

Appendix A-1. Summary of Test Report Data (pre-1992 Landfills)

Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments
53	Altamont	California	1,2-Dichloroethane Benzene Carbon dioxide Carbon tetrachloride Chloroform Ethylene dibromide Methane Methyl chloroform Methylene chloride	Flare	Carbon dioxide Carbon monoxide NOx Oxygen THC TNMOC	Test date: 4/7/88. O ₂ determined by BAAQMD Method ST-14. CO ₂ determined by BAAQMD Method ST-5. NOx determined by BAAQMD Method ST-13A. THC and TNMOC determined by BAAQMD Method ST-7.
53 cont.	Altamont	California	Nitrogen Oxygen PCE TCA TCE			CO determined by BAAQMD Method ST-C.
54	Arbor Hills	Michigan	Vinyl chloride 1,1-Dichloroethane 1,2-Dichloroethane Benzene Carbon disulfide Carbon tetrachloride Carbonyl sulfide Chlorobenzene Chloroform Dimethyl disulfide Dimethyl sulfide Ethylbenzene Ethylene dibromide Hydrogen sulfide Methyl chloroform Methyl mercaptan Methylene chloride PCE TCE Toluene Vinyl chloride Vinylidene chloride Xylenes	Flare	1,1-Dichloroethane 1,2-Dichloroethane Benzene Carbon disulfide Carbon monoxide Carbon tetrachloride Carbonyl sulfide Chlorobenzene Chloroform Dimethyl disulfide Dimethyl sulfide Ethylbenzene Ethylene dibromide HCL Hydrogen sulfide Methyl chloroform Methyl mercaptan Methylene chloride NOx PCB PCE Quartz TCE TNMOC Toluene Vinyl chloride Vinylidene chloride Xylenes Zinc	
55	BFI Facility,	MA	1,1-Dichloroethane 1,2-Dichloroethane Benzene Benzyl chloride Carbon tetrachloride Chlorobenzene Chloroform Dichlorobenzene Dichloromethane Dimethyl sulfide Ethyl mercaptan Hydrogen sulfide Methyl chloroform Methyl mercaptan PCE TCE Toluene	Flare	1,1-Dichloroethane 1,2-Dichloroethane Benzene Benzyl chloride Carbon monoxide Carbon tetrachloride Chlorobenzene Chloroform Dichlorobenzene Dichloromethane Dimethyl sulfide Ethyl mercaptan HCl Hydrogen sulfide Methyl chloroform Methyl mercaptan NOx PCE TCE Toluene Vinyl chloride Vinylidene chloride Xylene	Test date: 7/15/90. NOx determined by EPA Method 7A.
55 cont.	BFI Facility,	MA	Vinyl chloride Vinylidene chloride Xylene			

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56	Coyote Canyon	California	1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethane Acetonitrile Benzene Benzyl chloride Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Dichlorobenzene Dichloromethane Dimethyl disulfide Dimethyl sulfide Ethyl mercaptan Hydrogen sulfide Methane Methyl chloroform Methyl mercaptan PCE Sulfur TCA TCE TGNMO Toluene Vinyl chloride Xylenes	Boiler/Flare	1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethane Acetonitrile Arsenic Benzene Benzyl chloride Beryllium Cadmium Carbon disulfide Carbon monoxide Carbon tetrachloride Chlorobenzene Chloroform Chromium Copper Dichlorobenzene Dichloromethane Dimethyl disulfide Dimethyl sulfide Ethyl mercaptan Formaldehyde HCl Hydrogen sulfide Manganese Mercury Methane Methyl chloroform Naphthalene Nickel Nitrogen NOx Oxygen PAH Particulate matter PCE Selenium Sulfur dioxide TCE TGNMO Toluene Total chromium Vinyl chloride Xylenes	Test date: 6/6 -14/91. Tested flare #1. Test results were evaluated separately for Low flow & High flow rate runs. NOx & CO were analyzed using CARB Method 100 (Chromium & GFC NDIR).
57	Durham Rd.	California	1,2-Dichloroethane Benzene Carbon dioxide Carbon tetrachloride Chloroform Ethylene dibromide Methane Methyl chloroform Methylene chloride Nitrogen Oxygen PCE TCE Vinyl chloride	Flare	1,2-Dichloroethane Benzene Carbon dioxide Carbon tetrachloride Chloroform Ethylene dibromide Methane Methyl chloroform Methylene chloride Nitrogen Oxygen PCE TCE Vinyl chloride	Test date: 9/1/88. O ₂ and CO ₂ determined by BAAQMD Method ST-24.
58	Otay	California	Benzene Carbon tetrachloride Chloroform Ethylene dibromide Ethylene dichloride Methyl chloroform Methylene chloride PCE TCE Vinyl chloride	Engine	Benzene Carbon tetrachloride Chloroform Ethylene dibromide Ethylene dichloride Methyl chloroform Methylene chloride PCE TCE Vinyl chloride	Test date: June 87.

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59	Rockingham	Vermont	1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,2-Dichloroethane Acetone Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene Chloroform Dichlorobenzene Ethyl benzene Methyl chloroform Methyl ethyl ketone Methylene chloride PCE Sulfur dioxide TCE Toluene Vinyl chloride Xylenes	Flare	1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,2-Dichloroethane Acetone Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene Chloroform Dichlorobenzene Ethyl benzene HCl HF Methyl chloroform Methyl ethyl ketone Methylene chloride NMO PCE Sulfur dioxide TCE TNMOC Toluene Vinyl chloride Xylenes	Test date: 8/9-10/90. SO ₂ determined by EPA Method 8.
60	Sunshine Canyon	California	2-Propanol benzene Butane Dimethyl sulfide Ethanol Ethyl benzene Ethyl mercaptan Hydrogen sulfide Methane Methyl mercaptan PCE Phenol Propyl mercaptan TCE Toluene Xylenes	Flare	2-Propanol Butane Carbon monoxide Dimethyl sulfide Ethanol Ethyl benzene Ethyl mercaptan HCl Hydrogen sulfide Methane Methyl mercaptan Nitrogen NOx Oxygen PCE Periculates Phenol Propyl mercaptan SOx TCE TNMOC Toluene Xylenes	Test date: 5/21-22/90. NOx & CO were analyzed using CARB Method 100.
61	Pinelands	New Jersey	Methane	Flare	Carbon dioxide Carbon monoxide Methane Oxygen THC TNMOC	Test date: 2/28/92. CO analyzed by EPA Method 10.
62	Greentree	Pennsylvania		Flare	TNMHC Methane NOx	Test date: 4/22-23/92. NOx determined by EPA Method. 7D. CH ₄ content estimated.
63	Kappaa Quarry	Hawaii		Gas Turbine	Carbon monoxide NOx Sulfur dioxide	Test date: 12/28/93. NOx & CO were analyzed by EPA Method 20 & 3.

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Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments
64	Johnston	Rhode Island	Argon Carbon Carbon dioxide Carbon monoxide Ethane Ethene Helium Heptane Hexane Hydrogen Hydrogen sulfide Isobutane Methane n-Pentane Nitrogen NOx Oxygen Propane Propylene TNMHC	IC Engine	Carbon monoxide NOx TNMHC	Test date: 6/4-66/91. Lean combustion. NOx & CO were analyzed by EPA Method 10 & 7E (Chemitlume & NDIR).
65	CID	Illinois		Gas Turbine	Carbon monoxide Oxygen	Test date: 8/8/89. EPA Method 101
66	CID	Illinois		Gas Turbine	NOx Oxygen Sulfur dioxide	Test date: 7/12-14/89. EPA Method 20.
67	BFI Facility, Chicopee	MA		IC Engine	Carbon monoxide NOx Oxygen Sulfur dioxide TNMHC	Test date: 12/14/93/ Lean combustion. NOx, SO ₂ & CO determined by EPA Method 7E, 6C and 10.
68	BFI Facility, Richmond	Virginia		IC Engine	Carbon dioxide NOx Oxygen	Test date: 4/22-23/92. NOx determined by EPA Method 7E. O ₂ and CO ₂ determined by EPA Method 3A. No engine description.
69	Arizona St.	California	1,2-Dibromoethane 1,2-Dichloroethane Benzene Carbon tetrachloride Chloroform Methyl chloroform Methylene chloride PCE TCE Vinyl chloride	Flare	1,2-Dibromoethane 1,2-Dichloroethane Benzene Carbon monoxide Carbon tetrachloride Chloroform Methyl chloroform Methylene chloride NOx Particulates PCE TCE TNMHC Vinyl chloride	Test date: 6/25-26/90. Methane content unknown. NOx and CO determined by SDAPCD Method 20.

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Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments
70	Puente Hills	California	TCA 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dibromoethane 1,2-Dichloroethane Acetonitrile Benzene Benzyl chloride Carbon disulfide Carbon tetrachloride Carbonyl sulfide Chlorobenzene Chloroform	Boilers	TCA 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dibromoethane 1,2-Dichloroethane Acetonitrile Benzene Benzyl chloride Carbon disulfide Carbon monoxide Carbon tetrachloride Carbonyl sulfide Chlorobenzene Chloroform	Test date: 9/29/93. NOx & CO were analyzed using SCAQMD Method 100.
70 cont.	Puente Hills	California	Dimethyl disulfide Dimethyl sulfide Ethyl mercaptan Hydrogen sulfide m-Dichlorobenzene m-Xylenes Methane Methyl mercaptan Methylene chloride o-p Xylene TCE PCE Toluene Vinyl chloride		Dimethyl disulfide Dimethyl sulfide Ethyl mercaptan Hydrogen sulfide m-Dichlorobenzene m-Xylenes Methane Methyl mercaptan Methylene chloride NMOC o+p Dichlorobenzene o+p Xylene Sulfur dioxide TOE PCE Toluene Vinyl chloride	
71	CID	Illinois		Turbine	Carbon Oxygen	Test date: 2/16/90. O ₂ and CO ₂ determined by EPA Method 3. TGNMO determined by EPA Method (modified) 25.
72	Tazewell	Illinois		Engine	TGNMO Carbon monoxide TGNMO NO ₂ Sulfur dioxide	Test date: 2/22-23/90. SO ₂ determined by EPA Method 6C. NOx determined by EPA Method 7E. CO determined by EPA Method 10A.

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Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments
73	Scottsville	New York		Engine	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloropropene 1,3-Dichloropropene 2-Chloroethyl vinyl ether Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane Carbon monoxide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane chloroform Chloromethane Dichlorodifluoromethane Ethane Ethylbenzene Fluorotrichloromethane Mercaptans Methyl ethyl ketone Methylene chloride n-Butane n-Hexane n-Pentane NO ₂ Particulates Propane Sulfur dioxide TCA Tetra chloroethane TGNMO TNMHC Toluene Trans -1,2-dichloroethene Trichloroethene Vinyl chloride Xylene	Test date: 5/2/90. Engine No. 2 was used. SO2 determined by EPA Method 6C. NOx determined by EPA Method 7E. CO determined by EPA Method 10A. O2 and CO2 determined by EPA Method 3A. Particulates determined by EPA Method 5. VOC was determined by EPA Methods 5040/8240.
73 cont.	Scottsville	New York				
74	Tripoli	New York		IC Engine	Carbon monoxide NOx Sulfur dioxide TNMHC	Test date: 4/3-5/89.
75	Oceanside	New York	Hydrogen sulfide	IC Engine	Carbon monoxide NOx Oxygen TNMHC TSP	Test date: 10/6-7/92. NOx & CO were analyzed by EPA Method 7E & 10.

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Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments
76	Dunbarton Rd.	New Hampshire	Carbon dioxide Carbon monoxide Hydrogen Methane Nitrogen Oxygen	IC Engine	Carbon dioxide Carbon monoxide Hydrogen Methane NOx	Test date: 6/5/90. NOx & O ₂ were analyzed by EPA Method 20. CO analyzed by EPA Method 10.
77	Palo Alto	California	1,1-Dichloroethane Acetone Benzene Bromomethane Carbon dioxide Carbon monoxide Ethyl benzene Methane Methylene chloride Nitrogen	Engine	Benzene Carbon dioxide Carbon monoxide Methane NOx Oxygen THC TNMOC VOC	Test date: 6/2/93. Engines No. 1 and 2 used. NOx, O ₂ , CO ₂ , CO, and THC were determined by CARB Method 1-100.
77 cont.	Palo Alto	California	Oxygen PCE TCE Toluene Xylenes			
78	Northeast	Rhode Island	Carbon dioxide Ethane Hexane Isobutane Isopentane Methane n-Butane Nitrogen Propane	Engine	Carbon dioxide Carbon monoxide Methane NOx Oxygen TNMHC	Test date: 5/25/94. Engine No. 5 used. O ₂ and CO ₂ analyzed by EPA Method 3A. NOx analyzed by EPA Method 7E. CO analyzed by EPA Method 10. TNMHC analyzed by EPA Method 18.
79	Johnston	Rhode Island	Argon Carbon Carbon dioxide Carbon monoxide Ethane Ethene Helium Heptane Hexane Hydrogen Hydrogen sulfide Isobutane Methane n-Pentane Nitrogen NOx Oxygen Propane Propylene TNMHC	Engine	Carbon dioxide Carbon monoxide Methane NOx Oxygen THC TNMHC	Test date: 10/9-16/90, and 11/6/90.
80	Bonsal	California		Flare	Carbon monoxide NOx Particulate matter Sulfur dioxide TNMHC TOG	Test date: 4/94. TNMHC determined by EPA Method 25.

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Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments
81	Hillsborough	California		Flare	Carbon monoxide NOx Particulate matter Sulfur dioxide TNMHC TOG	Test date: 1/94. TNMHC determined by EPA Method 25.
82	Arizona Street	California		Flare	1,2-dibromoethane 1,2-Dichloroethane Benzene Carbon monoxide Carbon tetrachloride Chloroform Methylene chloride NOx Particulates Sulfur dioxide TCA Tetrachloroethene TNMHC Trichloride Trichloroethene Vinyl chloride	Test date: 3/30-4/7/92. NOx and Carbon monoxide analyzed by SDAPCD Method 20.
83	San Marcos	California		Turbine	Carbon dioxide Carbon monoxide NOx Oxygen	Test date: 3/30/93. Engine No. 1 used. SDAPCD Methods 3A and 20.
84	Olaz	California	Benzene Dichloromethane Hydrogen chloride Methylene chloride Sulphur Vinyl chloride	Engine	Benzene Carbon dioxide Carbon monoxide Carbon tetrachloride Chloroform Dichloromethane EDB EDC Formaldehyde HCl Hydrogen chloride Methyl chloroform Methylene chloride NOx Oxygen PCE TCE TNMHC Vinyl chloride	Test date: 10/20-22/87.
85	San Marcos	California	Benzene Carbon tetrachloride Chloroform Ethylene dibromide Methylene chloride PCE TCA TCE Vinyl chloride Vinylidene chloride PCB	Turbine	Benzene Carbon monoxide NOx Sulfur dioxide Vinyl chloride Vinylidene chloride	Test date: 6/26-27/89.
87	Puente Hills	California		Flare	Carbon dioxide Carbon monoxide HCl Methane NOx Oxygen PCDD PCDF Sulfur dioxide TNMHC TOC Water	Test date: Flare No. 11 was used.

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88	Spradra	California	1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetonitrile Ammonia Benzene Benzyle chloride Carbon dioxide Carbon monoxide Carbon tetrachloride Chlorobenzene Chloroform HCl Methylene chloride NOx Sulfur dioxide TCA Trichloroethene Vinyl chloride Xylenes	Boiler	1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetonitrile Benzene Benzyle chloride Carbon monoxide Carbon tetrachloride Chlorobenzene Chloroform Methylene chloride NOx PAH Sulfur dioxide TCA Trichloroethene Vinyl chloride Xylenes	Test date: 7/25/90.
89	Oxnard	California	Arsenic Beryllium Cadmium Chromium Copper Lead Maganese Mercury Nickel Selenium Zinc	IC Engine	Acenaphthene Acenaphthylene Anthracene Arsenic Benzo(a)anthracene Benzo(a)pyrene Benzo(b)floranthene Benzo(g,h,i)perylene Benzo(k)floranthene Beryllium Cadmium Chromium Chrysene Copper	Test date: 7/23-27/90. PAH determined by CARB Method 429. Formaldehyde determined by CARB Method 430. Metals determined by CARB Method 436. Arsenic determined by CARB Method 423. Chromium determined by CARB Method 425. HCl determined by CARB Method 421. HF determined by EPA Method 13B.
89 cont.	Oxnard	California			Dibenz(a,h)anthracene Fluoranthene Fluorene Formaldehyde HCl Hydrogen fluoride Indeno(1,2,3-cd)pyrene Lead Manganese Mercury Naphthalene Nickel Phenanthrene Pyrene Selenium Zinc	

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90	Oxnard	California		Engine	TCA 1,1,2-Trichloroethane 1,1-Dichloroethene 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloropropane 1,4-Dichlorobenzene 1,4-Dioxane 2-Butanone, MEK 2-Hexanone 2-Methyl phenol 3,4-Methyl phenol 4-Methyl-2-Pentanone, MIBK Acetaldehyde Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Butane Carbon dioxide Carbon disulfide Carbontetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Chloropicrin Dibromochloromethane Dichlorobenzene Dichloromethane Ethane Ethylbenzene Formaldehyde Hexane Hydrogen sulfide Hydrogen sulfide Methane Pentane Phenol Propane	Test date: 10/16/90. Benzene determined by CARB Method 422. Formaldehyde, Acrolin, and Acetaldehyde determined by CARB Method 430. Phenol determined by BAAQMD ST-16.
90 cont.	Oxnard	California				

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91	Oxnard	California	Carbon dioxide Carbon monoxide Ethane Hexane Hydrogen sulfide Hydrogen sulfide iso-Butane iso-Pentane Methane n-Butane n-Pentane Nitrogen Oxygen Propane Sulfur	Engine	Styrene TCE Tetrachloroethene Toluene Trichlorofluoromethane Trichlorotrifluoroethane Vinyl chloride Xylenes	Test date: 12/20/90. Hydrocarbons determined by EPA Method 18. O ₂ , N ₂ , and CO ₂ determined by EPA Method 3.
92	Salinas	California		Engine	1,1,2-Trichloroethane 1,1-Dichloroethene 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloropropane 1,4-Dichlorobenzene 1,4-Dioxane 2-Butanone, MEK 2-Hexanone Acenaphthene Acenaphthylene Acetone Acrylonitrile Anthracene Arsenic Benzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Beryllium Bromodichloromethane Cadmium Carbon disulfide	Test date: 7/31-8/2/90. PAH determined by CARB Method 429. Formaldehyde, Acrolein, and Acetaldehyde determined by CARB Method 430. Metals determined by CARB Method 436. Cadmium determined by CARB Method 424. Chromium determined by CARB Method 425. HCl determined by CARB Method 421. Silica determined by EPA Method 5. PCB determined by EPA Method 608/8080.

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Ref. No.	Landfill Name	Location	Compounds Tested (Uncontrolled)	Control Device	Compounds Tested (Controlled)	Comments		
92 cont.	Salinas	California			Carbontetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Chloropicrin Chromium Chrysene Copper Cristobalite Dibenz(a,h)anthracene Dibromochloromethane Dichloromethane Ethylbenzene Fluoranthene Fluorene HCl Hydrogen sulfide Indeno(1,2,3-cd)pyrene Lead Manganese Mercury Naphthalene Nickel Phenanthrene Phenols Phosphorus Pyrene Quartz Selenium Styrene TCA TCE Tetrachloroethene Toluene Trichlorofluoromethane Trichlorotrifluoroethane Tridymite Vinyl chloride Xylenes Zinc			
93	Newby Island	California			Carbon dioxide Carbon monoxide NOx Oxygen THC TNMHC	Test date: 2/7-8/90. Active landfill. CARB Method 1-100 was used.		
94	Various	Various	1,1-dichloroethane 1,1-dichloroethylene 1,2-dichloroethylene Benzene Chlorobenzene Dichloromethane Hexane Iso-octane Iso-propylbenzene m,p-xylene Methylbenzene Naphthalene Nonane o-xylene Pentane TCA Tetrachloroethene Trichloroethene	Various	1,1-dichloroethane 1,1-dichloroethylene 1,2-dichloroethylene Benzene Carbon dioxide Chlorobenzene Dichloromethane Hexane Iso-octane Iso-propylbenzene m,p-xylene Mercury Methane Methylbenzene Naphthalene Nitrogen Nonane Oxygen o-xylene Pentane TCA Tetrachloroethene Trichloroethene			

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95	Minnesota "Greater and "Twin Metropolitan	Minnesota		Flare	1,1-dichloroethane 1,1-dichloroethylene 1,2-Dichloroethane 1,2-dichloroethylene Carbon dioxide Carbon disulfide Carbon monoxide Carbon tetrachloride Carbonyl sulfide Chlorobenzene Chloroform Dimethyl disulfide Dimethyl sulfide Ethyl mercaptan HAP HCl Hydrogen sulfide Mercury Methane Methyl mercaptan Methylene chloride Nitrogen Nitrogen dioxide NMOG Perchloroethylene PM Sulfur dioxide TCA Trichloroethylene Vinyl chloride	Test date: 7/90 to 5/91, and 1-11/92.
96	Fresh Kills	New York	Mercury			Test date: 11/96. EPA Method 101A and SW-846 Method 7471 were used.
97	Mountaingate	California	PM Antimony Arsenic Barium Beryllium Cadmium Chromium Copper Lead Manganese Mercury Nickel Selenium Silver Thallium Zinc			Test date: 5/18-21/92.
98	Bakersfield	California	NMHC Butane Ethane Methane Pentane Propane	IC Engine	NMHC Butane CO Ethane Methane NOx Pentane PM Propane	Test date 12/4/90.
99	Olay Landfill	California	NMHC	IC Engine	NMHC CO NOx PM	Test date 4/2/91.
100	Penrose	California	NMHC Methane Perchloroethylene Trichloroethylene	IC Engine	NMHC Methane Perchloroethylene Trichloroethylene	Test date 2/24/88.
101	Toyon Canyon	California	1,1,1-Trichloroethylene Benzene Methane Perchloroethylene Toluene Trichloroethylene Xylene	IC Engine	1,1,1-Trichloroethylene Benzene Methane Perchloroethylene Toluene Trichloroethylene Xylene	Test date 3/8/88.

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Y & S						
104	Maintenance	Pennsylvania	CO CO2 Methane NMHC NOx	Flare	CO CO2 Methane NMHC NOx	Test date 12/14/94. NOx was determined by EPA Method 7D.
Seneca Landfill						
105	Seneca Landfill	Pennsylvania	CO CO2 Methane NMHC Oxygen	Flare	CO CO2 Methane NMHC NOx	Test date 9/8/93. NOx and NMHC were determined by EPA Methods 7D and 25C, respectively.
Wayne Township						
106	Wayne Township	Pennsylvania	CO CO2 Methane NMVOC Oxygen	Flare	CO CO2 Methane NMVOC NOx Oxygen	Test date 4/2/96. NOx and NMVOC were determined by EPA Methods 7D and TO-14, respectively.
Bethlehem Landfill						
107	Bethlehem Landfill	Pennsylvania	NMHC	Flare	CO2 NMHC NOx Oxygen	Test date 10/9/96. Oxygen and CO2, NOx, and NMHC, were determined by EPA Methods 3A, 7E, and 18, respectively.
Hartford Landfill						
108	Hartford Landfill	Connecticut	NMOC	Flare	CO CO2 Methane NMOC NOx Oxygen SO2 THC	Test date 11/4/93. Oxygen, NOx, CO, SO2, and THC were determined by EPA Methods 3A, 7E, 10, 6C, and 25A, respectively. CO2, NMOC and methane were determined by EPA Method 18.
Contra Costa Landfill						
109	Contra Costa Landfill	California	1,1,1-Trichloroethane 1,2-Dichloroethane Benzene Carbon tetrachloride Chloroform CO CO2 Ethylene dibromide Methane Methylene chloride Nitrogen NMOC Oxygen Tetrachlorethene Trichlorethene Vinyl chloride	Gas Flare	1,1,1-Trichloroethane 1,2-Dichloroethane Benzene Carbon tetrachloride Chloroform CO CO2 Ethylene dibromide Methane Methylene chloride Nitrogen NMOC Oxygen Tetrachlorethene Trichlorethene Vinyl chloride	Test date 3/22/94. EPA Method TO-14 was used.

