Cd		0.000002	0.000003		0.000004	
Cr		0.00001	0.00001		0.00002	
Cu		0.0001	0.0002		0.0001	
Zn		0.0002	0.0003		0.0003	
Se		0.0002 U	0.0002 U		0.0003 U	
Particulates (MG/M3)						
PM10	0.12			0.12		0.17
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 6

Constituent / Sample ID:	97-Q1297	97-Q1302	97-Q1329	97-Q1330	97-Q1350	97-Q1351
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						

Location 6

Constituent / Sample ID:	97-Q1297	97-Q1302	97-Q1329	97-Q1330	97-Q1350	97-Q1351
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.12	0.18		0.21	

Location 6

Constituent / Sample ID:	97-Q1394	97-Q1395	97-Q1396	97-Q1397	97-Q1434	97-Q1435
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb	0.00009		0.00009		0.0002	
Ni	0.00003 U		0.00004		0.00004	
Ag	0.00002 U		0.00002 U		0.00002 U	
Sb	0.0001		0.0001		0.0001	
As	0.000003 U		0.000004		0.000007	
Cd	0.000002		0.000002		0.000005	
Cr	0.00002		0.00002		0.00002	
Cu	0.0002		0.0002		0.0004	
Zn	0.0003		0.0002		0.0010	
Se	0.0003 U		0.0004		0.0003 U	
Particulates (MG/M3)						
PM10		0.08		0.08		0.15
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						

Location 6

Constituent / Sample ID:	97-Q1394	97-Q1395	97-Q1396	97-Q1397	97-Q1434	97-Q1435
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
1,3-Dichlorobenzene (MG/M3)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroelhane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						

Location 6

Constituent / Sample ID:	97-Q1394	97-Q1395	97-Q1396	97-Q1397	97-Q1434	97-Q1435
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass	0.10		0.10		0.20	

Location 6

Constituent / Sample ID:	RUN # 5-LOCATION # 6	RUN # 6-LOCATION # 6	RUN #5 SITE# 6	RUN#3 SITE #6	RUN#4 SITE #6	RUN#6 SITE#6
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)	0.004	0.003				
Styrene (MG/M3)	0.002	0.001				
cis-1,3-Dichloropropene (MG/M3	0.0005	0.0002				
trans-1,3-Dichloropropene (MG/	0.001	0.002				
1,4-Dichlorobenzene (MG/M3)	0.003	0.004				
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND				
m,p-Xylene (MG/M3)	0.007	0.003				
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.0009 ND				
Toluene (MG/M3)	0.01	0.01				
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND	0.0009				
Toluene-d8 (%)	90.00	92.00				
Toluene-d8 (%R)	90.00	92.00				

Location 6

Constituent / Sample ID:	RUN # 5-LOCATION # 6	RUN # 6-LOCATION # 6	RUN #5 SITE# 6	RUN#3 SITE #6	RUN#4 SITE #6	RUN#6 SITE#6
Octafluorotoluene (%)	82.00	84.00				
Octafluorotoluene (%R)	82.00	84.00				
4-Bromofluorobenzene (%)	108.00	106.00				
4-Bromofluorobenzene (%R)	108.00	106.00				
1,3-Dichlorobenzene (MG/M3)	0.001 ND	0.001 ND				
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND				
Chloroform (MG/M3)	0.0003	0.0003				
Benzene (MG/M3)	0.004	0.004				
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.0010 ND				
Bromomethane (MG/M3)	0.0006 ND	0.0006 ND				
Chloromethane (MG/M3)	0.002	0.002				
Chloroethane (MG/M3)	0.0005 ND	0.0005 ND				
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND				
Freon 11 (MG/M3)	0.002	0.002				
Freon 12 (MG/M3)	0.003	0.004				
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND				
Trichloroethene (MG/M3)	0.002	0.0010 ND				
o-Xylene (MG/M3)	0.003	0.002				
1,2,4-Trimethylbenzene (MG/M3)	0.003	0.001				
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD			0.000000001	0.000000001 U	0.000000001 C	0.0000000008 U
Total PeCDF			0.00000002	0.000000005 E	0.0000001 E	0.00000001
1,2,3,4,6,7,8,9-OCDD			0.00000002	0.000000008	0.000000009 B	0.000000007
Total HxCDD			0.00000002	0.000000003	0.00000002	0.000000003 C
1,2,3,4,6,7,8-HpCDD			0.000000010	0.000000003	0.000000006 C	0.000000002
Total PeCDD			0.000000003	0.000000001 C	0.000000009	0.000000002
Total HpCDD			0.00000002	0.000000006	0.000000006	0.000000002
Total HpCDF			0.00000002	0.000000004 C	0.00000002	0.000000006
1,2,3,4,6,7,8,9-OCDF			0.00000001	0.000000005	0.00000001	0.000000003

Location 6

Constituent / Sample ID:	RUN # 5-LOCATION # 6	RUN # 6-LOCATION # 6	RUN #5 SITE# 6	RUN#3 SITE #6	RUN#4 SITE #6	RUN#6 SITE#6
1,2,3,4,7,8-HxCDD			0.0000000006 C	0.000000001 U	0.0000000006 U	0.0000000009 U
1,2,3,7,8-PeCDD			0.0000000006 U	0.000000001 U	0.0000000006 U	0.0000000006 U
Total TCDD			0.000000007	0.000000002	0.00000003	0.000000001
2,3,7,8-TCDF			0.0000000006	0.0000000004 U	0.000000003	0.0000000005 C
1,2,3,4,7,8,9-HpCDF			0.000000003	0.000000001 U	0.000000004	0.0000000008 C
Total HxCDF			0.00000002	0.000000008	0.00000006	0.00000001
Total TCDF			0.00000002	0.00000002	0.0000003	0.00000002
2,3,4,7,8-PeCDF			0.000000002	0.0000000009	0.000000006 EC	0.000000001
1,2,3,7,8-PeCDF			0.0000000007	0.0000000008 U	0.000000002 EC	0.0000000006 PRC
1,2,3,6,7,8-HxCDF			0.000000002	0.0000000007 C	0.000000003	0.000000001 C
1,2,3,6,7,8-HxCDD			0.000000001	0.000000001 U	0.0000000010 C	0.0000000009 U
2,3,4,6,7,8-HxCDF			0.000000005	0.000000003 PR	0.000000006 PRB	0.000000002
1,2,3,4,6,7,8-HpCDF			0.000000009	0.000000004 PRC	0.00000001	0.000000005
1,2,3,4,7,8-HxCDF			0.000000005	0.000000002	0.000000007 PR	0.000000003
1,2,3,7,8,9-HxCDF			0.0000000005	0.000000001 U	0.0000000005	0.0000000007 U
TSP (MG/M3)						
Net_Mass						

Location 6

Constituent / Sample ID:	RUN#7 LOCATION#6	RUN#8 LOCATION#6	RUN#9 LOCATION#6	Run # 3 - Location # 6	Run # 4 - Location # 6	Run # 9 - Location # 6
Hydrogen Chloride (MG/M3)						
HCl						
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)				0.01	0.006	0.010
Styrene (MG/M3)				0.001	0.005	0.002
cis-1,3-Dichloropropene (MG/M3				0.0002 ND	0.0003	0.0002
trans-1,3-Dichloropropene (MG/				0.002	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)				0.001	0.001	0.003
1,2-Dichloroethane (MG/M3)				0.0010	0.0008 ND	0.0004
m,p-Xylene (MG/M3)				0.02	0.007	0.01
1,3,5-Trimethylbenzene (MG/M3)				0.002	0.0009 ND	0.0010
Toluene (MG/M3)				0.05	0.03	0.04
cis-1,2-Dichloroethene (MG/M3)				0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)				100.00	103.00	102.00
Toluene-d8 (%R)				100.00	103.00	102.00

Location 6

Constituent / Sample ID:	RUN#7 LOCATION#6	RUN#8 LOCATION#6	RUN#9 LOCATION#6	Run # 3 - Location # 6	Run # 4 - Location # 6	Run # 9 - Location # 6
Octafluorotoluene (%)				105.00	101.00	87.00
Octafluorotoluene (%R)				105.00	101.00	87.00
4-Bromofluorobenzene (%)				125.00	113.00	90.00
4-Bromofluorobenzene (%R)				125.00	113.00	90.00
1,3-Dichlorobenzene (MG/M3)				0.001 ND	0.001 ND	0.001 ND
Carbon Tetrachloride (MG/M3)				0.001 ND	0.001 ND	0.0007
Chloroform (MG/M3)				0.003	0.0002	0.0004
Benzene (MG/M3)				0.003	0.006	0.005
1,1,1-Trichloroethane (MG/M3)				0.0010 ND	0.0010 ND	0.001
Bromomethane (MG/M3)				0.002	0.002	0.0009
Chloromethane (MG/M3)				0.007	0.002	0.002
Chloroethane (MG/M3)				0.002	0.0005 ND	0.0005 ND
Vinyl Chloride (MG/M3)				0.0004	0.00010 ND	0.0001
Freon 11 (MG/M3)				0.002	0.002	0.002
Freon 12 (MG/M3)				0.006	0.007	0.005
1,2-Dichloropropane (MG/M3)				0.0009 ND	0.0009 ND	0.0006
Trichloroethene (MG/M3)				0.0010 ND	0.0010 ND	0.004
o-Xylene (MG/M3)				0.006	0.003	0.004
1,2,4-Trimethylbenzene (MG/M3)				0.006	0.001	0.004
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD	0.0000000007 C	0.000000005 C	0.000000003			
Total PeCDF	0.00000002	0.0000002	0.00000008			
1,2,3,4,6,7,8,9-OCDD	0.00000001	0.00000005	0.00000003			
Total HxCDD	0.000000005	0.00000004	0.00000002			
1,2,3,4,6,7,8-HpCDD	0.000000005	0.00000003	0.00000001			
Total PeCDD	0.000000001	0.00000001	0.000000007			
Total HpCDD	0.000000009	0.00000005	0.00000003			
Total HpCDF	0.00000004	0.0000002	0.00000009			
1,2,3,4,6,7,8,9-OCDF	0.00000002	0.00000009	0.00000004			

Location 6

Constituent / Sample ID:	RUN#7 LOCATION#6	RUN#8 LOCATION#6	RUN#9 LOCATION#6	Run # 3 - Location # 6	Run # 4 - Location # 6	Run # 9 - Location # 6
1,2,3,4,7,8-HxCDD	0.0000000008 U	0.000000002 C	0.000000002			
1,2,3,7,8-PeCDD	0.000000001 U	0.000000001 C	0.000000002 U			
Total TCDD	0.000000002	0.00000001	0.000000008			
2,3,7,8-TCDF	0.0000000006 C	0.000000002 U	0.000000002			
1,2,3,4,7,8,9-HpCDF	0.000000005	0.00000003	0.00000001			
Total HxCDF	0.00000003	0.0000002	0.00000010			
Total TCDF	0.00000002	0.00000009	0.00000009			
2,3,4,7,8-PeCDF	0.000000003	0.00000001	0.000000007			
1,2,3,7,8-PeCDF	0.0000000007 C	0.000000002 C	0.000000002 C			
1,2,3,6,7,8-HxCDF	0.000000002	0.000000010	0.000000006			
1,2,3,6,7,8-HxCDD	0.0000000006 C	0.000000004	0.000000002			
2,3,4,6,7,8-HxCDF	0.000000007	0.00000005	0.00000002			
1,2,3,4,6,7,8-HpCDF	0.00000002	0.00000009	0.00000004			
1,2,3,4,7,8-HxCDF	0.000000005	0.00000003	0.00000002			
1,2,3,7,8,9-HxCDF	0.0000000002 C	0.000000002 C	0.000000001			
TSP (MG/M3)						
Net_Mass						

Location 6

Constituent / Sample ID:	Run #2 - Location #6	Run #7 - Location #6	Run #8 - Location #6
Hydrogen Chloride (MG/M3)			
HCl			
Inorganics (MG/M3)			
Pb			
Ni			
Ag			
Sb			
As			
Cd			
Cr			
Cu			
Zn			
Se			
Particulates (MG/M3)			
PM10			
Volatile/Semi-Volatile Organic			
Ethyl Benzene (MG/M3)	0.004	0.02	0.006
Styrene (MG/M3)	0.0008 ND	0.0009	0.0008 ND
cis-1,3-Dichloropropene (MG/M3	0.0002	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.001
1,4-Dichlorobenzene (MG/M3)	0.002	0.001	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)	0.006	0.03	0.006
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND	0.002	0.0009 ND
Toluene (MG/M3)	0.03	0.05	0.09
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)	90.00	97.00	101.00
Toluene-d8 (%R)	90.00	97.00	101.00

Location 6

Constituent / Sample ID:	Run #2 - Location #6	Run #7 - Location #6	Run #8 - Location #6
Octafluorotoluene (%)	86.00	103.00	95.00
Octafluorotoluene (%R)	86.00	103.00	95.00
4-Bromofluorobenzene (%)	96.00	124.00	94.00
4-Bromofluorobenzene (%R)	96.00	124.00	94.00
1,3-Dichlorobenzene (MG/M3)	0.002	0.001 ND	0.001 ND
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND	0.001 ND
Chloroform (MG/M3)	0.0003	0.0002 ND	0.0002 ND
Benzene (MG/M3)	0.004	0.003	0.002
1,1,1-Trichloroethane (MG/M3)	0.0010	0.0010 ND	0.0010 ND
Bromomethane (MG/M3)	0.0006 ND	0.002	0.0008
Chloromethane (MG/M3)	0.002	0.002	0.001
Chloroethane (MG/M3)	0.0005 ND	0.0005 ND	0.0005 ND
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)	0.002	0.002	0.002
Freon 12 (MG/M3)	0.004	0.004	0.003
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.002	0.0009 ND
Trichloroethene (MG/M3)	0.002	0.001	0.0010 ND
o-Xylene (MG/M3)	0.003	0.010	0.002
1,2,4-Trimethylbenzene (MG/M3)	0.006	0.007	0.002
Dioxins/Furans (MG/M3)			
1,2,3,7,8,9-HxCDD			
Total PeCDF			
1,2,3,4,6,7,8,9-OCDD			
Total HxCDD			
1,2,3,4,6,7,8-HpCDD			
Total PeCDD			
Total HpCDD			
Total HpCDF			
1,2,3,4,6,7,8,9-OCDF			

Location 6

Constituent / Sample ID:	Run #2 - Location #6	Run #7 - Location #6	Run #8 - Location #6
1,2,3,4,7,8-HxCDD			
1,2,3,7,8-PeCDD			
Total TCDD			
2,3,7,8-TCDF			
1,2,3,4,7,8,9-HpCDF			
Total HxCDF			
Total TCDF			
2,3,4,7,8-PeCDF			
1,2,3,7,8-PeCDF			
1,2,3,6,7,8-HxCDF			
1,2,3,6,7,8-HxCDD			
2,3,4,6,7,8-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
TSP (MG/M3)			
Net_Mass			

Location 7

Constituent / Sample ID:	7-ENLISTED TOWER	97-M442	97-M463	97-M473	97-M483	97-M493
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 7

Constituent / Sample ID:	7-ENLISTED TOWER	97-M442	97-M463	97-M473	97-M483	97-M493
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000001 C					
1,2,3,7,8,9-HxCDD	0.00000000009 U					
Total PeCDF	0.00000001					
1,2,3,4,6,7,8,9-OCDD	0.000000006 B					
Total HxCDD	0.000000001					
1,2,3,4,6,7,8-HpCDD	0.000000002 C					
Total PeCDD	0.000000001					
Total HpCDD	0.000000002					
Total HpCDF	0.000000009					
1,2,3,4,6,7,8,9-OCDF	0.000000004					

Location 7

Constituent / Sample ID:	7-ENLISTED TOWER	97-M442	97-M463	97-M473	97-M483	97-M493
1,2,3,4,7,8-HxCDD	0.0000000001 U					
1,2,3,7,8-PeCDD	0.0000000001 U					
Total TCDD	0.000000007					
2,3,7,8-TCDF	0.0000000004 C					
1,2,3,4,7,8,9-HpCDF	0.000000001					
Total HxCDF	0.000000009					
Total TCDF	0.00000002					
2,3,4,7,8-PeCDF	0.0000000008					
1,2,3,7,8-PeCDF	0.0000000003					
1,2,3,6,7,8-HxCDF	0.0000000005					
1,2,3,6,7,8-HxCDD	0.00000000009 U					
2,3,4,6,7,8-HxCDF	0.000000002					
1,2,3,4,6,7,8-HpCDF	0.000000004 PR					
1,2,3,4,7,8-HxCDF	0.000000002					
1,2,3,7,8,9-HxCDF	0.0000000001					
TSP (MG/M3)						
Net_Mass						

Location 7

Constituent / Sample ID:	97-M510	97-M520	97-M532	97-Q1278	97-Q1279	97-Q1298
Inorganics (MG/M3)						
Pb				0.00009		0.00007
Ni				0.00002		0.00003
Ag				0.00001 U		0.00001 U
Sb				0.0001 U		0.0001 U
As				0.00001		0.000003
Cd				0.000002		0.000002
Cr				0.00001		0.00002
Cu				0.00009		0.00007
Zn				0.0004		0.0004
Se				0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10					0.09	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 7

Constituent / Sample ID:	97-M510	97-M520	97-M532	97-Q1278	97-Q1279	97-Q1298
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						

Location 7

Constituent / Sample ID:	97-M510	97-M520	97-M532	97-Q1278	97-Q1279	97-Q1298
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass				0.11		0.13