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
53	Allamont	U	1,1,1-Trichloroethane	0.28	0.34	0.44
53	Allamont	U	1,1,1-Trichloroethane	0.47	0.55	
54	Arbor Hills	U	1,1,1-Trichloroethane	0.15	0.16	0.15
54	Arbor Hills	U	1,1,1-Trichloroethane	0.14	0.14	
54	Arbor Hills	U	1,1,1-Trichloroethane	0.15	0.15	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.0023	0.0024	0.45
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.057	0.059	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.037	0.039	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	1.80	1.88	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.079	0.082	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.058	0.060	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	1.70	1.77	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.058	0.060	
15	Azusa Land Reclamation	U	1,1,1-Trichloroethane	0.057	0.059	
12	BKK Landfill	Y	1,1,1-Trichloroethane	12.00	26.4	30.0
12	BKK Landfill	Y	1,1,1-Trichloroethane	6.50	15.3	
12	BKK Landfill	Y	1,1,1-Trichloroethane	22.00	48.4	
17	Bradley Pit	U	1,1,1-Trichloroethane	2.10	2.60	2.72
17	Bradley Pit	U	1,1,1-Trichloroethane	4.80	7.38	
17	Bradley Pit	U	1,1,1-Trichloroethane	5.70	8.52	
17	Bradley Pit	U	1,1,1-Trichloroethane	0.57	0.71	
17	Bradley Pit	U	1,1,1-Trichloroethane	0.54	0.68	
19	Bradley Pit	U	1,1,1-Trichloroethane	2.10	2.54	
19	Bradley Pit	U	1,1,1-Trichloroethane	0.98	1.29	
19	Bradley Pit	U	1,1,1-Trichloroethane	0.21	0.28	
19	Bradley Pit	U	1,1,1-Trichloroethane	2.20	2.91	
41	Bradley Pit	U	1,1,1-Trichloroethane	2.30	3.04	
6	Bradley Pit	U	1,1,1-Trichloroethane	0.0079	0.011	
6	Bradley Pit	U	1,1,1-Trichloroethane	0.73	0.97	
6	Bradley Pit	U	1,1,1-Trichloroethane	0.16	0.21	
6	Bradley Pit	U	1,1,1-Trichloroethane	0.17	0.23	
7	Calabasas	Y	1,1,1-Trichloroethane	0.33	0.50	2.57
7	Calabasas	Y	1,1,1-Trichloroethane	0.60	1.08	
7	Calabasas	Y	1,1,1-Trichloroethane	3.40	6.14	
13	Carson	U	1,1,1-Trichloroethane	0.025	0.053	0.051
13	Carson	U	1,1,1-Trichloroethane	0.037	0.051	
13	Carson	U	1,1,1-Trichloroethane	0.038	0.051	
43	CB110	U	1,1,1-Trichloroethane	0.25	0.25	0.25
43	CB111	U	1,1,1-Trichloroethane	4.20	4.25	4.25
43	CB113	U	1,1,1-Trichloroethane	0.030	0.036	0.036
43	CB114	U	1,1,1-Trichloroethane	0.48	0.49	0.49
43	CB115	U	1,1,1-Trichloroethane	0.030	0.030	0.030
43	CB116	Y	1,1,1-Trichloroethane	0.60	0.61	0.61
43	CB117	U	1,1,1-Trichloroethane	0.20	0.20	0.20
43	CB118	U	1,1,1-Trichloroethane	0.37	0.38	0.38
43	CB120	U	1,1,1-Trichloroethane	0.40	0.40	0.40
43	CB121	U	1,1,1-Trichloroethane	1.30	1.38	1.38
43	CB124	U	1,1,1-Trichloroethane	0.50	0.51	0.51
43	CB125	Y	1,1,1-Trichloroethane	1.24	1.25	1.25
43	CB127	U	1,1,1-Trichloroethane	0.47	0.47	0.47
43	CB130	U	1,1,1-Trichloroethane	0.16	0.16	0.16
43	CB132	U	1,1,1-Trichloroethane	1.35	1.36	1.36
43	CB14	U	1,1,1-Trichloroethane	0.34	0.36	0.36
43	CB15	U	1,1,1-Trichloroethane	0.15	0.15	0.15
43	CB16	U	1,1,1-Trichloroethane	1.15	1.16	1.16
43	CB18	U	1,1,1-Trichloroethane	0.77	0.78	0.78
43	CB19	U	1,1,1-Trichloroethane	1.90	1.92	1.92
55	Chicopee	U	1,1,1-Trichloroethane	2.20	2.82	2.82
56	Coyote Canyon	U	1,1,1-Trichloroethane	0.18	0.24	0.25
56	Coyote Canyon	U	1,1,1-Trichloroethane	0.17	0.22	
56	Coyote Canyon	U	1,1,1-Trichloroethane	0.17	0.23	
56	Coyote Canyon	U	1,1,1-Trichloroethane	0.17	0.26	
56	Coyote Canyon	U	1,1,1-Trichloroethane	0.21	0.30	
56	Coyote Canyon	U	1,1,1-Trichloroethane	0.18	0.26	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
57	Durham Rd.	U	1,1,1-Trichloroethane	0.67	0.88	1.66
57	Durham Rd.	U	1,1,1-Trichloroethane	0.75	0.90	
57	Durham Rd.	U	1,1,1-Trichloroethane	2.70	3.21	
10	Mission Canyon	N	1,1,1-Trichloroethane	0.016	0.066	0.066
5	Mountaingate	N	1,1,1-Trichloroethane	0.011	0.032	0.032
5	Mountaingate	N	1,1,1-Trichloroethane	0.011	0.032	
5	Mountaingate	N	1,1,1-Trichloroethane	0.012	0.035	
58	Olay Annex	U	1,1,1-Trichloroethane	0.011	0.032	
58	Olay Landfill	Y	1,1,1-Trichloroethane	0.17	0.18	0.18
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.010	0.014	0.014
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0022	0.010	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.010	0.044	0.061
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.014	0.061	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.036	0.16	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.035	0.15	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0022	0.010	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0058	0.025	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0022	0.010	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0058	0.025	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0020	0.0087	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0028	0.012	
22	Palos Verdes	Y	1,1,1-Trichloroethane	0.0042	0.018	
51	Palos Verdes	Y	1,1,1-Trichloroethane	0.056	0.14	
51	Palos Verdes	Y	1,1,1-Trichloroethane	0.10	0.32	
20	Penrose	U	1,1,1-Trichloroethane	0.021	0.027	0.042
20	Penrose	U	1,1,1-Trichloroethane	0.021	0.027	
20	Penrose	U	1,1,1-Trichloroethane	0.046	0.079	
20	Penrose	U	1,1,1-Trichloroethane	0.045	0.077	
20	Penrose	U	1,1,1-Trichloroethane	0.0087	0.021	
20	Penrose	U	1,1,1-Trichloroethane	0.012	0.028	
20	Penrose	U	1,1,1-Trichloroethane	0.015	0.030	
20	Penrose	U	1,1,1-Trichloroethane	0.023	0.045	
18	Puente Hills	N	1,1,1-Trichloroethane	0.91	1.18	1.47
18	Puente Hills	N	1,1,1-Trichloroethane	0.94	1.27	
18	Puente Hills	N	1,1,1-Trichloroethane	0.60	0.80	
18	Puente Hills	N	1,1,1-Trichloroethane	0.50	0.66	
24	Puente Hills	N	1,1,1-Trichloroethane	2.20	3.17	
24	Puente Hills	N	1,1,1-Trichloroethane	1.70	2.35	
50	Puente Hills	N	1,1,1-Trichloroethane	0.73	0.88	
59	Rockingham LF	U	1,1,1-Trichloroethane	7.90	10.5	10.5
1	Scholl Canyon	N	1,1,1-Trichloroethane	0.46	0.74	0.53
1	Scholl Canyon	N	1,1,1-Trichloroethane	0.14	0.32	
9	Sheldon Street	U	1,1,1-Trichloroethane	8.60	17.12	4.34
9	Sheldon Street	U	1,1,1-Trichloroethane	0.015	0.030	
9	Sheldon Street	U	1,1,1-Trichloroethane	0.05	0.11	
9	Sheldon Street	U	1,1,1-Trichloroethane	0.05	0.11	
23	Toyon Canyon	N	1,1,1-Trichloroethane	0.61	0.66	0.66
43	CB110	U	1,1,2,2-Tetrachloroethane	3.65	3.72	3.72
43	CB115	U	1,1,2,2-Tetrachloroethane	0.010	0.010	0.010
43	CB124	Y	1,1,2,2-Tetrachloroethane	2.00	2.03	2.03
43	CB130	U	1,1,2,2-Tetrachloroethane	0.11	0.11	0.11
43	CB15	U	1,1,2,2-Tetrachloroethane	0.20	0.20	0.20
43	CB17	U	1,1,2,2-Tetrachloroethane	2.35	2.41	2.41
43	CB19	U	1,1,2,2-Tetrachloroethane	0.20	0.20	0.20
59	Rockingham	U	1,1,2,2-Tetrachloroethane	0.15	0.20	0.20
43	CB111	U	1,1,2,2-Tetrachloroethane	0.10	0.10	0.10
54	Arbor Hills	U	1,1-Dichloroethane	1.59	1.63	1.37
54	Arbor Hills	U	1,1-Dichloroethane	1.26	1.27	
54	Arbor Hills	U	1,1-Dichloroethane	1.18	1.20	
43	CB110	U	1,1-Dichloroethane	2.30	2.34	2.34
43	CB111	U	1,1-Dichloroethane	19.5	19.7	19.7
43	CB112	U	1,1-Dichloroethane	0.85	0.94	0.94
43	CB113	U	1,1-Dichloroethane	0.30	0.36	0.36
43	CB114	U	1,1-Dichloroethane	11.9	12.0	12.0
43	CB115	U	1,1-Dichloroethane	0.050	0.050	0.050

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB116	Y	1,1-Dichloroethane	0.60	0.61	0.61
43	CB117	U	1,1-Dichloroethane	1.75	1.77	1.77
43	CB118	U	1,1-Dichloroethane	5.63	5.74	5.74
43	CB12	U	1,1-Dichloroethane	0.10	0.10	0.10
43	CB120	U	1,1-Dichloroethane	2.75	2.77	2.77
43	CB122	U	1,1-Dichloroethane	0.40	0.40	0.40
43	CB123	U	1,1-Dichloroethane	2.60	2.76	2.76
43	CB124	Y	1,1-Dichloroethane	11.9	12.1	12.1
43	CB125	U	1,1-Dichloroethane	1.21	1.22	1.22
43	CB126	U	1,1-Dichloroethane	0.45	0.45	0.45
43	CB127	U	1,1-Dichloroethane	6.33	6.37	6.37
43	CB129	U	1,1-Dichloroethane	3.53	3.73	3.73
43	CB13	U	1,1-Dichloroethane	0.10	0.10	0.10
43	CB130	U	1,1-Dichloroethane	0.71	0.72	0.72
43	CB133	U	1,1-Dichloroethane	0.10	0.10	0.10
43	CB14	U	1,1-Dichloroethane	2.35	2.47	2.47
43	CB15	U	1,1-Dichloroethane	1.60	1.62	1.62
43	CB16	U	1,1-Dichloroethane	4.50	4.53	4.53
43	CB18	U	1,1-Dichloroethane	8.95	9.02	9.02
43	CB19	U	1,1-Dichloroethane	7.90	7.98	7.98
55	Chicopee	U	1,1-Dichloroethane	5.02	6.44	6.44
56	Coyote Canyon	U	1,1-Dichloroethane	2.34	3.24	3.36
56	Coyote Canyon	U	1,1-Dichloroethane	2.52	3.36	
56	Coyote Canyon	U	1,1-Dichloroethane	3.13	4.17	
56	Coyote Canyon	U	1,1-Dichloroethane	2.87	4.25	
56	Coyote Canyon	U	1,1-Dichloroethane	1.80	2.62	
56	Coyote Canyon	U	1,1-Dichloroethane	1.70	2.51	0.90
27	Lyon Development	U	1,1-dichloroethane	1.10	1.29	
27	Lyon Development	U	1,1-dichloroethane	3.00	3.57	
27	Lyon Development	U	1,1-dichloroethane	0.060	0.059	
27	Lyon Development	U	1,1-dichloroethane	0.19	0.22	
27	Lyon Development	U	1,1-dichloroethane	0.15	0.18	
27	Lyon Development	U	1,1-dichloroethane	0.060	0.059	
59	Rockingham LF	U	1,1-Dichloroethane	43.7	58.1	58.1
3	Allamont	U	1,2-Dichloroethane	0.55	0.66	0.41
3	Allamont	U	1,2-Dichloroethane	0.13	0.15	
54	Arbor Hills	U	1,2-Dichloroethane	0.27	0.28	0.39
54	Arbor Hills	U	1,2-Dichloroethane	0.34	0.34	
54	Arbor Hills	U	1,2-Dichloroethane	0.54	0.55	
15	Azusa Land Reclamation	U	1,2-Dichloroethane	0.15	0.16	0.16
15	Azusa Land Reclamation	U	1,2-Dichloroethane	50.0	110	66.8
12	BKK Landfill	Y	1,2-Dichloroethane	10.0	23.5	
12	BKK Landfill	Y	1,2-Dichloroethane	1.80	2.69	2.20
17	Bradley Pit	U	1,2-Dichloroethane	4.30	5.38	
17	Bradley Pit	U	1,2-Dichloroethane	4.30	5.38	
17	Bradley Pit	U	1,2-Dichloroethane	2.20	2.66	
17	Bradley Pit	U	1,2-Dichloroethane	2.20	2.72	
17	Bradley Pit	U	1,2-Dichloroethane	1.80	2.77	
19	Bradley Pit	U	1,2-Dichloroethane	1.60	2.06	
19	Bradley Pit	U	1,2-Dichloroethane	1.10	1.40	
19	Bradley Pit	U	1,2-Dichloroethane	0.15	0.23	
19	Bradley Pit	U	1,2-Dichloroethane	1.30	1.61	
6	Bradley Pit	U	1,2-Dichloroethane	0.43	0.54	
6	Bradley Pit	U	1,2-Dichloroethane	0.43	0.59	
6	Bradley Pit	U	1,2-Dichloroethane	0.43	0.58	
7	Calabasas	Y	1,2-Dichloroethane	15.0	27.1	29.8
7	Calabasas	Y	1,2-Dichloroethane	18.0	32.5	
43	CB110	U	1,2-Dichloroethane	1.80	1.83	1.83
43	CB111	U	1,2-Dichloroethane	0.45	0.46	0.46
43	CB112	U	1,2-Dichloroethane	0.55	0.61	0.61
43	CB113	U	1,2-Dichloroethane	0.020	0.024	0.024
43	CB114	U	1,2-Dichloroethane	0.020	0.020	0.020
43	CB119	U	1,2-Dichloroethane	0.50	0.50	0.50
43	CB121	U	1,2-Dichloroethane	0.78	0.79	0.79

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CBI31	U	1,2-Dichloroethane	1.90	1.90	1.90
43	CBI8	U	1,2-Dichloroethane	0.18	0.18	0.18
43	CBI9	U	1,2-Dichloroethane	0.10	0.10	0.10
55	Chicopee	U	1,2-Dichloroethane	0.11	0.14	0.14
56	Coyote Canyon	U	1,2-Dichloroethane	0.12	0.15	0.21
56	Coyote Canyon	U	1,2-Dichloroethane	0.13	0.17	
56	Coyote Canyon	U	1,2-Dichloroethane	0.23	0.30	
56	Coyote Canyon	U	1,2-Dichloroethane	0.23	0.34	
56	Coyote Canyon	U	1,2-Dichloroethane	0.11	0.16	
56	Coyote Canyon	U	1,2-Dichloroethane	0.10	0.14	
57	Durham Rd.	U	1,2-Dichloroethane	0.12	0.16	0.16
57	Durham Rd.	U	1,2-Dichloroethane	0.13	0.16	
57	Durham Rd.	U	1,2-Dichloroethane	0.14	0.17	
27	Lyon Development	U	1,2-Dichloroethane	0.060	0.071	
27	Lyon Development	U	1,2-Dichloroethane	0.060	0.071	0.067
27	Lyon Development	U	1,2-Dichloroethane	0.060	0.060	
5	Mountaingate	N	1,2-Dichloroethane	0.06	0.17	0.17
5	Mountaingate	N	1,2-Dichloroethane	0.06	0.17	
5	Mountaingate	N	1,2-Dichloroethane	0.06	0.17	
58	Otay Annex	U	1,2-Dichloroethane	0.025	0.027	0.027
84	Otay Landfill	Y	1,2-Dichloroethane	0.025	0.034	0.034
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	1.78
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	
22	Palos Verdes	Y	1,2-Dichloroethane	0.08	0.35	
22	Palos Verdes	Y	1,2-Dichloroethane	1.10	4.80	
22	Palos Verdes	Y	1,2-Dichloroethane	0.81	3.53	
20	Penrose	U	1,2-Dichloroethane	0.50	0.64	0.92
20	Penrose	U	1,2-Dichloroethane	0.50	0.63	
20	Penrose	U	1,2-Dichloroethane	0.50	0.86	
20	Penrose	U	1,2-Dichloroethane	0.50	0.85	
20	Penrose	U	1,2-Dichloroethane	0.50	1.22	
20	Penrose	U	1,2-Dichloroethane	0.50	1.18	
20	Penrose	U	1,2-Dichloroethane	0.50	0.99	
20	Penrose	U	1,2-Dichloroethane	0.50	0.97	
18	Puente Hills	N	1,2-Dichloroethane	6.00	7.79	7.96
18	Puente Hills	N	1,2-Dichloroethane	6.00	8.09	
18	Puente Hills	N	1,2-Dichloroethane	6.00	8.00	
18	Puente Hills	N	1,2-Dichloroethane	6.00	7.95	
59	Rockingham	U	1,2-Dichloroethane	6.00	40.7	40.7
43	CBI11	U	1,2-Dichloropropane	1.80	1.82	1.82
43	CBI13	U	1,2-Dichloropropane	0.06	0.07	0.07
43	CBI14	U	1,2-Dichloropropane	0.02	0.02	0.02
43	CBI24	Y	1,2-Dichloropropane	0.50	0.51	0.51
43	CBI27	U	1,2-Dichloropropane	0.27	0.27	0.27
43	CBI30	U	1,2-Dichloropropane	0.22	0.22	0.22
43	CBI5	U	1,2-Dichloropropane	0.10	0.10	0.10
43	CBI8	U	1,2-Dichloropropane	0.12	0.12	0.12
41	Guadalupe	U	1,2-Dimethyl cyclohexane	8.80	10.5	10.5
41	Guadalupe	U	1,3-Dimethyl cyclohexane	5.40	6.47	6.47
41	Guadalupe	U	1,3-Dimethyl cyclopentane	21.4	25.6	25.6
41	Guadalupe	U	1-Butanol	8.20	9.82	9.82
41	Guadalupe	U	1-Propanol	3.20	3.83	3.83
41	Guadalupe	U	2,4-Dimethyl heptane	10.5	12.6	12.6
41	Guadalupe	U	2-Butanol	13.3	15.9	15.9
43	CBI15	U	2-Chloroethylvinyl ether	2.25	2.27	2.27
41	Guadalupe	U	2-Hexanone	12.6	15.1	15.1
41	Guadalupe	U	2-Methyl heptane	2.10	2.51	2.51

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
41	Guadalupe	U	2-Methyl propane	4.40	5.27	5.27
41	Guadalupe	U	2-Methyl-methylester propanoic acid	5.60	6.71	6.71
41	Guadalupe	U	2-Propanol	5.20	6.23	35.4
60	Sunshine Canyon	U	2-Propanol	54.0	64.7	64.7
41	Guadalupe	U	3-Carene	44.1	63.7	63.7
43	CB111	U	Acetone	12.0	12.1	12.1
43	CB112	U	Acetone	2.25	2.48	2.48
43	CB114	U	Acetone	1.84	1.86	1.86
43	CB118	U	Acetone	4.50	4.59	4.59
43	CB120	U	Acetone	6.50	6.54	6.54
43	CB121	U	Acetone	2.25	2.27	2.27
43	CB122	U	Acetone	19.3	19.5	19.5
43	CB123	U	Acetone	1.00	1.06	1.06
43	CB124	Y	Acetone	20.0	20.3	20.3
43	CB126	U	Acetone	8.50	8.54	8.54
43	CB127	U	Acetone	5.33	5.37	5.37
43	CB13	U	Acetone	3.40	3.41	3.41
43	CB131	U	Acetone	7.00	7.01	7.01
43	CB132	U	Acetone	2.50	2.51	2.51
43	CB133	U	Acetone	8.00	8.02	8.02
43	CB16	U	Acetone	7.50	7.55	7.55
43	CB17	U	Acetone	32.0	32.8	32.8
43	CB19	U	Acetone	14.0	14.1	14.1
59	Rockingham	U	Acetone	36.8	48.9	48.9
56	Coyote Canyon	U	Acetonitrile	0.023	0.023	0.021
56	Coyote Canyon	U	Acetonitrile	0.019	0.019	
43	CB114	U	Acrylonitrile	0.80	0.81	0.81
43	CB125	U	Acrylonitrile	7.40	7.46	7.46
43	CB14	U	Acrylonitrile	8.93	9.38	9.38
59	Rockingham	U	Acrylonitrile	21.3	28.3	28.3
53	Allamont	U	Benzene	3.70	4.46	2.76
53	Allamont	U	Benzene	0.91	1.06	
54	Arbor Hills	U	Benzene	0.95	0.98	0.95
54	Arbor Hills	U	Benzene	0.99	1.00	
54	Arbor Hills	U	Benzene	0.84	0.86	
15	Azusa Land Reclamation	U	Benzene	0.10	0.10	2.00
15	Azusa Land Reclamation	U	Benzene	0.10	0.10	
15	Azusa Land Reclamation	U	Benzene	1.90	1.98	
15	Azusa Land Reclamation	U	Benzene	2.00	2.09	
15	Azusa Land Reclamation	U	Benzene	2.30	2.40	
15	Azusa Land Reclamation	U	Benzene	2.80	2.92	
15	Azusa Land Reclamation	U	Benzene	1.80	1.88	
15	Azusa Land Reclamation	U	Benzene	2.20	2.29	
15	Azusa Land Reclamation	U	Benzene	4.10	4.28	
15	Azusa Land Reclamation	U	Benzene	45.0	99.1	92.6
12	BKK Landfill	Y	Benzene	45.0	79.8	
12	BKK Landfill	Y	Benzene	34.0	98.9	
12	BKK Landfill	Y	Benzene	45.0	98.9	2.99
17	Bradley Pit	U	Benzene	2.80	3.47	
17	Bradley Pit	U	Benzene	3.10	3.74	
17	Bradley Pit	U	Benzene	2.30	3.54	
17	Bradley Pit	U	Benzene	1.10	1.38	
17	Bradley Pit	U	Benzene	2.60	3.89	
17	Bradley Pit	U	Benzene	1.10	1.38	
41	Bradley Pit	U	Benzene	0.90	1.30	
6	Bradley Pit	U	Benzene	1.70	2.31	
6	Bradley Pit	U	Benzene	6.10	7.63	
7	Calabasas	U	Benzene	0.90	1.23	
7	Calabasas	Y	Benzene	18.0	32.5	
7	Calabasas	Y	Benzene	32.0	57.8	36.0
13	Carson	U	Benzene	11.7	17.8	6.67
13	Carson	U	Benzene	4.20	6.46	
13	Carson	U	Benzene	3.70	5.69	
43	CB110	U	Benzene	5.10	7.85	
43	CB111	U	Benzene	1.00	1.02	1.02
43	CB111	U	Benzene	1.95	1.97	1.97

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB112	U	Benzene	2.60	2.86	2.86
43	CB113	U	Benzene	1.53	1.85	1.85
43	CB114	U	Benzene	2.76	2.79	2.79
43	CB115	U	Benzene	0.35	0.35	0.35
43	CB116	Y	Benzene	0.30	0.30	0.30
43	CB117	U	Benzene	0.10	0.10	0.10
43	CB118	U	Benzene	1.53	1.56	1.56
43	CB120	U	Benzene	0.65	0.65	0.65
43	CB121	U	Benzene	1.05	1.06	1.06
43	CB122	U	Benzene	0.57	0.58	0.58
43	CB123	U	Benzene	1.20	1.27	1.27
43	CB124	Y	Benzene	5.53	5.61	5.61
43	CB125	U	Benzene	2.42	2.44	2.44
43	CB126	U	Benzene	0.15	0.15	0.15
43	CB127	U	Benzene	0.77	0.78	0.78
43	CB129	U	Benzene	79.1	83.7	83.7
43	CB130	U	Benzene	2.65	2.67	2.67
43	CB131	U	Benzene	0.60	0.60	0.60
43	CB132	U	Benzene	0.70	0.70	0.70
43	CB133	U	Benzene	0.83	0.83	0.83
43	CB14	U	Benzene	1.04	1.09	1.09
43	CB15	U	Benzene	2.55	2.58	2.58
43	CB16	U	Benzene	0.20	0.20	0.20
43	CB17	U	Benzene	1.50	1.54	1.54
43	CB18	U	Benzene	4.55	4.59	4.59
43	CB19	U	Benzene	1.00	1.01	1.01
55	Chicopee	U	Benzene	4.82	6.19	6.19
56	Coyote Canyon	U	Benzene	1.64	2.18	2.37
56	Coyote Canyon	U	Benzene	1.73	2.56	3.20
57	Durham Rd.	U	Benzene	2.30	3.03	
57	Durham Rd.	U	Benzene	2.40	2.89	
57	Durham Rd.	U	Benzene	3.10	3.69	
27	Lyon Development	U	Benzene	0.55	0.65	0.79
27	Lyon Development	U	Benzene	1.20	1.43	
27	Lyon Development	U	Benzene	0.31	0.31	
10	Mission Canyon	N	Benzene	0.036	0.15	1.36
5	Mountaingate	N	Benzene	0.13	0.37	0.30
5	Mountaingate	N	Benzene	0.09	0.26	
5	Mountaingate	N	Benzene	0.10	0.29	
8	Operating Industries	N	Benzene	0.10	0.29	
58	Olay Annex	U	Benzene	4.70	9.36	9.36
84	Olay Landfill	Y	Benzene	3.36	4.57	4.57
22	Palos Verdes	Y	Benzene	8.48	9.17	9.17
22	Palos Verdes	Y	Benzene	13.0	56.7	36.4
22	Palos Verdes	Y	Benzene	2.50	10.9	
22	Palos Verdes	Y	Benzene	20.0	87.2	
22	Palos Verdes	Y	Benzene	1.00	4.36	
22	Palos Verdes	Y	Benzene	2.30	10.0	
22	Palos Verdes	Y	Benzene	5.40	23.5	
22	Palos Verdes	Y	Benzene	0.96	4.19	
22	Palos Verdes	Y	Benzene	6.00	26.2	
22	Palos Verdes	Y	Benzene	20.0	87.2	
22	Palos Verdes	Y	Benzene	5.40	23.5	
22	Palos Verdes	Y	Benzene	0.96	4.19	
22	Palos Verdes	Y	Benzene	1.10	4.80	
51	Palos Verdes	Y	Benzene	9.80	31.2	
51	Palos Verdes	Y	Benzene	53.0	136	3.84
20	Penrose	U	Benzene	1.90	2.43	
20	Penrose	U	Benzene	2.20	2.78	
20	Penrose	U	Benzene	4.00	6.88	
20	Penrose	U	Benzene	4.00	6.81	
20	Penrose	U	Benzene	1.40	3.41	
20	Penrose	U	Benzene	1.30	2.58	
20	Penrose	U	Benzene	1.30	2.53	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
18	Puente Hills	N	Benzene	12.0	15.6	14.5
18	Puente Hills	N	Benzene	12.0	16.2	
18	Puente Hills	N	Benzene	16.0	21.3	
18	Puente Hills	N	Benzene	15.0	19.9	
24	Puente Hills	N	Benzene	6.60	9.52	
24	Puente Hills	N	Benzene	6.25	8.66	
50	Puente Hills	N	Benzene	8.50	10.30	
59	Rockingham	U	Benzene	1.30	1.73	1.73
1	Scholl Canyon	N	Benzene	3.90	6.26	3.45
1	Scholl Canyon	N	Benzene	0.28	0.64	
9	Sheldon Street	U	Benzene	0.50	1.00	6.53
9	Sheldon Street	U	Benzene	0.50	1.00	
9	Sheldon Street	U	Benzene	0.13	0.26	
9	Sheldon Street	U	Benzene	12.0	23.9	
39	Sunshine Canyon	U	Benzene	2.20	2.32	
23	Toyon Canyon	N	Benzene	2.75	2.96	2.32
43	CB113	U	Bromodichloromethane	0.22	0.27	2.96
43	CB114	U	Bromodichloromethane	0.12	0.12	0.27
43	CB124	Y	Bromodichloromethane	2.48	2.52	0.12
43	CB125	U	Bromodichloromethane	7.85	7.91	2.52
43	CB130	U	Bromodichloromethane	2.02	2.04	7.91
43	CB14	U	Bromodichloromethane	1.14	1.20	2.04
43	CB18	U	Bromodichloromethane	7.80	7.86	2.04
43	CB111	U	Butane	16.5	16.7	7.86
43	CB114	U	Butane	18.8	19.0	16.7
43	CB116	Y	Butane	1.00	1.02	19.0
43	CB117	U	Butane	1.00	1.01	1.02
43	CB118	U	Butane	0.83	0.85	1.01
43	CB119	U	Butane	2.50	2.51	0.85
43	CB126	U	Butane	1.50	1.51	2.51
43	CB127	U	Butane	6.07	6.11	1.51
43	CB132	U	Butane	5.00	5.03	6.11
43	CB133	U	Butane	1.13	1.13	5.03
43	CB134	U	Butane	0.50	0.50	1.13
43	CB15	U	Butane	11.8	11.9	0.50
43	CB16	U	Butane	9.50	9.57	11.9
43	CB19	U	Butane	32.0	32.3	9.57
60	Sunshine Canyon	U	Butane	38.0	40.0	32.3
41	Guadalupe	U	Butylester butanoic acid	11.6	16.8	40.0
54	Arbor Hills	U	Carbon disulfide	0.092	0.094	16.8
54	Arbor Hills	U	Carbon disulfide	0.093	0.095	0.094
15	Azusaland Reclamation	U	Carbon disulfide	0.41	0.43	0.43
12	BKK Landfill	Y	Carbon disulfide	0.83	1.86	1.20
12	BKK Landfill	Y	Carbon disulfide	0.66	1.46	
12	BKK Landfill	Y	Carbon disulfide	0.40	0.86	
12	BKK Landfill	Y	Carbon disulfide	0.50	1.08	
12	BKK Landfill	Y	Carbon disulfide	0.50	1.06	
12	BKK Landfill	Y	Carbon disulfide	0.50	1.45	
12	BKK Landfill	Y	Carbon disulfide	0.50	1.09	
12	BKK Landfill	Y	Carbon disulfide	0.60	1.28	
12	BKK Landfill	Y	Carbon disulfide	0.30	0.67	
12	Bradley Pit	U	Carbon disulfide	1.20	1.64	1.64
7	Calabasas	Y	Carbon disulfide	0.050	0.076	0.076
56	Coyote Canyon	U	Carbon disulfide	0.070	0.10	0.10
24	Puente Hills	N	Carbon disulfide	0.90	1.31	1.01
24	Puente Hills	N	Carbon disulfide	0.81	1.16	
24	Puente Hills	N	Carbon disulfide	0.85	1.18	
24	Puente Hills	N	Carbon disulfide	1.00	1.38	
50	Puente Hills	N	Carbon disulfide	0.00005	0.00006	
1	Scholl Canyon	N	Carbon disulfide	0.050	0.11	0.11
10	Mission Canyon	N	Carbon tetrachloride	0.00040	0.0016	0.0016
5	Mountaingate	N	Carbon tetrachloride	0.00036	0.0010	0.0083
5	Mountaingate	N	Carbon tetrachloride	0.00026	0.00075	
5	Mountaingate	N	Carbon tetrachloride	0.00026	0.00075	
5	Mountaingate	N	Carbon tetrachloride	0.00027	0.00078	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
18	Puente Hills	N	Carbon tetrachloride	0.030	0.039	0.024
18	Puente Hills	N	Carbon tetrachloride	0.030	0.040	
18	Puente Hills	N	Carbon tetrachloride	0.030	0.040	
18	Puente Hills	N	Carbon tetrachloride	0.030	0.040	
24	Puente Hills	N	Carbon tetrachloride	0.0014	0.0019	
24	Puente Hills	N	Carbon tetrachloride	0.0012	0.0017	
50	Puente Hills	N	Carbon tetrachloride	0.0050	0.0061	
1	Scholl Canyon	N	Carbon tetrachloride	0.18	0.41	0.41
23	Toyon Canyon	N	Carbon tetrachloride	0.0025	0.0027	0.0027
53	Allamont	U	Carbon tetrachloride	0.0025	0.0030	0.0030
53	Allamont	U	Carbon tetrachloride	0.0025	0.0029	
54	Arbor Hills	U	Carbon tetrachloride	0.0025	0.0026	0.0025
54	Arbor Hills	U	Carbon tetrachloride	0.0025	0.0025	
54	Arbor Hills	U	Carbon tetrachloride	0.0025	0.0025	
15	Azusa Land Reclamation	U	Carbon tetrachloride	0.0014	0.0015	0.0015
15	Azusa Land Reclamation	U	Carbon tetrachloride	0.0014	0.0015	
19	Bradley Pit	U	Carbon tetrachloride	0.0015	0.0019	0.0023
19	Bradley Pit	U	Carbon tetrachloride	0.0015	0.0019	
19	Bradley Pit	U	Carbon tetrachloride	0.0015	0.0023	
19	Bradley Pit	U	Carbon tetrachloride	0.0015	0.0019	
6	Bradley Pit	U	Carbon tetrachloride	0.0001	0.0001	
6	Bradley Pit	U	Carbon tetrachloride	0.0010	0.0014	
6	Bradley Pit	U	Carbon tetrachloride	0.0030	0.0041	
6	Bradley Pit	U	Carbon tetrachloride	0.0040	0.0050	
13	Carson	U	Carbon tetrachloride	0.00064	0.00086	0.047
13	Carson	U	Carbon tetrachloride	0.10	0.14	
13	Carson	U	Carbon tetrachloride	0.00080	0.0017	
43	CB115	U	Carbon tetrachloride	0.050	0.050	0.050
55	Chicopee	U	Carbon tetrachloride	0.070	0.090	0.0899
56	Coyote Canyon	U	Carbon tetrachloride	0.0005	0.0007	0.0026
56	Coyote Canyon	U	Carbon tetrachloride	0.0005	0.0007	
56	Coyote Canyon	U	Carbon tetrachloride	0.0025	0.0033	
56	Coyote Canyon	U	Carbon tetrachloride	0.0025	0.0037	
56	Coyote Canyon	U	Carbon tetrachloride	0.0025	0.0036	
56	Coyote Canyon	U	Carbon tetrachloride	0.0025	0.0037	
57	Durham Rd.	U	Carbon tetrachloride	0.0025	0.0030	0.0030
57	Durham Rd.	U	Carbon tetrachloride	0.0025	0.0030	
57	Durham Rd.	U	Carbon tetrachloride	0.0025	0.0030	
27	Lyon Development	U	Carbon tetrachloride	0.040	0.047	0.045
27	Lyon Development	U	Carbon tetrachloride	0.040	0.048	
27	Lyon Development	U	Carbon tetrachloride	0.040	0.040	
58	Olay Annex	U	Carbon tetrachloride	0.00020	0.00027	0.00027
20	Penrose	U	Carbon tetrachloride	0.0025	0.0032	0.0053
20	Penrose	U	Carbon tetrachloride	0.0025	0.0032	
20	Penrose	U	Carbon tetrachloride	0.0025	0.0043	
20	Penrose	U	Carbon tetrachloride	0.0025	0.0043	
20	Penrose	U	Carbon tetrachloride	0.0025	0.0061	
20	Penrose	U	Carbon tetrachloride	0.0025	0.0059	
20	Penrose	U	Carbon tetrachloride	0.0040	0.0080	
20	Penrose	U	Carbon tetrachloride	0.0040	0.0078	
59	Rockingham	U	Carbon tetrachloride	0.15	0.20	
9	Sheldon Street	U	Carbon tetrachloride	0.0006	0.0012	0.21
9	Sheldon Street	U	Carbon tetrachloride	0.4100	0.8161	
9	Sheldon Street	U	Carbon tetrachloride	0.0015	0.0030	
9	Sheldon Street	U	Carbon tetrachloride	0.00030	0.00060	
12	BKK Landfill	Y	Carbon tetrachloride	0.11	0.24	0.23
12	BKK Landfill	Y	Carbon tetrachloride	0.094	0.22	
12	BKK Landfill	Y	Carbon tetrachloride	0.10	0.22	
7	Calabasas	Y	Carbon tetrachloride	0.020	0.030	0.031
7	Calabasas	Y	Carbon tetrachloride	0.015	0.027	
7	Calabasas	Y	Carbon tetrachloride	0.020	0.036	
84	Olay Landfill	Y	Carbon tetrachloride	0.00020	0.00022	0.00022
22	Palos Verdes	Y	Carbon tetrachloride	0.00024	0.0010	0.0053
22	Palos Verdes	Y	Carbon tetrachloride	0.000080	0.00035	
22	Palos Verdes	Y	Carbon tetrachloride	0.00046	0.0020	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
22	Palos Verdes	Y	Carbon tetrachloride	0.00034	0.0015	
22	Palos Verdes	Y	Carbon tetrachloride	0.00015	0.00065	
22	Palos Verdes	Y	Carbon tetrachloride	0.00015	0.00065	
22	Palos Verdes	Y	Carbon tetrachloride	0.0012	0.0052	
22	Palos Verdes	Y	Carbon tetrachloride	0.00012	0.00052	
22	Palos Verdes	Y	Carbon tetrachloride	0.00012	0.00052	
22	Palos Verdes	Y	Carbon tetrachloride	0.00034	0.0015	
22	Palos Verdes	Y	Carbon tetrachloride	0.00026	0.0011	
22	Palos Verdes	Y	Carbon tetrachloride	0.00050	0.0022	
51	Palos Verdes	Y	Carbon tetrachloride	0.010	0.032	
51	Palos Verdes	Y	Carbon tetrachloride	0.010	0.026	
54	Arbor Hills	U	Carbon tetrachloride	0.054	0.055	0.057
54	Arbor Hills	U	Carbonyl sulfide	0.058	0.059	
15	Azusa Land Reclamation	U	Carbonyl sulfide	23.0	24.0	24.0
12	BKK Landfill	Y	Carbonyl sulfide	1.40	3.14	1.64
12	BKK Landfill	Y	Carbonyl sulfide	1.40	3.09	
12	BKK Landfill	Y	Carbonyl sulfide	0.80	1.72	
12	BKK Landfill	Y	Carbonyl sulfide	0.90	1.91	
12	BKK Landfill	Y	Carbonyl sulfide	0.25	0.54	
12	BKK Landfill	Y	Carbonyl sulfide	0.25	0.54	
12	BKK Landfill	Y	Carbonyl sulfide	0.25	0.56	
7	Calabasas	Y	Carbonyl sulfide	0.05	0.08	0.08
24	Puente Hills	N	Carbonyl sulfide	0.57	0.83	0.87
24	Puente Hills	N	Carbonyl sulfide	0.81	1.16	
24	Puente Hills	N	Carbonyl sulfide	0.49	0.68	
24	Puente Hills	N	Carbonyl sulfide	1.20	1.66	
50	Puente Hills	N	Carbonyl sulfide	0.00005	0.00006	
1	Scholl Canyon	N	Carbonyl sulfide	0.050	0.11	0.11
54	Arbor Hills	U	Chlorobenzene	0.71	0.72	0.60
54	Arbor Hills	U	Chlorobenzene	0.74	0.74	
54	Arbor Hills	U	Chlorobenzene	0.70	0.72	
43	CB112	U	Chlorobenzene	0.20	0.22	0.22
43	CB113	U	Chlorobenzene	0.15	0.18	0.18
43	CB115	U	Chlorobenzene	0.05	0.05	0.05
43	CB122	U	Chlorobenzene	0.10	0.10	0.10
43	CB124	Y	Chlorobenzene	10.0	10.2	10.2
43	CB129	U	Chlorobenzene	9.10	9.63	9.63
43	CB13	U	Chlorobenzene	0.20	0.20	0.20
43	CB130	U	Chlorobenzene	0.43	0.43	0.43
43	CB15	U	Chlorobenzene	7.15	7.22	7.22
55	Chicopee	U	Chlorobenzene	0.10	0.13	0.13
56	Coyote Canyon	U	Chlorobenzene	0.010	0.013	0.24
56	Coyote Canyon	U	Chlorobenzene	0.010	0.013	
56	Coyote Canyon	U	Chlorobenzene	0.010	0.015	
56	Coyote Canyon	U	Chlorobenzene	0.010	0.015	
56	Coyote Canyon	U	Chlorobenzene	0.50	0.74	
56	Coyote Canyon	U	Chlorobenzene	0.44	0.65	
27	Lyon Development	U	Chlorobenzene	0.20	0.24	0.68
27	Lyon Development	U	Chlorobenzene	0.27	0.32	
27	Lyon Development	U	Chlorobenzene	1.50	1.49	
59	Rockingham	U	Chlorobenzene	0.20	0.27	0.27
43	CB16	U	Chlorodifluoromethane	0.25	0.25	0.25
43	CB113	U	Chlorodifluoromethane	0.97	1.17	1.17
43	CB114	U	Chlorodifluoromethane	12.6	12.7	12.7
43	CB117	U	Chlorodifluoromethane	3.85	3.89	3.89
43	CB118	U	Chlorodifluoromethane	0.77	0.79	0.79
43	CB119	U	Chlorodifluoromethane	1.20	1.20	1.20
43	CB12	U	Chlorodifluoromethane	0.10	0.10	0.10
43	CB126	U	Chlorodifluoromethane	1.90	1.91	1.91
43	CB130	U	Chlorodifluoromethane	1.33	1.34	1.34
43	CB131	U	Chlorodifluoromethane	1.00	1.00	1.00
43	CB132	U	Chlorodifluoromethane	3.00	3.02	3.02
43	CB134	U	Chlorodifluoromethane	0.60	0.60	0.60
43	CB18	U	Chlorodifluoromethane	4.79	4.83	4.83
43	CB111	U	Chloroethane	1.35	1.37	1.37

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB112	U	Chloroethane	0.20	0.22	0.22
43	CB113	U	Chloroethane	0.43	0.52	0.52
43	CB114	U	Chloroethane	3.25	3.29	3.29
43	CB115	U	Chloroethane	0.50	0.50	0.50
43	CB117	U	Chloroethane	1.60	1.62	1.62
43	CB118	U	Chloroethane	2.33	2.38	2.38
43	CB119	U	Chloroethane	0.60	0.60	0.60
43	CB120	U	Chloroethane	1.45	1.46	1.46
43	CB121	U	Chloroethane	9.20	9.27	9.27
43	CB123	U	Chloroethane	4.90	5.20	5.20
43	CB125	U	Chloroethane	0.76	0.77	0.77
43	CB127	U	Chloroethane	7.33	7.38	7.38
43	CB13	U	Chloroethane	0.70	0.70	0.70
43	CB130	U	Chloroethane	0.11	0.11	0.11
43	CB132	U	Chloroethane	8.25	8.29	8.29
43	CB133	U	Chloroethane	4.43	4.44	4.44
43	CB134	U	Chloroethane	0.30	0.30	0.30
43	CB14	U	Chloroethane	0.17	0.18	0.18
43	CB15	U	Chloroethane	1.45	1.46	1.46
43	CB16	U	Chloroethane	0.85	0.86	0.86
43	CB17	U	Chloroethane	0.50	0.51	0.51
43	CB18	U	Chloroethane	0.95	0.96	0.96
43	CB19	U	Chloroethane	3.70	3.74	3.74
43	Guadalupe	U	Chloroethane	2.20	3.18	3.18
41	Allamont	U	Chloroform	0.011	0.013	0.012
53	Allamont	U	Chloroform	0.010	0.012	0.0025
54	Arbor Hills	U	Chloroform	0.0025	0.0026	
54	Arbor Hills	U	Chloroform	0.0025	0.0025	
54	Arbor Hills	U	Chloroform	0.0025	0.0025	
15	Azusa Land Reclamation	U	Chloroform	0.030	0.031	0.031
15	Azusa Land Reclamation	U	Chloroform	0.030	0.031	
15	Azusa Land Reclamation	U	Chloroform	0.030	0.031	
15	Azusa Land Reclamation	U	Chloroform	0.030	0.031	
12	BKK Landfill	Y	Chloroform	1.10	2.4	2.20
12	BKK Landfill	Y	Chloroform	0.66	1.5	
12	BKK Landfill	Y	Chloroform	1.20	2.6	
19	Bradley Pit	U	Chloroform	0.020	0.026	0.019
19	Bradley Pit	U	Chloroform	0.020	0.025	
19	Bradley Pit	U	Chloroform	0.020	0.030	
19	Bradley Pit	U	Chloroform	0.020	0.025	
6	Bradley Pit	U	Chloroform	0.0015	0.0022	
6	Bradley Pit	U	Chloroform	0.010	0.014	
6	Bradley Pit	U	Chloroform	0.010	0.014	
6	Bradley Pit	U	Chloroform	0.010	0.013	
7	Calabasas	Y	Chloroform	0.18	0.27	2.85
7	Calabasas	Y	Chloroform	4.00	7.22	
7	Calabasas	Y	Chloroform	0.58	1.05	
13	Carson	U	Chloroform	0.0025	0.0033	0.0040
13	Carson	U	Chloroform	0.0025	0.0034	
13	Carson	U	Chloroform	0.0025	0.0053	
43	CB113	U	Chloroform	1.56	1.89	1.89
55	Chicopee	U	Chloroform	0.10	0.13	
56	Coyote Canyon	U	Chloroform	0.0020	0.0027	0.0032
56	Coyote Canyon	U	Chloroform	0.0020	0.0027	
56	Coyote Canyon	U	Chloroform	0.0030	0.0040	
56	Coyote Canyon	U	Chloroform	0.0030	0.0044	
56	Coyote Canyon	U	Chloroform	0.0019	0.0028	
56	Coyote Canyon	U	Chloroform	0.0019	0.0028	
57	Durham Rd.	U	Chloroform	0.00	0.00	0.01
57	Durham Rd.	U	Chloroform	0.00	0.00	
57	Durham Rd.	U	Chloroform	0.02	0.02	
27	Lyon Development	U	Chloroform	0.060	0.071	0.067
27	Lyon Development	U	Chloroform	0.060	0.071	
27	Lyon Development	U	Chloroform	0.060	0.059	
10	Mission Canyon	N	Chloroform	0.0005	0.0021	0.019

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
5	Mountaingate	N	Chloroform	0.0015	0.0043	0.0043
5	Mountaingate	N	Chloroform	0.0015	0.0043	
5	Mountaingate	N	Chloroform	0.0015	0.0043	
5	Mountaingate	N	Chloroform	0.0015	0.0043	
58	Otay Annex	U	Chloroform	0.00050	0.00054	0.00054
58	Otay Landfill	Y	Chloroform	0.00050	0.00068	0.00068
22	Palos Verdes	Y	Chloroform	0.0041	0.018	0.12
22	Palos Verdes	Y	Chloroform	0.00	0.01	
22	Palos Verdes	Y	Chloroform	0.00	0.01	
22	Palos Verdes	Y	Chloroform	0.00	0.01	
22	Palos Verdes	Y	Chloroform	0.01	0.04	
22	Palos Verdes	Y	Chloroform	0.00	0.02	
22	Palos Verdes	Y	Chloroform	0.00	0.02	
22	Palos Verdes	Y	Chloroform	0.00	0.02	
22	Palos Verdes	Y	Chloroform	0.00	0.02	
22	Palos Verdes	Y	Chloroform	0.01	0.04	
22	Palos Verdes	Y	Chloroform	0.01	0.03	
22	Palos Verdes	Y	Chloroform	0.00	0.02	
22	Palos Verdes	Y	Chloroform	0.00	0.02	
51	Palos Verdes	Y	Chloroform	0.25	0.80	
51	Palos Verdes	Y	Chloroform	0.25	0.64	
20	Penrose	U	Chloroform	0.02	0.019	0.030
20	Penrose	U	Chloroform	0.02	0.019	
20	Penrose	U	Chloroform	0.02	0.034	
20	Penrose	U	Chloroform	0.02	0.034	
20	Penrose	U	Chloroform	0.02	0.036	
20	Penrose	U	Chloroform	0.02	0.035	
20	Penrose	U	Chloroform	0.02	0.030	
20	Penrose	U	Chloroform	0.02	0.029	
18	Puente Hills	N	Chloroform	0.17	0.21	0.22
18	Puente Hills	N	Chloroform	0.17	0.22	
18	Puente Hills	N	Chloroform	0.17	0.22	
18	Puente Hills	N	Chloroform	0.17	0.22	
24	Puente Hills	N	Chloroform	0.24	0.35	
24	Puente Hills	N	Chloroform	0.030	0.042	
50	Puente Hills	N	Chloroform	0.20	0.24	
59	Rockingham	U	Chloroform	0.20	0.27	0.27
1	Scholl Canyon	N	Chloroform	0.027	0.043	0.56
1	Scholl Canyon	N	Chloroform	0.47	1.08	
9	Sheldon Street	U	Chloroform	0.00035	0.00070	0.00070
9	Sheldon Street	U	Chloroform	0.00035	0.00070	
23	Toyon Canyon	N	Chloroform	0.064	0.069	
43	CB110	U	Chloromethane	0.90	0.92	0.92
43	CB111	U	Chloromethane	0.60	0.61	0.61
43	CB112	U	Chloromethane	0.10	0.11	0.11
43	CB113	U	Chloromethane	1.12	1.36	1.36
43	CB114	U	Chloromethane	0.90	0.91	0.91
43	CB117	U	Chloromethane	1.25	1.26	1.26
43	CB118	U	Chloromethane	0.18	0.18	0.18
43	CB119	U	Chloromethane	0.20	0.20	0.20
43	CB121	U	Chloromethane	0.28	0.28	0.28
43	CB123	U	Chloromethane	1.40	1.49	1.49
43	CB124	Y	Chloromethane	0.70	0.71	0.71
43	CB125	U	Chloromethane	7.19	7.25	7.25
43	CB126	U	Chloromethane	1.20	1.21	1.21
43	CB127	U	Chloromethane	1.33	1.34	1.34
43	CB130	U	Chloromethane	1.34	1.35	1.35
43	CB132	U	Chloromethane	6.10	6.13	6.13
43	CB14	U	Chloromethane	3.73	3.92	3.92
43	CB15	U	Chloromethane	0.55	0.56	0.56
43	CB16	U	Chloromethane	0.24	0.24	0.24
43	CB18	U	Chloromethane	10.2	10.3	10.3
43	CB19	U	Chloromethane	3.60	3.64	3.64
55	Chicopee	U	Dichlorobenzene	0.08	0.10	0.10
56	Coyote Canyon	U	Dichlorobenzene	0.23	0.31	0.33
56	Coyote Canyon	U	Dichlorobenzene	0.26	0.35	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB110	U	Dichlorodifluoromethane	11.8	12.0	12.0
43	CB111	U	Dichlorodifluoromethane	7.45	7.53	7.53
43	CB112	U	Dichlorodifluoromethane	1.30	1.43	1.43
43	CB114	U	Dichlorodifluoromethane	44.0	44.5	44.5
43	CB115	U	Dichlorodifluoromethane	11.9	12.0	12.0
43	CB117	U	Dichlorodifluoromethane	23.3	23.5	23.5
43	CB118	U	Dichlorodifluoromethane	11.9	12.2	12.2
43	CB119	U	Dichlorodifluoromethane	14.3	14.3	14.3
43	CB12	U	Dichlorodifluoromethane	0.50	0.50	0.50
43	CB120	U	Dichlorodifluoromethane	8.85	8.90	8.90
43	CB121	U	Dichlorodifluoromethane	33.0	33.2	33.2
43	CB122	U	Dichlorodifluoromethane	13.3	13.4	13.4
43	CB124	Y	Dichlorodifluoromethane	16.0	16.2	16.2
43	CB126	U	Dichlorodifluoromethane	11.5	11.5	11.5
43	CB127	U	Dichlorodifluoromethane	24.5	24.6	24.6
43	CB13	U	Dichlorodifluoromethane	1.10	1.10	1.10
43	CB131	U	Dichlorodifluoromethane	19.0	19.0	19.0
43	CB132	U	Dichlorodifluoromethane	34.5	34.7	34.7
43	CB133	U	Dichlorodifluoromethane	8.90	8.92	8.92
43	CB134	U	Dichlorodifluoromethane	2.05	2.05	2.05
43	CB15	U	Dichlorodifluoromethane	4.90	4.95	4.95
43	CB16	U	Dichlorodifluoromethane	37.5	37.8	37.8
43	CB17	U	Dichlorodifluoromethane	16.5	16.9	16.9
43	CB18	U	Dichlorodifluoromethane	0.19	0.19	0.19
43	CB19	U	Dichlorodifluoromethane	30.0	30.3	30.3
43	CB11	U	Dichlorodifluoromethane	4.28	4.40	4.40
43	CB113	U	Dichlorodifluoromethane	0.36	0.44	0.44
43	CB114	U	Dichlorodifluoromethane	5.01	5.07	5.07
43	CB130	U	Dichlorodifluoromethane	0.48	0.48	0.48
43	CB18	U	Dichlorodifluoromethane	26.1	26.3	26.3
43	Altamont	U	Dichloromethane	33.0	39.8	27.4
53	Altamont	U	Dichloromethane	13.0	15.1	3.16
53	Arbor Hills	U	Dichloromethane	3.55	3.63	
54	Arbor Hills	U	Dichloromethane	2.84	2.87	
54	Arbor Hills	U	Dichloromethane	2.92	2.98	
43	CB110	U	Dichloromethane	20.0	20.4	20.4
43	CB111	U	Dichloromethane	128	129	129
43	CB112	U	Dichloromethane	3.25	3.58	3.58
43	CB113	U	Dichloromethane	0.18	0.22	0.22
43	CB114	U	Dichloromethane	38.8	39.3	39.3
43	CB115	U	Dichloromethane	0.20	0.20	0.20
43	CB116	Y	Dichloromethane	0.70	0.71	0.71
43	CB117	U	Dichloromethane	8.00	8.08	8.08
43	CB118	U	Dichloromethane	14.0	14.3	14.3
43	CB119	U	Dichloromethane	3.00	3.01	3.01
43	CB12	U	Dichloromethane	2.00	2.02	2.02
43	CB120	U	Dichloromethane	9.25	9.31	9.31
43	CB121	U	Dichloromethane	44.0	44.4	44.4
43	CB122	U	Dichloromethane	0.33	0.33	0.33
43	CB123	U	Dichloromethane	14.0	14.9	14.9
43	CB124	Y	Dichloromethane	29.9	30.4	30.4
43	CB125	U	Dichloromethane	24.5	24.7	24.7
43	CB126	U	Dichloromethane	2.00	2.01	2.01
43	CB127	U	Dichloromethane	24.7	24.8	24.8
43	CB130	U	Dichloromethane	1.48	1.49	1.49
43	CB132	U	Dichloromethane	35.0	35.2	35.2
43	CB14	U	Dichloromethane	18.4	19.3	19.3
43	CB15	U	Dichloromethane	6.30	6.36	6.36
43	CB16	U	Dichloromethane	17.0	17.1	17.1
43	CB17	U	Dichloromethane	3.45	3.53	3.53
43	CB18	U	Dichloromethane	51.0	51.4	51.4
43	CB19	U	Dichloromethane	11.9	15.3	50.5
55	Chicopee	U	Dichloromethane	7.35	9.79	15.3
56	Coyote Canyon	U	Dichloromethane	9.65	12.9	11.3
56	Coyote Canyon	U	Dichloromethane			

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
56	Coyote Canyon	U	Dichloromethane	7.58	10.1	12.5
56	Coyote Canyon	U	Dichloromethane	7.12	9.48	
56	Coyote Canyon	U	Dichloromethane	9.50	12.6	
56	Coyote Canyon	U	Dichloromethane	9.64	14.3	
56	Coyote Canyon	U	Dichloromethane	9.70	14.1	
56	Coyote Canyon	U	Dichloromethane	9.60	14.2	
57	Durham Rd.	U	Dichloromethane	6.00	7.89	7.62
57	Durham Rd.	U	Dichloromethane	6.10	7.35	
57	Durham Rd.	U	Dichloromethane	6.40	7.62	
41	Guadalupe	U	Dichloromethane	6.10	7.31	7.31
58	Otay Annex	U	Dichloromethane	12.4	16.8	16.8
84	Otay Landfill	Y	Dichloromethane	22.8	24.6	24.6
59	Rockingham	U	Dichloromethane	24.9	33.1	33.1
54	Arbor Hills	U	Dimethyl disulfide	0.11	0.11	0.11
54	Arbor Hills	U	Dimethyl disulfide	0.11	0.11	
54	Arbor Hills	U	Dimethyl sulfide	3.07	3.12	3.20
54	Arbor Hills Landfill	U	Dimethyl sulfide	3.23	3.29	
15	Azusa Land Reclamation	U	Dimethyl sulfide	47.0	49.0	73.5
15	Azusa Land Reclamation	U	Dimethyl sulfide	74.0	77.2	
15	Azusa Land Reclamation	U	Dimethyl sulfide	73.0	76.1	
15	Azusa Land Reclamation	U	Dimethyl sulfide	74.0	77.2	
15	Azusa Land Reclamation	U	Dimethyl sulfide	74.0	77.2	
15	Azusa Land Reclamation	U	Dimethyl sulfide	76.0	79.3	
15	Azusa Land Reclamation	U	Dimethyl sulfide	75.0	78.2	
12	BKK Landfill	Y	Dimethyl sulfide	6.70	15.02	14.81
12	BKK Landfill	Y	Dimethyl sulfide	6.60	14.57	
12	BKK Landfill	Y	Dimethyl sulfide	6.90	14.90	
12	BKK Landfill	Y	Dimethyl sulfide	5.80	12.50	
12	BKK Landfill	Y	Dimethyl sulfide	6.30	13.38	
12	BKK Landfill	Y	Dimethyl sulfide	6.60	19.08	
12	BKK Landfill	Y	Dimethyl sulfide	6.70	14.60	
12	BKK Landfill	Y	Dimethyl sulfide	6.70	14.35	
12	BKK Landfill	Y	Dimethyl sulfide	6.70	14.92	
6	Bradley Pit	U	Dimethyl sulfide	7.00	9.59	9.59
7	Calabasas	Y	Dimethyl sulfide	2.20	3.35	3.35
56	Coyote Canyon	U	Dimethyl sulfide	0.05	0.07	0.15
56	Coyote Canyon	U	Dimethyl sulfide	0.17	0.23	
56	Coyote Canyon	U	Dimethyl sulfide	8.70	12.9	11.7
56	Coyote Canyon	U	Dimethyl sulfide	7.90	10.5	
24	Puente Hills	N	Dimethyl sulfide	8.50	12.4	9.12
24	Puente Hills	N	Dimethyl sulfide	8.00	11.5	
24	Puente Hills	N	Dimethyl sulfide	7.80	10.8	
24	Puente Hills	N	Dimethyl sulfide	7.90	10.9	
50	Puente Hills	N	Dimethyl sulfide	0.0032	0.0039	
1	Scholl Canyon	N	Dimethyl sulfide	1.30	2.97	2.97
39	Sunshine Canyon	U	Dimethyl sulfide	6.20	6.53	6.53
43	CB113	U	Ethane	930	1125	1125
43	CB114	Y	Ethane	1780	1802	1802
43	CB124	U	Ethane	269	273	273
43	CB125	U	Ethane	1420	1431	1431
43	CB130	U	Ethane	930	938	938
43	CB14	U	Ethane	877	921	921
43	CB18	U	Ethane	1240	1250	1250
102	Fresh Kills Landfill	U	Ethane	16.9	21.9	21.9
103	Puente Hills	U	Ethane	22.3	240.4	240.4
41	Guadalupe	U	Ethanol	5.00	5.99	5.99
60	Sunshine Canyon	U	Ethanol	46.0	48.4	48.4
54	Arbor Hills	U	Ethyl benzene	18.7	19.1	19.4
54	Arbor Hills	U	Ethyl benzene	19.6	19.8	
54	Arbor Hills	U	Ethyl benzene	19.0	19.4	
54	Arbor Hills	U	Ethyl benzene	18.7	19.1	19.4
54	Arbor Hills	U	Ethyl benzene	19.6	19.8	
54	Arbor Hills	U	Ethyl benzene	19.0	19.4	
43	CB11	U	Ethyl benzene	6.15	6.32	6.32
43	CB110	U	Ethyl benzene	5.70	5.81	5.81