Location 7

Constituent / Sample ID:	97-Q1299	97-Q1303	97-Q1304	97-Q1331	97-Q1332	97-Q1352
Inorganics (MG/M3)						
Pb			0.00007	0.002		0.0001
Ni			0.00003	0.00002		0.00004
Ag			0.00001 U	0.00001 U		0.00001 U
Sb			0.0002	0.00009 U		0.0001
As			0.000002	0.000008		0.00001
Cd			0.000002	0.00003		0.000003
Cr			0.00002	0.000009		0.00002
Cu			0.0001	0.0005		0.0002
Zn			0.0002	0.002		0.0003
Se			0.0003	0.0002 U		0.0002 U
Particulates (MG/M3)						
PM10	0.10	0.10			0.16	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 7

Constituent / Sample ID:	97-Q1299	97-Q1303	97-Q1304	97-Q1331	97-Q1332	97-Q1352
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						

Location 7

Constituent / Sample ID:	97-Q1299	97-Q1303	97-Q1304	97-Q1331	97-Q1332	97-Q1352
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass			0.14	0.18		0.18

Location 7

Constituent / Sample ID:	97-Q1353	97-Q1398	97-Q1399	97-Q1416	97-Q1417	97-Q1436
Inorganics (MG/M3)						
Pb		0.00009		0.0001		0.0002
Ni		0.00003 U		0.00004		0.00003
Ag		0.00002 U		0.00002 U		0.00002 U
Sb		0.0001 U		0.0001 U		0.0001 U
As		0.000003		0.000003 U		0.000007
Cd		0.000003		0.000004		0.000005
Cr		0.00002		0.00001		0.00002
Cu		0.00008		0.00009		0.0002
Zn		0.0004		0.0002		0.0005
Se		0.0003 U		0.0003 U		0.0003 U
Particulates (MG/M3)						
PM10	0.13		0.06		0.06	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 7

Constituent / Sample ID:	97-Q1353	97-Q1398	97-Q1399	97-Q1416	97-Q1417	97-Q1436
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						

Location 7

Constituent / Sample ID:	97-Q1353	97-Q1398	97-Q1399	97-Q1416	97-Q1417	97-Q1436
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.11		0.10		0.18

Location 7

Constituent / Sample ID:	97-Q1437	97-Q1447	97-Q1462	RUN # 5-LOCATION # 7	RUN # 6-LOCATION # 7	RUN #10 LOCATION 7
Inorganics (MG/M3)						
Pb		0.0002	0.00006			
Ni		0.00003	0.00003			
Ag		0.00001	0.00001 U			
Sb		0.00009 U	0.0001 U			
As		0.000003	0.000002 U			
Cd		0.000004	0.000010			
Cr		0.00001	0.00002			
Cu		0.0002	0.0002			
Zn		0.0005	0.0002			
Se		0.0002 U	0.0002 U			
Particulates (MG/M3)						
PM10	0.13					
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)				0.005	0.005	
Styrene (MG/M3)				0.003	0.002	
cis-1,3-Dichloropropene (MG/M3				0.0007	0.0002 ND	
trans-1,3-Dichloropropene (MG/				0.001	0.0010	
1,4-Dichlorobenzene (MG/M3)				0.005	0.004	
1,2-Dichloroethane (MG/M3)				0.0008 ND	0.0007	
m,p-Xylene (MG/M3)				0.009	0.007	
1,3,5-Trimethylbenzene (MG/M3)				0.0010	0.0009 ND	
Toluene (MG/M3)				0.02	0.04	
Tetrachloroethene (MG/M3)				0.001 ND	0.007	
cis-1,2-Dichloroethene (MG/M3)				0.0007 ND	0.001	
Toluene-d8 (%)				90.00	90.00	
Toluene-d8 (%R)				90.00	90.00	
Octafluorotoluene (%)				88.00	84.00	

Location 7

Constituent	Sample ID:	97-Q1437	97-Q1447	97-Q1462	RUN # 5-LOCATION # 7	RUN # 6-LOCATION # 7	RUN #10 LOCATION 7
Octafluorotoluene (%R)					88.00	84.00	
4-Bromofluorobenzene (%)					104.00	104.00	
4-Bromofluorobenzene (%R)					104.00	104.00	
Carbon Tetrachloride (MG/M3)					0.001	0.001 ND	
Chloroform (MG/M3)					0.0004	0.0003	
Benzene (MG/M3)					0.007	0.004	
1,1,1-Trichloroethane (MG/M3)					0.001	0.0010	
Bromomethane (MG/M3)					0.0008	0.0006 ND	
Chloromethane (MG/M3)					0.003	0.002	
Chloroethane (MG/M3)					0.0005 ND	0.0005 ND	
Vinyl Chloride (MG/M3)					0.00010 ND	0.00010	
Freon 11 (MG/M3)					0.003	0.002	
Freon 12 (MG/M3)					0.005	0.004	
Freon 113 (MG/M3)					0.002	0.001 ND	
1,2-Dichloropropane (MG/M3)					0.0009 ND	0.0009 ND	
Trichloroethene (MG/M3)					0.002	0.0010 ND	
o-Xylene (MG/M3)					0.004	0.003	
1,2,4-Trimethylbenzene (MG/M3)					0.004	0.002	
Dioxins/Furans (MG/M3)							
2,3,7,8-TCDD							0.0000000002 U
1,2,3,7,8,9-HxCDD							0.0000000005
Total PeCDF							0.000000010
1,2,3,4,6,7,8,9-OCDD							0.000000005 B
Total HxCDD							0.000000004
1,2,3,4,6,7,8-HpCDD							0.000000003
Total PeCDD							0.000000002
Total HpCDD							0.000000005
Total HpCDF							0.000000003
1,2,3,4,6,7,8,9-OCDF							0.000000002 B

Location 7

Constituent / Sample ID:	97-Q1437	97-Q1447	97-Q1462	RUN # 5-LOCATION # 7	RUN # 6-LOCATION # 7	RUN #10 LOCATION 7
1,2,3,4,7,8-HxCDD						0.0000000004 U
1,2,3,7,8-PeCDD						0.0000000003 U
Total TCDD						0.000000002
2,3,7,8-TCDF						0.0000000003
1,2,3,4,7,8,9-HpCDF						0.0000000009
Total HxCDF						0.00000001
Total TCDF						0.00000001
2,3,4,7,8-PeCDF						0.000000001
1,2,3,7,8-PeCDF						0.0000000004
1,2,3,6,7,8-HxCDF						0.0000000009
1,2,3,6,7,8-HxCDD						0.0000000003
2,3,4,6,7,8-HxCDF						0.000000002 PR
1,2,3,4,6,7,8-HpCDF						0.000000004 C
1,2,3,4,7,8-HxCDF						0.000000002 PR
1,2,3,7,8,9-HxCDF						0.0000000003 U
TSP (MG/M3)						
Net_Mass		0.17	0.11			

Location 7

Constituent / Sample ID:	RUN# 5 SITE# 7	RUN#3 SITE #7	RUN#4 SITE #7	RUN#6 SITE#7	RUN#7 LOCATION#7	RUN#8 LOCATION#7
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
Tetrachloroethene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						

Location 7

Constituent / Sample ID:	RUN# 5 SITE# 7	RUN#3 SITE #7	RUN#4 SITE #7	RUN#6 SITE#7	RUN#7 LOCATION#7	RUN#8 LOCATION#7
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Chloroethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000009 U	0.0000000008 U	0.0000000007 U	0.0000000009 U	0.000000002 U	0.000000002 U
1,2,3,7,8,9-HxCDD	0.000000006 PR	0.000000001 U	0.0000000008 U	0.000000001 U	0.000000002 U	0.000000006
Total PeCDF	0.0000001	0.00000001	0.00000002	0.000000009	0.000000008	0.0000002
1,2,3,4,6,7,8,9-OCDD	0.00000004	0.00000001	0.000000004 B	0.00000001	0.00000001	0.00000005
Total HxCDD	0.00000006	0.000000004 C	0.000000003	0.000000002 C	0.000000003 C	0.00000001
1,2,3,4,6,7,8-HpCDD	0.00000002	0.000000004	0.000000002	0.000000002 C	0.000000005	0.00000003
Total PeCDD	0.00000003	0.000000001 C	0.000000005 C	0.000000001 C	0.000000003 U	0.000000007 C
Total HpCDD	0.00000005	0.000000007	0.000000003	0.000000003	0.00000001	0.00000006
Total HpCDF	0.00000008	0.000000008	0.000000002 C	0.000000004	0.00000003	0.0000002
1,2,3,4,6,7,8,9-OCDF	0.00000003	0.000000006	0.0000000009 U	0.000000004	0.00000002	0.00000009

Location 7

Constituent / Sample ID:	RUN# 5 SITE# 7	RUN#3 SITE #7	RUN#4 SITE #7	RUN#6 SITE#7	RUN#7 LOCATION#7	RUN#8 LOCATION#7
1,2,3,4,7,8-HxCDD	0.000000002	0.000000001 U	0.0000000009 U	0.000000002 U	0.000000002 U	0.000000002 C
1,2,3,7,8-PeCDD	0.000000002 C	0.000000001 U	0.0000000008 U	0.000000001 U	0.000000003 U	0.000000004 U
Total TCDD	0.00000003	0.000000002	0.000000010	0.000000002	0.000000002 U	0.000000003 C
2,3,7,8-TCDF	0.000000005	0.000000003	0.0000000009 C	0.0000000004 C	0.000000001 U	0.000000001 C
1,2,3,4,7,8,9-HpCDF	0.000000010	0.000000002 U	0.000000001 U	0.000000002 U	0.000000005 C	0.00000003
Total HxCDF	0.0000001	0.00000001	0.000000006	0.000000009	0.00000003	0.0000002
Total TCDF	0.0000002	0.00000001	0.00000008	0.000000009	0.00000002	0.0000001
2,3,4,7,8-PeCDF	0.000000009	0.0000000008 U	0.0000000009 C	0.0000000009 U	0.000000002 U	0.00000002
1,2,3,7,8-PeCDF	0.000000006	0.0000000008 U	0.0000000008	0.0000000009 U	0.000000002 U	0.000000004
1,2,3,6,7,8-HxCDF	0.00000001	0.000000001	0.0000000006 C	0.0000000008 C	0.000000003	0.00000001
1,2,3,6,7,8-HxCDD	0.000000004	0.000000001 U	0.0000000008 U	0.000000002 U	0.000000002 U	0.000000004 C
2,3,4,6,7,8-HxCDF	0.00000002	0.000000003	0.000000001 BC	0.000000002 C	0.000000008	0.00000005
1,2,3,4,6,7,8-HpCDF	0.00000004	0.000000005 PRC	0.000000001 PRC	0.000000004	0.00000002	0.00000010
1,2,3,4,7,8-HxCDF	0.00000003 PR	0.000000003	0.000000002	0.000000003	0.000000007	0.00000003
1,2,3,7,8,9-HxCDF	0.000000001 C	0.000000001 U	0.0000000008 U	0.000000001 U	0.000000002 U	0.000000002
TSP (MG/M3)						
Net_Mass						

Location 7

Constituent / Sample ID:	RUN#9 LOCATION#7	Run # 3 - Location # 7	Run # 4 - Location # 7	Run # 9 - Location # 7	Run #2 - Location #7	Run #7 - Location #7
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Se						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)		0.009	0.005	0.007	0.002	0.01
Styrene (MG/M3)		0.001	0.004	0.002	0.0008 ND	0.0008 ND
cis-1,3-Dichloropropene (MG/M3		0.0002 ND	0.0003	0.0002	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/		0.0008 ND	0.0008 ND	0.0008	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)		0.001 ND	0.002	0.003	0.001 ND	0.001 ND
1,2-Dichloroethane (MG/M3)		0.0008 ND	0.0008 ND	0.0004	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)		0.010	0.007	0.008	0.003	0.01
1,3,5-Trimethylbenzene (MG/M3)		0.0009 ND	0.0009 ND	0.0010	0.0009 ND	0.0009 ND
Toluene (MG/M3)		0.04	0.02	0.06	0.02	0.04
Tetrachloroethene (MG/M3)		0.001 ND	0.001 ND	0.001 ND	0.001 ND	0.001 ND
cis-1,2-Dichloroethene (MG/M3)		0.0007 ND	0.0007 ND	0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)		102.00	100.00	107.00	92.00	102.00
Toluene-d8 (%R)		102.00	100.00	107.00	92.00	102.00
Octafluorotoluene (%)		102.00	99.00	93.00	84.00	98.00

Location 7

Constituent / Sample ID:	RUN#9 LOCATION#7	Run # 3 - Location # 7	Run # 4 - Location # 7	Run # 9 - Location # 7	Run #2 - Location #7	Run #7 - Location #7
Octafluorotoluene (%R)		102.00	99.00	93.00	84.00	98.00
4-Bromofluorobenzene (%)		117.00	121.00	93.00	96.00	104.00
4-Bromofluorobenzene (%R)		117.00	121.00	93.00	96.00	104.00
Carbon Tetrachloride (MG/M3)		0.001 ND	0.001 ND	0.0006	0.001 ND	0.001 ND
Chloroform (MG/M3)		0.0002 ND	0.0002	0.0004	0.0002 ND	0.0002 ND
Benzene (MG/M3)		0.002	0.004	0.005	0.002	0.003
1,1,1-Trichloroethane (MG/M3)		0.0010 ND	0.0010 ND	0.0010	0.0010 ND	0.001
Bromomethane (MG/M3)		0.0008	0.0010	0.0006 ND	0.0006 ND	0.0006 ND
Chloromethane (MG/M3)		0.002	0.002	0.001	0.001	0.001
Chloroethane (MG/M3)		0.0005 ND	0.0005 ND	0.0005 ND	0.01	0.0005 ND
Vinyl Chloride (MG/M3)		0.00010 ND	0.00010 ND	0.0001	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)		0.002	0.002	0.002	0.002	0.002
Freon 12 (MG/M3)		0.006	0.008	0.005	0.003	0.007
Freon 113 (MG/M3)		0.001 ND	0.001 ND	0.001 ND	0.001 ND	0.001 ND
1,2-Dichloropropane (MG/M3)		0.0009 ND	0.0009 ND	0.0008	0.0009 ND	0.001
Trichloroethene (MG/M3)		0.0010 ND	0.001	0.004	0.0010 ND	0.0010
o-Xylene (MG/M3)		0.003	0.003	0.003	0.001	0.004
1,2,4-Trimethylbenzene (MG/M3)		0.002	0.002	0.004	0.003	0.004
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.000000001 U					
1,2,3,7,8,9-HxCDD	0.000000003					
Total PeCDF	0.00000008					
1,2,3,4,6,7,8,9-OCDD	0.00000004					
Total HxCDD	0.00000002					
1,2,3,4,6,7,8-HpCDD	0.00000002					
Total PeCDD	0.000000008					
Total HpCDD	0.00000003					
Total HpCDF	0.00000009					
1,2,3,4,6,7,8,9-OCDF	0.00000005					

Location 7

Constituent / Sample ID:	RUN#9 LOCATION#7	Run # 3 - Location # 7	Run # 4 - Location # 7	Run # 9 - Location # 7	Run #2 - Location #7	Run #7 - Location #7
1,2,3,4,7,8-HxCDD	0.000000001					
1,2,3,7,8-PeCDD	0.000000002 U					
Total TCDD	0.000000005					
2,3,7,8-TCDF	0.0000000009 C					
1,2,3,4,7,8,9-HpCDF	0.00000001					
Total HxCDF	0.00000010					
Total TCDF	0.00000008					
2,3,4,7,8-PeCDF	0.000000007					
1,2,3,7,8-PeCDF	0.000000002 C					
1,2,3,6,7,8-HxCDF	0.000000006					
1,2,3,6,7,8-HxCDD	0.000000002					
2,3,4,6,7,8-HxCDF	0.00000002					
1,2,3,4,6,7,8-HpCDF	0.00000004					
1,2,3,4,7,8-HxCDF	0.00000002					
1,2,3,7,8,9-HxCDF	0.000000001					
TSP (MG/M3)						
Net_Mass						

Location 7

Constituent / Sample ID:	Run #8 - Location #7 SITE#7 RUN 14
Inorganics (MG/M3)	
Pb	
Ni	
Ag	
Sb	
As	
Cd	
Cr	
Cu	
Zn	
Se	
Particulates (MG/M3)	
PM10	
Volatile/Semi-Volatile Organic	
Ethyl Benzene (MG/M3)	0.006
Styrene (MG/M3)	0.0008 ND
cis-1,3-Dichloropropene (MG/M3	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0009
1,4-Dichlorobenzene (MG/M3)	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0008 ND
m,p-Xylene (MG/M3)	0.007
1,3,5-Trimethylbenzene (MG/M3)	0.0009 ND
Toluene (MG/M3)	0.03
Tetrachloroethene (MG/M3)	0.001 ND
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND
Toluene-d8 (%)	105.00
Toluene-d8 (%R)	105.00
Octafluorotoluene (%)	103.00

Location 7

Constituent / Sample ID:	Run #8 - Location #7	SITE#7 RUN 14
Octafluorotoluene (%R)	103.00	
4-Bromofluorobenzene (%)	108.00	
4-Bromofluorobenzene (%R)	108.00	
Carbon Tetrachloride (MG/M3)	0.001 ND	
Chloroform (MG/M3)	0.0002 ND	
Benzene (MG/M3)	0.003	
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	
Bromomethane (MG/M3)	0.002	
Chloromethane (MG/M3)	0.001	
Chloroethane (MG/M3)	0.0005 ND	
Vinyl Chloride (MG/M3)	0.00010 ND	
Freon 11 (MG/M3)	0.002	
Freon 12 (MG/M3)	0.005	
Freon 113 (MG/M3)	0.001 ND	
1,2-Dichloropropane (MG/M3)	0.0009 ND	
Trichloroethene (MG/M3)	0.0010 ND	
o-Xylene (MG/M3)	0.003	
1,2,4-Trimethylbenzene (MG/M3)	0.003	
Dioxins/Furans (MG/M3)		
2,3,7,8-TCDD		0.0000000002 U
1,2,3,7,8,9-HxCDD		0.0000000009 PR
Total PeCDF		0.00000003
1,2,3,4,6,7,8,9-OCDD		0.000000010 B
Total HxCDD		0.000000009
1,2,3,4,6,7,8-HpCDD		0.000000004
Total PeCDD		0.000000006
Total HpCDD		0.000000009
Total HpCDF		0.00000001
1,2,3,4,6,7,8,9-OCDF		0.000000007

Location 7

Constituent / Sample ID:	Run #8 - Location #7	SITE#7 RUN 14
1,2,3,4,7,8-HxCDD		0.0000000005 C
1,2,3,7,8-PeCDD		0.0000000005
Total TCDD		0.000000007
2,3,7,8-TCDF		0.0000000009 C
1,2,3,4,7,8,9-HpCDF		0.000000002 C
Total HxCDF		0.00000002
Total TCDF		0.00000004
2,3,4,7,8-PeCDF		0.000000003
1,2,3,7,8-PeCDF		0.000000001 C
1,2,3,6,7,8-HxCDF		0.000000002
1,2,3,6,7,8-HxCDD		0.0000000007
2,3,4,6,7,8-HxCDF		0.000000004 PR
1,2,3,4,6,7,8-HpCDF		0.00000001
1,2,3,4,7,8-HxCDF		0.000000004 PR
1,2,3,7,8,9-HxCDF		0.0000000003 U
TSP (MG/M3)		
Net_Mass		

Location 8

Constituent / Sample ID:	8-HOUSING	97-M443	97-M464	97-M474	97-M484	97-M494
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						

Location 8

Constituent / Sample ID:	8-HOUSING	97-M443	97-M464	97-M474	97-M484	97-M494
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD	0.0000000010					
Total PeCDF	0.00000002					
1,2,3,4,6,7,8,9-OCDD	0.000000008					
Total HxCDD	0.000000004					
1,2,3,4,6,7,8-HpCDD	0.000000004 C					
Total PeCDD	0.000000003					
Total HpCDD	0.000000005					
Total HpCDF	0.00000003					
1,2,3,4,6,7,8,9-OCDF	0.00000001					
1,2,3,4,7,8-HxCDD	0.0000000002 U					
1,2,3,7,8-PeCDD	0.0000000002 U					
Total TCDD	0.000000002					
2,3,7,8-TCDF	0.0000000005 U					

Location 8

Constituent / Sample ID:	8-HOUSING	97-M443	97-M464	97-M474	97-M484	97-M494
1,2,3,4,7,8,9-HpCDF	0.000000002					
Total HxCDF	0.00000003					
Total TCDF	0.00000002					
2,3,4,7,8-PeCDF	0.000000002					
1,2,3,7,8-PeCDF	0.0000000005					
1,2,3,6,7,8-HxCDF	0.000000002					
1,2,3,6,7,8-HxCDD	0.0000000006					
2,3,4,6,7,8-HxCDF	0.000000005					
1,2,3,4,6,7,8-HpCDF	0.00000001 PR					
1,2,3,4,7,8-HxCDF	0.000000004					
1,2,3,7,8,9-HxCDF	0.0000000002					
TSP (MG/M3)						
Net_Mass						

Location 8

Constituent / Sample ID:	97-M511	97-M521	97-M533	97-Q1267	97-Q1268	97-Q1300
Inorganics (MG/M3)						
Pb				0.00007		0.00006
Ni				0.00002		0.00002 U
Ag				0.000010 U		0.000010 U
Sb				0.00008 U		0.00008
As				0.00001		0.000002
Cd				0.000001		0.000001
Cr				0.000007		0.00001
Cu				0.00006		0.0002
Zn				0.0003		0.0003
Particulates (MG/M3)						
PM10					0.09	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						

Location 8

Constituent / Sample ID:	97-M511	97-M521	97-M533	97-Q1267	97-Q1268	97-Q1300
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						

Location 8

Constituent / Sample ID:	97-M511	97-M521	97-M533	97-Q1267	97-Q1268	97-Q1300
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass				0.09		0.11

Location 8

Constituent / Sample ID:	97-Q1301	97-Q1305	97-Q1306	97-Q1333	97-Q1334	97-Q1354
Inorganics (MG/M3)						
Pb			0.00005	0.001		0.00009
Ni			0.00002	0.00002		0.00003
Ag			0.00001 U	0.000009 U		0.000009 U
Sb			0.0003	0.00007 U		0.0001
As			0.000003	0.000007		0.000007
Cd			0.000001	0.00002		0.000003
Cr			0.00002	0.000007		0.00001
Cu			0.0002	0.0004		0.0002
Zn			0.0001	0.001		0.00002
Particulates (MG/M3)						
PM10	0.09	0.10			0.13	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						

Location 8

Constituent / Sample ID:	97-Q1301	97-Q1305	97-Q1306	97-Q1333	97-Q1334	97-Q1354
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						

Location 8

Constituent	Sample ID:	97-Q1301	97-Q1305	97-Q1306	97-Q1333	97-Q1334	97-Q1354
1,2,3,4,7,8,9-HpCDF							
Total HxCDF							
Total TCDF							
2,3,4,7,8-PeCDF							
1,2,3,7,8-PeCDF							
1,2,3,6,7,8-HxCDF							
1,2,3,6,7,8-HxCDD							
2,3,4,6,7,8-HxCDF							
1,2,3,4,6,7,8-HpCDF							
1,2,3,4,7,8-HxCDF							
1,2,3,7,8,9-HxCDF							
TSP (MG/M3)							
Net_Mass				0.11	0.14		0.12

Location 8

Constituent / Sample ID:	97-Q1355	97-Q1400	97-Q1401	97-Q1418	97-Q1419	97-Q1438
Inorganics (MG/M3)						
Pb		0.00006		0.00005		0.0002
Ni		0.00003		0.00002		0.00002
Ag		0.00001 U		0.00001		0.00001 U
Sb		0.00010 U		0.00009 U		0.00010
As		0.000002 U		0.000004		0.000005
Cd		0.000001		0.000005		0.000005
Cr		0.00001		0.000009		0.00001
Cu		0.0002		0.0002		0.0003
Zn		0.0002		0.0001		0.0004
Particulates (MG/M3)						
PM10	0.11		0.05		0.05	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
1,3,5-Trimethylbenzene (MG/M3)						
Toluene (MG/M3)						
cis-1,2-Dichloroethene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						

Location 8

Constituent / Sample ID:	97-Q1355	97-Q1400	97-Q1401	97-Q1418	97-Q1419	97-Q1438
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
Freon 113 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						

Location 8

Constituent / Sample ID:	97-Q1355	97-Q1400	97-Q1401	97-Q1418	97-Q1419	97-Q1438
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.09		0.06		0.14

Location 8

Constituent / Sample ID:	97-Q1439 RUN # 5-LOCATION # 8	RUN # 6-LOCATION # 8	RUN# 5 SITE# 8	RUN#3 SITE #8	RUN#4 SITE #8
Inorganics (MG/M3)					
Pb					
Ni					
Ag					
Sb					
As					
Cd					
Cr					
Cu					
Zn					
Particulates (MG/M3)					
PM10	0.11				
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)		0.003	0.002		
Styrene (MG/M3)		0.002	0.0008 ND		
cis-1,3-Dichloropropene (MG/M3		0.0006	0.0002 ND		
trans-1,3-Dichloropropene (MG/		0.0010	0.0008 ND		
1,4-Dichlorobenzene (MG/M3)		0.003	0.004		
1,2-Dichloroethane (MG/M3)		0.0008 ND	0.0008 ND		
m,p-Xylene (MG/M3)		0.005	0.002		
1,3,5-Trimethylbenzene (MG/M3)		0.0009 ND	0.0009 ND		
Toluene (MG/M3)		0.01	0.01		
cis-1,2-Dichloroethene (MG/M3)		0.0007 ND	0.0007 ND		
Toluene-d8 (%)		92.00	92.00		
Toluene-d8 (%R)		92.00	92.00		
Octafluorotoluene (%)		82.00	82.00		
Octafluorotoluene (%R)		82.00	82.00		
4-Bromofluorobenzene (%)		106.00	106.00		

Location 8

Constituent / Sample ID:	97-Q1439 RUN # 5-LOCATION # 8	RUN # 6-LOCATION # 8	RUN# 5 SITE# 8	RUN#3 SITE #8	RUN#4 SITE #8
4-Bromofluorobenzene (%R)	106.00	106.00			
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND			
Chloroform (MG/M3)	0.0003	0.0003			
Benzene (MG/M3)	0.005	0.004			
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.0010 ND			
Bromomethane (MG/M3)	0.0006 ND	0.0006 ND			
Chloromethane (MG/M3)	0.002	0.002			
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND			
Freon 11 (MG/M3)	0.002	0.002			
Freon 12 (MG/M3)	0.004	0.003			
Freon 113 (MG/M3)	0.001 ND	0.001 ND			
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND			
Trichloroethene (MG/M3)	0.001	0.0010 ND			
o-Xylene (MG/M3)	0.002	0.001			
1,2,4-Trimethylbenzene (MG/M3)	0.003	0.0010			
Dioxins/Furans (MG/M3)					
1,2,3,7,8,9-HxCDD			0.000000003 PR	0.0000000005 U	0.0000000007 PRC
Total PeCDF			0.00000007	0.000000003	0.00000003 E
1,2,3,4,6,7,8,9-OCDD			0.00000003	0.000000002	0.000000005 B
Total HxCDD			0.00000003	0.0000000004	0.000000008
1,2,3,4,6,7,8-HpCDD			0.00000002	0.0000000007	0.000000004
Total PeCDD			0.00000002	0.0000000005 U	0.000000007
Total HpCDD			0.00000004	0.000000001	0.000000007
Total HpCDF			0.00000006	0.0000000010	0.00000001
1,2,3,4,6,7,8,9-OCDF			0.00000003	0.0000000006 U	0.000000005
1,2,3,4,7,8-HxCDD			0.000000001	0.0000000005 U	0.0000000004 C
1,2,3,7,8-PeCDD			0.0000000010 C	0.0000000005 U	0.0000000001 C
Total TCDD			0.00000001	0.0000000006	0.00000001
2,3,7,8-TCDF			0.000000002	0.000000001	0.000000001

Location 8

Constituent / Sample ID:	97-Q1439 RUN # 5-LOCATION # 8 RUN # 6-LOCATION # 8	RUN# 5 SITE# 8	RUN#3 SITE #8	RUN#4 SITE #8
1,2,3,4,7,8,9-HpCDF		0.000000007	0.0000000006 U	0.000000002 C
Total HxCDF		0.00000008	0.000000005	0.00000002
Total TCDF		0.0000001	0.000000003	0.0000001
2,3,4,7,8-PeCDF		0.000000005	0.0000000003 U	0.000000002 EC
1,2,3,7,8-PeCDF		0.000000003	0.0000000004 U	0.000000001 EC
1,2,3,6,7,8-HxCDF		0.000000006	0.0000000003 U	0.000000002
1,2,3,6,7,8-HxCDD		0.000000003	0.0000000005 U	0.0000000006 C
2,3,4,6,7,8-HxCDF		0.00000001	0.000000001 PR	0.000000003 PRB
1,2,3,4,6,7,8-HpCDF		0.00000003	0.0000000009 PRC	0.000000006
1,2,3,4,7,8-HxCDF		0.00000002 PR	0.0000000008 PR	0.000000004 PR
1,2,3,7,8,9-HxCDF		0.0000000007 C	0.0000000004 U	0.0000000003 U
TSP (MG/M3)				
Net_Mass				

Location 8

Constituent / Sample ID:	RUN#6 SITE#8	RUN#7 LOCATION#8	RUN#8 LOCATION#8	RUN#9 LOCATION#8	Run # 3 - Location # 8	Run # 4 - Location # 8
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)					0.02	0.004
Styrene (MG/M3)					0.001	0.004
cis-1,3-Dichloropropene (MG/M3					0.0002 ND	0.0003
trans-1,3-Dichloropropene (MG/					0.0008 ND	0.001
1,4-Dichlorobenzene (MG/M3)					0.001	0.002
1,2-Dichloroethane (MG/M3)					0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)					0.01	0.005
1,3,5-Trimethylbenzene (MG/M3)					0.0009 ND	0.0009 ND
Toluene (MG/M3)					0.06	0.02
cis-1,2-Dichloroethene (MG/M3)					0.0007 ND	0.0009
Toluene-d8 (%)					104.00	96.00
Toluene-d8 (%R)					104.00	96.00
Octafluorotoluene (%)					103.00	84.00
Octafluorotoluene (%R)					103.00	84.00
4-Bromofluorobenzene (%)					123.00	100.00

Location 8

Constituent / Sample ID:	RUN#6 SITE#8	RUN#7 LOCATION#8	RUN#8 LOCATION#8	RUN#9 LOCATION#8	Run # 3 - Location # 8	Run # 4 - Location # 8
4-Bromofluorobenzene (%R)					123.00	100.00
Carbon Tetrachloride (MG/M3)					0.001 ND	0.001 ND
Chloroform (MG/M3)					0.0002 ND	0.0002
Benzene (MG/M3)					0.003	0.005
1,1,1-Trichloroethane (MG/M3)					0.0010 ND	0.0010
Bromomethane (MG/M3)					0.0008	0.0006 ND
Chloromethane (MG/M3)					0.002	0.002
Vinyl Chloride (MG/M3)					0.00010 ND	0.00010 ND
Freon 11 (MG/M3)					0.002	0.002
Freon 12 (MG/M3)					0.007	0.004
Freon 113 (MG/M3)					0.001 ND	0.001 ND
1,2-Dichloropropane (MG/M3)					0.0009 ND	0.0009 ND
Trichloroethene (MG/M3)					0.0010 ND	0.0010 ND
o-Xylene (MG/M3)					0.004	0.002
1,2,4-Trimethylbenzene (MG/M3)					0.002	0.003
Dioxins/Furans (MG/M3)						
1,2,3,7,8,9-HxCDD	0.0000000002 U	0.0000000006 U	0.000000003	0.000000002		
Total PeCDF	0.00000001	0.000000008	0.00000007	0.00000005		
1,2,3,4,6,7,8,9-OCDD	0.000000004	0.000000009	0.00000003	0.00000002		
Total HxCDD	0.000000001	0.000000003	0.00000003	0.00000001		
1,2,3,4,6,7,8-HpCDD	0.000000001	0.000000003 C	0.00000002	0.000000009		
Total PeCDD	0.000000001	0.000000001 C	0.00000001 C	0.000000007		
Total HpCDD	0.000000003	0.000000004	0.00000004	0.00000002		
Total HpCDF	0.000000004	0.00000003	0.0000001	0.00000006		
1,2,3,4,6,7,8,9-OCDF	0.000000002	0.00000001	0.00000005	0.00000003		
1,2,3,4,7,8-HxCDD	0.0000000003 U	0.0000000006 U	0.000000002 U	0.0000000007 C		
1,2,3,7,8-PeCDD	0.0000000002 U	0.0000000008 U	0.000000003 U	0.0000000005 U		
Total TCDD	0.000000002	0.0000000009 C	0.000000003	0.000000004		
2,3,7,8-TCDF	0.0000000004	0.0000000003	0.0000000010	0.0000000007		

Location 8

Constituent / Sample ID:	RUN#6 SITE#8	RUN#7 LOCATION#8	RUN#8 LOCATION#8	RUN#9 LOCATION#8	Run # 3 - Location # 8	Run # 4 - Location # 8
1,2,3,4,7,8,9-HpCDF	0.0000000004 C	0.000000004	0.00000001 C	0.000000007		
Total HxCDF	0.000000009	0.00000003	0.0000001	0.00000006		
Total TCDF	0.00000002	0.00000001	0.00000006	0.00000005		
2,3,4,7,8-PeCDF	0.0000000008 C	0.0000000005 U	0.000000008	0.000000003		
1,2,3,7,8-PeCDF	0.0000000005 PR	0.0000000005 U	0.000000001 U	0.000000001		
1,2,3,6,7,8-HxCDF	0.0000000007	0.000000002	0.000000009	0.000000003		
1,2,3,6,7,8-HxCDD	0.0000000003 U	0.0000000005 U	0.000000003	0.000000001		
2,3,4,6,7,8-HxCDF	0.000000001	0.000000006	0.00000003	0.00000001		
1,2,3,4,6,7,8-HpCDF	0.000000003	0.00000001	0.00000006	0.00000002		
1,2,3,4,7,8-HxCDF	0.000000002	0.000000004	0.00000002	0.000000010		
1,2,3,7,8,9-HxCDF	0.0000000002 U	0.0000000005 U	0.000000001	0.0000000003 C		
TSP (MG/M3)						
Net_Mass						