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB11	U	Ethyl benzene	5.00	5.06	5.06
43	CB112	U	Ethyl benzene	4.06	4.47	4.47
43	CB113	U	Ethyl benzene	37.0	44.7	44.7
43	CB114	U	Ethyl benzene	4.20	4.25	4.25
43	CB115	U	Ethyl benzene	0.23	0.23	0.23
43	CB116	Y	Ethyl benzene	1.30	1.32	1.32
43	CB117	U	Ethyl benzene	0.15	0.15	0.15
43	CB118	U	Ethyl benzene	7.00	7.14	7.14
43	CB119	U	Ethyl benzene	0.20	0.20	0.20
43	CB12	U	Ethyl benzene	0.55	0.55	0.55
43	CB120	U	Ethyl benzene	10.9	11.0	11.0
43	CB121	U	Ethyl benzene	0.25	0.25	0.25
43	CB122	U	Ethyl benzene	5.27	5.32	5.32
43	CB123	U	Ethyl benzene	4.00	4.25	4.25
43	CB124	Y	Ethyl benzene	35.4	35.9	35.9
43	CB125	U	Ethyl benzene	48.1	48.5	48.5
43	CB126	U	Ethyl benzene	0.70	0.70	0.70
43	CB127	U	Ethyl benzene	3.73	3.76	3.76
43	CB128	U	Ethyl benzene	0.80	0.80	0.80
43	CB129	U	Ethyl benzene	38.7	40.9	40.9
43	CB13	U	Ethyl benzene	4.40	4.41	4.41
43	CB130	U	Ethyl benzene	23.4	23.6	23.6
43	CB131	U	Ethyl benzene	4.60	4.61	4.61
43	CB132	U	Ethyl benzene	0.65	0.65	0.65
43	CB133	U	Ethyl benzene	2.73	2.74	2.74
43	CB14	U	Ethyl benzene	16.2	17.0	17.0
43	CB15	U	Ethyl benzene	6.75	6.82	6.82
43	CB16	U	Ethyl benzene	0.30	0.30	0.30
43	CB17	U	Ethyl benzene	22.0	22.5	22.5
43	CB18	U	Ethyl benzene	7.22	7.28	7.28
43	CB19	U	Ethyl benzene	3.80	3.84	3.84
41	Guadalupe	U	Ethyl benzene	3.10	3.71	3.71
27	Lyon Development	U	Ethyl benzene	5.50	6.47	4.61
27	Lyon Development	U	Ethyl benzene	2.90	3.45	
27	Lyon Development	U	Ethyl benzene	3.90	3.90	
59	Rockingham	U	Ethyl benzene	8.00	10.6	10.6
60	Sunshine Canyon	U	Ethyl benzene	59.0	62.1	62.1
54	Arbor Hills	U	Ethyl mercaptan	0.29	0.30	0.21
54	Arbor Hills	U	Ethyl mercaptan	0.13	0.13	
12	BKK Landfill	Y	Ethyl mercaptan	1.90	4.26	5.39
12	BKK Landfill	Y	Ethyl mercaptan	1.90	4.19	
12	BKK Landfill	Y	Ethyl mercaptan	2.20	4.75	
12	BKK Landfill	Y	Ethyl mercaptan	1.70	3.66	
12	BKK Landfill	Y	Ethyl mercaptan	2.30	4.88	
12	BKK Landfill	Y	Ethyl mercaptan	2.90	8.38	
12	BKK Landfill	Y	Ethyl mercaptan	3.10	6.75	
12	BKK Landfill	Y	Ethyl mercaptan	2.60	5.57	
12	BKK Landfill	Y	Ethyl mercaptan	2.70	6.01	
56	Coyote Canyon	U	Ethyl mercaptan	0.40	0.60	1.25
56	Coyote Canyon	U	Ethyl mercaptan	1.40	1.90	
53	Altamont	U	Ethylene dibromide	0.00050	0.00060	0.00059
53	Altamont	U	Ethylene dibromide	0.00050	0.00058	
57	Durham Rd.	U	Ethylene dibromide	0.00050	0.00070	0.00063
57	Durham Rd.	U	Ethylene dibromide	0.00050	0.00060	
57	Durham Rd.	U	Ethylene dibromide	0.00050	0.00060	
41	Guadalupe	U	Ethylester acetic acid	34.1	40.8	40.8
41	Guadalupe	U	Ethylester butanoic acid	25.6	30.7	30.7
41	Guadalupe	U	Ethylester propanoic acid	4.70	5.63	5.63
43	CB110	U	Fluorotrichloromethane	0.60	0.61	0.61
43	CB111	U	Fluorotrichloromethane	2.85	2.88	2.88
43	CB112	U	Fluorotrichloromethane	0.48	0.53	0.53
43	CB113	U	Fluorotrichloromethane	0.66	0.80	0.80
43	CB114	U	Fluorotrichloromethane	1.35	1.37	1.37
43	CB115	U	Fluorotrichloromethane	0.73	0.74	0.74
43	CB116	Y	Fluorotrichloromethane	0.70	0.71	0.71

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB117	U	Fluorotrichloromethane	2.35	2.37	2.37
43	CB118	U	Fluorotrichloromethane	1.30	1.33	1.33
43	CB119	U	Fluorotrichloromethane	1.05	1.05	1.05
43	CB120	U	Fluorotrichloromethane	3.25	3.27	3.27
43	CB121	U	Fluorotrichloromethane	1.08	1.09	1.09
43	CB122	U	Fluorotrichloromethane	0.67	0.68	0.68
43	CB123	U	Fluorotrichloromethane	2.10	2.23	2.23
43	CB124	Y	Fluorotrichloromethane	0.06	0.06	0.06
43	CB125	U	Fluorotrichloromethane	0.77	0.78	0.78
43	CB126	U	Fluorotrichloromethane	0.45	0.45	0.45
43	CB127	U	Fluorotrichloromethane	0.50	0.50	0.50
43	CB130	U	Fluorotrichloromethane	0.47	0.47	0.47
43	CB132	U	Fluorotrichloromethane	7.90	7.94	7.94
43	CB133	U	Fluorotrichloromethane	0.10	0.10	0.10
43	CB14	U	Fluorotrichloromethane	0.72	0.76	0.76
43	CB15	U	Fluorotrichloromethane	0.25	0.25	0.25
43	CB16	U	Fluorotrichloromethane	11.9	12.0	12.0
43	CB17	U	Fluorotrichloromethane	0.20	0.20	0.20
43	CB18	U	Fluorotrichloromethane	0.63	0.64	0.64
43	CB19	U	Fluorotrichloromethane	1.10	1.11	1.11
43	CB111	U	Hexane	6.50	6.57	6.57
43	CB113	U	Hexane	2.49	3.01	3.01
43	CB114	U	Hexane	20.8	21.1	21.1
43	CB116	Y	Hexane	2.40	2.44	2.44
43	CB117	U	Hexane	3.00	3.03	3.03
43	CB118	U	Hexane	4.17	4.26	4.26
43	CB119	U	Hexane	1.50	1.51	1.51
43	CB124	Y	Hexane	6.34	6.44	6.44
43	CB125	U	Hexane	13.4	13.5	13.5
43	CB127	U	Hexane	7.13	7.18	7.18
43	CB130	U	Hexane	6.06	6.12	6.12
43	CB131	U	Hexane	1.00	1.00	1.00
43	CB132	U	Hexane	10.0	10.1	10.1
43	CB133	U	Hexane	3.83	3.84	3.84
43	CB14	U	Hexane	7.30	7.67	7.67
43	CB15	U	Hexane	11.3	11.4	11.4
43	CB16	U	Hexane	7.00	7.05	7.05
43	CB18	U	Hexane	18.0	18.1	18.1
43	CB19	U	Hexane	25.0	25.3	25.3
54	Arbor Hills	U	Hexane	20.7	21.1	20.9
54	Arbor Hills	U	Hydrogen sulfide	20.4	20.8	
15	Azusa Land Reclamation	U	Hydrogen sulfide	28.0	29.2	29.2
15	Azusa Land Reclamation	U	Hydrogen sulfide	28.0	29.2	29.2
15	Azusa Land Reclamation	U	Hydrogen sulfide	34.0	35.5	35.5
15	Azusa Land Reclamation	U	Hydrogen sulfide	36.0	37.5	37.5
15	Azusa Land Reclamation	U	Hydrogen sulfide	39.0	40.7	40.7
15	Azusa Land Reclamation	U	Hydrogen sulfide	36.0	37.5	37.5
12	BKK Landfill	Y	Hydrogen sulfide	3.70	8.30	13.0
12	BKK Landfill	Y	Hydrogen sulfide	5.30	11.7	
12	BKK Landfill	Y	Hydrogen sulfide	8.20	17.7	
12	BKK Landfill	Y	Hydrogen sulfide	0.50	1.08	
12	BKK Landfill	Y	Hydrogen sulfide	2.30	4.88	
12	BKK Landfill	Y	Hydrogen sulfide	5.80	16.8	
12	BKK Landfill	Y	Hydrogen sulfide	7.60	16.6	
12	BKK Landfill	Y	Hydrogen sulfide	8.40	18.0	
12	BKK Landfill	Y	Hydrogen sulfide	10.0	22.3	
6	Bradley Pit	U	Hydrogen sulfide	64.0	87.7	80.8
6	Bradley Pit	U	Hydrogen sulfide	54.0	74.0	
7	Calabasas	Y	Hydrogen sulfide	11.3	17.2	17.2
56	Coyote Canyon	U	Hydrogen sulfide	46.4	68.5	62.5
56	Coyote Canyon	U	Hydrogen sulfide	42.4	56.5	
51	Palos Verdes	Y	Hydrogen sulfide	20.0	51.2	51.2
50	Puente Hills	N	Hydrogen sulfide	0.010	0.012	0.012
1	Scholl Canyon	N	Hydrogen sulfide	5.10	11.7	11.7
60	Sunshine Canyon	U	Hydrogen sulfide	78.0	82.1	82.1

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
12	BKK Landfill	Y	i-Propyl mercaptan	1.80	4.04	4.60
12	BKK Landfill	Y	i-Propyl mercaptan	1.60	3.53	
12	BKK Landfill	Y	i-Propyl mercaptan	1.70	3.67	
12	BKK Landfill	Y	i-Propyl mercaptan	1.70	3.66	
12	BKK Landfill	Y	i-Propyl mercaptan	1.90	4.03	
12	BKK Landfill	Y	i-Propyl mercaptan	2.50	7.23	
12	BKK Landfill	Y	i-Propyl mercaptan	2.30	5.01	
12	BKK Landfill	Y	i-Propyl mercaptan	2.40	5.14	
12	BKK Landfill	Y	i-Propyl mercaptan	2.30	5.12	
41	Guadalupe	U	Isooctanol	7.20	8.62	8.62
103	Fresh Kills Landfill	U	Mercury (total)	0.00149	0.00149	0.00149
94	Landfill A	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill B	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill C	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill D	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill E	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill F	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill G	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill H	U	Mercury (total)	0.000134	0.000134	0.000134
94	Landfill I	U	Mercury (total)	0.000134	0.000134	0.000134
95	Landfill A	U	Mercury (total)	0.000545	0.000545	0.000545
95	Landfill B	U	Mercury (total)	0.000246	0.000246	0.000246
95	Landfill C	U	Mercury (total)	0.00004	0.00004	0.00004
97	Mountaingate Landfill	U	Mercury (total)	0.000013	0.000013	0.000013
41	Guadalupe	U	Methyl cyclohexane	26.0	31.1	31.1
43	CB110	U	Methyl ethyl ketone	5.00	5.10	5.10
43	CB111	U	Methyl ethyl ketone	4.95	5.01	5.01
43	CB112	U	Methyl ethyl ketone	12.0	13.2	13.2
43	CB114	U	Methyl ethyl ketone	1.48	1.50	1.50
43	CB115	U	Methyl ethyl ketone	3.75	3.79	3.79
43	CB118	U	Methyl ethyl ketone	7.67	7.83	7.83
43	CB120	U	Methyl ethyl ketone	11.0	11.1	11.1
43	CB122	U	Methyl ethyl ketone	31.3	31.6	31.6
43	CB123	U	Methyl ethyl ketone	5.50	5.84	5.84
43	CB124	Y	Methyl ethyl ketone	18.8	19.0	19.0
43	CB126	U	Methyl ethyl ketone	6.00	6.03	6.03
43	CB127	U	Methyl ethyl ketone	5.00	5.04	5.04
43	CB13	U	Methyl ethyl ketone	1.60	1.60	1.60
43	CB131	U	Methyl ethyl ketone	21.0	21.0	21.0
43	CB132	U	Methyl ethyl ketone	3.65	3.67	3.67
43	CB133	U	Methyl ethyl ketone	6.33	6.34	6.34
43	CB15	U	Methyl ethyl ketone	20.0	20.2	20.2
43	CB16	U	Methyl ethyl ketone	4.70	4.73	4.73
43	CB17	U	Methyl ethyl ketone	57.5	58.9	58.9
43	CB19	U	Methyl ethyl ketone	15.0	15.2	15.2
43	CB19	U	Methyl ethyl ketone	13.6	16.3	16.3
41	Guadalupe	U	Methyl ethyl ketone	10.8	14.4	14.4
59	Rockingham	U	Methyl isobutyl ketone	1.15	1.16	1.16
43	CB111	U	Methyl isobutyl ketone	0.50	0.55	0.55
43	CB112	U	Methyl isobutyl ketone	0.45	0.45	0.45
43	CB115	U	Methyl isobutyl ketone	2.50	2.55	2.55
43	CB118	U	Methyl isobutyl ketone	4.00	4.02	4.02
43	CB120	U	Methyl isobutyl ketone	3.33	3.36	3.36
43	CB122	U	Methyl isobutyl ketone	1.00	1.06	1.06
43	CB123	U	Methyl isobutyl ketone	5.00	5.08	5.08
43	CB124	Y	Methyl isobutyl ketone	1.00	1.01	1.01
43	CB127	U	Methyl isobutyl ketone	0.70	0.70	0.70
43	CB13	U	Methyl isobutyl ketone	1.00	1.00	1.00
43	CB131	U	Methyl isobutyl ketone	3.33	3.34	3.34
43	CB133	U	Methyl isobutyl ketone	6.50	6.57	6.57
43	CB15	U	Methyl isobutyl ketone	11.50	11.78	11.78
43	CB17	U	Methyl isobutyl ketone	1.20	1.21	1.21
43	CB19	U	Methyl isobutyl ketone	0.29	0.30	0.30
54	Arbor Hills	U	Methyl mercaptan	0.73	0.74	0.74
54	Arbor Hills	U	Methyl mercaptan	0.51	0.54	0.54

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
15	Azusa Land Reclamation	U	Methyl mercaptan	12.0	12.5	9.67
15	Azusa Land Reclamation	U	Methyl mercaptan	11.0	11.5	
15	Azusa Land Reclamation	U	Methyl mercaptan	10.0	10.4	
15	Azusa Land Reclamation	U	Methyl mercaptan	10.0	10.4	
15	Azusa Land Reclamation	U	Methyl mercaptan	10.0	10.4	
15	Azusa Land Reclamation	U	Methyl mercaptan	11.0	11.5	
15	Azusa Land Reclamation	U	Methyl mercaptan	0.88	0.92	4.60
12	BKK Landfill	Y	Methyl mercaptan	2.50	5.61	
12	BKK Landfill	Y	Methyl mercaptan	2.10	4.64	
12	BKK Landfill	Y	Methyl mercaptan	2.40	5.18	
12	BKK Landfill	Y	Methyl mercaptan	1.30	2.80	
12	BKK Landfill	Y	Methyl mercaptan	1.60	3.40	
12	BKK Landfill	Y	Methyl mercaptan	2.10	6.07	
12	BKK Landfill	Y	Methyl mercaptan	2.00	4.36	
12	BKK Landfill	Y	Methyl mercaptan	2.20	4.71	
12	BKK Landfill	Y	Methyl mercaptan	2.10	4.68	
6	Bradley Pit	U	Methyl mercaptan	2.20	3.01	3.01
56	Coyote Canyon	U	Methyl mercaptan	1.80	2.40	2.40
24	Puente Hills	N	Methyl mercaptan	1.10	1.60	1.30
24	Puente Hills	N	Methyl mercaptan	0.90	1.29	
24	Puente Hills	N	Methyl mercaptan	1.30	1.81	
24	Puente Hills	N	Methyl mercaptan	1.30	1.80	
50	Puente Hills	N	Methyl mercaptan	0.0014	0.0017	
60	Sunshine Canyon	U	Methyl mercaptan	12.0	12.6	12.6
41	Guadalupe	U	Methylester acetic acid	5.10	6.11	6.11
41	Guadalupe	U	Methylester butanoic acid	49.6	59.4	59.4
54	Arbor Hills	U	NMOC (as hexane)	1435	1469	1539
54	Arbor Hills	U	NMOC (as hexane)	1833	1850	
54	Arbor Hills	U	NMOC (as hexane)	1348	1374	
12	BKK Landfill	Y	NMOC (as hexane)	3133	6902	4533
12	BKK Landfill	Y	NMOC (as hexane)	1408	3306	
12	BKK Landfill	Y	NMOC (as hexane)	1543	3392	
6	Bradley Pit	U	NMOC (as hexane)	518	704	780
6	Bradley Pit	U	NMOC (as hexane)	757	947	
17	Bradley Pit	U	NMOC (as hexane)	335	419	
17	Bradley Pit	U	NMOC (as hexane)	407	509	
17	Bradley Pit	U	NMOC (as hexane)	848	1268	
17	Bradley Pit	U	NMOC (as hexane)	833	1282	
17	Bradley Pit	U	NMOC (as hexane)	735	910	
17	Bradley Pit	U	NMOC (as hexane)	705	851	
19	Bradley Pit	U	NMOC (as hexane)	202	306	
19	Bradley Pit	U	NMOC (as hexane)	555	707	
19	Bradley Pit	U	NMOC (as hexane)	723	932	
19	Bradley Pit	U	NMOC (as hexane)	717	889	
41	Bradley Pit	U	NMHC (as hexane)	285	412	940
26	CA	N	NMHC (as hexane)	162	183	183
26	CA	U	NMOC (as hexane)	912	1586	1586
7	Calabasas	Y	NMOC (as hexane)	1372	2432	2439
7	Calabasas	Y	NMOC (as hexane)	1247	2296	
7	Calabasas	Y	NMOC (as hexane)	1435	2590	
13	Carson	U	NMOC (as hexane)	342	457	712
13	Carson	U	NMOC (as hexane)	305	420	
13	Carson	U	NMOC (as hexane)	600	1261	
26	FL	U	NMHC (as hexane)	314	319	319
26	IL	U	NMHC (as hexane)	210	234	234
10	Mission Canyon	N	NMOC (as hexane)	26	105	105
5	Mountaingate	N	NMOC (as hexane)	88	254	245
5	Mountaingate	N	NMOC (as hexane)	70	202	
5	Mountaingate	N	NMOC (as hexane)	102	293	
5	Mountaingate	N	NMOC (as hexane)	80	230	
26	PA	Y	NMHC (as hexane)	411	459	459
22	Palos Verdes	Y	NMOC (as hexane)	475	2420	4337
22	Palos Verdes	Y	NMOC (as hexane)	562	2065	
22	Palos Verdes	Y	NMOC (as hexane)	190	731	
22	Palos Verdes	Y	NMOC (as hexane)	197	771	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
22	Palos Verdes	Y	NMOC (as hexane)	210	787	
51	Palos Verdes	Y	NMOC (as hexane)	8567	21910	
51	Palos Verdes	Y	NMOC (as hexane)	527	1677	
20	Penrose	U	NMOC (as hexane)	130	167	273
20	Penrose	U	NMOC (as hexane)	147	185	
20	Penrose	U	NMOC (as hexane)	177	304	
20	Penrose	U	NMOC (as hexane)	322	548	
20	Penrose	U	NMOC (as hexane)	99	240	
20	Penrose	U	NMOC (as hexane)	102	241	
20	Penrose	U	NMOC (as hexane)	117	233	
20	Penrose	U	NMOC (as hexane)	138	268	
61	Pinelands	U	NMOC (as hexane)	145	166	166
18	Puente Hills	N	NMOC (as hexane)	322	418	957
18	Puente Hills	N	NMOC (as hexane)	368	496	
18	Puente Hills	N	NMOC (as hexane)	342	456	
18	Puente Hills	N	NMOC (as hexane)	308	408	
24	Puente Hills	N	NMOC (as hexane)	1077	1565	
24	Puente Hills	N	NMOC (as hexane)	1035	1485	
24	Puente Hills	N	NMOC (as hexane)	852	1176	
24	Puente Hills	N	NMOC (as hexane)	903	1255	
24	Puente Hills	N	NMOC (as hexane)	1118	1355	
50	Puente Hills	N	NMOC (as hexane)	129	172	172
59	Rockingham	U	NMOC (as hexane)	397	593	880
1	Scholl Canyon	N	TGNMHC (hexane)	672	1166	
1	Scholl Canyon	N	TGNMHC (hexane)	480	621	364
9	Sheldon Street	U	NMOC (as hexane)	292	388	
9	Sheldon Street	U	NMOC (as hexane)	113	315	
9	Sheldon Street	U	NMOC (as hexane)	497	133	
60	Sunshine Canyon	U	NMOC (as hexane)	733	772	772
23	Toyon Canyon	N	TGNMHC (hexane)	527	571	491
23	Toyon Canyon	N	TGNMHC (hexane)	455	485	
26	WI	Y	Pentane	296	348	348
43	CB111	U	Pentane	325	329	329
43	CB113	U	Pentane	0.58	0.70	0.70
43	CB114	U	Pentane	11.1	11.2	11.2
43	CB116	Y	Pentane	1.20	1.22	1.22
43	CB117	U	Pentane	0.50	0.51	0.51
43	CB118	U	Pentane	3.83	3.91	3.91
43	CB119	U	Pentane	1.00	1.00	1.00
43	CB124	Y	Pentane	0.39	0.40	0.40
43	CB126	U	Pentane	0.50	0.50	0.50
43	CB127	U	Pentane	46.5	46.9	46.9
43	CB130	U	Pentane	3.96	4.00	4.00
43	CB132	U	Pentane	9.00	9.05	9.05
43	CB133	U	Pentane	1.10	1.10	1.10
43	CB15	U	Pentane	17.6	17.8	17.8
43	CB16	U	Pentane	18.0	18.1	18.1
43	CB18	U	Pentane	0.67	0.68	0.68
43	CB19	U	Pentane	45.0	45.5	45.5
53	Allamont	U	Pentane	2.30	2.77	2.61
53	Allamont	U	Perchloroethylene	2.10	2.44	7.63
54	Arbor Hills	U	Perchloroethylene	7.74	7.92	
54	Arbor Hills	U	Perchloroethylene	7.78	7.85	
54	Arbor Hills	U	Perchloroethylene	6.98	7.12	
15	Azusa Land Reclamation	U	Perchloroethylene	3.50	3.65	2.68
15	Azusa Land Reclamation	U	Perchloroethylene	3.60	3.75	
15	Azusa Land Reclamation	U	Perchloroethylene	3.90	4.07	
15	Azusa Land Reclamation	U	Perchloroethylene	1.90	1.98	
15	Azusa Land Reclamation	U	Perchloroethylene	2.30	2.40	
15	Azusa Land Reclamation	U	Perchloroethylene	2.90	3.02	
15	Azusa Land Reclamation	U	Perchloroethylene	0.33	0.34	
15	Azusa Land Reclamation	U	Perchloroethylene	1.40	1.46	
15	Azusa Land Reclamation	U	Perchloroethylene	3.30	3.44	
12	BKK Landfill	Y	Perchloroethylene	24.0	52.9	64.5
12	BKK Landfill	Y	Perchloroethylene	14.0	32.9	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
12	BKK Landfill	Y	Perchloroethylene	49.0	108	
17	Bradley Pit	U	Perchloroethylene	16.0	19.8	10.4
17	Bradley Pit	U	Perchloroethylene	14.0	21.5	
17	Bradley Pit	U	Perchloroethylene	16.0	23.9	
17	Bradley Pit	U	Perchloroethylene	16.0	19.3	
17	Bradley Pit	U	Perchloroethylene	6.00	7.51	
17	Bradley Pit	U	Perchloroethylene	7.80	9.76	
19	Bradley Pit	U	Perchloroethylene	6.20	7.69	
19	Bradley Pit	U	Perchloroethylene	7.30	9.30	
19	Bradley Pit	U	Perchloroethylene	3.80	5.77	
19	Bradley Pit	U	Perchloroethylene	6.50	8.38	
41	Bradley Pit	U	Perchloroethylene	0.08	0.11	
6	Bradley Pit	U	Perchloroethylene	2.10	2.85	
6	Bradley Pit	U	Perchloroethylene	5.80	7.26	
6	Bradley Pit	U	Perchloroethylene	1.40	1.92	
7	Calabasas	Y	Perchloroethylene	6.60	10.1	29.2
7	Calabasas	Y	Perchloroethylene	25.0	45.1	
7	Calabasas	Y	Perchloroethylene	18.0	32.5	
13	Carson	U	Perchloroethylene	0.039	0.082	0.055
13	Carson	U	Perchloroethylene	0.028	0.039	
13	Carson	U	Perchloroethylene	0.033	0.044	
43	CB11	U	Perchloroethylene	4.75	4.88	4.88
43	CB110	U	Perchloroethylene	4.60	4.69	4.69
43	CB111	U	Perchloroethylene	12.0	12.1	12.1
43	CB112	U	Perchloroethylene	2.40	2.64	2.64
43	CB113	U	Perchloroethylene	0.74	0.90	0.90
43	CB114	U	Perchloroethylene	14.9	15.1	15.1
43	CB115	U	Perchloroethylene	0.23	0.23	0.23
43	CB116	Y	Perchloroethylene	0.30	0.30	0.30
43	CB117	U	Perchloroethylene	0.90	0.91	0.91
43	CB118	U	Perchloroethylene	5.63	5.74	5.74
43	CB119	U	Perchloroethylene	0.25	0.25	0.25
43	CB12	U	Perchloroethylene	0.40	0.40	0.40
43	CB120	U	Perchloroethylene	12.3	12.3	12.3
43	CB121	U	Perchloroethylene	7.10	7.16	7.16
43	CB122	U	Perchloroethylene	3.70	3.73	3.73
43	CB123	U	Perchloroethylene	11.0	11.7	11.7
43	CB124	Y	Perchloroethylene	12.6	12.8	12.8
43	CB125	U	Perchloroethylene	8.20	8.27	8.27
43	CB126	U	Perchloroethylene	0.40	0.40	0.40
43	CB127	U	Perchloroethylene	2.63	2.65	2.65
43	CB13	U	Perchloroethylene	0.10	0.10	0.10
43	CB130	U	Perchloroethylene	6.82	6.88	6.88
43	CB131	U	Perchloroethylene	3.80	3.81	3.81
43	CB132	U	Perchloroethylene	1.00	1.01	1.01
43	CB133	U	Perchloroethylene	1.53	1.53	1.53
43	CB14	U	Perchloroethylene	12.1	12.7	12.7
43	CB15	U	Perchloroethylene	10.5	10.6	10.6
43	CB16	U	Perchloroethylene	0.95	0.96	0.96
43	CB17	U	Perchloroethylene	7.75	7.94	7.94
43	CB18	U	Perchloroethylene	65.0	65.5	65.5
43	CB19	U	Perchloroethylene	9.30	9.39	9.39
55	Chicopee	U	Perchloroethylene	1.59	2.04	2.04
56	Coyote Canyon	U	Perchloroethylene	5.31	7.07	8.75
56	Coyote Canyon	U	Perchloroethylene	5.12	6.82	
56	Coyote Canyon	U	Perchloroethylene	4.73	6.30	
56	Coyote Canyon	U	Perchloroethylene	4.86	7.20	
56	Coyote Canyon	U	Perchloroethylene	7.91	11.53	
56	Coyote Canyon	U	Perchloroethylene	9.18	13.6	
57	Durham Rd.	U	Perchloroethylene	7.60	10.0	10.2
57	Durham Rd.	U	Perchloroethylene	8.20	9.88	
57	Durham Rd.	U	Perchloroethylene	9.10	10.8	
41	Guadalupe	U	Perchloroethylene	54.4	65.1	65.1
27	Lyon Development	U	Perchloroethylene	2.90	3.41	2.90
27	Lyon Development	U	Perchloroethylene	4.40	5.24	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
27	Lyon Development	U	Perchloroethylene	0.040	0.040	
10	Mission Canyon	N	Perchloroethylene	0.0026	0.011	0.01
5	Mountaingate	N	Perchloroethylene	1.00	2.89	2.89
5	Mountaingate	N	Perchloroethylene	1.10	3.18	3.18
5	Mountaingate	N	Perchloroethylene	0.91	2.61	2.61
5	Mountaingate	N	Perchloroethylene	1.10	3.16	3.16
8	Operating Industries	U	Perchloroethylene	0.27	0.54	0.54
58	Otay Annex	U	Perchloroethylene	2.94	3.18	3.18
84	Otay Landfill	Y	Perchloroethylene	3.47	4.71	4.71
22	Palos Verdes	Y	Perchloroethylene	0.16	0.70	2.60
22	Palos Verdes	Y	Perchloroethylene	0.42	1.83	
22	Palos Verdes	Y	Perchloroethylene	0.22	0.96	
22	Palos Verdes	Y	Perchloroethylene	0.34	1.48	
22	Palos Verdes	Y	Perchloroethylene	0.69	3.01	
22	Palos Verdes	Y	Perchloroethylene	0.49	2.14	
22	Palos Verdes	Y	Perchloroethylene	0.34	1.48	
22	Palos Verdes	Y	Perchloroethylene	0.15	0.65	
22	Palos Verdes	Y	Perchloroethylene	0.42	1.83	
22	Palos Verdes	Y	Perchloroethylene	0.57	2.49	
22	Palos Verdes	Y	Perchloroethylene	0.09	0.41	
22	Palos Verdes	Y	Perchloroethylene	0.52	2.27	
22	Palos Verdes	Y	Perchloroethylene	3.40	10.8	
51	Palos Verdes	Y	Perchloroethylene	2.50	6.39	
51	Palos Verdes	Y	Perchloroethylene	1.50	1.92	2.79
20	Penrose	U	Perchloroethylene	1.60	2.02	
20	Penrose	U	Perchloroethylene	3.00	5.16	
20	Penrose	U	Perchloroethylene	3.20	5.45	
20	Penrose	U	Perchloroethylene	0.91	2.21	
20	Penrose	U	Perchloroethylene	0.97	2.29	
20	Penrose	U	Perchloroethylene	0.64	1.27	
20	Penrose	U	Perchloroethylene	1.00	1.95	
18	Puente Hills	N	Perchloroethylene	7.90	10.3	24.25
18	Puente Hills	N	Perchloroethylene	8.50	11.5	
18	Puente Hills	N	Perchloroethylene	7.40	9.87	
18	Puente Hills	N	Perchloroethylene	5.90	7.81	
24	Puente Hills	N	Perchloroethylene	8.80	12.7	
24	Puente Hills	N	Perchloroethylene	0.94	1.30	
50	Puente Hills	N	Perchloroethylene	96.0	116	12.0
59	Rockingham	U	Perchloroethylene	9.00	12.0	
1	Scholl Canyon	N	Perchloroethylene	2.80	4.49	4.65
1	Scholl Canyon	N	Perchloroethylene	2.10	4.81	
9	Sheldon Street	U	Perchloroethylene	0.02	0.03	2.09
9	Sheldon Street	U	Perchloroethylene	4.10	8.16	
9	Sheldon Street	U	Perchloroethylene	0.04	0.08	
9	Sheldon Street	U	Perchloroethylene	0.04	0.08	
60	Sunshine Canyon	U	Perchloroethylene	13.0	13.7	13.7
23	Toyon Canyon	N	Perchloroethylene	0.98	1.05	1.05
43	CB111	U	Propane	86.5	87.5	87.5
43	CB113	U	Propane	9.76	11.8	11.8
43	CB114	U	Propane	48.8	49.4	49.4
43	CB116	Y	Propane	5.20	5.28	5.28
43	CB117	U	Propane	7.00	7.07	7.07
43	CB118	U	Propane	4.67	4.77	4.77
43	CB119	U	Propane	6.50	6.53	6.53
43	CB124	Y	Propane	4.26	4.33	4.33
43	CB125	U	Propane	18.2	18.3	18.3
43	CB126	U	Propane	11.0	11.1	11.1
43	CB127	U	Propane	1.40	1.41	1.41
43	CB130	U	Propane	13.1	13.2	13.2
43	CB132	U	Propane	6.50	6.53	6.53
43	CB133	U	Propane	0.63	0.63	0.63
43	CB134	U	Propane	2.50	2.51	2.51
43	CB14	U	Propane	43.6	45.8	45.8
43	CB15	U	Propane	32.0	32.3	32.3
43	CB16	U	Propane	36.5	36.8	36.8