Location 8

Constituent / Sample ID:	Run # 9 - Location # 8	Run #2 - Location #8	Run #7 - Location #8	Run #7 - Location
Inorganics (MG/M3)				
Pb				
Ni				
Ag				
Sb				
As				
Cd				
Cr				
Cu				
Zn				
Particulates (MG/M3)				
PM10				
Volatile/Semi-Volatile Organic				
Ethyl Benzene (MG/M3)	0.006	0.002	0.008	0.008
Styrene (MG/M3)	0.002	0.0008 ND	0.0008 ND	0.0008 ND
cis-1,3-Dichloropropene (MG/M3	0.0002	0.0002 ND	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0008 ND	0.0008 ND	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.004	0.002	0.001 ND	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0007	0.0008 ND	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)	0.007	0.004	0.01	0.010
1,3,5-Trimethylbenzene (MG/M3)	0.0009	0.0009 ND	0.0009 ND	0.0009 ND
Toluene (MG/M3)	0.03	0.02	0.03	0.03
cis-1,2-Dichloroethene (MG/M3)	0.0007 ND	0.0007 ND	0.0007 ND	0.0007 ND
Toluene-d8 (%)	107.00	90.00	105.00	112.00
Toluene-d8 (%R)	107.00	90.00	105.00	112.00
Octafluorotoluene (%)	96.00	86.00	95.00	91.00
Octafluorotoluene (%R)	96.00	86.00	95.00	91.00
4-Bromofluorobenzene (%)	100.00	96.00	119.00	116.00

Location 8

Constituent / Sample ID:	Run # 9 - Location # 8	Run #2 - Location #8	Run #7 - Location #8	Run #7 - Location
4-Bromofluorobenzene (%R)	100.00	96.00	119.00	116.00
Carbon Tetrachloride (MG/M3)	0.0006	0.001	0.001 ND	0.001 ND
Chloroform (MG/M3)	0.0004	0.001	0.0002	0.0002
Benzene (MG/M3)	0.005	0.003	0.003	0.003
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.0010 ND	0.001	0.001
Bromomethane (MG/M3)	0.0006 ND	0.0008	0.001	0.001
Chloromethane (MG/M3)	0.002	0.003	0.002	0.002
Vinyl Chloride (MG/M3)	0.0001	0.00010 ND	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)	0.002	0.002	0.001	0.001
Freon 12 (MG/M3)	0.005	0.004	0.007	0.007
Freon 113 (MG/M3)	0.001 ND	0.001 ND	0.002	0.002
1,2-Dichloropropane (MG/M3)	0.0006	0.0009 ND	0.0009 ND	0.0009 ND
Trichloroethene (MG/M3)	0.003	0.0010 ND	0.0010	0.0009 J
o-Xylene (MG/M3)	0.003	0.002	0.004	0.003
1,2,4-Trimethylbenzene (MG/M3)	0.004	0.008	0.004	0.003
Dioxins/Furans (MG/M3)				
1,2,3,7,8,9-HxCDD				
Total PeCDF				
1,2,3,4,6,7,8,9-OCDD				
Total HxCDD				
1,2,3,4,6,7,8-HpCDD				
Total PeCDD				
Total HpCDD				
Total HpCDF				
1,2,3,4,6,7,8,9-OCDF				
1,2,3,4,7,8-HxCDD				
1,2,3,7,8-PeCDD				
Total TCDD				
2,3,7,8-TCDF				

Location 8

Constituent / Sample ID:	Run # 9 - Location # 8	Run #2 - Location #8	Run #7 - Location #8	Run #7 - Location
1,2,3,4,7,8,9-HpCDF				
Total HxCDF				
Total TCDF				
2,3,4,7,8-PeCDF				
1,2,3,7,8-PeCDF				
1,2,3,6,7,8-HxCDF				
1,2,3,6,7,8-HxCDD				
2,3,4,6,7,8-HxCDF				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
TSP (MG/M3)				
Net_Mass				

Location 9

Constituent / Sample ID:	9-CHILD CENTER	97-M444	97-M465	97-M475	97-M485	97-M495
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
Toluene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						

Location 9

Constituent / Sample ID:	9-CHILD CENTER	97-M444	97-M465	97-M475	97-M485	97-M495
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.0000000002 U					
1,2,3,7,8,9-HxCDD	0.0000000003 U					
Total PeCDF	0.000000006					
1,2,3,4,6,7,8,9-OCDD	0.000000003 B					
Total HxCDD	0.000000003 C					
1,2,3,4,6,7,8-HpCDD	0.000000002					
Total PeCDD	0.000000002					
Total HpCDD	0.000000002					
Total HpCDF	0.000000008					
1,2,3,4,6,7,8,9-OCDF	0.000000004					
1,2,3,4,7,8-HxCDD	0.0000000003 U					
1,2,3,7,8-PeCDD	0.0000000003 U					
Total TCDD	0.000000003					
2,3,7,8-TCDF	0.0000000007 U					
1,2,3,4,7,8,9-HpCDF	0.000000001					
Total HxCDF	0.000000006					

Location 9

Constituent / Sample ID:	9-CHILD CENTER	97-M444	97-M465	97-M475	97-M485	97-M495
Total TCDF	0.00000001					
2,3,4,7,8-PeCDF	0.0000000006					
1,2,3,7,8-PeCDF	0.0000000002 U					
1,2,3,6,7,8-HxCDF	0.0000000005					
1,2,3,6,7,8-HxCDD	0.0000000003 U					
2,3,4,6,7,8-HxCDF	0.000000002					
1,2,3,4,6,7,8-HpCDF	0.000000004 PR					
1,2,3,4,7,8-HxCDF	0.000000001					
1,2,3,7,8,9-HxCDF	0.0000000002 U					
TSP (MG/M3)						
Net_Mass						

Location 9

Constituent / Sample ID:	97-M512	97-M522	97-M534	97-Q1269	97-Q1270	97-Q1282
Inorganics (MG/M3)						
Pb				0.00009		0.00005
Ni				0.00002 U		0.00002 U
Ag				0.00001 U		0.00001 U
Sb				0.00010 U		0.00010 U
As				0.00002		0.000003
Cd				0.000002		0.0000008
Cr				0.000010		0.00001
Cu				0.0003		0.00007
Zn				0.0003		0.0002
Particulates (MG/M3)						
PM10					0.15	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
Toluene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						

Location 9

Constituent / Sample ID:	97-M512	97-M522	97-M534	97-Q1269	97-Q1270	97-Q1282
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 9

Constituent / Sample ID:	97-M512	97-M522	97-M534	97-Q1269	97-Q1270	97-Q1282
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass				0.15		0.08

Location 9

Constituent / Sample ID:	97-Q1283	97-Q1307	97-Q1308	97-Q1335	97-Q1336	97-Q1356
Inorganics (MG/M3)						
Pb			0.00004	0.001		0.00006
Ni			0.00003	0.00003		0.00002
Ag			0.00001 U	0.00001 U		0.000009 U
Sb			0.0002	0.00008 U		0.00007 U
As			0.000003	0.000007		0.000005
Cd			0.000001	0.00002		0.000001
Cr			0.00002	0.000010		0.000008
Cu			0.0002	0.0004		0.0001
Zn			0.0003	0.001		0.0001
Particulates (MG/M3)						
PM10	0.10	0.13			0.16	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
Toluene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						

Location 9

Constituent / Sample ID:	97-Q1283	97-Q1307	97-Q1308	97-Q1335	97-Q1336	97-Q1356
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 9

Constituent / Sample ID:	97-Q1283	97-Q1307	97-Q1308	97-Q1335	97-Q1336	97-Q1356
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass			0.11	0.16		0.08

Location 9

Constituent / Sample ID:	97-Q1357	97-Q1402	97-Q1403	97-Q1420	97-Q1421	97-Q1440
Inorganics (MG/M3)						
Pb		0.00006		0.00006		0.0001
Ni		0.00002		0.00004		0.00003
Ag		0.00002		0.00001 U		0.00001 U
Sb		0.0001 U		0.0001 U		0.00009
As		0.000002 U		0.000006		0.000003
Cd		0.0000010		0.000001		0.000004
Cr		0.00001		0.00001		0.00001
Cu		0.0001		0.0001		0.0002
Zn		0.0002		0.0003		0.0003
Particulates (MG/M3)						
PM10	0.15		0.07		0.07	
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)						
Styrene (MG/M3)						
cis-1,3-Dichloropropene (MG/M3						
trans-1,3-Dichloropropene (MG/						
1,4-Dichlorobenzene (MG/M3)						
1,2-Dichloroethane (MG/M3)						
m,p-Xylene (MG/M3)						
Toluene (MG/M3)						
Toluene-d8 (%)						
Toluene-d8 (%R)						
Octafluorotoluene (%)						
Octafluorotoluene (%R)						
4-Bromofluorobenzene (%)						
4-Bromofluorobenzene (%R)						
Carbon Tetrachloride (MG/M3)						

Location 9

Constituent / Sample ID:	97-Q1357	97-Q1402	97-Q1403	97-Q1420	97-Q1421	97-Q1440
Chloroform (MG/M3)						
Benzene (MG/M3)						
1,1,1-Trichloroethane (MG/M3)						
Bromomethane (MG/M3)						
Chloromethane (MG/M3)						
Vinyl Chloride (MG/M3)						
Freon 11 (MG/M3)						
Freon 12 (MG/M3)						
1,2-Dichloropropane (MG/M3)						
Trichloroethene (MG/M3)						
o-Xylene (MG/M3)						
1,2,4-Trimethylbenzene (MG/M3)						
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 9

Constituent / Sample ID:	97-Q1357	97-Q1402	97-Q1403	97-Q1420	97-Q1421	97-Q1440
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass		0.08		0.08		0.10

Location 9

Constituent / Sample ID:	97-Q1441 RUN # 5-LOCATION # 9	RUN # 6-LOCATION # 9	RUN# 5 SITE# 9	RUN#3 SITE #9	RUN#4 SITE #9
Inorganics (MG/M3)					
Pb					
Ni					
Ag					
Sb					
As					
Cd					
Cr					
Cu					
Zn					
Particulates (MG/M3)					
PM10	0.15				
Volatile/Semi-Volatile Organic					
Ethyl Benzene (MG/M3)	0.003	0.002			
Styrene (MG/M3)	0.002	0.0008 ND			
cis-1,3-Dichloropropene (MG/M3	0.0006	0.0002 ND			
trans-1,3-Dichloropropene (MG/	0.0010	0.0008 ND			
1,4-Dichlorobenzene (MG/M3)	0.003	0.003			
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0008 ND			
m,p-Xylene (MG/M3)	0.005	0.002			
Toluene (MG/M3)	0.01	0.009			
Toluene-d8 (%)	92.00	92.00			
Toluene-d8 (%R)	92.00	92.00			
Octafluorotoluene (%)	82.00	84.00			
Octafluorotoluene (%R)	82.00	84.00			
4-Bromofluorobenzene (%)	106.00	104.00			
4-Bromofluorobenzene (%R)	106.00	104.00			
Carbon Tetrachloride (MG/M3)	0.001 ND	0.001 ND			

Location 9

Constituent / Sample ID:	97-Q1441 RUN # 5-LOCATION # 9	RUN # 6-LOCATION # 9	RUN# 5 SITE# 9	RUN#3 SITE #9	RUN#4 SITE #9
Chloroform (MG/M3)	0.0003	0.0003			
Benzene (MG/M3)	0.005	0.005			
1,1,1-Trichloroethane (MG/M3)	0.0010 ND	0.0010 ND			
Bromomethane (MG/M3)	0.0006 ND	0.0006 ND			
Chloromethane (MG/M3)	0.002	0.003			
Vinyl Chloride (MG/M3)	0.00010 ND	0.00010 ND			
Freon 11 (MG/M3)	0.002	0.002			
Freon 12 (MG/M3)	0.003	0.004			
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0009 ND			
Trichloroethene (MG/M3)	0.001	0.0010 ND			
o-Xylene (MG/M3)	0.002	0.0009			
1,2,4-Trimethylbenzene (MG/M3)	0.003	0.0007 ND			
Dioxins/Furans (MG/M3)					
2,3,7,8-TCDD			0.0000000003 C	0.0000000002 U	0.0000000004 U
1,2,3,7,8,9-HxCDD			0.000000003 PR	0.0000000002 U	0.0000000009 PRC
Total PeCDF			0.00000005	0.000000004	0.00000003
1,2,3,4,6,7,8,9-OCDD			0.00000003	0.000000003	0.000000005 B
Total HxCDD			0.00000003	0.0000000003 C	0.000000005
1,2,3,4,6,7,8-HpCDD			0.00000002	0.0000000008	0.000000003
Total PeCDD			0.000000008	0.0000000005 C	0.000000004
Total HpCDD			0.00000003	0.0000000008	0.000000007
Total HpCDF			0.00000004	0.000000001 C	0.000000008
1,2,3,4,6,7,8,9-OCDF			0.00000002	0.0000000007 C	0.000000005
1,2,3,4,7,8-HxCDD			0.0000000009	0.0000000003 U	0.0000000006 U
1,2,3,7,8-PeCDD			0.0000000008	0.0000000002 U	0.0000000006 U
Total TCDD			0.00000001	0.0000000008 C	0.000000004
2,3,7,8-TCDF			0.000000001	0.000000001	0.0000000009
1,2,3,4,7,8,9-HpCDF			0.000000005	0.0000000003 U	0.000000001 C
Total HxCDF			0.00000006	0.000000005	0.00000002

Location 9

Constituent / Sample ID:	97-Q1441 RUN # 5-LOCATION # 9 RUN # 6-LOCATION # 9	RUN# 5 SITE# 9	RUN#3 SITE #9	RUN#4 SITE #9
Total TCDF		0.00000006	0.000000003	0.00000007
2,3,4,7,8-PeCDF		0.000000004	0.0000000005	0.000000002
1,2,3,7,8-PeCDF		0.000000002	0.0000000002 U	0.0000000005 C
1,2,3,6,7,8-HxCDF		0.000000005 PR	0.0000000004	0.000000001
1,2,3,6,7,8-HxCDD		0.000000002	0.0000000002 U	0.0000000006 U
2,3,4,6,7,8-HxCDF		0.000000009	0.000000001 PR	0.000000003 PRB
1,2,3,4,6,7,8-HpCDF		0.00000002	0.0000000008 PRC	0.000000005
1,2,3,4,7,8-HxCDF		0.00000001	0.0000000010 PR	0.000000003 PR
1,2,3,7,8,9-HxCDF		0.0000000006	0.0000000002 U	0.0000000005 U
TSP (MG/M3)				
Net_Mass				

Location 9

Constituent / Sample ID:	RUN#6 SITE#9	RUN#7 LOCATION#9	RUN#8 LOCATION#9	RUN#9 LOCATION#9	Run # 3 - Location # 9	Run # 4 - Location # 9
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)					0.006	0.003
Styrene (MG/M3)					0.0008 ND	0.002
cis-1,3-Dichloropropene (MG/M3					0.0002 ND	0.0003
trans-1,3-Dichloropropene (MG/					0.0008 ND	0.001
1,4-Dichlorobenzene (MG/M3)					0.001 ND	0.003
1,2-Dichloroethane (MG/M3)					0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)					0.007	0.005
Toluene (MG/M3)					0.03	0.02
Toluene-d8 (%)					106.00	94.00
Toluene-d8 (%R)					106.00	94.00
Octafluorotoluene (%)					104.00	82.00
Octafluorotoluene (%R)					104.00	82.00
4-Bromofluorobenzene (%)					125.00	102.00
4-Bromofluorobenzene (%R)					125.00	102.00
Carbon Tetrachloride (MG/M3)					0.001 ND	0.001 ND

Location 9

Constituent / Sample ID:	RUN#6 SITE#9	RUN#7 LOCATION#9	RUN#8 LOCATION#9	RUN#9 LOCATION#9	Run # 3 - Location # 9	Run # 4 - Location # 9
Chloroform (MG/M3)					0.0002 ND	0.0003
Benzene (MG/M3)					0.003	0.004
1,1,1-Trichloroethane (MG/M3)					0.0010 ND	0.001
Bromomethane (MG/M3)					0.0009	0.0006 ND
Chloromethane (MG/M3)					0.002	0.002
Vinyl Chloride (MG/M3)					0.00010 ND	0.00010 ND
Freon 11 (MG/M3)					0.002	0.002
Freon 12 (MG/M3)					0.006	0.003
1,2-Dichloropropane (MG/M3)					0.0009 ND	0.0009 ND
Trichloroethene (MG/M3)					0.0010 ND	0.002
o-Xylene (MG/M3)					0.002	0.002
1,2,4-Trimethylbenzene (MG/M3)					0.002	0.003
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD	0.000000002 U	0.000000004 U	0.00000002 U	0.000000004 U		
1,2,3,7,8,9-HxCDD	0.000000003 U	0.000000005 U	0.00000004	0.00000002		
Total PeCDF	0.00000001	0.000000004 U	0.0000003	0.0000005		
1,2,3,4,6,7,8,9-OCDD	0.000000009	0.000000008 C	0.0000003	0.0000003		
Total HxCDD	0.000000003 C	0.000000005 U	0.00000008	0.0000001		
1,2,3,4,6,7,8-HpCDD	0.000000004 U	0.000000002 C	0.0000002	0.00000009		
Total PeCDD	0.000000004 C	0.000000006 U	0.00000008 C	0.00000008		
Total HpCDD	0.000000004 U	0.000000004 C	0.0000004	0.0000002		
Total HpCDF	0.000000005	0.000000006	0.000001	0.0000005		
1,2,3,4,6,7,8,9-OCDF	0.000000006	0.00000001 C	0.0000005	0.0000003		
1,2,3,4,7,8-HxCDD	0.000000004 U	0.000000005 U	0.00000002 U	0.000000008		
1,2,3,7,8-PeCDD	0.000000003 U	0.000000006 U	0.00000003 U	0.000000006 U		
Total TCDD	0.000000003	0.000000004 U	0.00000005	0.00000007		
2,3,7,8-TCDF	0.0000000007 C	0.000000003 U	0.00000001 EC	0.000000008		
1,2,3,4,7,8,9-HpCDF	0.000000004 U	0.000000004 U	0.0000002	0.00000006		
Total HxCDF	0.000000009	0.000000005	0.000001	0.0000006		

Location 9

Constituent / Sample ID:	RUN#6 SITE#9	RUN#7 LOCATION#9	RUN#8 LOCATION#9	RUN#9 LOCATION#9	Run # 3 - Location # 9	Run # 4 - Location # 9
Total TCDF	0.00000003	0.000000003 U	0.0000005	0.0000005		
2,3,4,7,8-PeCDF	0.000000002 U	0.000000004 U	0.00000006 C	0.00000003		
1,2,3,7,8-PeCDF	0.000000002 U	0.000000004 U	0.00000002 C	0.00000001 C		
1,2,3,6,7,8-HxCDF	0.000000002 C	0.000000001 C	0.00000007	0.00000003		
1,2,3,6,7,8-HxCDD	0.000000003 U	0.000000004 U	0.00000002 C	0.00000001		
2,3,4,6,7,8-HxCDF	0.000000003	0.000000005 C	0.0000002	0.0000001		
1,2,3,4,6,7,8-HpCDF	0.000000005	0.000000009 C	0.0000005	0.0000002		
1,2,3,4,7,8-HxCDF	0.000000004	0.000000005	0.0000002	0.00000009		
1,2,3,7,8,9-HxCDF	0.000000003 U	0.000000004 U	0.00000002 U	0.000000006		
TSP (MG/M3)						
Net_Mass						

Location 9

Constituent / Sample ID:	Run # 4 - Location #	Run # 9 - Location # 9	Run # 9 - Location #	Run #2 - Location #9	Run #7 - Location #9	Run #8 - Location #9
Inorganics (MG/M3)						
Pb						
Ni						
Ag						
Sb						
As						
Cd						
Cr						
Cu						
Zn						
Particulates (MG/M3)						
PM10						
Volatile/Semi-Volatile Organic						
Ethyl Benzene (MG/M3)	0.003	0.006	0.006	0.001	0.005	0.006
Styrene (MG/M3)	0.002	0.002	0.002	0.0008 ND	0.0008 ND	0.0008 ND
cis-1,3-Dichloropropene (MG/M3	0.0003	0.0002	0.0002	0.0002 ND	0.0002 ND	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0010	0.0008 ND	0.0008 ND	0.002	0.0008 ND	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.003	0.004	0.004	0.001	0.001 ND	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0008 ND	0.0004	0.0005	0.0008 ND	0.0008 ND	0.0008 ND
m,p-Xylene (MG/M3)	0.005	0.009	0.008	0.003	0.007	0.007
Toluene (MG/M3)	0.02	0.03	0.03	0.008	0.04	0.03
Toluene-d8 (%)	94.00	101.00	103.00	88.00	102.00	103.00
Toluene-d8 (%R)	94.00	101.00	103.00	88.00	102.00	103.00
Octafluorotoluene (%)	82.00	102.00	102.00	86.00	96.00	105.00
Octafluorotoluene (%R)	82.00	102.00	102.00	86.00	96.00	105.00
4-Bromofluorobenzene (%)	102.00	122.00	119.00	96.00	116.00	120.00
4-Bromofluorobenzene (%R)	102.00	122.00	119.00	96.00	116.00	120.00
Carbon Tetrachloride (MG/M3)	0.001 ND	0.0008	0.0008	0.001 ND	0.001 ND	0.001 ND

Location 9

Constituent / Sample ID:	Run # 4 - Location #	Run # 9 - Location # 9	Run # 9 - Location #	Run #2 - Location #9	Run #7 - Location #9	Run #8 - Location #9
Chloroform (MG/M3)	0.0003	0.0004	0.0004	0.0002 ND	0.0002 ND	0.0002 ND
Benzene (MG/M3)	0.004	0.005	0.005	0.002	0.003	0.003
1,1,1-Trichloroethane (MG/M3)	0.001	0.0010 ND	0.0010 ND	0.0010 ND	0.004	0.0010 J
Bromomethane (MG/M3)	0.0006 ND	0.001	0.001	0.0006 ND	0.0010	0.002
Chloromethane (MG/M3)	0.002	0.002	0.001	0.002	0.001	0.002
Vinyl Chloride (MG/M3)	0.00010 ND	0.0002	0.0001	0.00010 ND	0.00010 ND	0.00010 ND
Freon 11 (MG/M3)	0.002	0.002	0.002	0.002	0.001	0.002
Freon 12 (MG/M3)	0.003	0.004	0.005	0.003	0.007	0.005
1,2-Dichloropropane (MG/M3)	0.0009 ND	0.0007	0.0007	0.0009 ND	0.0009 ND	0.0009 ND
Trichloroethene (MG/M3)	0.002	0.003	0.003	0.0010 ND	0.001	0.0010 ND
o-Xylene (MG/M3)	0.002	0.003	0.003	0.001	0.002	0.003
1,2,4-Trimethylbenzene (MG/M3)	0.003	0.004	0.003	0.004	0.003	0.003
Dioxins/Furans (MG/M3)						
2,3,7,8-TCDD						
1,2,3,7,8,9-HxCDD						
Total PeCDF						
1,2,3,4,6,7,8,9-OCDD						
Total HxCDD						
1,2,3,4,6,7,8-HpCDD						
Total PeCDD						
Total HpCDD						
Total HpCDF						
1,2,3,4,6,7,8,9-OCDF						
1,2,3,4,7,8-HxCDD						
1,2,3,7,8-PeCDD						
Total TCDD						
2,3,7,8-TCDF						
1,2,3,4,7,8,9-HpCDF						
Total HxCDF						

Location 9

Constituent / Sample ID:	Run # 4 - Location #	Run # 9 - Location # 9	Run # 9 - Location #	Run #2 - Location #9	Run #7 - Location #9	Run #8 - Location #9
Total TCDF						
2,3,4,7,8-PeCDF						
1,2,3,7,8-PeCDF						
1,2,3,6,7,8-HxCDF						
1,2,3,6,7,8-HxCDD						
2,3,4,6,7,8-HxCDF						
1,2,3,4,6,7,8-HpCDF						
1,2,3,4,7,8-HxCDF						
1,2,3,7,8,9-HxCDF						
TSP (MG/M3)						
Net_Mass						

Location 9

Constituent / Sample ID:	Run #8 - Location
Inorganics (MG/M3)	
Pb	
Ni	
Ag	
Sb	
As	
Cd	
Cr	
Cu	
Zn	
Particulates (MG/M3)	
PM10	
Volatile/Semi-Volatile Organic	
Ethyl Benzene (MG/M3)	0.004
Styrene (MG/M3)	0.0008 ND
cis-1,3-Dichloropropene (MG/M3	0.0002 ND
trans-1,3-Dichloropropene (MG/	0.0008 ND
1,4-Dichlorobenzene (MG/M3)	0.001 ND
1,2-Dichloroethane (MG/M3)	0.0008 ND
m,p-Xylene (MG/M3)	0.004
Toluene (MG/M3)	0.03
Toluene-d8 (%)	104.00
Toluene-d8 (%R)	104.00
Octafluorotoluene (%)	92.00
Octafluorotoluene (%R)	92.00
4-Bromofluorobenzene (%)	92.00
4-Bromofluorobenzene (%R)	92.00
Carbon Tetrachloride (MG/M3)	0.001 ND

Location 9

Constituent / Sample ID:	Run #8 - Location
Chloroform (MG/M3)	0.0002 ND
Benzene (MG/M3)	0.003
1,1,1-Trichloroethane (MG/M3)	0.001
Bromomethane (MG/M3)	0.001
Chloromethane (MG/M3)	0.001
Vinyl Chloride (MG/M3)	0.00010 ND
Freon 11 (MG/M3)	0.002
Freon 12 (MG/M3)	0.004
1,2-Dichloropropane (MG/M3)	0.0009 ND
Trichloroethene (MG/M3)	0.0010 ND
o-Xylene (MG/M3)	0.001
1,2,4-Trimethylbenzene (MG/M3)	0.002
Dioxins/Furans (MG/M3)	
2,3,7,8-TCDD	
1,2,3,7,8,9-HxCDD	
Total PeCDF	
1,2,3,4,6,7,8,9-OCDD	
Total HxCDD	
1,2,3,4,6,7,8-HpCDD	
Total PeCDD	
Total HpCDD	
Total HpCDF	
1,2,3,4,6,7,8,9-OCDF	
1,2,3,4,7,8-HxCDD	
1,2,3,7,8-PeCDD	
Total TCDD	
2,3,7,8-TCDF	
1,2,3,4,7,8,9-HpCDF	
Total HxCDF	

Location 9

Constituent / Sample ID:	Run #8 - Location
Total TCDF	
2,3,4,7,8-PeCDF	
1,2,3,7,8-PeCDF	
1,2,3,6,7,8-HxCDF	
1,2,3,6,7,8-HxCDD	
2,3,4,6,7,8-HxCDF	
1,2,3,4,6,7,8-HpCDF	
1,2,3,4,7,8-HxCDF	
1,2,3,7,8,9-HxCDF	
TSP (MG/M3)	
Net_Mass	

APPENDIX C

EPA Region III RBCs
Assumptions and Equations

EPA REGION III RBC RISK ASSUMPTIONS AND EQUATIONS

The EPA Region III RBCs have been calculated for standard exposure scenarios to give chemical concentrations that correspond to fixed levels of risk (i.e., a hazard quotient of 1, or lifetime cancer risk of 10^{-6}, whichever occurs at the lower concentration) in tap water, ambient air, fish, industrial soil and residential soil. In other words, the Region III RBCs represent a concentration of chemicals below which little or no adverse health effects are observed even in most sensitive populations such as children and the elderly.

To calculate the RBCs, EPA Region III uses conservative assumptions for the numbers needed in the risk equations, to be protective of children and the elderly. The RBC risk equation and default parameters are included in Appendix B. In applying standard risk assessment methodologies to develop these screening concentrations EPA Region III makes the following assumptions:

Target Cancer Risk

For regulatory purposes EPA has established that the acceptable level of cancer risk due to a chemical is 1×10^{-6} or ("one times ten to the minus sixth"), which in scientific terms means "one-in-a-million". One-in-a-million is a probability based on data and many health protective assumptions that there may be one extra cancer case in a population of one million people over a lifetime of exposure to a chemical. It can be thought of as a maximum probability because worst case situations are assumed where science has no definite answers, just to be on the safe side of protecting public health. Because the cancer risk probability is a maximum probability it means that a cancer case may not occur at all, but if it does, there is at most a one-in-a-million likelihood for an extra cancer case above the expected 250,000 cancer cases that would normally occur in a population of one million.

Target Hazard Index

EPA has established for regulatory purposes that when the total hazard index for an exposed individual or group of individuals exceeds 1, there may be concern for potential non-cancer effects, such as respiratory illnesses. The hazard index is the sum of the hazard quotients for each chemical. The hazard quotient is the measure used to describe the potential for non-carcinogenic toxicity to occur in an individual. Unlike the cancer risk, the hazard index is not expressed as a probability of an individual suffering an adverse effect.

Averaging Time

The averaging time selected depends on whether cancer or non-cancer effects are being evaluated. For long-term exposure to non-cancer chemicals, the averaging time of exposure is the actual period of exposure, for example how long an individual lived at a place of exposure. For carcinogens the exposure is assumed to be 70 years, because the cancer causing exposure is considered over a lifetime.

Exposure Frequency

The assumed frequency of exposure for a residential setting is 350 days per year.

Exposure Duration

The exposure duration is how many years a person spends at a single residence. The risk assessment methodology assumes it to be 30 years for adults and 6 years for children. The RBC screening methodology uses an exposure duration of 30 years, 24 years as an adult and 6 years as a child. A 30-year exposure duration is a reasonable exposure assumption for the Japanese residents living off-base. However, in this report we considered various exposure durations of 30, 25, 20, 15, 10, 6 and 3 years.

Body Weight

The body weight used is the average body weight over the exposure duration. A constant body weight over the period of exposure is assumed to be 70 kg for adults and 15 kg for children (average body weight of a child during 6 years).

Other factors used in the risk equations are conversion factors such as the cancer slope factor (for carcinogens) and the reference concentration (for non-carcinogens). These factors are derived for each chemical based on animal studies and used to extrapolate toxicity results from animals to humans. Because they are based on animal studies there are a few layers of safety built into these factors.

EPA Region III has calculated the RBCs for ambient air using the following equations based on combined childhood and adult exposure (for carcinogens) and on adult exposure (for non-carcinogens):

Carcinogens

$$RBC\ ug/m^3 = (TR*ATc*1000ug/mg)/(EFr*IFAadj*CPSi)$$

Non-Carcinogens

$$RBC\ ug/m^3 = (THQ*RfDi*BWa*ATn*1000ug/mg)/(EFr*EDtot*IRAa)$$

Age-adjusted factors

$$IFAadj\ m^3.y/kg.d = (Edc*IRAc/BWc) + [(Edtot-Edc)*IRAa/BWa]$$

The exposure assumptions used on these equations are:

TR = Target Cancer Risk = 10^{-6}
ATc = Averaging time, carcinogens = 25550 days
ATn = Averaging time, non-carcinogens = ED*365 days
EDtot = Exposure duration = 30 years (adult)
Edc = Exposure duration, age 1-6 years = 6 years
EFr = Exposure frequency (days/year) = 350 days
IFAa = Inhalation factor, age adjusted (m^3/y/kg-d) = 11.66
CPSi = Carcinogenic potency slope inhalation (risk per mg/kg/d)(chemical specific)
THQ = Target hazard quotient = 1
RfDi = Reference dose inhaled (mg/kg/d)
BWa = Body weight, adult = 70 kg
BWc = Body weight, children 1-6 years = 15 kg
IRAa = Inhalation, adult = 20 (m^3/d)
IRAc = Inhalation, child = 12 (m^3/d)

APPENDIX D

National Academy of Sciences, Committee on Toxicology Peer Review Comments on Draft Technical Memorandum Screening Level Air Human Health Risk Assessment, NAF Atsugi, Japan and NEHC Responses to the Peer Reviewers

ANSWERS TO PEER REVIEWERS OF THE
DRAFT TECHNICAL MEMORANDUM
SCREENING LEVEL AIR HUMAN HEALTH RISK ASSESSMENT
NAF ATSUGI, JAPAN

REVIEWER: Committee on Toxicology
Board on Environmental Studies and Toxicology
Commission on Life Sciences
National Research Council

DATE: June 1998

As a preamble to answers to the comments from the National Research Council Committee on Toxicology (COT), the Navy Environmental Health Center (NEHC) would like to describe the thought process that set the stage for the Draft Technical Memorandum, Screening Level Air Human Health Risk Assessment, NAF Atsugi, Japan. The purpose of this screening Health Risk Assessment (HRA) was to provide an additional estimate of the potential human health risks to individuals living and working on Naval Air Facility (NAF) Atsugi, Japan resulting from poor air quality. NEHC did not design the sampling scheme but used data collected for compliance purposes during a short period of time (July 27 to September 11, 1997). NEHC used data that was collected by a Navy contractor for compliance purposes, to be used for negotiations with the Japanese Government in an attempt to stop the Jinkanpo Incinerator's air permit renewal and increase in burning capacity. The Navy was interested in knowing if the health risk from the new compliance data was similar to the health risk from the previous data and therefore, further support the recommendation to conduct a full health risk assessment. In other words, the compliance data used was not designed for HRA purposes; however, it was used for a screening HRA to support the need for a full HRA. The data used was the only new data available since the screening HRA was conducted in 1995. The HRA focused only on inhalation of vapors and particulates and did not take into account other routes of exposure (e.g., via soil pathways). New data is now being collected for a comprehensive risk assessment for which sampling was initiated in March of 1998.

Due to limitations on time, resources, lack of specific information and available data, NEHC was compelled to use the data collected for compliance purposes and conduct a conservative risk assessment. In the absence of peer reviewed toxicity values, the only available tools available to NEHC were calculated health comparison and provisional values. NEHC recognizes that the health risk may have been overestimated. However, since information on other pathways of exposure, such as soil and drinking water and on synergistic, antagonistic, etc. effects of multiple chemicals are not yet known, the total risk could actually be underestimated. Therefore, NEHC chose to err on the side of caution to ensure that health is protected, which is standard practice for screening HRAs.

NEHC greatly respects and appreciates the COT's review comments and recommendations. NEHC is pleased that, notwithstanding the limitations and uncertainties of the screening HRA,

the COT agrees with NEHC's conclusions and recommendations. NEHC has incorporated the COT's editorial comments and other comments regarding clarification in this final Technical Memorandum, Screening Level Air Human Health Risk Assessment, NAF Atsugi, Japan. Incorporation of the COT's non-editorial comments and recommendations requiring work beyond the scope of this screening risk assessment will be incorporated more beneficially in the development of the comprehensive health risk assessment initiated in March 1998. In the text that follows, NEHC addresses all the COT's comments and recommendations.

1. COMMENT: Page 2, first bullet

The air sampling data indicate that concentrations of particulate matter less than 10 micrometers in aerodynamic diameter (PM_{10}) were above levels known to cause adverse health effects. However, NEHC's estimates of noncarcinogenic risk could not be verified, because the values used by NEHC to determine hazard indices were inappropriately converted from reference concentrations (RfCs) or National Ambient Air Quality Standards (NAAQS) to reference doses (RfDs).