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB18	U	Propane	25.3	25.5	25.5
43	CB19	U	Propane	68.0	68.7	68.7
41	Guadalupe	U	Propane	4.60	5.51	5.51
60	Sunshine Canyon	U	Propyl mercaptan	0.25	0.26	0.26
41	Guadalupe	U	Propylester acetic acid	34.0	40.7	40.7
41	Guadalupe	U	Propylester butanoic acid	86.6	104	104
19	Bradley Pit	U	t-1,2-Dichloroethene	12.0	15.5	7.89
19	Bradley Pit	U	t-1,2-Dichloroethene	9.30	11.8	
19	Bradley Pit	U	t-1,2-Dichloroethene	2.40	3.64	
19	Bradley Pit	U	t-1,2-Dichloroethene	11.0	13.6	
6	Bradley Pit	U	t-1,2-Dichloroethene	1.30	1.78	
6	Bradley Pit	U	t-1,2-Dichloroethene	0.60	0.82	
6	Bradley Pit	U	t-1,2-Dichloroethene	6.40	8.01	
7	Calabasas	Y	t-1,2-Dichloroethene	52.0	93.9	93.9
43	CB110	U	t-1,2-Dichloroethene	6.20	6.32	6.32
43	CB111	U	t-1,2-Dichloroethene	18.5	18.7	18.7
43	CB112	U	t-1,2-Dichloroethene	5.27	5.81	5.81
43	CB113	U	t-1,2-Dichloroethene	0.13	0.16	0.16
43	CB114	U	t-1,2-Dichloroethene	8.58	8.68	8.68
43	CB115	U	t-1,2-Dichloroethene	0.83	0.84	0.84
43	CB117	U	t-1,2-Dichloroethene	1.65	1.67	1.67
43	CB118	U	t-1,2-Dichloroethene	7.82	7.98	7.98
43	CB119	U	t-1,2-Dichloroethene	0.30	0.30	0.30
43	CB12	U	t-1,2-Dichloroethene	0.25	0.25	0.25
43	CB120	U	t-1,2-Dichloroethene	5.45	5.48	5.48
43	CB121	U	t-1,2-Dichloroethene	2.78	2.80	2.80
43	CB122	U	t-1,2-Dichloroethene	6.23	6.29	6.29
43	CB123	U	t-1,2-Dichloroethene	13.00	13.80	13.8
43	CB124	Y	t-1,2-Dichloroethene	4.55	4.62	4.62
43	CB126	U	t-1,2-Dichloroethene	0.50	0.50	0.50
43	CB127	U	t-1,2-Dichloroethene	3.93	3.96	3.96
43	CB128	U	t-1,2-Dichloroethene	1.20	1.20	1.20
43	CB129	U	t-1,2-Dichloroethene	11.49	12.16	12.2
43	CB13	U	t-1,2-Dichloroethene	0.60	0.60	0.60
43	CB130	U	t-1,2-Dichloroethene	0.11	0.11	0.11
43	CB131	U	t-1,2-Dichloroethene	8.80	8.82	8.82
43	CB132	U	t-1,2-Dichloroethene	1.20	1.21	1.21
43	CB133	U	t-1,2-Dichloroethene	2.87	2.88	2.88
43	CB134	U	t-1,2-Dichloroethene	0.50	0.50	0.50
43	CB15	U	t-1,2-Dichloroethene	7.35	7.42	7.42
43	CB16	U	t-1,2-Dichloroethene	0.90	0.91	0.91
43	CB17	U	t-1,2-Dichloroethene	1.35	1.38	1.38
43	CB18	U	t-1,2-Dichloroethene	1.30	1.31	1.31
43	CB19	U	t-1,2-Dichloroethene	0.90	0.91	0.91
27	Lyon Development	U	t-1,2-Dichloroethene	0.20	0.24	0.26
27	Lyon Development	U	t-1,2-Dichloroethene	0.41	0.49	
27	Lyon Development	U	t-1,2-Dichloroethene	0.060	0.060	0.23
5	Mountaingate	N	t-1,2-Dichloroethene	0.080	0.23	
5	Mountaingate	N	t-1,2-Dichloroethene	0.080	0.23	
5	Mountaingate	N	t-1,2-Dichloroethene	0.080	0.23	
5	Mountaingate	N	t-1,2-Dichloroethene	0.080	0.23	
20	Penrose	U	t-1,2-Dichloroethene	1.50	1.92	2.90
20	Penrose	U	t-1,2-Dichloroethene	1.50	1.90	
20	Penrose	U	t-1,2-Dichloroethene	1.50	2.58	
20	Penrose	U	t-1,2-Dichloroethene	1.50	2.56	
20	Penrose	U	t-1,2-Dichloroethene	1.50	3.65	
20	Penrose	U	t-1,2-Dichloroethene	1.50	3.55	
20	Penrose	U	t-1,2-Dichloroethene	1.80	3.58	
20	Penrose	U	t-1,2-Dichloroethene	1.80	3.51	
18	Puente Hills	N	t-1,2-Dichloroethene	17.0	22.1	22.5
18	Puente Hills	N	t-1,2-Dichloroethene	17.0	22.9	
18	Puente Hills	N	t-1,2-Dichloroethene	17.0	22.7	
18	Puente Hills	N	t-1,2-Dichloroethene	17.0	22.5	
41	Guadalupe	U	Tetrahydrofuran	3.40	4.07	4.07
41	Guadalupe	U	Thiobismethane	10.6	12.7	12.7

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
54	Arbor Hills	U	Toluene	69.5	71.1	70.1
54	Arbor Hills	U	Toluene	69.7	70.3	
54	Arbor Hills	U	Toluene	67.6	68.9	
15	Azusa Land Reclamation	U	Toluene	21.0	21.9	38.1
15	Azusa Land Reclamation	U	Toluene	45.0	46.9	
15	Azusa Land Reclamation	U	Toluene	29.0	30.2	
15	Azusa Land Reclamation	U	Toluene	32.0	33.4	
15	Azusa Land Reclamation	U	Toluene	53.0	55.3	
15	Azusa Land Reclamation	U	Toluene	46.0	48.0	
15	Azusa Land Reclamation	U	Toluene	44.0	45.9	
15	Azusa Land Reclamation	U	Toluene	28.0	29.2	
15	Azusa Land Reclamation	U	Toluene	31.0	32.3	
12	BKK Landfill	Y	Toluene	180	396	380
12	BKK Landfill	Y	Toluene	130	305	
12	BKK Landfill	Y	Toluene	200	440	
17	Bradley Pit	U	Toluene	34.0	50.8	26.3
17	Bradley Pit	U	Toluene	30.0	46.2	
17	Bradley Pit	U	Toluene	15.0	18.8	
17	Bradley Pit	U	Toluene	14.0	17.5	
17	Bradley Pit	U	Toluene	24.0	29.7	
17	Bradley Pit	U	Toluene	24.0	29.0	
41	Bradley Pit	U	Toluene	4.50	6.50	
6	Bradley Pit	U	Toluene	5.80	7.95	
6	Bradley Pit	U	Toluene	26.0	32.5	
6	Bradley Pit	U	Toluene	18.0	24.5	
7	Calabasas	Y	Toluene	196	299	256
7	Calabasas	Y	Toluene	110	199	
7	Calabasas	Y	Toluene	150	271	
13	Carson	U	Toluene	24.0	50.4	30.4
13	Carson	U	Toluene	14.0	19.3	
13	Carson	U	Toluene	16.0	21.4	
43	CB11	U	Toluene	70.8	72.8	72.8
43	CB110	U	Toluene	31.5	32.1	32.1
43	CB111	U	Toluene	40.0	40.4	40.4
43	CB112	U	Toluene	28.2	31.1	31.1
43	CB113	U	Toluene	35.5	43.0	43.0
43	CB114	U	Toluene	60.9	61.6	61.6
43	CB115	U	Toluene	1.45	1.46	1.46
43	CB116	Y	Toluene	17.2	17.5	17.5
43	CB117	U	Toluene	3.00	3.03	3.03
43	CB118	U	Toluene	77.2	78.7	78.7
43	CB119	U	Toluene	2.10	2.11	2.11
43	CB12	U	Toluene	2.50	2.52	2.52
43	CB120	U	Toluene	47.5	47.8	47.8
43	CB121	U	Toluene	19.4	19.5	19.5
43	CB122	U	Toluene	23.3	23.5	23.5
43	CB123	U	Toluene	37.0	39.3	39.3
43	CB124	Y	Toluene	125	127	127
43	CB125	U	Toluene	221	223	223
43	CB126	U	Toluene	5.85	5.88	5.88
43	CB127	U	Toluene	13.9	14.0	14.0
43	CB128	U	Toluene	1.05	1.05	1.05
43	CB129	U	Toluene	347	367	367
43	CB13	U	Toluene	19.0	19.0	19.0
43	CB130	U	Toluene	123	124	124
43	CB131	U	Toluene	53.0	53.1	53.1
43	CB132	U	Toluene	12.7	12.8	12.8
43	CB133	U	Toluene	27.2	27.3	27.3
43	CB134	U	Toluene	0.85	0.85	0.85
43	CB14	U	Toluene	37.9	39.8	39.8
43	CB15	U	Toluene	43.5	43.9	43.9
43	CB16	U	Toluene	10.1	10.1	10.1
43	CB17	U	Toluene	68.5	70.2	70.2
43	CB18	U	Toluene	51.0	51.4	51.4
43	CB19	U	Toluene	30.0	30.3	30.3

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
55	Chicopee	U	Toluene	119	153	153
56	Coyote Canyon	U	Toluene	57.5	76.6	84.7
56	Coyote Canyon	U	Toluene	59.8	79.6	
56	Coyote Canyon	U	Toluene	59.3	79.0	
56	Coyote Canyon	U	Toluene	60.4	89.5	
56	Coyote Canyon	U	Toluene	59.8	87.2	
56	Coyote Canyon	U	Toluene	65.2	96.4	
41	Guadalupe	U	Toluene	160	192	192
27	Lyon Development	U	Toluene	32.0	37.6	21.8
27	Lyon Development	U	Toluene	23.0	27.4	
27	Lyon Development	U	Toluene	0.40	0.40	
10	Mission Canyon	N	Toluene	0.05	0.20	0.20
5	Mountaingate	N	Toluene	1.90	5.49	6.27
5	Mountaingate	N	Toluene	1.80	5.20	
5	Mountaingate	N	Toluene	1.90	5.46	
5	Mountaingate	N	Toluene	3.10	8.91	
8	Operating Industries	U	Toluene	56	112	112
22	Palos Verdes	Y	Toluene	1.00	4.36	44.5
22	Palos Verdes	Y	Toluene	9.50	41.4	
22	Palos Verdes	Y	Toluene	1.00	4.36	
22	Palos Verdes	Y	Toluene	4.30	18.7	
22	Palos Verdes	Y	Toluene	1.10	4.80	
22	Palos Verdes	Y	Toluene	5.50	24.0	
22	Palos Verdes	Y	Toluene	12.0	52.3	
22	Palos Verdes	Y	Toluene	19.0	82.8	
22	Palos Verdes	Y	Toluene	3.90	17.0	
22	Palos Verdes	Y	Toluene	9.50	41.4	
22	Palos Verdes	Y	Toluene	1.00	4.36	
22	Palos Verdes	Y	Toluene	19.0	82.8	
51	Palos Verdes	Y	Toluene	22.0	70.1	49.8
51	Palos Verdes	Y	Toluene	68.0	174	
20	Penrose	U	Toluene	22.0	28.2	
20	Penrose	U	Toluene	21.0	26.5	
20	Penrose	U	Toluene	42.0	72.3	
20	Penrose	U	Toluene	68.0	116	
20	Penrose	U	Toluene	14.0	34.1	
20	Penrose	U	Toluene	15.0	35.5	
20	Penrose	U	Toluene	16.0	31.8	
20	Penrose	U	Toluene	28.0	54.6	
20	Penrose	U	Toluene	180	234	212
18	Puente Hills	N	Toluene	190	256	
18	Puente Hills	N	Toluene	240	320	
18	Puente Hills	N	Toluene	230	305	
24	Puente Hills	N	Toluene	57.5	83.0	
24	Puente Hills	N	Toluene	55.5	76.9	
50	Puente Hills	N	Toluene	100	121	121
59	Rockingham	U	Toluene	99	132	132
1	Scholl Canyon	N	Toluene	47.0	75.4	46.3
1	Scholl Canyon	N	Toluene	7.50	17.2	
9	Sheldon Street	U	Toluene	20.0	39.8	14.1
9	Sheldon Street	U	Toluene	0.54	1.07	
9	Sheldon Street	U	Toluene	3.90	7.76	
9	Sheldon Street	U	Toluene	3.90	7.76	
60	Sunshine Canyon	U	Toluene	100	105	105
23	Toyon Canyon	N	Toluene	8.40	9.03	9.03
53	Allamont	U	Trichloroethene	6.90	8.31	4.95
53	Allamont	U	Trichloroethene	3.10	3.60	
53	Allamont	U	Trichloroethene	5.00	5.92	5.92
53	Arbor Hills	U	Trichloroethene	4.37	4.47	4.24
53	Arbor Hills	U	Trichloroethene	4.14	4.18	
53	Arbor Hills	U	Trichloroethene	4.00	4.08	
53	Arbor Hills	U	Trichloroethene	4.17	4.44	4.44
15	Azusa Land Reclamation	U	Trichloroethene	4.30	4.48	3.72
15	Azusa Land Reclamation	U	Trichloroethene	3.40	3.55	
15	Azusa Land Reclamation	U	Trichloroethene	8.90	9.28	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
15	Azusa Land Reclamation	U	Trichloroethene	3.30	3.44	
15	Azusa Land Reclamation	U	Trichloroethene	3.50	3.65	
15	Azusa Land Reclamation	U	Trichloroethene	0.79	0.82	
15	Azusa Land Reclamation	U	Trichloroethene	3.60	3.75	
15	Azusa Land Reclamation	U	Trichloroethene	3.70	3.86	
15	Azusa Land Reclamation	U	Trichloroethene	0.59	0.62	
12	BKK Landfill	Y	Trichloroethene	13.0	28.6	28.7
12	BKK Landfill	Y	Trichloroethene	4.80	11.3	
12	BKK Landfill	Y	Trichloroethene	21.0	46.2	
17	Bradley Pit	U	Trichloroethene	5.90	7.30	
17	Bradley Pit	U	Trichloroethene	2.40	3.00	
17	Bradley Pit	U	Trichloroethene	1.90	2.38	
17	Bradley Pit	U	Trichloroethene	6.20	7.49	
17	Bradley Pit	U	Trichloroethene	6.50	9.72	
17	Bradley Pit	U	Trichloroethene	5.50	8.46	
19	Bradley Pit	U	Trichloroethene	4.90	6.47	
19	Bradley Pit	U	Trichloroethene	4.90	6.24	
19	Bradley Pit	U	Trichloroethene	1.60	2.43	
19	Bradley Pit	U	Trichloroethene	4.60	5.71	
6	Bradley Pit	U	Trichloroethene	5.10	6.57	
6	Bradley Pit	U	Trichloroethene	0.20	0.29	
6	Bradley Pit	U	Trichloroethene	3.70	4.63	
6	Bradley Pit	U	Trichloroethene	1.00	1.36	
7	Calabasas	Y	Trichloroethene	0.69	0.95	14.8
7	Calabasas	Y	Trichloroethene	12.0	21.7	
7	Calabasas	Y	Trichloroethene	12.0	21.7	
13	Carson	U	Trichloroethene	0.17	0.23	0.28
13	Carson	U	Trichloroethene	0.16	0.22	
13	Carson	U	Trichloroethene	0.19	0.40	
43	CB110	U	Trichloroethene	3.25	3.31	3.31
43	CB111	U	Trichloroethene	21.5	21.7	21.7
43	CB112	U	Trichloroethene	1.54	1.70	1.70
43	CB113	U	Trichloroethene	0.22	0.27	0.27
43	CB114	U	Trichloroethene	6.96	7.04	7.04
43	CB115	U	Trichloroethene	0.18	0.18	0.18
43	CB116	Y	Trichloroethene	0.30	0.30	0.30
43	CB117	U	Trichloroethene	0.40	0.40	0.40
43	CB118	U	Trichloroethene	5.23	5.34	5.34
43	CB119	U	Trichloroethene	0.15	0.15	0.15
43	CB12	U	Trichloroethene	0.20	0.20	0.20
43	CB120	U	Trichloroethene	3.75	3.77	3.77
43	CB121	U	Trichloroethene	1.38	1.39	1.39
43	CB122	U	Trichloroethene	1.63	1.64	1.64
43	CB123	U	Trichloroethene	3.10	3.29	3.29
43	CB124	Y	Trichloroethene	13.0	13.2	13.2
43	CB125	U	Trichloroethene	7.85	7.91	7.91
43	CB126	U	Trichloroethene	0.20	0.20	0.20
43	CB127	U	Trichloroethene	1.67	1.68	1.68
43	CB130	U	Trichloroethene	2.02	2.04	2.04
43	CB131	U	Trichloroethene	1.80	1.80	1.80
43	CB132	U	Trichloroethene	1.55	1.56	1.56
43	CB133	U	Trichloroethene	0.50	0.50	0.50
43	CB14	U	Trichloroethene	1.14	1.20	1.20
43	CB15	U	Trichloroethene	3.05	3.08	3.08
43	CB16	U	Trichloroethene	0.45	0.45	0.45
43	CB17	U	Trichloroethene	4.70	4.82	4.82
43	CB18	U	Trichloroethene	7.80	7.86	7.86
43	CB19	U	Trichloroethene	3.40	3.43	3.43
55	Chicopee	U	Trichloroethene	2.20	2.82	2.82
56	Coyote Canyon	U	Trichloroethene	2.38	3.17	3.64
56	Coyote Canyon	U	Trichloroethene	2.23	2.97	
56	Coyote Canyon	U	Trichloroethene	2.47	3.29	
56	Coyote Canyon	U	Trichloroethene	2.37	3.51	
56	Coyote Canyon	U	Trichloroethene	3.01	4.39	
56	Coyote Canyon	U	Trichloroethene	3.06	4.53	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
57	Durham Rd.	U	Trichloroethene	2.50	3.29	3.21
57	Durham Rd.	U	Trichloroethene	2.60	3.13	
57	Durham Rd.	U	Trichloroethene	2.70	3.21	
57	Durham Rd.	U	Trichloroethene	2.60	3.19	3.19
41	Guadalupe	U	Trichloroethene	18.7	22.4	22.4
27	Lyon Development	U	Trichloroethene	2.60	3.06	2.14
27	Lyon Development	U	Trichloroethene	2.80	3.33	
27	Lyon Development	U	Trichloroethene	0.040	0.040	
10	Mission Canyon	N	Trichloroethene	0.0062	0.026	0.026
5	Mountaingate	N	Trichloroethene	0.54	1.55	1.72
5	Mountaingate	N	Trichloroethene	0.62	1.79	
5	Mountaingate	N	Trichloroethene	0.60	1.73	
5	Mountaingate	N	Trichloroethene	0.63	1.81	
8	Operating Industries	U	Trichloroethene	1.20	2.39	2.39
58	Olay Annex	U	Trichloroethene	2.09	2.84	2.84
84	Olay Landfill	Y	Trichloroethene	3.23	3.49	3.49
22	Palos Verdes	Y	Trichloroethene	0.36	1.57	1.38
22	Palos Verdes	Y	Trichloroethene	0.29	1.26	
22	Palos Verdes	Y	Trichloroethene	0.32	1.40	
22	Palos Verdes	Y	Trichloroethene	0.31	1.35	
22	Palos Verdes	Y	Trichloroethene	0.36	1.57	
22	Palos Verdes	Y	Trichloroethene	0.28	1.22	
22	Palos Verdes	Y	Trichloroethene	0.20	0.87	
22	Palos Verdes	Y	Trichloroethene	0.19	0.83	
22	Palos Verdes	Y	Trichloroethene	0.29	1.26	
22	Palos Verdes	Y	Trichloroethene	0.15	0.65	
22	Palos Verdes	Y	Trichloroethene	0.34	1.48	
22	Palos Verdes	Y	Trichloroethene	0.09	0.38	
22	Palos Verdes	Y	Trichloroethene	0.91	2.33	
51	Palos Verdes	Y	Trichloroethene	0.98	3.12	1.97
20	Penrose	U	Trichloroethene	1.20	1.54	
20	Penrose	U	Trichloroethene	1.30	1.64	
20	Penrose	U	Trichloroethene	1.90	3.27	
20	Penrose	U	Trichloroethene	2.00	3.41	
20	Penrose	U	Trichloroethene	0.65	1.58	
20	Penrose	U	Trichloroethene	0.68	1.61	
20	Penrose	U	Trichloroethene	0.61	1.21	
20	Penrose	U	Trichloroethene	0.75	1.46	
18	Puente Hills	N	Trichloroethene	3.90	5.06	6.36
18	Puente Hills	N	Trichloroethene	4.30	5.80	
18	Puente Hills	N	Trichloroethene	4.30	5.73	
18	Puente Hills	N	Trichloroethene	3.60	4.77	
24	Puente Hills	N	Trichloroethene	4.40	6.35	
24	Puente Hills	N	Trichloroethene	0.75	1.03	
50	Puente Hills	N	Trichloroethene	13.0	15.8	
59	Rockingham	U	Trichloroethene	5.30	7.05	7.05
1	Scholl Canyon	N	Trichloroethene	2.10	3.37	1.90
1	Scholl Canyon	N	Trichloroethene	0.19	0.43	
9	Sheldon Street	U	Trichloroethene	0.19	0.38	0.80
9	Sheldon Street	U	Trichloroethene	0.04	0.07	
9	Sheldon Street	U	Trichloroethene	0.19	0.38	
9	Sheldon Street	U	Trichloroethene	1.20	2.39	
60	Sunshine Canyon	U	Trichloroethene	2.40	2.53	2.53
23	Toyon Canyon	N	Trichloroethene	0.86	0.92	0.92
10	Mission Canyon	N	Vinyl chloride	0.05	0.22	0.22
5	Mountaingate	N	Vinyl chloride	4.40	12.6	12.5
5	Mountaingate	N	Vinyl chloride	4.40	12.7	
5	Mountaingate	N	Vinyl chloride	4.20	12.1	
5	Mountaingate	N	Vinyl chloride	4.40	12.6	
18	Puente Hills	N	Vinyl chloride	4.40	12.6	16.7
18	Puente Hills	N	Vinyl chloride	18.0	23.4	
18	Puente Hills	N	Vinyl chloride	18.0	24.3	
18	Puente Hills	N	Vinyl chloride	15.0	20.0	
24	Puente Hills	N	Vinyl chloride	14.0	18.5	
24	Puente Hills	N	Vinyl chloride	6.80	9.81	
24	Puente Hills	N	Vinyl chloride	6.70	9.28	