ANSWER: For the purposes of this screening level risk assessment, the reference dose used to evaluate noncarcinogenic hazard indices for PM_{10} was converted from the NAAQS, using the standard RfC to RfD dose conversion methodology, as identified in the Health Effects Assessment Summary Tables (HEAST)) 1997. The 1997 HEAST states that "The chairs of the RfD/RfC and CRAVE Work Groups were consulted regarding Superfund's need to make the conversion from a concentration in air to dose. There was agreement that, in many cases, converting the air concentration data to a dose (in mg/kg-day) may not add significant uncertainty to the Superfund risk assessment process, and therefore may be a reasonable use of the data given appropriate circumstances and Superfund program objectives." This explanation was added to section 5.1 of the report.

2. COMMENT: Page 2, second bullet, first sub-bullet

NEHC quality-assurance and quality-control (QA-QC) measures were inadequate to provide accurate measurements of pollutant concentrations.

ANSWER: NEHC readily pointed out QA/QC concerns in section 2.0; Table 6-1 and section 7.1 of the NEHC Draft Technical Memorandum Screening Level Air Human Health Risk Assessment. Further response to this comment is addressed in the preamble section of the NEHC response to the COT. Text explaining the reason for using this data has been added to section 1.1 of the report.

3. COMMENT: Page 2, second bullet, second sub-bullet

NEHC made an unsupported assumption that its selected background site (location 1) was substantially affected by point-source and fugitive emissions from incinerator complex. No explanation or data were provided in the NEHC report to indicate why that location was believed to be substantially affected by incinerator emissions. The meteorological data seem to

indicate that location 1 might give a reasonable estimate of background concentrations of pollutants, at least as measured by PM_{10}; these data indicate that the background concentration of PM_{10} at Atsugi is high.

ANSWER: As indicated in Figure 5-10, NEHC agrees that the current data cannot pinpoint the incinerator complex as the source of pollutants affecting the background site. With the current data, background concentrations can't be determined. On 8/1/97, at site 5 (highest impacted site), where the wind was blowing 100% of the time towards the monitor, the PM_{10} concentration was about 0.15 mg/m3. At site 1 (background), where the wind was blowing toward the monitor 0% of the time, the PM_{10} concentration was 0.25 mg/m3.

4. COMMENT: Page 2, second bullet, third sub-bullet

Incinerator operations were reportedly modified at times during the sampling periods, as the operators of the incinerator became aware of the air monitoring. Such modifications of normal operating procedures largely invalidate the measurement data and make them unusable for characterizing the incinerator as a source of measured pollutants.

ANSWER: NEHC agrees that this data is unusable to determine the normal incremental increase in pollution levels that are due to the Jinkanpo incinerator. NEHC recognizes that the modification of the normal operating conditions will have an impact on the level of various chemical concentrations that can be expected to be observed on-base and more than likely could result in an underestimation of health risk. Given the various types of materials that may be incinerated and operational conditions of the incinerator, exposures even under normal operating conditions can vary from day to day. The sampling being conducted for the comprehensive health risk assessment will be over a one-year period. Sampling for this length of time may reduce the uncertainties encountered during the 1998 screening health risk assessment.

5. COMMENT: Page 2, third bullet

The NEHC data are insufficient to determine that the Jinkanpo incineration complex was the major source of pollution contributing to the observed concentrations of airborne contaminants during the air-sampling period. Such a determination would require better characterization of background concentrations.

ANSWER: NEHC agrees. Background concentrations will be better characterized during the comprehensive health risk assessment, when sampling results are compared for on and off conditions.

6. COMMENT: Page 2, fourth bullet

Some risk values were not passed through an adequate review or verification process. The NEHC report states that risk values listed in the U.S. Environmental Protection Agency's (EPA) Integrated Risk Information System (MS) and Health Assessment Summary Tables (HEAST) have been peer reviewed (section 4. 1, p. 14)-, however, subsequent descriptions of the

databases indicate that some of the values listed in HEAST are "provisional" because they have not been verified by an agency work group.

ANSWER: In the absence of peer reviewed toxicity values, NEHC used provisional values as a conservative approach to calculate health risks in order to protect the health of sensitive populations at NAF Atsugi. This is standard practice for screening health risk assessments.

7. COMMENT: Page 2, fifth bullet

The NEHC report inappropriately added risks based on acute and chronic toxicity end points and for different target populations, including addition of the risk of acute mortality in a person with cardiopulmonary disease with the risk of chronic liver toxicity in a healthy adult.

ANSWER: NEHC recognizes that hazard quotients should only be added for chemicals with the same target organs. Segregation of hazard indices by effect and mechanism of action can be complex and time consuming. To be conservative in conducting the screening health risk assessment and to save time, NEHC added the hazard quotients for all chemicals at each site for comparison, to gain perspective of the non-carcinogenic risk at different sites in a screening risk assessment. This caveat has been added to the text in section 5.1.

8. COMMENT: Page 3, first paragraph and recommendations

COT recommends that source emissions testing of the incinerator stacks be conducted, if possible, in addition to air monitoring. Source emissions testing would provide more accurate data on the types and concentrations of pollutants being emitted by the incinerator.

ANSWER: Source emission testing of the incinerator stacks can not be performed, as the incinerator is privately owned by a Japanese national and the Navy has no access to the property.

However, if an air-monitoring study is the only viable testing method available to the Navy, careful design of the study is essential, and COT recommends the following:

1. The air-monitoring study should be designed not only to estimate exposure to the target population, but also to distinguish the impact of incinerator emissions from background air quality.

ANSWER: Sampling being conducted for the comprehensive risk assessment has been designed to distinguish the impact of the incinerator emissions from background air quality. Each monitoring site will have its own meteorological station for more accurate meteorological data and samples will be collected when the incinerator is on and when it is off.

2. Nearby sources of air pollutants, other than the incinerator complex, should be characterized and their contributions to total risk evaluated.

ANSWER: There are several small scale incinerators around NAF Atsugi, with much smaller burning capacity than the Jinkanpo incinerator. Only the overall contribution of all nearby sources can be determined, as the Navy has no access to sources of air pollutants on private property in Japan. This will be evaluated in the comprehensive risk assessment by conducting air sampling when the Jinkanpo incinerator is off.

3. Ground-level dispersion of pollutants from solid waste piles and liquid waste sources should be evaluated.

ANSWER: This will be evaluated through VOC sampling and air modeling during the comprehensive risk assessment.

4. Adequate QA-QC measures should be taken during air sampling and analysis to provide accurate measurements of pollutant concentrations.

ANSWER: A QA/QC plan for the sampling being conducted for the comprehensive risk assessment has been developed, which will include also equipment and performance audits.

5. More extensive meteorological data related to local atmospheric stability should be collected and used in dispersion modeling.

ANSWER: Each monitoring site has its own meteorological station for more accurate meteorological data for sampling being conducted for the comprehensive risk assessment.

6. Continuous or semicontinuous monitoring data should be collected to enhance ability to correlate meteorological data and emissions-dispersion estimates with ambient concentrations of pollutants.

ANSWER: Continuous monitoring is being conducted for criteria pollutants, VOCs and acid gases in the sampling for the comprehensive risk assessment.

7. Fine particulate matter less than 2.5 micrometers in aerodynamic diameter (i.e., PM2.5) should be monitored, as numerous studies in the last several years have implicated fine particles as a threat to human health. Ozone, nitrogen dioxide, carbon monoxide, and sulfur dioxide should also be monitored.

ANSWER: PM 2.5, ozone, nitrogen dioxide, carbon monoxide, and sulfur dioxide will be monitored for the comprehensive risk assessment.

9. COMMENT: Page 4, second and third paragraph

NEHC reported that appropriate background data were not available because the selected background location (location 1) was affected by point-source and fugitive emissions. However, no explanation or data were provided to indicate why this location was believed to be substantially affected by incinerator emissions in comparison with background conditions. The meteorological data presented in the 1998 NEHC report (section 5.5, p. 26) show that the wind

was not blowing from the incinerators toward location I when samples were collected. Therefore, location I would seem to provide a reasonable estimate of background air concentrations. The data collected at this site showed that pollutant concentrations were high, indicating that the incinerator complex may not have been the main source of pollution during the sampling period.

Lack of background data will make it difficult to attribute contaminant concentrations measured at NAF Atsugi solely or predominantly to the incinerator complex. For example, concentrations of PM_{10} were found to be high at all sampling locations, and the maximum concentrations were close to average concentrations. That observation raises questions about the general background concentrations of particulates at NAF Atsugi.

ANSWER: Please refer to answer to comment #3.

10. COMMENT: Page 4, fourth paragraph

The 1995 NEHC report described the incinerator operator's practice of pouring of liquid waste over solid waste piles to be incinerated. Evaporation could constitute a significant source of exposure, especially if volatile wastes are involved. Consideration of this potentially significant air-pollution source is absent in the 1998 NEHC report. NEHC also failed to test air samples for ozone, nitrogen dioxide, carbon monoxide, and sulfur dioxide, as recommended by COT in 1995 (NRC 1995). COT recommends that those pollutants be included in future air-monitoring studies.

ANSWER: Although the 1998 screening risk assessment report did not mention this incinerator's practice, air sampling was conducted for VOCs and the results indicated the presence of chlorinated solvents and benzene in ambient air. Continuous monitoring for criteria pollutants such as ozone, nitrogen dioxide, carbon monoxide and sulfur dioxide is being conducted for the comprehensive risk assessment.

11. COMMENT: Page 4, fifth paragraph

In presenting the air-sampling data, the number of air samples and the specific times they were taken should be included. That type of information is provided only in the discussion on Risk Assessment Limitations (section 7. 1, pp, 37-3 8), it should have been discussed earlier in more detail in Data Evaluation, Reduction, and Screening (section 2.0, pp. 2, 8). For example, the sampling times for the maximum detected concentrations should be presented Table 2-1 (pp. 9-10) and the averaging times for the exposure point concentrations should be presented in Table 2-2 (p. 12). An explanation should be given for sampling some locations more often than others. For example, location 1, which is upwind of the plant, was measured on 27 days, and location 4, which is downwind and closest to the incinerator complex, was measured only on 8 days, and yet had the highest hazard indices. Clarification is also needed to explain why location I was sampled more often, on 27 days (section 7. 1, p. 37), than the stated 23 days of sampling.

ANSWER: A table showing the number of samples and the specific times when they were collected has been added to the report as Appendix B. Because of the high number of sites and chemicals detected at each site, adding sampling times for maximum detected concentrations to Table 2-1 would make the table very cumbersome to read. Table 2-1 was just intended to show the contaminants of concern that were carried through the screening risk assessment. The averaging times for the exposure point concentrations are presented on page 13, Table 3-2. The reason why location 1 was sampled more often was that not all sites were sampled at the same time. However, background was always sampled for each set of sites that was being sampled on a particular day. This clarification has been added to section 7.1 of the revised report.

12. COMMENT: Page 5, second paragraph

NEHC used U.S. EPA's Region III risk-based screening concentrations (RBSCs) for ambient air to identify which quantified chemicals in the air samples were of potential concern. If the maximum detected concentration of a pollutant was greater than EPA's Region III RBSC, the pollutant was considered in the NEHC risk assessment, but pollutants that did not have RBSCs also were evaluated. A total of 24 pollutants were considered, 17 of which exceeded EPA's Region III RBSCs and seven of which had no available RBSC. Because RBSCs were used as thresholds to determine whether a pollutant was considered in the NEHC risk assessment, COT suggests that NEHC provide a complete description of how the RBSCs were determined by EPA.

ANSWER: A complete description of how RBSCs were determined by EPA Region III was presented in the 1995 report. The same description has been added to the revised report as Appendix C.

13. COMMENT: Page 5, third paragraph

In the NEHC report's explanation of how the analytical data for pollutants were converted to a usable format for risk assessment (section 2. 1, p.8), it states "If a constituent was detected in a sample (e.g., 3 ug/m3) then one-half the sample quantitation limit (e.g., 1.5 ug/m3) was substituted as the concentration for all of the non-detected values in the calculations of exposure point concentrations. "For concentration data that are lognormally distributed, as these data appear to be, the square root of the limit of quantitation is the appropriate value to use. This approach should be used only when the limit of detection and the limit of quantitation have been determined. Using a single detection measurement as a limit of quantitation is not appropriate.

ANSWER: The limit of detection and limit of quantitation were determined for each chemical in each sample. For clarification purposes, the text has been modified, and a sentence has been added to the existing text. It now reads: "If a constituent was detected at least once in one sample at a site, then one-half of the sample quantitation limit for that constituent was substituted as the concentration for the non-detected values in the calculations of exposure point concentrations. If a constituent was not detected in any sample at a site, the chemical was assumed not to be present at that site."

14. COMMENT: Page 5, fourth paragraph

During the times of air sampling, the incinerator operations were reported to be modified from normal conditions because the operators of the incinerator became aware of the air monitoring. These modifications of normal operating procedures were unfortunate because they likely invalidate the measurement data and might make them unusable for quantifying the incinerator complex as a source of the measured pollutants. For example, the meteorological data show no correlation between wind direction and level of particulate matter (see later discussion).

ANSWER: Please refer to answer to comment # 4.

15. COMMENT: Page 5, fifth paragraph

Compared with the sampling of two locations in 1995, for screening purposes, these 1997 sampling data provide a more representative characterization of the pollutants to which naval personnel and their families are exposed. However, the sampling data are inadequate for risk assessment purposes.

ANSWER: NEHC agrees with the COT. The 1998 report as indicated by its title is still a screening risk assessment.

16. COMMENT: Page 6, second paragraph

For screening purposes, consideration of only the inhalation pathway is acceptable. However, the NEHC report does not provide an explanation for why it was necessary to calculate an oral daily intake for each pollutant in terms of mg/kg/d from inhalation values. As will be discussed below in the Noncarcinogenic Risk Assessment section, such estimates are not appropriate for evaluating inhalation exposures.

ANSWER: Toxicity values, for both non-carcinogenic and carcinogenic effects, which are used to calculate the non-cancer and cancer risks, are generally calculated from critical effect levels based on administered doses, representing a daily intake. Therefore, it is important to compare such toxicity values to exposure estimates expressed as intakes (corresponding to administered doses).

17. COMMENT: Page 6, third paragraph

In general, the procedure used by NEHC to estimate pollutant-intake values overestimates exposure because it assumes that particles are deposited equally in the respiratory tract, when in fact different particle sizes are retained to different degrees. Additionally, the NEHC characterization of exposure is probably not representative of annual exposure because the air-sampling data were collected only during 6 weeks of the year when the wind blows from

the incineration complex toward NAF Atsugi. COT believes it will be important to include indirect exposure pathways, such as resuspension of particles and ingestion (particularly important for small children that might ingest contaminated soil particles), in future comprehensive risk assessments.

ANSWER: NEHC used the approach recommended by EPA in the Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part A), Interim Final, December 1989, EPA/540/1-89/002 on page 7-8. Although the health effect observed may be influenced by the pattern of deposition, the risk may be also be underestimated due to potential multiple health effects. Annual exposure will be determined in the comprehensive risk assessment in progress, which includes soil as a potential exposure pathway.

18. COMMENT: Page 6, fourth paragraph

NEHC (1998) considered unacceptable any carcinogenic risks greater than the EPA benchmarks of 1 x 10^{-6} for residential scenarios and I x 10^{-4} for industrial scenarios.

ANSWER: For clarification purposes, NEHC quotes an EPA statement indicating that the 10^{-6} risk level shall be used as point of departure for determining remediation goals for alternatives when applicable or relevant and appropriate requirements (ARARs) [technical standards under the Resource Conservation and Recovery Act] are not available or are not sufficiently protective because of the presence of multiple contaminants or multiple pathways of exposure. EPA also states that "For known or suspected carcinogens, acceptable exposure levels are generally concentration levels that represent an excess upper bound lifetime cancer risk to an individual of between 10^{-4} and 10^{-6} using information on the relationship between dose and response." The carcinogenic risks for every exposure scenario as indicated in the 1998 report was greater than the 10^{-6} point of departure and above the acceptable exposure levels (10^{-4} - 10^{-6}) for some sites, especially location 9, the Child Development Center.

19. COMMENT: Page 6, fifth paragraph

The method of summing individual upper-limit risks to determine an overall carcinogenic risk of a mixture overestimates the carcinogenic risk because not all components of a mixture are likely to be present at their upper limits. A simple procedure for estimating an upper-limit risk for a mixture involves taking the square root of the sum of the squares of all the individual risks (Gaylor and Chen 1995).

ANSWER: As indicated on Table 5-1, NEHC estimated not only the upper bound, but also the average risk. Although the upper bound risk may have been overestimated, the risk increases only by a factor of 2, which is not significant enough to require special statistical manipulations. According to Gaylor and Chen, their statistical method can only be applied in the absence of synergism. Since it is unknown whether or not synergism among chemicals from the incinerator plume or other sources exists, this method may not be applicable to this case.

20. COMMENT: Page 7, second paragraph

Carcinogenic risk estimates generally are based on daily dose averaged over a lifetime. Because no person is exposed to the maximum air concentrations throughout his or her lifetime, carcinogenic risk based on the average concentrations provides a better estimate. Air sampling was conducted only during 6 weeks of the year when wind directions were predominantly from the incinerator toward NAF Atsugi. The average exposure over a year might be quite different. The carcinogenic risk estimates based on the concentrations during this 6-week period might not be accurate because of seasonal variation.

ANSWER: As indicated on Table 5-1A the cancer, as well as non-cancer risks were also estimated based on average concentrations. NEHC agrees with the COT that risk estimates might not be accurate because of seasonal variations. Short term sampling and lack of meteorological data are addressed in the Uncertainty Analysis, Table 6-1, and the Risk Assessment Limitations of the 1998 report.

21. COMMENT: Page 7, third paragraph

COT suggests that calculations of upper limits of carcinogenic risk be based on upper confidence limits of average exposures. Such estimates of carcinogenic risk should be calculated for each pollutant at each location on the basis of the duration of exposure for typical work, school, and residential scenarios. Then, an approximate overall upper limit of carcinogenic risk is calculated from the square root of the sum of squares of all the upper limits of individual risks (Gaylor and Chen 1995).