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
50	Puente Hills	N	Vinyl chloride	9.40	11.4	
1	Scholl Canyon	N	Vinyl chloride	6.70	10.8	10.1
1	Scholl Canyon	N	Vinyl chloride	4.10	9.38	
23	Toyon Canyon	N	Vinyl chloride	0.12	0.13	0.13
53	Altamont	U	Vinyl Chloride	55.0	66.3	52.3
53	Altamont	U	Vinyl Chloride	33.0	38.4	
54	Arbor Hills	U	Vinyl Chloride	6.58	6.73	6.70
54	Arbor Hills	U	Vinyl Chloride	6.58	6.64	
54	Arbor Hills	U	Vinyl Chloride	6.61	6.74	
15	Azusa Land Reclamation	U	Vinyl chloride	2.80	2.92	2.25
15	Azusa Land Reclamation	U	Vinyl chloride	2.90	3.02	
15	Azusa Land Reclamation	U	Vinyl chloride	2.80	2.92	
15	Azusa Land Reclamation	U	Vinyl chloride	0.00	0.00	
15	Azusa Land Reclamation	U	Vinyl chloride	2.80	2.92	
15	Azusa Land Reclamation	U	Vinyl chloride	1.10	1.15	
15	Azusa Land Reclamation	U	Vinyl chloride	1.10	1.15	
15	Azusa Land Reclamation	U	Vinyl chloride	2.50	2.61	
15	Azusa Land Reclamation	U	Vinyl chloride	2.80	2.92	
15	Azusa Land Reclamation	U	Vinyl chloride	2.80	2.92	
17	Bradley Pit	U	Vinyl chloride	13.00	17.13	12.44
17	Bradley Pit	U	Vinyl chloride	2.30	3.03	
17	Bradley Pit	U	Vinyl chloride	11.00	14.49	
17	Bradley Pit	U	Vinyl chloride	11.00	14.49	
17	Bradley Pit	U	Vinyl chloride	4.00	5.27	
17	Bradley Pit	U	Vinyl chloride	4.00	5.27	
17	Bradley Pit	U	Vinyl chloride	13.00	17.13	
17	Bradley Pit	U	Vinyl chloride	11.00	14.49	
17	Bradley Pit	U	Vinyl chloride	13.00	17.13	
19	Bradley Pit	U	Vinyl chloride	20.0	25.5	
19	Bradley Pit	U	Vinyl chloride	3.40	5.16	
19	Bradley Pit	U	Vinyl chloride	13.0	16.1	
19	Bradley Pit	U	Vinyl chloride	11.0	14.2	
6	Bradley Pit	U	Vinyl chloride	0.80	1.16	
6	Bradley Pit	U	Vinyl chloride	22.0	27.5	
6	Bradley Pit	U	Vinyl chloride	5.00	6.79	
6	Bradley Pit	U	Vinyl chloride	4.80	6.58	
13	Carson	U	Vinyl chloride	4.90	6.74	6.52
13	Carson	U	Vinyl chloride	4.70	6.29	
43	CB110	U	Vinyl chloride	2.05	2.09	2.09
43	CB111	U	Vinyl chloride	19.0	19.2	19.2
43	CB112	U	Vinyl chloride	8.43	9.29	9.29
43	CB113	U	Vinyl chloride	9.98	12.08	12.08
43	CB114	U	Vinyl chloride	6.11	6.18	6.18
43	CB115	U	Vinyl chloride	2.70	2.73	2.73
43	CB117	U	Vinyl chloride	11.4	11.5	11.5
43	CB118	U	Vinyl chloride	10.9	11.1	11.1
43	CB119	U	Vinyl chloride	1.95	1.96	1.96
43	CB12	U	Vinyl chloride	0.40	0.40	0.40
43	CB120	U	Vinyl chloride	7.60	7.65	7.65
43	CB121	U	Vinyl chloride	15.0	15.1	15.1
43	CB122	U	Vinyl chloride	4.93	4.97	4.97
43	CB123	U	Vinyl chloride	13.0	13.8	13.8
43	CB125	U	Vinyl chloride	15.2	15.3	15.3
43	CB126	U	Vinyl chloride	5.20	5.23	5.23
43	CB127	U	Vinyl chloride	12.4	12.5	12.5
43	CB13	U	Vinyl chloride	1.30	1.30	1.30
43	CB130	U	Vinyl chloride	5.61	5.66	5.66
43	CB132	U	Vinyl chloride	7.70	7.74	7.74
43	CB133	U	Vinyl chloride	14.4	14.4	14.4
43	CB134	U	Vinyl chloride	9.60	9.62	9.62
43	CB14	U	Vinyl chloride	2.65	2.78	2.78
43	CB15	U	Vinyl chloride	7.70	7.78	7.78
43	CB16	U	Vinyl chloride	3.25	3.27	3.27
43	CB17	U	Vinyl chloride	3.00	3.07	3.07
43	CB18	U	Vinyl chloride	3.83	3.86	3.86

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB19	U	Vinyl chloride	5.30	5.35	5.35
55	Chicopee	U	Vinyl chloride	8.59	11.0	11.0
56	Coyote Canyon	U	Vinyl chloride	1.90	2.53	2.62
56	Coyote Canyon	U	Vinyl chloride	1.84	2.45	
56	Coyote Canyon	U	Vinyl chloride	1.83	2.44	
56	Coyote Canyon	U	Vinyl chloride	1.83	2.71	
56	Coyote Canyon	U	Vinyl chloride	1.85	2.70	
56	Coyote Canyon	U	Vinyl chloride	1.95	2.88	
57	Durham Rd.	U	Vinyl chloride	6.00	7.89	7.34
357	Durham Rd.	U	Vinyl chloride	5.80	6.99	
57	Durham Rd.	U	Vinyl chloride	6.00	7.14	
27	Lyon Development	U	Vinyl chloride	0.87	1.02	2.68
27	Lyon Development	U	Vinyl chloride	5.20	6.19	
27	Lyon Development	U	Vinyl chloride	6.80	0.83	
8	Operating Industries	U	Vinyl chloride	2.40	3.26	13.5
58	Otay Annex	U	Vinyl chloride	0.64	0.82	3.26
20	Penrose	U	Vinyl chloride	0.46	0.58	3.13
20	Penrose	U	Vinyl chloride	4.40	7.57	
20	Penrose	U	Vinyl chloride	4.60	7.84	
20	Penrose	U	Vinyl chloride	0.73	1.78	
20	Penrose	U	Vinyl chloride	0.65	1.54	
20	Penrose	U	Vinyl chloride	1.20	2.39	
20	Penrose	U	Vinyl chloride	1.30	2.53	
20	Penrose	U	Vinyl chloride	22.4	29.8	29.8
59	Rockingham	U	Vinyl chloride	0.08	0.16	1.28
9	Sheldon Street	U	Vinyl chloride	0.25	0.50	
9	Sheldon Street	U	Vinyl chloride	0.25	0.50	
9	Sheldon Street	U	Vinyl chloride	2.00	3.98	
12	BKK Landfill	Y	Vinyl chloride	160	352	225
12	BKK Landfill	Y	Vinyl chloride	77.0	181	
12	BKK Landfill	Y	Vinyl chloride	65.0	143	
7	Calabasas	Y	Vinyl chloride	22.8	34.8	46.5
7	Calabasas	Y	Vinyl chloride	30.0	54.2	
7	Calabasas	Y	Vinyl chloride	28.0	50.5	
43	CB116	Y	Vinyl chloride	1.00	1.02	1.02
43	CB124	Y	Vinyl chloride	16.9	17.2	17.2
58	Otay Valley	Y	Vinyl chloride	16.4	17.7	17.7
22	Palos Verdes	Y	Vinyl chloride	2.20	9.59	7.25
22	Palos Verdes	Y	Vinyl chloride	2.20	9.59	
22	Palos Verdes	Y	Vinyl chloride	1.80	7.85	
22	Palos Verdes	Y	Vinyl chloride	2.20	9.59	
22	Palos Verdes	Y	Vinyl chloride	0.83	3.62	
22	Palos Verdes	Y	Vinyl chloride	1.80	7.85	
22	Palos Verdes	Y	Vinyl chloride	2.10	9.16	
22	Palos Verdes	Y	Vinyl chloride	2.20	9.59	
22	Palos Verdes	Y	Vinyl chloride	0.59	2.57	
22	Palos Verdes	Y	Vinyl chloride	2.20	9.59	
22	Palos Verdes	Y	Vinyl chloride	1.30	5.67	
51	Palos Verdes	Y	Vinyl chloride	2.60	8.28	
51	Palos Verdes	Y	Vinyl chloride	1.70	4.35	0.24
54	Arbor Hills	U	Vinylidene chloride	0.24	0.24	
54	Arbor Hills	U	Vinylidene chloride	0.24	0.25	18.6
17	Bradley Pit	U	Vinylidene chloride	32.0	42.2	
17	Bradley Pit	U	Vinylidene chloride	9.80	12.9	
17	Bradley Pit	U	Vinylidene chloride	9.30	12.3	
17	Bradley Pit	U	Vinylidene chloride	29.0	38.2	
17	Bradley Pit	U	Vinylidene chloride	2.30	3.03	
17	Bradley Pit	U	Vinylidene chloride	2.40	3.16	
43	CB110	U	Vinylidene chloride	0.10	0.10	0.10
43	CB111	U	Vinylidene chloride	0.65	0.66	0.66
43	CB112	U	Vinylidene chloride	0.05	0.06	0.06
43	CB113	U	Vinylidene chloride	0.08	0.10	0.10

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
43	CB114	U	Vinylidene chloride	0.23	0.23	0.23
43	CB117	U	Vinylidene chloride	0.15	0.15	0.15
43	CB118	U	Vinylidene chloride	0.18	0.18	0.18
43	CB120	U	Vinylidene chloride	0.20	0.20	0.20
43	CB121	U	Vinylidene chloride	0.43	0.43	0.43
43	CB124	Y	Vinylidene chloride	0.75	0.76	0.76
43	CB127	U	Vinylidene chloride	0.13	0.13	0.13
43	CB14	U	Vinylidene chloride	0.07	0.07	0.07
43	CB15	U	Vinylidene chloride	0.10	0.10	0.10
43	CB16	U	Vinylidene chloride	0.20	0.20	0.20
43	CB18	U	Vinylidene chloride	0.49	0.49	0.49
43	CB19	U	Vinylidene chloride	0.20	0.20	0.20
55	Chicopee	U	Vinylidene chloride	0.12	0.15	0.15
56	Coyote Canyon	U	Vinylidene chloride	0.34	0.46	0.49
56	Coyote Canyon	U	Vinylidene chloride	0.33	0.44	0.49
56	Coyote Canyon	U	Vinylidene chloride	0.37	0.49	
56	Coyote Canyon	U	Vinylidene chloride	0.36	0.53	
56	Coyote Canyon	U	Vinylidene chloride	0.36	0.52	
56	Coyote Canyon	U	Vinylidene chloride	28.2	33.8	33.8
41	Guadalupe	U	Vinylidene chloride	55.8	57.1	58.0
54	Arbor Hills	U	Xylenes	63.8	64.4	
54	Arbor Hills	U	Xylenes	51.4	52.4	
54	Arbor Hills	U	Xylenes	4.66	4.79	4.79
43	CB11	U	Xylenes	10.0	10.2	10.2
43	CB110	U	Xylenes	12.5	12.6	12.6
43	CB111	U	Xylenes	8.55	9.42	9.42
43	CB112	U	Xylenes	65.0	78.6	78.6
43	CB113	U	Xylenes	2.47	2.50	2.50
43	CB114	U	Xylenes	9.78	9.88	9.88
43	CB115	U	Xylenes	2.90	2.94	2.94
43	CB116	Y	Xylenes	0.45	0.45	0.45
43	CB117	U	Xylenes	15.3	15.6	15.6
43	CB118	U	Xylenes	0.45	0.45	0.45
43	CB119	U	Xylenes	1.30	1.31	1.31
43	CB12	U	Xylenes	37.5	37.7	37.7
43	CB120	U	Xylenes	0.50	0.50	0.50
43	CB121	U	Xylenes	13.3	13.5	13.5
43	CB122	U	Xylenes	12.0	12.7	12.7
43	CB123	U	Xylenes	70.8	71.8	71.8
43	CB124	Y	Xylenes	1.50	1.51	1.51
43	CB126	U	Xylenes	4.63	4.66	4.66
43	CB127	U	Xylenes	0.40	0.40	0.40
43	CB128	U	Xylenes	28.7	30.4	30.4
43	CB129	U	Xylenes	12.0	12.0	12.0
43	CB13	U	Xylenes	70.9	71.5	71.5
43	CB130	U	Xylenes	12.0	12.0	12.0
43	CB131	U	Xylenes	1.55	1.56	1.56
43	CB132	U	Xylenes	5.57	5.58	5.58
43	CB133	U	Xylenes	24.0	24.2	24.2
43	CB15	U	Xylenes	0.75	0.76	0.76
43	CB16	U	Xylenes	67.5	69.2	69.2
43	CB17	U	Xylenes	22.8	23.0	23.0
43	CB18	U	Xylenes	12.0	12.1	12.12
43	CB19	U	Xylenes	41.5	53.3	53.3
55	Chicopee	U	Xylenes	34.0	45.2	44.06
56	Coyote Canyon	U	Xylenes	35.3	47.0	
56	Coyote Canyon	U	Xylenes	27.9	37.1	
56	Coyote Canyon	U	Xylenes	27.7	41.0	
56	Coyote Canyon	U	Xylenes	31.0	45.2	
56	Coyote Canyon	U	Xylenes	33.0	48.8	
56	Coyote Canyon	U	Xylenes	9.60	11.5	11.5
41	Guadalupe	U	Xylenes	34.0	108	182
51	Palos Verdes	Y	Xylenes	100	256	
51	Palos Verdes	Y	Xylenes	98.0	119	
50	Puente Hills	N	Xylenes			

Appendix A-2. Default LFG Constituent Concentrations (pre-1992 Landfills)

Reference	Landfill Name	Co-disposal (Y, N, or U)*	Compound	Raw Concentration (ppmv)	Air Infiltration Corrected Conc. (ppmv)	Site Avg.** (ppmv)
59	Rockingham	U	Xylenes	24.1	32.0	32.0
1	Scholl Canyon	N	Xylenes	3.10	7.09	7.09
60	Sunshine Canyon	U	Xylenes	92.0	96.8	96.8

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Timberlands Landfill	Timberlands	Brewton	AL	10/19/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-001	Tier 2 Nonmethane Organic Compounds Emission Rate Report for the Pineview Landfill	Pineview	Dora	AL	3/3/97	Alabama Department of Environmental Mangement	8/5/97	N
TR-002	Tier 2 Sampling and Analysis Report for the Morris Farm Sanitary Landfill	Morris Farm	Hillsboro	AL	5/24/99	Browning-Ferris Industries Inc.	7/16/99	Y
	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Saline County Regional Solid Waste Management District	Saline County Regional Solid Waste Management District						
TR-004	Management District Landfill		Bauxite	AR	11/22/96	Genesis Environmental Consulting, Inc.	12/13/96	N
TR-005	Tier 2 Test Report - Modelfill Landfill	Modelfill	Little Rock	AR	9/17/97 - 9/19/97	Browning-Ferris Industries Inc.	10/8/97	N
	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Pen-Rob Landfill	Pen-Rob	Junction City	AZ	7/9/96 - 7/10/96	Allied Waste Industries, Inc.	12/10/96	N
TR-006	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates for the Sierra Estrella Landfill	Sierra Estrella		AZ	9/3/97 - 9/4/97	USA Waste of Arizona	12/3/97	N
	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates for the Northwest Regional Landfill	Northwest Regional		AZ	9/4/97 - 9/7/97	USA Waste of Arizona	12/3/97	N
TR-008	Test Report - 27th Ave. Landfill	27th Ave.		AZ	8/6/97	No Origin Given	8/12/97	N
TR-009	Limited Tier 2 Testing Results for the Skunk Creek Landfill	Skunk Creek	Phoenix	AZ	8/1/97	City of Phoenix Public Works Department	10/7/97	Y
TR-010	Test Report - Copper Mountain Landfill	Copper Mountain	Wellton	AZ	4/18/98	No Origin Given	5/8/98	N
TR-011	Test Report - Cocopah Landfill	Cocopah	Yuma	AZ	4/17/98	No Origin Given	5/8/98	N
	Tier 2 Sampling, Analysis, and NMOC Emission Estimate Report, Arvin Sanitary Landfill	Arvin	Arvin	CA	7/13/98 - 7/21/98	Kern County Waste Management Department	September 1998	N
TR-013	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates Neal Road Landfill	Neal Road		CA	12/12/97, 1/5/98 - 1/7/98	Butte County Department of Public Works	2/19/98	Y
TR-014	Bakersfield Metropolitan Sanitary Landfill Tier 2 Test Results	Bakersfield Metropolitan (Bena)	Bakersfield	CA	5/27/98	Kern County Waste Management Department	7/30/98	N
	New Source Performance Standards Tier II Sampling, Analysis, and Landfill NMOC Emission Estimates Forward Landfill	Forward		CA	12/15/98 - 12/16/98	Allied Waste Industries, Inc.	1/15/99	Y
TR-016	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Chateau Fresno Landfill	Chateau Fresno	Fresno	CA	5/21/97	Browning-Ferris Gas Services, Inc.	5/28/97	N
	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates Highway 59 Landfill	Highway 59		CA	10/27/98, 11/30/98, 12/21/98 - 12/22/98	Merced County Department of Public Works	2/1/99	Y
TR-017	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates Forward Landfill	Forward	Manteca	CA				
	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates Fink Road Sanitary Landfill	Fink Road		CA	9/22/97 - 9/23/97	Stanislaus County Department of Public Works	11/7/97	N
TR-018	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates Fink Road Sanitary Landfill	Fink Road		CA	9/9/98	Stanislaus County Department of Public Works	10/13/98	N
TR-019	Tier 2 Sampling, Analysis, and NMOC Emission Estimate Report, Shafter-Wasco Sanitary Landfill	Shafter-Wasco	Shafter	CA	7/7/98 - 7/9/98	Kern County Waste Management Department	September 1998	N
TR-020	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates Fink Road Sanitary Landfill	Fink Road		CA				
	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates B&J Drop Box Sanitary Landfill	B&J Drop Box		CA	5/5/97 - 5/8/97	Norcal Waste Systems, Inc., B&J Drop Box Corporation	5/30/97	N
TR-021	Test Report - Ostrom Road Landfill	Ostrom Road		CA	5/8/98	No Origin Given	5/26/98	N
TR-022	Test Report - Yolo County Central Landfill	Yolo County Central		CA	11/10/98	No Origin Given	11/23/98	N

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-027	Test Report - Tower Road Landfill	Tower Road	Denver	CO	3/1/99 - 3/4/99	Browning-Ferris Gas Services, Inc.	3/15/99	N
TR-028	Test Report - Denver Regional Landfill	Denver Regional	Denver	CO	6/7/99	No Origin Given	6/14/99	N
TR-029	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Denver Regional Landfill (South)	Denver Regional (South)	Erie	CO	3/3/97 - 3/7/97	Laidlaw Waste Systems (Colorado), Inc.	3/21/97	N
TR-030	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Fountain Landfill	Fountain	Fountain	CO	10/16/96 - 10/19/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-031	Test Report - Foothill Jeffco Landfill	Foothills	Golden	CO	3/8/99, 5/21/99	Browning-Ferris Gas Services, Inc.	3/15/99, 5/27/99	N
TR-032	Test Report - Landfill Name Confidential #1	Landfill Name Confidential #1			8/31/98 - 9/3/98	No Origin Given	9/14/98	N
TR-033	Test Report - Southern Solid Waste Management Center	Southern Solid Waste Management Center	Georgetown	DE	Date Not Given	Delaware Solid Waste Authority	12/28/99	N
TR-034	Test Report - Pigeon Point Landfill	Pigeon Point	New Castle	DE	Date Not Given	Delaware Solid Waste Authority	12/28/99	N
TR-035	Test Report - Central Solid Waste Management Center	Central Solid Waste Management Center	Sandtown	DE	Date Not Given	Delaware Solid Waste Authority	12/28/99	N
TR-036	Test Report - Cherry Island Landfill	Cherry Island	Wilmington	DE	Date Not Given	Delaware Solid Waste Authority	12/28/99	N
TR-037	Test Report - Hillsborough County/SCLF	Hillsborough County/SCLF		FL	11/10/97 - 11/13/97	No Origin Given	11/20/97	N
TR-038	Test Report - Huntsville SWDA	Huntsville SWDA	Huntsville	AL	3/31/98 - 4/3/98	No Origin Given	4/22/98	N
TR-039	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Buford Landfill	Buford	Buford	GA	10/16/96 - 10/17/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-040	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Hickory Ridge Landfill	Hickory Ridge	Conley	GA	10/15/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-041	Report of Tier 2 Non-methane Organic Compound (NMOC) Determination at the Wayne County Regional Landfill	Wayne County Regional	Jesup	GA	9/14/96 - 9/24/96	Republic Services, Inc.	3/4/97	Y
TR-042	Documentation of Tier 2 Non-methane Organic Compound (NMOC) Determination at the Republic Industries Swift Creek Environmental Landfill	Swift Creek Environmental	Macon	GA	9/17/98	Republic Services, Inc.	4/28/99	Y
TR-043	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Taylor County Landfill	Taylor County	Mauk	GA	7/16/96 - 7/18/96	Allied Waste Industries, Inc.	12/10/96	N
TR-044	NSPS Tier 2 Revised Emission Report for Central Disposal Landfill	Central Disposal	Lake Mills	IA	10/16/96	Central Disposal Systems, Inc.	12/6/96	N
TR-045	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Brickyard Disposal & Recycling Landfill	Brickyard Disposal & Recycling	Danville	IL	6/22/96 - 6/25/96	Allied Waste Industries, Inc.	12/10/96	N
TR-046	Test Report - S. Illinois Regional Landfill	S. Illinois Regional	De Soto	IL	2/24/97 - 2/26/97	No Origin Given	3/20/97	N
TR-047	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Upper Rock Island Landfill	Upper Rock Island	East Moline	IL	6/29/96 - 6/30/96	Allied Waste Industries, Inc.	12/10/96	N
TR-048	New Source Performance Standards/Emissions Guidelines Tier 2 Sampling and Analysis Report for the Spoon Ridge Landfill	Spoon Ridge	Fairview	IL	5/5/97	Browning-Ferris Gas Services, Inc.	5/28/97	N
TR-049	Test Report - Illinois Landfill, Inc. (Hoopston)	Hoopeson	Hoopeson	IL	1/13/99 - 1/14/99	No Origin Given	2/1/99	N
TR-050	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Quad Cities Landfill	Quad Cities	Milan	IL	11/14/96 - 11/17/96	Browning-Ferris Gas Services, Inc.	12/4/96	N
TR-051	NSPS Tier 2 Work at Cahokia Road Landfill	Cahokia Road	Roxana	IL	6/10/97	Laidlaw/Allied	7/1/97	N
TR-052	New Source Performance Standards Tier 2 Sampling and Analysis Report for the County Line Landfill	County Line	Argos	IN	6/26/96 - 6/27/96	Allied Waste Industries, Inc.	12/10/96	N
TR-053	Test Report - United Refuse Landfill	United Refuse Landfill Name	Fort Wayne	IN	2/12/97 - 2/15/97	No Origin Given	4/11/97	N
TR-054	Test Report - Landfill Name Confidential #2	Confidential #2	Greensburg	IN	10/21/98 - 10/22/98	No Origin Given	11/10/98	N
TR-055	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates for the Caldwell Landfill	Caldwell	Morristown	IN	4/6/98 - 4/7/98	Caldwell Gravel Sales, Inc.	7/22/98	Y

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-056	Test Report - Newton County Landfill	Newton County		IN	7/9/98 2/17/97 - 2/20/97, 2/22/97	Allied Waste Industries, Inc.	7/21/98	N
TR-057	Test Report - Yaw Hill Landfill	Yaw Hill		IN		No Origin Given	3/19/97	N
TR-058	Test Report - Wabash, Indiana Landfill	Wabash	Wabash	IN	2/23/98 - 2/24/98	No Origin Given	3/26/98	N
TR-059	Report of Tier 2 Non-methane Organic Compound (NMOC) Determination at Adding Environmental, Inc.'s Green Valley Environmental Corp. Landfill	Green Valley Environmental Corp.	Ashland	KY	9/20/96 9/16/96, 9/18/96, 11/22/96 - 11/23/96	Republic Services, Inc.	11/29/96	N
TR-060	Report of Tier 2 Non-methane Organic Compound (NMOC) Determination at Adding Environmental, Inc.'s Ohio Balefill, Inc. Landfill	Ohio Balefill, Inc.	Beaver Dam	KY		Republic Services, Inc.	12/6/96	N
TR-061	New Source Performance Standards (NSPS) Tier 2 Results Laurel Ridge Landfill	Laurel Ridge	Lilly	KY	10/9/96 - 10/11/96	United Waste Systems, Inc.	12/4/96	N
TR-062	Test Report - Montgomery County Landfill	Montgomery County		KY	7/13/98 - 7/14/98	Rumpke Waste, Inc.	7/21/98	N
TR-063	Report of Tier 2 Non-methane Organic Compound (NMOC) Determination at Adding Environmental, Inc.'s Dozit Co., Inc. Landfill	Dozit Co., Inc.	Morganfield	KY	9/20/96 - 9/21/96	Republic Services, Inc.	11/29/96	N
TR-064	New Source Performance Standards (NSPS) Tier 2 Results, Local Sanitation Service, Inc. Landfill	Local Sanitation Service, Inc.	Morehead	KY	11/6/96 7/6/98 - 7/8/98	Mid-American Waste Systems, Inc.	1/17/97	N
TR-065	Test Report - Pendleton County Landfill	Pendleton County		KY		Rumpke Waste, Inc.	7/21/98	N
TR-066	Report of Tier 2 Non-methane Organic Compound (NMOC) Determination at Adding Environmental, Inc.'s Tri-K Landfill, Inc.	Tri-K	Stanford	KY	9/17/96 - 9/20/96	Republic Services, Inc.	11/29/96	N
TR-067	Tier 2 Sampling and Analysis Report for the Crescent Acres Landfill	Crescent Acres	New Orleans	LA	2/26/99	Browning-Ferris Industries	4/2/99	N
TR-068	NSPS Tier 2 Results for the Chicopee Landfill	Chicopee	Chicopee	MA	Date Not Given	Connecticut Valley Sanitary Waste Disposal, Inc.	12/10/96	N
TR-069	NSPS Tier 2 Results for the Fitchburg/Westminster Landfill	Fitchburg/Westminster	Westminster	MA	Date Not Given	Resource Control, Inc.	1/9/97	N
TR-070	Test Report - Taunton Landfill	Taunton	Taunton	MA	6/18/98	No Origin Given	6/30/98	N
TR-071	New Source Performance Standards/Emissions Guidelines Tier 2 Sampling, Analysis, and Landfill Emission Estimates for Non-Methane Organic Compounds Alpha Ridge Landfill	Alpha Ridge	Marriottsville	MD	9/4/98	Howard County Department of Public Works	11/16/98	N
TR-072	Test Report - Oaks Landfill	Oaks	Laytonsville	MD	11/25/97 2/21/97, 3/27/97	No Origin Given Maryland Department of the Environment	12/9/97	N
TR-073	Tier 2 NMOC Emission Rate Report - Landfill Name Confidential #3	Landfill Name Confidential #3		MD			4/28/97	N
TR-074	New Source Performance Standards (NSPS) Tier 2 Results for the Glen's Sanitary Landfill, Inc.	Glen's	Maple City	MI	10/7/96 3/3/97 - 3/6/97	United Waste Systems	12/4/96	N
TR-075	Test Report - Forest Lawn Landfill	Forest Lawn	Three Oaks	MI		No Origin Given	3/28/97	N
TR-076	New Source Performance Standards Tier 2 Sampling and Analysis for the Flying Cloud Landfill	Flying Cloud	Eden Prairie	MN	5/20/98	Browning-Ferris Industries	6/30/98	Y
TR-077	New Source Performance Standards Tier 2 Sampling and Analysis for the Lamar Landfill	Lamar	Lamar	MO	10/29/97 - 10/31/97	Browning-Ferris Industries	12/3/97	Y
TR-078	Test Report - Mo Pass Landfill	Mo Pass		MO	12/8/98	No Origin Given	12/14/98	N
TR-079	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Butler County Landfill	Butler County	Poplar Bluff	MO	6/20/96 - 6/21/96	Allied Waste Industries, Inc.	12/10/96	N
TR-080	NSPS Tier 2 Revised Emission Report for St. Joseph Landfill	City of St. Joseph	St. Joseph	MO	Date Not Given	City of St. Joseph Department of Public Works & Transportation	12/17/96	N
TR-081	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Show-Me Landfill	Show-Me	Warrensburg	MO	7/1/96 - 7/2/96	Allied Waste Industries, Inc.	12/10/96	N
TR-082	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Big River Landfill	Big River	Leland	MS	10/21/96 - 10/22/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-083	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Missoula Landfill	Missoula	Missoula	MT	11/18/96	Browning-Ferris Gas Services, Inc.	12/3/96	N

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-084	Tier 2 NMOC Emission Rate Report for the Buncombe County Landfill	Buncombe County	Asheville	NC	4/14/99	Buncombe County Solid Waste Services	5/12/99	Y
TR-085	Harrisburg Road Landfill Tier 2 NMOC Emission Rate Report	Harrisburg Road		NC	9/6/96	Mecklenburg County	12/5/96	N
TR-086	Tier 2 NMOC Emission Rate Report for the White Street Landfill	White Street	Greensboro	NC	4/12/99	Duke Engineering and Services, City of Greensboro Solid Waste Management Division	5/18/99	Y
TR-087	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Charlotte Motor Speedway #1-#4 Landfill	Charlotte Motor Speedway #1-#4	Harrisburg	NC	11/20/96 - 11/23/96	Browning-Ferris Gas Services, Inc.	2/14/97	N
TR-088	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Charlotte Motor Speedway #5 Landfill	Charlotte Motor Speedway #5	Harrisburg	NC	11/22/96	Browning-Ferris Gas Services, Inc.	12/3/96	N
TR-089	Test Report - Blackburn Landfill	Blackburn		NC	5/5/98 - 5/6/98	No Origin Given	5/18/98	N
TR-090	Documentation of Tier 2 Non-methane Organic Compound (NMOC) Determination at the Republic Industries Uwharrie Environmental Landfill	Uwharrie Environmental	Mount Gilead	NC	9/17/98	Republic Industries	12/29/98	N
TR-091	Tier 2 NMOC Emission Rate Report for the New Hanover County Landfill	New Hanover County	Wilmington	NC	1/12/99 - 1/15/99	New Hanover County Department of Environmental Management	3/31/99	N
TR-092	Report of Tier 2 Non-methane Organic Compound (NMOC) Determination at Addingdon Environmental, Inc.'s East Carolina Landfill	East Carolina	Aulander	NC	8/5/96	Republic Services, Inc.	9/25/96	N
TR-093	Test Report - Hanes Mill Road Landfill	Hanes Mill Road	Winston-Salem	NC	11/5/97	No Origin Given	11/13/97	N
TR-094	NSPS Tier 2 Revised Emission Report for Bluff Road Landfill	Bluff Road	Lincoln	NE	Date Not Given	City of Lincoln Solid Waste Division	12/20/96	N
TR-095	Test Report - Camino Real Landfill	Camino Real	Sunland Park	NM	11/10/98 - 11/13/98, 11/17/98 - 11/18/98	National Solid Wastes Management Association	7/7/99	Y
TR-096	Test Report - Douglas County Landfill	Douglas County	Gardnerville	NV	4/14/98 - 4/16/98	No Origin Given	4/28/98	N
TR-097	Test Report - Colonie Landfill	Colonie	Colonie	NY	11/4/98 - 11/6/98	Town of Colonie	11/23/98	N
TR-098	Test Report - Chautauqua County Landfill	Chautauqua County		NY	4/10/98	Chautauqua County DPW	5/6/98	N
TR-099	Tier 2 Test and Emission Rate Report for the Monroe County Department of Environmental Services Mill Seat Landfill	Mill Seat		NY	12/9/96	Monroe County Department of Environmental Services, Clark Patterson Associates	1/2/97	N
TR-100	MSW Landfill Tier 2 Test and Emission Rate Report for the Development Authority of the North Country Solid Waste Management Facility	Development Authority of the North Country Solid Waste Management Facility	Rodman	NY	11/4/96	Development Authority of the North Country	12/2/96	Y
TR-101	Test Report - Brown County Landfill	Brown County		OH	4/22/98 - 4/23/98	Rumpke Waste, Inc.	5/13/98	N
TR-102	New Source Performance Standards/Emissions Guidelines Tier 2 Sampling and Analysis Summary Report for the Glenwillow Landfill	Glenwillow	Glenwillow	OH	5/7/97 - 5/11/97	Browning-Ferris Gas Services, Inc.	5/28/97	Y
TR-103	Test Report - Beech Hollow Landfill	Beech Hollow		OH	4/21/98	Rumpke Waste, Inc.	5/13/98	N
TR-104	Test Report - Lewis Landfill	Lewis	Salem	OH	4/20/99	Browning-Ferris Industries	4/22/99	N
TR-105	NSPS Tier 2 Revised Emission Report Southern Plains Landfill	Southern Plains	Chickasha	OK	10/2/96 - 10/3/96	Martin & Martin, Inc.	12/6/96	Y
TR-106	Test Report - Great Plains Landfill	Great Plains		OK	10/2/96 - 10/3/96	Sanifill	10/18/96	N
TR-107	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates for the Southeast Landfill	Southeast	Oklahoma City	OK	11/9/96 - 11/12/96	Laidlaw Waste Systems, Inc.	12/19/96	Y
TR-108	New Source Performance Standards Tier 2 Sampling and Analysis for the Earthtech Landfill	Earthtech	Porter	OK	9/15/97 - 9/16/97	Browning-Ferris Industries	10/31/97	N
TR-109	Test Report - Broken Arrow Landfill	Broken Arrow	Broken Arrow	OK	7/12/99 - 7/15/99	Browning-Ferris Industries	7/21/99	N

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-110	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill Non-Methane Organic Compound Emission Estimates for the Landfill Name Confidential #4	Landfill Name Confidential #4	Boardman	OR	7/29/97 - 7/31/97	No Origin Given	9/12/97	N
TR-111	R & A Bender, Inc. Landfill Tier 2 NMOC Emission Rate Report	R & A Bender, Inc.	Chambersburg	PA	11/5/96 - 11/7/96, 1/17/97 - 1/18/97	Martin & Martin, Inc	3/12/97	N
TR-112	Revised Nonmethane Organic Compounds Emissions Calculations Landfill Name Confidential # 5	Landfill Name Confidential #5		PA	Date Not Given	USA Waste Services Inc.	8/7/97	N
TR-113	New Source Performance Standards/Emissions Guidelines Tier 2 Sampling and Analysis Summary Report for the Mon Valley Landfill	Mon Valley	Charleroi	PA	5/14/97	Browning-Ferris Gas Services, Inc.	5/28/97	Y
TR-114	Summary Report of Tier 2 Sampling, Analysis, and Landfill Emissions Estimates for Non-Methane Organic Compounds Chrin Brothers Landfill	Chrin Brothers	Easton	PA	3/18/98	Chrin Brothers Sanitary Landfill	4/24/98	Y
TR-115	Seneca Landfill - Revised Tier 2 NMOC Emission Rate Report	Seneca	Evans City	PA	7/2/96	Seneca Landfill, Inc.	12/5/96	Y
TR-116	Test Report - Pine Grove Landfill	Pine Grove	Pine Grove	PA	2/27/98	No Origin Given	3/18/98	N
TR-117	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Ponce Municipal Sanitary Landfill	Ponce Municipal	Ponce	PR	10/28/96 - 10/29/96	Browning-Ferris Gas Services, Inc.	11/26/96	Y
TR-118	New Source Performance Standards (NSPS) Tier 2 Results, Lee County Regional Recycling & Disposal Facility	Lee County Regional Recycling & Disposal Facility	Bishopville	SC	11/21/96	Mid-American Waste Systems, Inc.	1/16/97	Y
TR-119	Test Report - Landfill Name Confidential #7	Landfill Name Confidential #7		TN	10/27/97 - 10/30/97	No Origin Given	11/13/97	N
TR-120	Test Report - Landfill Name Confidential #6	Landfill Name Confidential #6		TN	4/6/98 - 4/7/98	No Origin Given	4/24/98	N
TR-121	Test Report - NW Tennessee Sanitary Landfill	NW Tennessee Disposal Corp	Union City	TN	3/6/97	No Origin Given	3/26/97	N
TR-122	New Source Performance Standards Tier 2 Sampling and Analysis Report for the Abilene Landfill	Abilene	Abilene	TX	12/22/96	Browning-Ferris Gas Services, Inc.	2/14/97	N
TR-123	Tier 2 Nonmethane Organic Compounds Emission Rate Report for the Turkey Creek Landfill	Turkey Creek	Alvarado	TX	11/7/96 - 11/8/96	Texas Natural Resource Conservation Commission, Laidlaw	7/25/97	N
TR-124	Test Report - Brazoria County Landfill	Brazoria County		TX	12/2/96 - 12/4/96	USA Waste Services, Inc.	12/9/96	N
TR-125	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Baytown Landfill	Baytown	Baytown	TX	9/9/96 - 9/12/96	USA Waste Services, Inc.	12/4/96	N
TR-126	Tier 2 Nonmethane Organic Compounds Emission Rate Report for the Beaumont/Golden Triangle Landfill	Golden Triangle	Beaumont	TX	11/26/96	Texas Natural Resource Conservation Commission, Browning-Ferris Industries	7/25/97	N
TR-127	Test Report - Victoria Landfill	Victoria	Bloomington	TX	6/23/98 - 6/26/98	Browning-Ferris Industries	7/8/98	N
TR-128	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for the Southwest Landfill	Southwest (Amarillo)	Canyon	TX	10/22/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-129	Tier 2 Nonmethane Organic Compounds Emission Rate Report for the FM 521/Blue Ridge Landfill	FM 521/Blue Ridge	Fresno	TX	11/4/96	Texas Natural Resource Conservation Commission, Browning-Ferris Industries	7/25/97	N
TR-130	Tier 2 Sampling and Analysis Report for the Itasca Landfill	Itasca	Itasca	TX	3/26/98, 4/13/98	Browning-Ferris Industries	5/21/98	Y
TR-131	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOC Emission Estimates for the Mill Creek Landfill	Mill Creek	Fort Worth	TX	8/6/97, 8/9/97, 8/14/97	Laidlaw Waste Systems, Inc.	10/10/97	Y
TR-132	Tier 2 Non-Methane Organic Compounds Emission Rate Report for the Hawthorn Park Landfill	Hawthorn Park	Houston	TX	9/13/96 - 9/16/96	Texas Natural Resource Conservation Commission, Sanfill	4/20/98	N
TR-133	New Source Performance Standards Tier 2 Sampling and Analysis for the Hutchins Landfill	Hutchins	Hutchins	TX	10/17/97	Browning-Ferris Industries	11/5/97	N

Appendix B. List of Test Reports Considered in Update

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TR-134	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOE Emission Estimates for the Fort Worth Landfill	Fort Worth	Fort Worth	TX	2/5/97	Laidlaw Waste Systems, Inc.	4/15/97	Y
TR-135	State of Texas Chapter 116 Standard Permitting Applicability Review for the Royal Oaks Landfill	Royal Oaks	Jacksonville	TX	No Testing Occurred	Laidlaw Waste Systems, Inc.	2/19/97	N
TR-136	New Source Performance Standards Tier 2 Sampling, Analysis, and Landfill NMOE Emission Estimates for the Pinehill Landfill	Pinehill	Kilgore	TX	4/16/97 - 4/19/97	Laidlaw Waste Systems, Inc.	6/10/97	N
TR-137	Tier 2 Nonmethane Organic Compounds Emission Rate Report for the Mexia Landfill	Mexia	Mexia	TX	11/22/96	Texas Natural Conservation Commission, BFI	7/25/97	N
TR-138	Test Report - King George Co. Landfill	King George County		VA	12/8/98	Waste Management, Inc.	12/14/98	N
TR-139	New Source Performance Standards/Emissions Guidelines Tier 2 Sampling and Analysis Summary Report for the Old Dominion Landfill	Old Dominion	Richmond	VA	3/19/97	Browning-Ferris Gas Services, Inc.	4/7/97	N
TR-140	Tier 1 and Tier 2 NMOE Emission Rate Reports for the Smith Gap Regional Landfill	Smith Gap		VA	3/18/97	Roanoke Valley Resource Authority	4/23/97	Y
TR-141	Tier 2 NMOE Emission Rate Report for the SPSA Regional Landfill	Southeastern Public Service Authority Regional	Suffolk	VA	3/20/97, 4/18/97	Southeastern Public Service Authority, MSA Consulting Engineers	6/10/97	Y
TR-142	Tier 2 NMOE Emission Rate Report for the Frederick County Regional Landfill	Frederick County	Winchester	VA	8/19/97 - 8/21/97	Frederick County Department of Public Works	10/8/97	Y
TR-143	New Source Performance Standards/Emissions Guidelines Tier 2 Sampling and Analysis Summary Report for the Lake Area Landfill	Lake Area	Sarona	WI	5/10/97	Browning-Ferris Gas Services, Inc.	5/28/97	N
TR-144	New Source Performance Standards (NSPS) Tier 2 Results Meadowfill Landfill Compliance Testing of a Landfill Flare at Browning-Ferris Gas Services, Inc.'s Facility in Halifax, Massachusetts	Meadowfill	Bridgeport	WV	11/20/96	Mid-American Waste Systems, Inc.	1/16/97	N
TR-145	Compliance Source Testing of a Landfill Flare at Northern Disposal, Inc. East Bridgewater Landfill	Halifax	Halifax	MA	4/19/96 - 4/22/96	BFI Waste Systems of North America, Inc.	May 1996	Y
TR-146	Compliance Emissions Test Program for BFI of Ohio, Inc.	East Bridgewater	Fairfield	OH	4/19/96 - 4/22/96	Northern Disposal, Inc.	June 1994	Y
TR-147	Compliance Testing of Landfill Flare at Browning-Ferris Gas Services, Inc.'s Fall River Landfill Flare	Bobmeyer Road	Fall River	MA	6/3/98	BFI of Ohio, Inc.	6/26/98	Y
TR-148	Test Report - BFI Fall River Landfill Unit 2 Results of the Emissions Compliance Test at the Bigfoot Run Sanitary Landfill	Fall River	Fall River	MA	11/8/94 - 11/9/94	BFI Waste Systems of North America, Inc.	March 1995	Y
TR-149	Report on Hydrogen Chloride Testing	Laubscher Meadows	Evansville	IN	3/16/99	No Origin Given	No Report Date Given	N
TR-150	Submission of Hydrogen Chloride Test Data from Landfill Gas Fired Combustion Devices - Hanover Park, IL	Landfill Name Not Given	Hanover Park	IL	3/16/99	Browning-Ferris Gas Services, Inc.	12/8/95	Y
TR-151	Results of the Emission Compliance Test on the Enclosed Flare System at the Carbon Limestone Landfill	Carbon Limestone	Lowellville	OH	5/14/96	Browning-Ferris Industrial Gas Services, Inc.	No Report Date Given	Y
TR-152	Emission Compliance Tests at the Jefferson Davis Parish Sanitary Landfill Flare	Jefferson Davis Parish	Sorrento	LA	Date Not Given	Waste Industry Air Coalition	11/16/99	N
TR-153	Results of the Emission Compliance Test on the Enclosed Flare System at the Lorain County Landfill No. 1	Lorain County	Oberlin	OH	7/24/96	Browning-Ferris Industrial Gas Services, Inc.	8/8/96	Y
TR-154	Results of the Emission Compliance Test on the Enclosed Flare System at the Lorain County Landfill No. 2	Lorain County	Oberlin	OH	7/23/96	Browning-Ferris Industrial Gas Services, Inc.	9/5/96	Y
TR-155	Emission Compliance Testing Browning-Ferris Gas Services, Inc. Willowcreek Landfill	Willowcreek	Atwater	OH	1/6/98	BFI-Willowcreek	9/5/96	Y
TR-156	Submission of Hydrogen Chloride Test Data from Landfill Gas Fired Combustion Devices - Santa Ana, CA	Landfill Name Not Given	Santa Ana	CA	Date Not Given	Waste Industry Air Coalition	2/2/98	Y
TR-157							11/16/99	N

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-159	Compliance Stack Sampling Report, Monmouth County Reclamation Center	Monmouth County Reclamation Center	Tinton Falls	NJ	8/1/95	SCS Engineers (Reston, VA)	9/8/95	Y
TR-160	Source Emission Testing of an Enclosed Landfill Gas Ground Flare	Millersville	Severn	MD	6/17/97	SCS Engineers (Reston, VA)	September 1997	Y
TR-161	Submission of Hydrogen Chloride Test Data from Landfill Gas Fired Combustion Devices - Lopez Canyon, CA	Landfill Name Not Given	Lopez Canyon	CA	Date Not Given	Waste Industry Air Coalition	11/16/99	N
TR-162	Emissions Tests at Puente Hills Energy Recovery from Landfill Gas Facility	Puente Hills		CA	4/2/91	County Sanitation Districts of Los Angeles County	April 1991	N
TR-163	Compliance Testing for SPADRA Landfill Gas-to-Energy Plant	Spadra	Spadra	CA	7/25/90 - 7/26/90	Ebasco Constructors, Inc.	November 1990	N
TR-164	1995 Annual Source Test Results for Emission Testing of One Landfill Gas Flare at Bowerman Landfill	Bowerman	Irvine	CA	8/3/95	CH2M Hill	October 1995	Y
TR-165	1997 Annual Compliance Source Testing Results for the Coyote Canyon Landfill Gas Recovery Facility Flare No. 1	Coyote Canyon		CA	12/3/97	Laidlaw Gas Recovery Systems	January 1998	Y
TR-166	1996 Annual Compliance Source Testing Results for the Coyote Canyon Landfill Gas Recovery Facility Flare No. 4	Coyote Canyon		CA	11/6/96	Laidlaw Gas Recovery Systems	January 1997	Y
TR-167	1997 Annual Compliance Source Testing Results for the Coyote Canyon Landfill Gas Recovery Facility Boiler	Coyote Canyon		CA	12/4/97	Laidlaw Gas Recovery Systems	January 1998	Y
TR-168	Colton Sanitary Landfill Gas Flare No. 2 (John Zink) 1998 Source Tests Results	Colton		CA	7/16/98	Bryan A. Stirrat & Associates	9/29/98	Y
TR-169	Colton Sanitary Landfill Gas Flare No. 1 (McGill) 1998 Source Tests Results	Colton		CA	7/17/98	Bryan A. Stirrat & Associates	9/29/98	Y
TR-170	Emissions Test Results of a McGill Landfill Gas Flare	Colton		CA	6/4/97	SCS Engineers	June 1997	Y
TR-171	High Landfill Gas Flow Rate Source Test Results from One Landfill Gas Flare at FRB Landfill in Orange County, California							
TR-171	Emissions Test Results of a John Zink Landfill Gas Flare	Bowerman	Irvine	CA	6/4/97	Bryan A. Stirrat & Associates	July 1997	Y
TR-172		Colton		CA	6/5/97	SCS Engineers	June 1997	Y
TR-173	Annual Emissions Test of Landfill Gas Flare #3 Bradley Landfill					Waste Management Recycling and Disposal Services of California, Inc.		Y
TR-174	Emissions Tests on Flares #3, #4, and #8 at the Lopez Canyon Landfill	Bradley	Sun Valley Lake View Terrace	CA	3/10/99 - 8/11/99 - 8/13/99	Inc.	4/12/99	Y
TR-175	Emissions Tests on Flares #2, #4 and #6 at the Lopez Canyon Landfill	Lopez Canyon	Lake View Terrace	CA	7/30/97 - 8/1/97	City of Los Angeles	August 1999	Y
TR-176	Emissions Test Results on Flares #1, #4 and #9 Calabasas Landfill			CA	2/9/98 - 2/11/98	City of Los Angeles County Sanitation Districts of Los Angeles County	August 1997	Y
TR-177	Annual Emissions Test of Landfill Gas Flare #2 Bradley Landfill	Calabasas		CA	6/11/97 - 6/12/97	Waste Management Recycling and Disposal Services of California, Inc.	February 1998	Y
TR-178	Annual Emission Test of Landfill Gas Flare #3 Bradley Landfill	Bradley	Sun Valley	CA	5/21/98	Waste Management Recycling and Disposal Services of California, Inc.	July 1997	Y
TR-179	Annual Emissions Test of Landfill Gas Flare #1 Bradley Landfill	Bradley	Sun Valley	CA	3/9/99	Waste Management Recycling and Disposal Services of California, Inc.	5/21/98	Y
TR-180	Emissions Test of a Sur-Lite Landfill Gas Flare	Mid Valley	Fontana	CA	6/3/97	SCS Field Services, Inc.	4/13/99	Y
TR-181	The Mid-Valley Sanitary Landfill Gas Flare No. 1 (McGill) 1998 Source Test Results	Mid Valley	Fontana	CA	7/30/98	Bryan A. Stirrat & Associates	June 1997	Y
TR-182	The Mid-Valley Sanitary Landfill Gas Flare No. 2 (SurLite) 1998 Source Test Results	Mid Valley	Fontana	CA	7/29/98	Bryan A. Stirrat & Associates	9/29/98	Y
TR-183	Annual Emissions Test of Landfill Gas Flare #2 Bradley Landfill	Bradley	Sun Valley	CA	3/11/99	Waste Management Recycling and Disposal Services of California, Inc.	4/13/99	Y
TR-184	Annual Emissions Test of Landfill Gas Flare #1 Bradley Landfill	Bradley	Sun Valley Lake View Terrace	CA	5/20/98	Waste Management Recycling and Disposal Services of California, Inc.	4/13/99	Y
TR-185	Emissions Tests on Flares #5, #7 and #9 at the Lopez Canyon Landfill	Lopez Canyon		CA	8/11/98 - 8/13/98	City of Los Angeles	May 1998	Y

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-186	Emissions Test of a McGill Landfill Gas Flare - Mid Valley Landfill	Mid Valley	Fontana	CA	6/3/97	SCS Field Services, Inc.	June 1997	Y
TR-187	Emissions Test of a Landfill Gas Flare - Lowry Landfill/Denver-Arapahoe Disposal Site	Lowry Denver-Arapahoe	Aurora	CA	2/12/97 - 2/13/97	Sur-Lite Corporation	February 1997	Y
TR-188	Characterization of Emissions from a Power Boiler Fired with Landfill Gas	Landfill Name Not Given		Canada	November 1999	Environment Canada Emissions Research and Measurement Division	March 2000	Y
TR-189	Characterization of Emissions from 925 kW _e Reciprocating Engine Fired with Landfill Gas	Waterloo Regional	Waterloo	Canada	6/21/00 - 6/23/00	Environment Canada Emissions Research and Measurement Division	December 2000	Y
TR-190	Characterization of Emissions from 812 kW _e Reciprocating Engine Fired with Landfill Gas	Meloche	Kirkland	Canada	9/21/99 - 9/24/99	Environment Canada Emissions Research and Measurement Division	December 1999	Y
TR-191	Characterization of Emissions from Enclosed Flare - Trail Road Landfill	Trail Road	Ottawa-Carleton	Canada	4/18/00 - 4/25/00	Environment Canada Emissions Research and Measurement Division	August 2000	Y
TR-192	Determination of Impact of Waste Management Activities on Greenhouse Gas Emissions	Landfill Name Not Given	None	Canada	3/30/01	Environment Canada	3/30/01	N
TR-193	Emission Reduction Benefits of LFG Combustion	Landfill Name Not Given	Toronto	Canada	February 2002	Environment Canada	February 2002	N
TR-194	Characterization of Emissions from 1 MW _e Reciprocating Engine Fired with Landfill Gas	Usine de Triage Lachenaie Lee	Lachenaie	Canada	10/1/01 - 10/4/01	Environment Canada	January 2002	Y
TR-195	Characteristics of Semi-volatile Organic Compounds from Vented Landfills	Beare, Cornwall, Miron, Vaughn and Cook Road		Canada	August 1996	Environment Canada Environmental Technology Advancement Directorate	August 1996	Y
TR-196	Results of the Biennial Criteria and AB 2588 Air Toxics Source Test on the Simi Valley Landfill Flare	Simi Valley	Simi Valley	CA	3/18/97 - 3/21/97, 3/29/97	Simi Valley Landfill and Recycling Center	April 1997	Y
TR-197	Emission Test Results of a Landfill Gas Flare	San Timoteo	Redlands	CA	6/6/97	SCS Engineers	June 1997	Y
TR-198	S. Oak Ridge Landfill Gas Quality	Oak Ridge	Valley Park	MO	2/11/99	No Origin Given	3/9/99	N
TR-199	Emission Compliance Test on a Landfill Flare	Sheldon-Arleta	Sun Valley	CA	12/17/98	City of Los Angeles	January 1999	Y
TR-200	Test Report - Newton Landfill	Newton		NC	9/4/97	No Origin Given	9/15/97	N
TR-201	Emission Compliance Test on a Landfill Gas Flare	Santiago Canyon		CA	9/24/98	County of Orange Integrated Waste Management Department	September 1998	Y
TR-202	Report on Emissions Test of a Landfill Gas Flare at Santiago Canyon Landfill	Santiago Canyon		CA	10/30/97, 12/10/97	County of Orange Integrated Waste Management Department	12/24/97	Y
TR-203	Emission Compliance Test on a Landfill Flare - Chiquita Canyon Landfill	Chiquita Canyon	Valencia	CA	8/20/96 - 8/21/96	EMCON Associates	September 1996	Y
TR-204	Test Report - BFI Mallard Lake Landfill	Mallard Lake			3/16/99	No Origin Given	No Report Date Given	N
TR-205	The Mid-Valley Sanitary Landfill Gas Flare No. 3 (John Zink) 1998 Source Test Results	Mid Valley	Fontana	CA	7/28/98	Bryan A. Stirrat & Associates	9/29/98	Y
TR-206	Compliance Source Test Report Landfill Gas-fired Flare Stations I-4 and F-5	BKK	West Covina	CA	8/28/96 - 8/30/96	BKK Landfill	10/3/96	Y
TR-207	Compliance Source Test Report Landfill Gas-fired Flare Stations I-4 and F-2	BKK	West Covina	CA	10/16/97, 10/20/97	BKK Landfill	12/12/97	Y
TR-208	Annual Emissions Test of Landfill Gas Flare #2 Bradley Landfill	Bradley	Sun Valley	CA	5/19/98	Waste Management Recycling and Disposal Services of California, Inc.	7/15/98	Y
TR-209	Emission Test Report Volumes I and II - Source/Compliance Emissions Testing for Cedar Hills Landfill	Cedar Hills Regional	Maple Valley	WA	10/19/04 - 10/22/04	King County Solid Waste Division	1/20/05	Y
TR-210	Characterization of Ammonia, Total Amine, Organic Sulfur Compound, and Total Non-Methane Organic Compound (TGNMOC) Emissions from Composting Operations	Landfill Name Not Given (composting operations)	Corona	CA	11/16/95, 1/24/96, 1/26/96	South Coast Air Quality Management District	1996	Y