ANSWER: Since the Navy was just interested in comparing the health risk estimated with the new compliance data with the previous (1995) screening risk assessment, the estimates of carcinogenic risk were calculated for the same parameters and assumptions as in the 1995 report, i.e., residential for children and adults, and for 3, 6 and 30 years of exposure. In the comprehensive risk assessment, there will be 8 locations, including indoor and outdoor air, and scenarios that will include children, adults and adolescents in a residential scenario, and adults in an industrial scenario. The residential scenario for children and adolescents will consider exposure at school and at home. The risk for all these scenarios will be calculated for average and 95% of the arithmetic mean, for a total of 64 scenarios, for 3, 6 and 30 years of exposure. As NEHC has chosen to follow the Risk Assessment Guidance for Superfund, NEHC will perform the risk using conventional EPA statistics and methodology. As mentioned in the previous comment, the Gaylor and Chen is only applicable in the absence of synergism, which may exist among known or unknown chemicals found in the air.

22. COMMENT: Page 7, third paragraph

COT also suggests that the NEHC report indicate that the carcinogenic potential of dioxin has been reclassified by the International Agency for Research on Cancer (IARC) as a Group I carcinogen (IARC 1997) and that reducing the slope factor for dioxin in under consideration at EPA. Because dioxin was one of the greatest contributors to carcinogenic risk at NAF Atsugi, a reduction of its slope factor will increase the overall carcinogenic risk.

ANSWER: Despite the IARC upgrading of 2,3,7,8-TCDD from group 2A to 1 as a human carcinogen, according to Dr. James Cogliano from EPA, the reclassification pertains to the qualitative conclusion about TCDD's carcinogenicity, but does not in itself, change the quantitative toxicity values. He recommends continuing to use the current toxicity value until EPA's reassessment of TCDD is completed. Therefore, NEHC would like to defer this comment until then.

23. COMMENT: Page 7, fifth paragraph and page 8, first and second paragraph

COT does not find the method used by NEHC to evaluate noncarcinogenic risks to be a valid approach. Specifically, COT disagrees with NEHC's decision to express RfCs in terms of "inhalation RfDs." There is no such thing as an inhalation RfD. RfDs are derived for oral exposures, whereas RfCs are derived for inhalation exposures. The NEHC report does not provide an explanation for why RfCs were converted into mg/kg/d. If NEHC's intent was to convert the RfCs into equivalent oral doses, the necessary conversion would be much more complex than that used. If NEHC's intent was merely to express the RfC in terms of mg/kg/d, the conversion selected is also inappropriate as it implies that the RfC was established on a day-by-day basis rather than a lifetime exposure. COT concludes that NEHC's converted values are misleading and cannot be used to calculate hazard indices.

COT recommends that NEHC use the RfC values themselves as the basis for evaluating noncarcinogenic risks. EPA defines an RfC as "an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without appreciable risk of deleterious noncancer health effects during a lifetime" (EPA 1994). COT also recommends that NEHC replace its description of the RfD (section 4.3, pp. 15-16) with a discussion of the RfC.

ANSWER: Please refer to answers to comments #1 and #16, regarding conversion of RfCs into mg/kg/d. According to the Risk Assessment Guidance for Superfund, the methods EPA uses in the derivation of inhalation RfDs are similar in concept to those used for oral RfDs. The inhalation RfC is derived from the NOAEL by applying uncertainty factors similar to those used for oral RfDs. However, for the inhalation RfCs, EPA also considers the deposition, clearance mechanisms and the physicochemical properties of the inhaled agent in determining the effective dose delivered to the target organ.

24. COMMENT: Page 8, third paragraph

Although COT recommends that the discussion of the RfD be removed from the NEHC report, COT alerts NEHC to several inaccuracies in the definition and description of the RfD presented in the NEHC report (section 4.3, pp. 15-16). The NEHC report states that "RfDs are developed for short-term exposures (i.e., subchronic) when, in fact, RfDs are developed for lifetime exposure (i.e., 70 years). The correct EPA definition of an RfD is "an estimate (with uncertainty spanning perhaps an order of magnitude) of a daily exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime" (Barnes and Dourson 1988). The RfD is calculated by determining the most sensitive and significant no-observed-adverse-effect-level (NOAEL) or

lowest-observed-adverse-effect-level (LOAEL) for noncarcinogenic effects and dividing by a series of uncertainty and modifying factors. Five uncertainty factors and one modifying factor are used in the calculation of the RfD (Barnes and Dourson 1988; Dourson 1994). However, NEHC describes only three uncertainty factors and one modifying factor. Missing from the NEHC's description are the uncertainty factor for predicting chronic effects from subchronic studies and the uncertainty factor that represents the expected ratio of the LOAEL to the NOAEL when a LOAEL is used instead of an NOAEL.

ANSWER: NEHC's statement in section 4.3 refers to the types of RfDs, according to the Risk Assessment Guidance for Superfund. The complete sentence reads: "RfDs are developed for short term exposures (i.e. subchronic), chronic exposures, and for exposures to constituents that are considered developmentally toxic (i.e., capable of producing birth defects)." Various types of RfDs are available depending on the exposure route (inhalation or oral), the critical effect (developmental or other), and the length of exposure being evaluated [chronic (7 years to a lifetime), subchronic (less than 7 years) or single event]. The definition the COT refers to in Barnes and Dourson 1988 and Dourson 1994, is actually the definition of a chronic RfD stated in the Risk Assessment Guidance for Superfund. Regarding the uncertainty factors, NEHC intended only to mention that uncertainty factors are applied to the NOAEL or LOAEL for the derivation of RfDs. For the description of these uncertainty factors NEHC provided the Risk Assessment Guidance for Superfund as reference.

25. COMMENT: Page 8, fourth paragraph

Neither carcinogenic nor noncarcinogenic toxicity values were available for nine pollutants in the two EPA databases searched by NEHC, so qualitative assessments of toxicity were conducted by using EPA Region III toxicity values to calculate their carcinogenic and noncarcinogenic risks. None of the data, except those for chromium, PM_{10} and lead, was provided in the NEHC report. Therefore, COT was unable to verify NEHC's conclusion that "risks for [these] chemicals, except for chromium do not add a significant contribution to the risk."

ANSWER: As stated in the text in section 5.4, carcinogenic and non-carcinogenic risks were calculated applying toxicity values used by EPA Region III to gain some perspective on the magnitude of the risk. The health risk for the remaining chemicals was calculated using provisional values from the National Center for Environmental Assessment. Text will be included in this section regarding the risk for the remaining chemicals. 1,4-Dichlorobenzene and octafluorotoluene were deleted from the Chemicals of Concern list. These chemicals are QA/QC chemicals that were unintentionally included, but not found in ambient air samples collected.

26. COMMENT: Page 8, fifth paragraph

Two species of chromium - trivalent (Cr III) and hexavalent (Cr VI) - were sampled and analyzed. Cr VI is an EPA class A carcinogen, and Cr III is not. Concentrations of Cr VI exceeded the detection limit in only one sample, so risks for Cr VI were not calculated. The 1998 NEHC report states, "In the presence of oxidizable organic matter, Cr VI is quickly reduced to

Cr III" (section 5.4, p. 26). COT does not agree with that statement, because Cr VI will likely be contained in aerosols, probably in the solid phase. The contact at the molecular level between oxidizable organic compounds in the air and Cr VI inside solid particles seems likely to be insignificant in the travel time between emission from the incinerator plant and exposure at NAF Atsugi. If relevant studies support the NEHC statement, a reference to those studies should be provided.

ANSWER: Hexavalent chromium is very unstable and the likelihood that it is still hexavalent after leaving the incinerators stack is very slim. Chromium studies by the Army Environmental Hygiene Agency, now named the Army Center for Health Promotion and Preventive Medicine (CHPPM), appears to support the fact the predominant species of chromium in air as trivalent chromium. As stated in Barnhart, R.J. 1997, Chromium Chemistry and Implications for Environmental Fate and Toxicity, Journal of Soil Contamination, 6(6):561-568, "(1) The dominant naturally occurring form of chromium is the trivalent oxide. (2) Other forms will tend to be converted to the trivalent oxide when in contact with the natural environment. (3) Even when put in environments where it is not thermodynamically stable, trivalent chromium oxide is very slow to react." Due to its high tendency to be converted to trivalent chromium the sample holding time for hexavalent chromium is only 24 hours. The detection limits for hexavalent chromium is higher than the EPA Region III RBSC and therefore calculations using non-detect concentrations would already indicate a risk higher than 10^{-6}.

27. COMMENT: Page 9, third paragraph

COT disagrees with NEHC's approach for evaluating PM_{10}. There are two NAAQS values for PM_{10} an annual average (50 ug/m^3) and a 24-hour average (150 ug/m^3) (EPA 1998a). NEHC's conversion of the annual average to mg/kg/d is not valid. The NAAQS annual average for PM_{10} already accounts for body weight and expressing the value in terms of "per day" compounds the problem, especially since the NAAQS risk assessment process already differentiates between daily and annual exposure. The conversion used by NEHC is incorrect and obviates the scientific basis of the NAAQS. COT suggests that a better approach for qualitatively evaluating PM_{10} is to identify how many days during the sampling period the NAAQS 24-hour average (150 ug/m^3) was exceeded. The NAAQS annual mean for PM_{10} can be used in future assessments when year-round monitoring data are available. COT also suggests that the statement "Particles larger than 10 microns are not respirable (i.e., they are too large to reach the lung)" (Table 4-1, p. 17 and section 5.4, p.26) be removed from the NEHC report because this is not a true statement.

ANSWER: The NAAQS for PM10 are derived from epidemiological studies based on data from ambient monitoring sites. As shown in Table 5-4 PM10 concentrations were established to describe the general health effects observed in the exposed populations and do not take into consideration body weight. Please refer to answer to comment # 1 regarding conversion to mg/kg/day. For screening purposes and in the absence of an annual mean, determining the non-cancer risk for PM_{10}, allows a comparison with other non-carcinogenic chemicals of concern. It also gives an idea of how much higher the ambient air concentrations are in relation to the concentration where moderate health effects are observed (50 ug/m^3).

As quoted in the NIOSH, the Industrial Environment – its Evaluation and Control "less than 0.002 percent of particles reaching the lungs will be larger than 10 microns in diameter." "For nasal breathing it has been shown that particles larger than 10 microns in diameter are almost completely removed and few if any, reach the conducting tubes of the lung per se."

28. COMMENT: Page 9, fourth paragraph

COT notes that the only pollutants considered qualitatively in the NEHC report were those that had neither carcinogenic nor noncarcinogenic toxicity values. However, there was only one pollutant (acetaldehyde) for which both types of toxicity values were available. COT believes that qualitative assessments should be conducted for all of the other pollutants considered in the risk assessment. For example, dioxin was considered only in the carcinogenic risk assessment even though noncarcinogenic effects have been associated with this pollutant. The NEHC's Qualitative Assessment of Chemicals Without Toxicity Values (section 5.4, p. 26) should identify those noncarcinogenic effects, including recent findings of effects on the endocrine and immune system of laboratory animals. In addition, the carcinogenic classification by IARC (1997) could be identified for pollutants that were not considered in the carcinogenic risk estimates. The classification would indicate whether carcinogenic risks are underestimated by not considering those pollutants in the risk evaluation.

ANSWER: Qualitative risk assessments are normally reserved for chemicals with no IRIS or HEAST toxicity values. If both cancer slope factors and reference doses are available the cancer and non-cancer risks are calculated, as it was calculated for acetaldehyde and indicated in Appendix A on the risk reports. Discussions on the non-cancer health effects of the chemicals of concern, as well as carcinogenic classification will be included in the comprehensive risk assessment.

29. COMMENT: Page 10

COT agrees with NEHC's conclusion that the meteorological data show "... very little correlation between wind direction and concentrations of COCs [constituents of concern) in ambient air" (section 5.5.2, p. 33). However, COT disagrees with the NEHC statement that "Locations 7 and 8 had fairly high positive correlations between wind direction and PM10 concentrations." Figure 5-10 (p. 34) does not justify that statement. What is needed is a measurement of particle sizes and particle-size-related composition; such a measurement would give a better idea about the origin and sources of the airborne pollutants. As it stands now, Figure 5-10 (p. 34) clearly shows a high background concentration of PM10 at location 1(upwind site) independent of the wind direction. Location 4 does not show a correlation with wind direction; yet, it was the site with the highest pollutant concentrations. Likewise, location 5, which, according to air-dispersion models, is the site of "highest impact," does not show good correlation between wind direction and PM10 concentrations, although it was the site sampled for the second highest number of days (18 days). Thus, it could be argued that these data show that the incinerator did not significantly contribute to concentrations of PM10 at NAF Atsugi and that other sources were responsible for the observed pollution.

ANSWER: Table 5-5 indicates that the correlation for site 7 was 0.82 and for site 8 was 0.75. In comparison with the other sites with correlation coefficients ranging from -0.36 (site 4) to 0.57 (site 9), sites 7 and 8 had fairly high positive correlations. NEHC agrees that the current data cannot pinpoint the incinerator complex as the source of pollutants affecting the background site. NEHC also agrees that measurement of particle size and particle-size-related composition or microscopical examination of the particles would be good tools to provide information on the origin of the airborne pollutants. However, since this was a screening risk assessment, the objective of section 5.5.2 (Correlation of Wind Direction and Concentration of COCs in Ambient Air) was to evaluate the impact of meteorology on constituent concentration in ambient air and consequently the risk to exposed individuals, not to determine the source of pollutants. Please refer to answer to comment #3.

The argument presented above is based on the assumption that valid correlations can be drawn from the meteorological data presented. However, the committee believes that the correlation data presented are not valid for several reasons:

1. The full impact of meteorological variation on receptor exposure to the plume is not represented solely by wind direction.

2. The sampling results are not representative of normal exposures to the incinerator emissions because incinerator operations were altered during the sampling period.

3. The 24-hour samples probably represent a mixture of wind directions.

Although some of those reasons were identified in the report as Other Factors that May Affect Ambient Concentrations (section 5.5.3, p. 33-34), the data presented in Figure 5-10 (p. 34) and Table 5-5 (p. 35) give the impression that valid correlations can be drawn from the data. In addition, explanations for uncertainty about the data are unclear. For example, Table 6-1 (p. 36- 37) states "Insufficient meteorological data resulted in lack of correlation between wind direction toward sampling site and concentration of chemicals." That statement implies that poor correlation resulted from lack of data, when, in fact, the correlation analysis is not valid because of the reasons described above. The lack of correlations could be due, in part, to multiple sources of air pollutants at different directions from NAF Atsugi. The table also states in the "Actions and Results" column Insufficient meteorological data resulted in lack of correlation between wind direction toward sampling site and concentration of chemicals." Such statements present a confusing picture and are not in agreement with the conclusion regarding correlation.

ANSWER: As the COT acknowledges, the above reasons 1 and 2 were identified in section 5.5.3 in bullet 4 (reason 1) and bullets 1 and 2 (reason 2). The COT's statement that "The lack of correlations could be due, in part, to multiple sources of air pollutants at different directions from NAF Atsugi" is also recognized on bullet 3 of the NEHC 1998 report. In addition, the COT is absolutely correct on reason 3. As discussed in section 7.1 (Risk Assessment Limitations) meteorological information was limited to collection by a single station, the NAF meteorological station located near site 1, south of the base and away from the other

sampling sites. This was the reason for stating that "Insufficient meteorological data resulted in lack of correlation between wind direction toward sampling site and concentration of chemicals." and "Insufficient meteorological data resulted in lack of correlation between wind direction toward sampling site and concentration of chemicals." NEHC believes that correlation between wind direction and concentrations are possible if wind directions are collected at each site. Individual meteorological stations are now available at the monitoring sites for the comprehensive risk assessment.

Another approach that might be useful for getting a rough estimate of the contribution of incinerator emissions to ambient air, relative to background, would be to compare results from location I (upwind site) with those from downwind locations on days when the wind direction is out of the south-southwest and relatively constant. Additionally, a description of other potential air-pollution sources in the vicinity of NAF Atsugi should be identified.

ANSWER: The availability of meteorological stations at each monitoring site will facilitate this comparison. Other potential air-pollution sources are numerous, widespread and difficult to characterize. Therefore, NEHC has chosen to determine just the Jinkanpo's contribution, which will be obtained through comparison of air monitoring data collected on days when the Jinkanpo incinerator is on and when it is off.

30. COMMENT: Page 11, third paragraph

The air sampling data indicate that PM_{10} concentrations at NAF Atsugi are above levels known to cause adverse health effects. However, NEHC's noncarcinogenic risk estimates could not be verified by COT, because the values used to calculate the hazard indices were inappropriately converted from RfCs to RfDs.

ANSWER: Please refer to answer to comment #1.

31 COMMENT: Page 11, fifth paragraph

An implicit conclusion of the 1998 NEHC report is that the Jinkanpo incineration complex is the major source of the measured pollutants at NAF Atsugi. However, as discussed earlier, the background concentration of pollutants appears to be high, which suggests that sources other than the incineration complex are also contributing to the air pollution at Atsugi.

ANSWER: As indicated in the preamble to the answers to the COT, the intent of the data collection was to provide evidence that the incinerator was the source of poor quality at NAF Atsugi. NEHC agrees that sources other than the incineration complex are also contributing to the air pollution at Atsugi. An objective of the full risk assessment is to determine the contribution of air pollutants from the incinerator.

32. COMMENT: Page 12, first paragraph and bullets.

COT does not believe that the uncertainty analysis presented in the NEHC report adequately addresses the full range of uncertainties involved in the risk assessment. COT suggests that NEHC reiterate in section 6.0 (p. 36) that the NEHC report is a screening level assessment to determine the need for further study, and, therefore, more conservative assumptions were used and a larger range of uncertainties were assumed. COT recommends that the following uncertainties also be considered:

ANSWER: NEHC agrees with the COT recommendation. The following sentence has been added as the first sentence on section 6.0: "This report is a screening level assessment to determine the need for further study, and, therefore, more conservative assumptions were used and a larger range of uncertainties were assumed."

1. The validity of the hazard indices used to evaluate noncarcinogenic risks is questionable. The conversion of RfC and annual average NAAQS values into RfDs is not appropriate for calculating hazard indices for inhaled pollutants. Furthermore, NEHC used RfC values based on chronic exposure to evaluate short- term exposure scenarios.

ANSWER: Please refer to answer to comment #1 regarding PM_{10}, and answer to comment 24 regarding the RfCs.

2. The uncertainty of using some risk values that did not pass through an adequate review or verification process. The NEHC report states that risk values listed in EPA's IRIS and HEAST databases have been peer reviewed (section 4. 1, p. 14), however, subsequent descriptions of the databases indicate that some of the values listed in HEAST are "provisional" because they have not been verified by an agency work group. Statements that the risk values used in the risk assessment are EPA approved values (Table 6-1, Toxicity Assessment, p. 37) should be removed from the NEHC report.

ANSWER: Please refer to answer to comment # 6.

3. The uncertainty involved with adding together risks based on acute and chronic toxicity end points and for different target populations, including the difficulty adding together the risk of acute mortality in a person with cardiopulmonary disease with the risk of chronic liver toxicity in a healthy adult.

ANSWER: Please refer to answer to comment #7.

33. COMMENT: Page 12, first full paragraph and bullets.

COT also found serious limitations in the methods used by NEHC to collect and analyze the air samples. These include:

1. QA-QC measures were inadequate to provide accurate measurements of pollutant concentrations.

ANSWER: NEHC acknowledges that in section 2.0.

2. NEHC made an unsupported assumption that its selected background site (location 1) was substantially affected by point-source and fugitive emissions from the incinerator complex. No explanation or data were provided in the NEHC report to indicate why that location was believed to be substantially affected by incinerator emissions. The meteorological data seem to indicate that location 1 might give a reasonable estimate of background concentrations of pollutants, at least as measured by PM_{10}; these data indicate that the background concentration of PM_{10} at Atsugi is high.

ANSWER: Please refer to answer to comment #3.

3. Incinerator operations were reportedly modified at times during the sampling periods as the operators of the incinerator became aware of the air monitoring. Such modifications of normal operating procedures largely invalidate the measurement data and make them unusable for characterizing the incinerator as a source of measured pollutants.

ANSWER: Please refer to answer to comment #4

34. COMMENT: Page 13, second full paragraph.

A point of clarification should also be made with regard to the insufficient meteorological data. Table 6-1 of the report states that insufficient meteorological data resulted in a lack of correlation between wind direction and concentration of pollutants in the air. The statement implies that poor correlation resulted from lack of data, when, in fact, the correlation analysis is not valid for a variety of reasons (identified earlier under Impact of Wind Direction on Risk) that could also have affected ambient air concentrations.

ANSWER: Please refer to answer to comment # 29.

35. COMMENT: Page 13, third full paragraph.

On the basis of its evaluation of the 1998 NEHC report, COT makes the following recommendations:

The NEHC noncarcinogenic hazard indices and risk assessment should be revised to allow comparison of air pollutant concentrations to inhalation RfCs. It is inappropriate to convert RfCs and NAAQS values into RfDs for inhaled pollutants.

ANSWER: Please refer to comment #1.

The following uncertainties should also be considered in the NEHC risk assessment':

The validity of the hazard indices used by NEHC to evaluate noncarcinogenic risks is questionable. NEHC's conversion of RfC and annual average NAAQS values into RfDs is not

appropriate for calculating hazard indices for inhaled pollutants. Furthermore, NEHC inappropriately used RfC values based on chronic exposure to evaluate short-exposure scenarios.

ANSWER: Please refer to answer to comment #1.

Some risk values were not passed through an adequate review or verification process. The NEHC report states that risk values listed EPA's IRIS and HEAST databases have been peer reviewed (section 4. 1, p. 14), - however, subsequent descriptions of the databases indicate that some of the values listed in HEAST are "provisional" because they have not been verified by an agency work group.

ANSWER: Please refer to answer to comment #6. In addition NEHC acknowledges this in section 6.1.

The NEHC report inappropriately added risks based on acute and toxicity end points and for different target populations, including addition of the risk of acute mortality in a person with cardiopulmonary disease with the risk of chronic liver toxicity in a healthy adult.

ANSWER: Please refer to comment #7. In addition NEHC acknowledges this in section 6.1.

36. COMMENT: Page 15 and 16, first paragraph and bullets

On the basis of the data presented in the 1998 NEHC report, COT agrees that the recommendations listed above are justified. COT also agrees that some degree of risk of health effects might exist at NAF Atsugi. The following are COT's specific comments on recommendations and additional recommendations from COT:

NEHC Recommendation 2: A full-year air-monitoring study is warranted, based on screening results. COT recommends that source emissions testing of the incinerator stacks be conducted, if possible, in addition to air monitoring. Source emissions would provide more accurate data on the types and concentrations of pollutants emitted by the incinerator. However, if an air monitoring study is the only viable testing method available to the Navy, careful design of the study is essential. COT recommends that the following:

1. The air-monitoring study should be designed not only to estimate exposure to the target population, but also to distinguish the impact of incinerator emissions background air quality.

ANSWER: This air-monitoring study is currently being conducted for the comprehensive risk assessment.

2. Nearby sources of air pollutants, other than the incinerator complex, should be characterized, and their contributions to total risk evaluated.

ANSWER: Characterization of nearby sources is not possible, not only due to number of smaller scale incinerators in the surrounding area but also due to the lack of access to these sources. However, we may be able to determine their contribution by performing the air monitoring when the incinerator is off and evaluating the meteorological data with the concentrations measured at the receptor sites.

3. Ground-level dispersion of pollutants from solid waste piles and liquid sources should be evaluated.

ANSWER: To specifically evaluate ground-level dispersion of pollutants from solid waste piles and liquid sources is very difficult because we don't know what specific solvents are being poured over waste piles or the composition of the ash piles.

4. Adequate QA-QC measures should be taken during air sampling and analysis provide accurate measurements of pollutant concentrations.

ANSWER: A comprehensive QA/QC Plan, which includes equipment and performance audits, is being currently conducted for the comprehensive risk assessment.

5. More extensive meteorological data related to local atmospheric stability should be collected and used in dispersion modeling

ANSWER: Extensive meteorological data is also currently being collected by meteorological stations co-located with every air-monitoring site for the comprehensive risk assessment.

6. Continuous or semicontinuous monitoring data should be collected to enhance ability to correlate meteorological data and emissions-dispersion estimates with ambient concentrations of pollutants.

ANSWER: Continuous monitoring data for criteria pollutants and volatile organic compounds is being conducted for the comprehensive risk assessment.

7. $PM_{2.5}$ should be monitored, as numerous studies in the last several years have implicated fine particles as a threat to human health. Ozone, nitrogen carbon monoxide, and sulfur dioxide should also be monitored.

ANSWER: These pollutants are being monitored on a continuous basis at the criteria pollutants monitoring station located south of the base, and also at one receptor site for the comprehensive risk assessment.

NEHC Recommendation 3: Because dioxin analyses are expensive, deposition of dioxin in soil and oral exposure to contaminated soil or food products should be demonstrated before in-depth analyses of the food pathway are conducted. If the soil trend analyses do not show

significant dioxin concentrations or if local produce is not consumed in significant quantities, the food pathway is unlikely to be a significant source of exposure.

ANSWER: Dioxin deposition in soil trend analysis is also being performed for the comprehensive risk assessment. An exposure pathway analysis is also being developed.

NEHC Recommendation 4: In addition to soil sampling, NEHC should also consider sampling ground water and drinking water to determine potential exposure via pathways. As noted in COT's 1995 evaluation, "if the ground water is contaminated by VOCs [volatile organic compounds] and travels under occupied Navy buildings, VOCs could reach high levels in indoor air by diffusion through soil into basements, "(NRC 1995)."

ANSWER: An exposure pathways analysis report is being prepared to evaluate the need for sampling ground water and drinking water. Basements are not present at NAF Atsugi.

NEHC Recommendation 5: Most young children put their hands in their mouths frequently, even when pica behavior is not obvious, thereby ingesting quantities of soil that can significantly increase exposure to soil-borne contaminants. This source of exposure should be considered in the assessment of children's risk. If deposition of dioxin or other pollutants in soil is found to be significant, contaminated areas should be avoided or efforts should be made to clean-up the soil, in addition to educating daycare workers about preventive measures to reduce children's exposure to contaminated soil.

ANSWER: Extensive procedures by child care providers are being implemented to prevent children from coming in contact with soil as a result of NEHC's recommendation in the 1995 report. Soil samples have been collected and the children's potential exposure through the soil pathway will be considered in the comprehensive risk assessment.

NEHC Recommendation 9: No explanation was provided on how residents at NAF Atsugi would know when particulate concentrations were increased so that they curtail outdoor activities. Current real-time monitoring at the base would provide such information.

ANSWER: The current procedure relies on forecasting by the NAF Atsugi meteorological service to predict when winds will be blowing toward the base and visual observations of incinerator stack emissions.

ANSWERS TO EDITORIAL COMMENTS

1. COMMENT: Executive Summary, paragraph 1: *Noncarcinogenic risk levels appear to have been confused with hazard index. The statement that the 1995 risk assessment indicated that air quality at NAF Atsugi could raise the "non-cancer risk to levels higher than 1", should be changed to state "increase non-cancer hazard indices to greater than 1".*

ANSWER: The Executive Summary has been written for the general public at the 8th grade level. So in order to simplify the scientific information for the general public, we omitted hazard indices because this term is not immediately obvious to the average community.

2. COMMENT: Section 1.3. paragraph 1(p. 2): *Clarification of the following statement is needed "...emissions from the incinerator complex are carried parallel to the stack height downwind towards the base." This seems to imply downwash due to eddies on the downwind side of the stack. Also, base could mean NAF Atsugi or the base of the stack.*

ANSWER: This sentence has been changed to: "when the emissions leave the stack they are carried towards NAF Atsugi almost at ground level."

3. COMMENT: Section 2.4 (p. 9): *There is an error in the description of how exposure point concentration was calculated for the average exposed individual: "The maximum detected concentration was used if the arithmetic mean concentration exceeded the maximum detected concentration." It is not possible for the mean to exceed the maximum, this explanation should be corrected.*

ANSWER: Risk assessment methodology can use or omit non-detects in the calculations of exposure. NEHC has chosen to assign the value of ½ the sample quantitation limit (SQL) to the non-detect values when calculating the various exposure concentrations (e.g., arthmetic mean, 95%, etc..). Non-detects expressed as ½ SQLs sometimes can be higher than the maximum detected concentration due to matrix interferences. Since the arithmetic mean includes detected and non-detected concentrations, the arithmetic mean can, therefore, be higher than the maximum detected concentration. In this case, the maximum detected concentration is used to calculate the exposure concentration. To clarify this statement the following text has been added: "This criterion was used because in some samples the non-detect concentrations expressed as ½ SQLs were higher than the highest detected concentrations due to matrix interference. This was applied more frequently in particular to dioxin samples".

4. COMMENT: Section 3.0, paragraph 2 (p.11). *It is stated that this section describes the "current and future land uses." Aside from the site locations which are actually provided in section 2. 1, there are no descriptions of these.*

ANSWER: For clarification the text has been changed to: "Generally, this section is used to describe current and potential future land uses, potentially exposed populations, and possible exposure routes. However, because this is a screening level risk assessment, only exposures pathways associated with direct exposure to emissions from the Jinkanpo Incineration Complex were used to calculate risk."

5. COMMENT: Section 3.2 (p. 13). *It is not clear what is meant by "contact rate", which is listed as one of six factors used to estimate pollutant intake.*

ANSWER: As stated in the Risk Assessment Guidance for Superfund, EPA, 1989, the "contact rate" reflects the amount of contaminated medium contacted per unit of time or event. Sometimes several separate terms are used to derive an estimate of contact rate. For example, for

dermal contact with chemicals in water, contact rate is estimated by combining information on exposed skin surface area, dermal permeability of a chemical, and exposure time. For inhalation exposures, the contact rate is the inhalation rate.

6. COMMENT: Table 3-2 (p. 13): *In the equation for daily intake, the subscripts "a" and "c" (presumably for adult and child) have not been defined. The terms "At_c" and "At_{nc}." were defined but not used in the equations. Also, "At" could be confused with the "AT_c" in the equation for integrated inhalation dose.*

ANSWER: To avoid confusion At_c and At_{nc} have been re-labeled as AT (averaging time (for carcinogens and non-carcinogens, being specified separately) and A_c has been labeled as A. The definition for the subscripts "a" and "c" are described in footnote (d) which will be placed next to the legends Child Residential, Adult Residential and Adult Residential. Footnote (d) will read: "Child parameters are subscripted as "$_c$" and adult parameters are subscripted as "$_a$"."

7. COMMENT: Section 4.1 paragraph 4 (p. 14): *This paragraph is unnecessary.*

ANSWER: In general many chemicals do not have inhalation specific toxicity values. It is necessary to include this paragraph to reiterate that if an inhalation specific toxicity value was available for a particular constituent it was used in the risk calculations.

8. COMMENT: Section 5.0. paragraph 2 (p. 16): *The term "hazard index" is used, but is not defined until section 5.1. Also, it is stated that EPA has used 1 chance in I 0,000 as a benchmark for carcinogenic risk in industrial scenarios. Was OSHA intended here instead of EPA?*

ANSWER: Since this term represents the evaluation of non-carcinogenic effects NEHC found more appropriate to include its definition in this section for a clearer understanding. EPA criteria was the intended benchmark.

9. COMMENT: Section 5. 1. paragraph 1 (p. 16): *Reference dose is defined here, but was already defined in section 4.3.*

ANSWER: For better understanding by the reader, NEHC just wanted to reiterate how the RfD can be used to evaluate non-carcinogenic health effects.

10. COMMENT: Section 5.1, last sentence of paragraph 1 (p. 16): *This sentence does not make sense. It might be rewritten as follows: "Only the hazard quotients for chronic disease were evaluated, as the hazard quotients for subchronic effects within a given exposure scenario are typically less than or equal to the hazard quotients for chronic effects for the same scenario."*

ANSWER: For better clarification the text has been changed to: "Only the hazard quotients for chronic disease were evaluated, as the toxicity values for chronic effects within a given exposure scenario are typically more conservative than the toxicity values for subchronic effects for the same scenario."

11. COMMENT: Table 5-1A (p. 19): *For comparative purposes, it would be useful to provide footnotes explaining what "hazard index" and "cancer risk" mean and what levels are unacceptable.*

ANSWER: The acceptability criteria is explained in section 5.0, the hazard index in section 5.1 and the cancer risk in section 5.2.

12. COMMENT: Figures 5-1, 5-2, 5-3, and 5-4 (pp. 21-24): *Replace the black boxes below the x-axis with the location numbers where the measurements were performed.*

ANSWER: The black boxes have been replaced with the location numbers where the measurements were performed.

13. COMMENT: Section 5.4, paragraph 4 (p. 26): *Replace 91 mg/m^3 with 91 ug/m^3, on the next line, replace "hazardous" with "adverse".*

ANSWER: 91 mg/m3 has been corrected to ug/m3. "Hazardous" refers to the PM_{10} concentration level specified as Hazardous in the Health Effect Descriptor column on Table 5-4.

14. COMMENT: Section 5.5.2, paragraph 2 (p. 33): *The "lack of wind" should be stated differently if what is meant is that the wind seldom blew from the incinerator toward location 2.*

ANSWER: The text has been changed to "Location 2 had the lowest carcinogenic risks and this could be in part due to the low occurrence and low speed of winds blowing from the direction of the incinerator."

15. COMMENT: Section 5.5.3, "Other Meteorological Factors", (p.36): *The collision of cold and warm air masses (producing advective inversions or occluded fronts) is only one of several reasons for the formation of atmospheric temperature inversions. The other two distinct reasons for inversions are radiational cooling of the earth's surface at night, which cools the lower layers of the atmosphere, and the subsidence associated with high pressure systems.*

ANSWER: It is possible that inversions can be caused by radiational cooling of the earth's surface at night, which cools the lower layers of the atmosphere, and the subsidence associated with high pressure systems. These additional reasons for inversion complicate even more the sampling problems associated with meteorological factors. They reiterate the reasons for lack of correlation between meteorological conditions and concentrations of CoCs in ambient air. These additional reasons have been added to this paragraph.

16. COMMENT: Table 6-1 (pp. 36-37): *Insert "estimates" after "risk" in the footnotes, since it the risk estimate that is or is not conservative.*

ANSWER: The word estimate has been added after the word risk.

17. COMMENT: Section 7. 1, p. 37: *It is stated that air samples were collected on 23 different days and that location 1 was sampled on 27 days. If these numbers are correct, an explanation should be provided for why samples were taken more often at location 1. Also, sampling was described as being collected on different days from 7/27/97 through 9/l/97, which is different from that mentioned in section 1.1 (p. 1) of July 27 to September 11, 1997.*

ANSWER: The date has been corrected to 9/11/97. The explanation stated in the response to comment # 11 has been added to this section.