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-211a	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #1		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211b	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #2		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211c	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #3		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211d	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #4		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211e	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #5		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211f	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #6		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211g	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #7		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-211h	Determination of Total and Dimethyl Mercury in Raw Landfill Gas with Site Screening for Elemental Mercury at Eight Washington State Landfills	Landfill Site #8		WA	May 2003, June 2003	Washington State Department of Ecology	July 2003	Y
TR-212	Determination of Total, and Monomethyl Mercury in Raw Landfill Gas at the Central Solid Waste Management Center	Central Solid Waste Management Center				Delaware Solid Waste Authority	February 2003	Y
TR-213	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for Landfill Name Confidential #8	Landfill Name Confidential #8	Leland	MS	10/21/96 - 10/22/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-214	Intertek Testing Services NA, Inc. Report number D97-10194	SEOKE	Oklahoma City	OK	9/15/97	SCS Engineers	December 1997	N
TR-215	Characterization of Ammonia, Total Amine, Organic Sulfur Compound, and Total Non-Methane Organic Compound (TGNMOC) Emissions from Composting Operations	Landfill Name Not Given (San Joaquin Composting)	Lost Hills	CA	2/15/96, 3/1/96, 3/11/96	South Coast Air Quality Management District	No Report Date Given	N
TR-216	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for Landfill Name Confidential #9	Landfill Name Confidential #9	Beaumont	TX	11/25/96	Browning-Ferris Gas Services, Inc.	12/3/96	N
TR-217	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for Landfill Name Confidential #10	Landfill Name Confidential #10	Canyon	TX	10/22/96	Browning-Ferris Gas Services, Inc.	11/26/96	N
TR-218	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for Landfill Name Confidential #11	Landfill Name Confidential #11	Fresno	TX	11/4/96 - 11/5/96	Browning-Ferris Gas Services, Inc.	12/3/96	N
TR-219	New Source Performance Standards Tier 2 Sampling and Analysis Summary Report for Landfill Name Confidential #12	Landfill Name Confidential #12	Mexia	TX	11/22/96	Browning-Ferris Gas Services, Inc.	12/4/96	N
TR-220	SCAQMD Performance Tests on the Spadra Energy Recovery from Landfill Gas (SPERG) Facility	Spadra	Spadra	CA	10/22/91 - 10/24/91	County Sanitation Districts of Los Angeles County	April 1992	Y
TR-221	Tier 2 Calculations for the Butler County (Kansas) Sanitary Landfill	Butler County	El Dorado	KS	3/11/97 - 3/12/97	Butler County	3/28/97	Y
TR-222	Results of the August 1994 On-site GC/MS Landfill Gas Chemical Characterization at the Anoka County Landfill	Anoka County	Anoka	MN	8/23/94 - 8/25/94	Kaltec	9/9/94	Y
TR-223	Tier 2 Calculations for the Columbia Sanitary Landfill	Columbia	Columbia	MO	11/15/96 - 11/17/96	City of Columbia	12/5/96	Y
TR-224	Landfill Gas Characterization for Equipment at Livermore, CA	Calderon	Livermore	CA	4/7/88	Bay Area Quality Management District	6/23/88	Y
TR-225	Report, Destruction Test, Flare, Durham Road Landfill	Durham Road	Fremont	CA	10/19/88	Waste Management of North America	10/19/88	Y
TR-226	Methane and Nonmethane Organic Destruction Efficiency Tests of an Enclosed Landfill Gas Flare	Pinelands Park		NJ	April 1992	Newco Waste Systems	April 1992	Y

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-227	Stack Test and Modeling Report L & RR Superfund Site	L & RR Superfund Site	North Smithfield	NJ	1/31/95 - 2/2/95	de maximis, inc.	July 1998	Y
TR-228	Landfill Gas Emissions: A study of two landfills in Prince George's County, Maryland	Sandy Hill & Brown Station Road		MD	Various	University of Maryland	No Report Date Given	N
TR-229	Scholl Canyon Landfill Gas Flares No. 9, 10 11 and 12 Emission Source Testing April 1999	Scholl Canyon		CA	4/26/99 - 4/29/99	South Coast Air Quality Management District	April 1999	Y
TR-230	Test Report - Fitchburg, Massachusetts Landfill	Fitchburg	Fitchburg	MA	8/5/98	Organic Waste Technologies	8/18/98	N
TR-231	Test Report - Lowell, Massachusetts Landfill	Lowell	Lowell	MA	8/5/98	Organic Waste Technologies	8/18/98	N
TR-232	Test Report - Cranberry Creek Landfill	Cranberry Creek		WI	7/5/99	Superior Services	7/20/99	N
TR-233	Test Report - Santiago Canyon Landfill Flare No. 1	Santiago Canyon		CA	8/2/95	No Origin Given	9/12/95	N
TR-234	Test Report - Oak Ridge Landfill	Oak Ridge	Valley Park	MO	6/13/97	Superior Services, Inc.	6/24/97	N
TR-235	Test Report - Coachella Valley Disposal Site	Coachella Valley Disposal Site	Coachella	CA	7/1/99	Riverside County WRMD	7/9/99	N
TR-236	Landfill Gas Flare Hydrogen Chloride Emissions Atascocita Landfill	Atascocita	Humble	TX	2/4/99	Waste Management of Houston	4/20/99	Y
TR-237	Test Report - Shoosmith Landfill	Shoosmith	Chester	VA	4/30/97	Shoosmith Brothers, Inc.	5/13/97	N
TR-238	Test Report - Burlington LFG Plant	Burlington	Waitsfield	VA	8/20/93	Zapco Energy Tactics	11/10/93	N
TR-239	Test Report - Cumberland County Landfill	Cumberland County	Millville	NJ	8/10/95	No Origin Given	8/23/95	N
TR-240	Test Report - Roanoke Regional Municipal Landfill	Roanoke Regional Municipal	Rutrough	VA	1/19/96	Roanoke County	March 1996	N
TR-241	Performance Evaluation, Enclosed Landfill Gas Flare, Valley Landfill	Valley	Irwin	PA	11/26/91	Waste Energy Technology	November 1991	Y
TR-242	Enclosed Flare Inlet at Chester County Solid Waste Authority Lanchester Landfill	Lanchester	Honeybrook	PA	8/28/96	Allegheny Energy Resources	9/9/96	N
TR-243	Test Report - ELDA Recycling and Disposal Facility	ELDA Recycling and Disposal Facility	Cincinnati	OH	10/16/97	Thompson, Hine & Flory, PLL	11/5/97	N
TR-244	Test Report - New Cut Landfill	New Cut		MD	11/8/96, 11/15/96	No Origin Given	12/6/96	N
TR-245	Test Report - Monmouth County Reclamation Center Phase II	Monmouth County Reclamation Center Phase II	Tinton Falls	NJ	6/2/94	No Origin Given	6/10/94	N
TR-246	Test Report - Blackburn Landfill	Blackburn		NC	9/4/97	No Origin Given	9/15/97	N
TR-247	Test Report - Hanes Mill Road Sanitary Landfill	Hanes Mill Road	Winston-Salem	NC	3/8/95	No Origin Given	3/14/95	N
TR-248	Landfill Gas Test Program Oaks Sanitary Landfill	Oaks	Laytonsville	MD	7/20/95	Montgomery County Department of Environmental Protection	9/7/95	N
TR-249	Test Report - Mead Valley Landfill	Mead Valley		CA	1/19/99	Riverside County WRMD	10/19/99	N
TR-250	Test Report - Mead Valley Landfill	Mead Valley		CA	5/20/99	Riverside County WRMD	10/19/99	N
TR-251	Emission Compliance Test on a Landfill Gas Flare - Flare #1, Frank R. Bowerman Landfill	Bowerman	Irvine	CA	10/28/98	Orange County	1/25/99	Y
TR-252	Emission Compliance Test on a Landfill Gas Flare -Chiquita Canyon Landfill	Chiquita Canyon	Valencia	CA	8/29/95	Laidlaw Waste Systems	9/27/95	Y
TR-253	Emission Source Testing on Two Flares (Nos. 3 and 6) at the Spadra Landfill	Spadra	Spadra	CA	5/20/98 - 5/21/98	Los Angeles County Sanitation Districts	7/21/98	Y
TR-254	Emission Test on Palos Verdes Flare Station No. 3	Palos Verdes	Rolling Hills Estates	CA	10/11/89 - 10/12/89	Los Angeles County Sanitation Districts	January 1990	Y
TR-255	Emission Compliance Test on a Landfill Gas Flare -Olinda Alpha Landfill	Olinda Alpha	Brea	CA	9/22/98	Orange County Integrated Waste Management Department	No Report Date Given	Y
TR-256	Emission Test Results of a Sur-Lite Landfill Gas Flare	Milliken	Ontario	CA	6/10/97	San Bernardino County Solid Waste Management	June 1997	Y
TR-257	Compliance Test Report, Gas Flare No. 2 Source Test Report, City of Sacramento Landfill Gas Flare	Palos Verdes City of Sacramento	Rolling Hills Estates	CA	12/9/97	Los Angeles County Sanitation Districts	2/12/98	Y
TR-258	The Millikan Sanitary Landfill Gas Flare No. 1 (Surfite) 1998 Source Test Results	Milliken	Sacramento	CA	6/17/96	City of Sacramento	6/26/96	Y
TR-259			Ontario	CA	7/23/98	South Coast Air Quality Management District	9/29/98	Y

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-260	The Milliken Sanitary Landfill Gas Flare No. 2 (John Zink) 1998 Source Test Results	Milliken	Ontario	CA	7/21/98	South Coast Air Quality Management District	9/29/98	Y
TR-261	The Milliken Sanitary Landfill Gas Flare No. 3 (John Zink) 1998 Source Test Results	Milliken	Ontario	CA	7/22/98	South Coast Air Quality Management District	9/29/98	Y
TR-262	Emissions Test Results of a John Zink Landfill Gas Flare	Milliken	Ontario	CA	6/9/97	San Bernardino County Solid Waste Management	June 1997	Y
TR-263	Annual Emissions Test of a Landfill Gas Flare	Pick Your Part	Wilmington	CA	3/31/94	South Coast Air Quality Management District	4/22/94	Y
TR-264	Emission Compliance Test on a Landfill Gas Flare	Prima Deshecha	San Juan Capistrano	CA	10/30/98	Orange County Integrated Waste Management Department	No Report Date Given	Y
TR-265	Test Report - Burlington County, NJ Compliance Source Test Report - Landfill Gas-Fired Engine	Burlington County Landfill Name Not Given		NJ	4/14/99	No Origin Given	4/26/99	N
TR-266	Report on Emissions Test of a Landfill Gas Flare - Olinda Alpha Landfill		Corona	CA	1/28/98	Minnesota Methane	3/3/98	Y
TR-267		Olinda Alpha	Brea	CA	12/30/96	Orange County Integrated Waste Management Department	2/28/97	Y
TR-268	Emission Testing at PERG - Maximum Boiler Load	Puente Hills		CA	10/27/86 - 10/30/86, 11/22/86, 11/24/86 - 11/25/86	County Sanitation Districts of Los Angeles County	December 1986	Y
TR-269	Test Report - Ox Mountain Landfill	Ox Mountain	Half Moon Bay	CA	4/29/99	Browning-Ferris Industries	5/7/99	N
TR-270	Test Report - Ox Mountain Landfill	Ox Mountain	Half Moon Bay	CA	10/2/98	Browning-Ferris Industries	10/12/98	N
TR-271	Test Report - Seneca Meadows Landfill	Seneca Meadows		NY	3/20/97	No Origin Given	4/4/97	N
TR-272	Source Testing Final Report - Landfill A	Landfill A			11/1/02 - 11/2/02	US EPA Air Pollution Prevention and Control Division	10/6/05	Y
TR-273	Source Testing Final Report - Landfill B	Landfill B			11/4/02 - 11/5/02	US EPA Air Pollution Prevention and Control Division	10/6/05	Y
TR-274	Test Report - Los Reales Landfill	Los Reales	Tucson	AZ	10/15/97	No Origin Given	11/7/97	N
TR-275	Test Report - Woodland Landfill	Woodland			10/1/97, 10/6/97	No Origin Given	10/17/97	N
TR-276	Test Report - Lamb Canyon Landfill	Lamb Canyon		CA	12/8/98	Riverside County WRMD	10/19/99	N
TR-277	Test Report - Badlands Landfill	Badlands		CA	11/12/97	Riverside County WRMD	10/19/99	N
TR-278	Test Report - Edom Hill Landfill	Edom Hill		CA	1/14/99 - 1/15/99	Riverside County WRMD	2/5/99	N
TR-279	Test Report - Highgrove Landfill	Highgrove		CA	9/8/98	Riverside County WRMD	10/19/99	N
TR-280	Test Report - Highgrove Landfill	Highgrove		CA	6/17/99	Riverside County WRMD	10/19/99	N
TR-281	Test Report - Badlands Landfill	Badlands		CA	12/8/98	Riverside County WRMD	12/11/98	N
TR-282	Test Report - Corona Landfill	Corona		CA	6/17/99	Riverside County WRMD	6/25/99	N
TR-283	Test Report - West Riverside Landfill	West Riverside		CA	12/8/98	Riverside County WRMD	12/10/98	N
TR-284	Source Testing Final Report - Landfill C	Landfill C			5/13/04 - 5/14/04	US EPA Air Pollution Prevention and Control Division	10/6/05	Y
TR-285	Test Report - Mead Valley Landfill	Mead Valley		CA	12/8/98	Riverside County WRMD	12/29/98	N
TR-286	Test Report - Nashua, New Hampshire Landfill	Nashua	Nashua	NH	8/5/98	Organic Waste Technologies	8/18/98	N
TR-287	Source Testing Final Report - Landfill D	Landfill D			5/15/04 - 5/16/04	US EPA Air Pollution Prevention and Control Division	10/6/05	Y
TR-288	Test Report - YSDI Landfill	YSDI	Marysville	CA	1/15/98	Norcal	1/19/98	N
TR-289	Annual Emissions Test of Landfill Gas Flare #1 Bradley Landfill	Bradley			6/12/97, 7/8/97	Waste Management Recycling and Disposal Services of California, Inc.	7/23/97	Y
TR-290	San Timoteo Sanitary Landfill 1998 Source Test Results	San Timoteo	Redlands	CA	7/14/98	San Bernardino County Solid Waste Management	9/29/98	Y

Appendix B. List of Test Reports Considered in Update

Test Report	Report Title	Landfill Name	Landfill City	Landfill State	Test Dates	Test Origin	Report Date	Complete Report?
TR-291	PCDD/PCDF Emissions Tests on the Palos Verdes Energy Recovery from Landfill Gas (PVERG) Facility, Unit 2	Palos Verdes		CA	11/23/93 - 11/24/93	County Sanitation Districts of Los Angeles County	February 1994	Y
TR-292	Source Testing Final Report - Landfill E	Landfill E			6/22/05 - 6/23/05	US EPA Air Pollution Prevention and Control Division	October 2005	Y
TR-293	Quantifying Uncontrolled Air Emissions from Two Florida Landfills	Sites 1 and 2		FL	February and October 2007	US EPA Air Pollution Prevention and Control Division	3/26/2008	Y

APPENDIX C. LANDFILL GAS CONSTITUENTS (UNCORRECTED CONCENTRATIONS)

Compound	Number of Test Reports	Minimum (ppm)	Maximum (ppm)	Mean (ppm)	Standard Deviation (ppm)	95% Confidence Limit (ppm)
1,1,1-Trichloroethane	40	2.10E-03	7.84E-01	2.07E-01	2.21E-01	6.86E-02
1,1,2,2-Tetrachloroethane	3	2.97E-02	1.31E+00	6.58E-01	6.39E-01	7.23E-01
1,1,2,3,4,4-Hexachloro-1,3-butadiene (Hexachlorobutadiene)	3	1.00E-03	5.33E-03	2.61E-03	2.37E-03	2.68E-03
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	13	2.00E-03	4.47E-01	4.99E-02	1.20E-01	6.52E-02
1,1,2'-Trichloroethane	6	6.54E-03	5.43E-01	1.76E-01	2.48E-01	1.98E-01
1,1-Dichloroethane	43	3.48E-03	1.54E+01	1.79E+00	2.61E+00	7.81E-01
1,1-Dichloroethene (1,1-Dichloroethylene)	39	2.00E-03	1.17E+00	1.40E-01	2.29E-01	7.18E-02
1,2,3-Trimethylbenzene	9	2.53E-01	1.88E+00	8.97E-01	6.14E-01	4.01E-01
1,2,4-Trichlorobenzene	11	8.40E-04	1.27E-02	5.29E-03	3.53E-03	2.08E-03
1,2,4-Trimethylbenzene	19	1.90E-01	6.31E+00	2.10E+00	1.75E+00	7.88E-01
1,2-Dibromoethane (Ethylene dibromide)	12	1.33E-03	2.07E-02	4.21E-03	5.41E-03	3.06E-03
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	18	7.67E-03	4.12E-01	1.24E-01	1.20E-01	5.53E-02
1,2-Dichloroethane (Ethylene dichloride)	38	1.00E-03	3.54E+00	2.30E-01	6.67E-01	2.12E-01
1,2-Dichloroethene	1			1.11E+01		
1,2-Dichloropropane	6	7.35E-04	1.93E-01	3.86E-02	7.67E-02	6.13E-02
1,2-Diethylbenzene	9	1.38E-02	2.82E-01	6.74E-02	8.30E-02	5.42E-02
1,3,5-Trimethylbenzene	15	1.47E-01	2.20E+00	8.52E-01	6.06E-01	3.07E-01
1,3-Butadiene (Vinyl ethylene)	7	2.20E-02	6.42E-01	1.73E-01	2.32E-01	1.72E-01
1,3-Diethylbenzene	10	2.23E-02	2.07E-01	1.18E-01	6.99E-02	4.33E-02
1,4-Dichlorobutane	1			3.84E-02		
1,4-Diethylbenzene	10	8.96E-02	1.02E+00	4.93E-01	3.37E-01	2.09E-01
1,4-Dioxane (1,4-Diethylene dioxide)	5	2.03E-03	1.24E-02	7.81E-03	3.84E-03	3.37E-03
1-Butene / 2-Methylbutene	3	8.56E-01	1.42E+00	1.21E+00	3.08E-01	3.48E-01
1-Butene / 2-Methylpropene	7	3.47E-01	3.62E+00	1.18E+00	1.11E+00	8.25E-01
1-Ethyl-4-methylbenzene (4-Ethyl toluene)	13	1.14E-01	2.82E+00	9.04E-01	8.90E-01	4.84E-01
1-Ethyl-4-methylbenzene (4-Ethyl toluene) + 1,3,5-Trimethylbenzene	4	7.93E-02	9.76E-01	5.84E-01	4.26E-01	4.17E-01
1-Heptene	2	4.22E-01	8.03E-01	6.12E-01	2.69E-01	3.73E-01
1-Hexene / 2-Methyl-1-pentene	3	1.25E-02	2.19E-01	8.78E-02	1.14E-01	1.29E-01
1-Methylcyclohexene	10	1.32E-02	8.87E-02	3.42E-02	2.47E-02	1.53E-02
1-Methylcyclopentene	10	2.83E-03	6.59E-02	2.87E-02	1.92E-02	1.19E-02
1-Nonene	2	9.29E-03	3.69E-01	1.89E-01	2.54E-01	3.53E-01
1-Octene	2	1.82E-01	5.31E+00	2.74E+00	3.62E+00	5.02E+00
1-Pentene	10	2.21E-02	1.02E+00	2.09E-01	3.17E-01	1.97E-01
1-Propanethiol (n-Propyl mercaptan)	23	1.40E-04	4.73E-01	1.16E-01	1.18E-01	4.84E-02
2,2,3-Trimethylbutane	5	4.53E-03	1.39E-02	9.92E-03	3.87E-03	3.39E-03
2,2,4-Trimethylpentane	11	4.83E-02	8.03E-01	4.54E-01	2.47E-01	1.46E-01
2,2,5-Trimethylhexane	10	1.62E-02	3.85E-01	1.56E-01	1.00E-01	6.22E-02
2,2-Dimethylbutane	10	1.65E-02	2.25E-01	1.41E-01	7.30E-02	4.52E-02
2,2-Dimethylhexane	4	6.58E-03	3.48E-01	1.32E-01	1.59E-01	1.56E-01
2,2-Dimethylpentane	9	1.94E-02	1.68E-01	6.89E-02	4.58E-02	2.99E-02
2,2-Dimethylpropane	2	7.17E-03	2.70E-02	1.71E-02	1.40E-02	1.94E-02
2,3,4-Trimethylpentane	10	1.40E-02	4.66E-01	2.40E-01	1.22E-01	7.55E-02
2,3-Dimethylbutane	10	1.97E-02	3.66E-01	1.73E-01	9.16E-02	5.68E-02
2,3-Dimethylpentane	10	2.04E-02	3.70E-01	2.37E-01	1.04E-01	6.47E-02
2,4-Dimethylhexane	9	1.74E-01	1.57E+00	4.30E-01	4.79E-01	3.13E-01
2,4-Dimethylpentane	9	6.54E-02	2.72E-01	1.24E-01	6.62E-02	4.32E-02
2,5-Dimethylhexane	10	1.50E-02	1.50E+00	3.30E-01	4.44E-01	2.75E-01
2,5-Dimethylthiophene	1			6.42E-02		
2-Butanone (Methyl ethyl ketone)	8	2.73E-01	9.43E+00	4.07E+00	3.30E+00	2.29E+00
2-Ethyl-1-butene	10	9.36E-03	9.69E-02	3.45E-02	3.16E-02	1.96E-02
2-Ethylthiophene	1			6.27E-02		
2-Ethyltoluene	10	1.30E-01	1.49E+00	6.31E-01	4.78E-01	2.97E-01
2-Hexanone (Methyl butyl ketone)	2	4.41E-01	5.57E-01	4.99E-01	8.20E-02	1.14E-01

APPENDIX C. LANDFILL GAS CONSTITUENTS (UNCORRECTED CONCENTRATIONS)

Compound	Number of Test Reports	Minimum (ppm)	Maximum (ppm)	Mean (ppm)	Standard Deviation (ppm)	95% Confidence Limit (ppm)
2-Methyl-1-butene	8	5.33E-02	5.93E-01	1.96E-01	1.86E-01	1.29E-01
2-Methyl-1-propanethiol (Isobutyl mercaptan)	1			1.70E-01		
2-Methyl-2-butene	10	9.50E-02	4.07E-01	2.71E-01	9.54E-02	5.91E-02
2-Methyl-2-propanethiol (tert-Butylmercaptan)	1			3.24E-01		
2-Methylbutane	10	9.49E-02	7.23E+00	1.13E+00	2.16E+00	1.34E+00
2-Methylheptane	10	8.69E-02	1.28E+01	2.17E+00	3.92E+00	2.43E+00
2-Methylhexane	9	1.17E-01	2.52E+00	8.39E-01	6.81E-01	4.45E-01
2-Methylpentane	10	1.63E-01	2.41E+00	8.49E-01	5.97E-01	3.70E-01
2-Propanol (Isopropyl alcohol)	6	1.14E-01	6.63E+00	1.92E+00	2.44E+00	1.95E+00
3,6-Dimethyloctane	9	1.13E-01	1.50E+00	7.17E-01	3.92E-01	2.56E-01
3-Ethyltoluene	10	3.35E-01	3.13E+00	1.35E+00	9.42E-01	5.84E-01
3-Methyl-1-butene	1			6.30E-02		
3-Methyl-1-pentene	3	4.33E-03	1.03E-02	6.78E-03	3.09E-03	3.50E-03
3-Methylheptane	10	2.84E-01	1.55E+01	2.50E+00	4.71E+00	2.92E+00
3-Methylhexane	10	1.17E-01	7.34E+00	1.56E+00	2.08E+00	1.29E+00
3-Methylpentane	10	1.14E-01	2.72E+00	9.34E-01	7.08E-01	4.39E-01
3-Methylthiophene	1			9.23E-02		
4-Methyl-1-pentene	1			2.33E-02		
4-Methyl-2-pentanone (MIBK)	7	7.58E-02	2.17E+00	8.40E-01	6.91E-01	5.12E-01
4-Methylheptane	10	3.14E-02	5.03E+00	8.03E-01	1.53E+00	9.50E-01
Acetaldehyde	5	1.48E-02	1.91E-01	8.29E-02	7.61E-02	6.67E-02
Acetone	9	3.28E-01	1.55E+01	6.82E+00	5.62E+00	3.67E+00
Acetonitrile	20	1.32E-01	2.47E+00	5.32E-01	5.03E-01	2.20E-01
Acrylonitrile		BDLa				
Benzene	48	7.30E-02	2.13E+01	2.17E+00	3.34E+00	9.44E-01
Benzyl chloride	26	1.72E-03	2.94E-02	1.76E-02	7.77E-03	2.99E-03
Bromodichloromethane	4	2.67E-03	1.64E-01	6.80E-02	7.65E-02	7.50E-02
Bromomethane (Methyl bromide)	7	2.50E-03	4.57E-02	1.80E-02	1.62E-02	1.20E-02
Butane	15	3.12E-01	3.79E+01	4.26E+00	9.41E+00	4.76E+00
Carbon disulfide	35	2.80E-04	3.40E-01	1.40E-01	8.30E-02	2.75E-02
Carbon tetrachloride	31	8.30E-04	3.82E-02	7.62E-03	7.92E-03	2.79E-03
Carbon tetrafluoride (Freon 14)	1			1.49E-01		
Carbonyl sulfide (Carbon oxy sulfide)	30	1.00E-04	2.70E-01	1.21E-01	7.09E-02	2.54E-02
Chlorobenzene	43	2.07E-02	6.76E+00	5.52E-01	1.18E+00	3.52E-01
Chlorodifluoromethane (Freon 22)	11	1.12E-01	1.48E+00	6.17E-01	4.62E-01	2.73E-01
Chloroethane (Ethyl chloride)	17	1.17E-02	3.04E+01	2.51E+00	7.31E+00	3.48E+00
Chloromethane (Methyl chloride)	14	1.79E-03	1.26E+00	2.17E-01	3.23E-01	1.69E-01
cis-1,2-Dichloroethene	23	3.97E-03	6.51E+00	1.24E+00	1.38E+00	5.66E-01
cis-1,2-Dimethylcyclohexane	9	3.03E-02	2.07E+00	3.23E-01	6.63E-01	4.33E-01
cis-1,3-Dichloropropene	5	2.27E-04	4.91E-02	1.22E-02	2.08E-02	1.82E-02
cis-1,3-Dichloropropene / trans-1,3-Dichloropropene	1			8.48E-03		
cis-1,3-Dimethylcyclohexane	10	1.69E-01	1.20E+01	1.89E+00	3.66E+00	2.27E+00
cis-1,4-Dimethylcyclohexane / trans-1,3-Dimethylcyclohexane	10	7.41E-02	6.92E+00	9.67E-01	2.11E+00	1.31E+00
cis-2-Butene	10	4.37E-02	3.30E-01	1.25E-01	8.11E-02	5.03E-02
cis-2-Heptene	4	2.44E-02	7.99E-02	4.70E-02	2.62E-02	2.57E-02
cis-2-Hexene	6	8.53E-03	2.48E-02	1.63E-02	5.52E-03	4.42E-03
cis-2-Octene	6	1.50E-03	2.74E-01	1.50E-01	1.13E-01	9.03E-02
cis-2-Pentene	9	3.43E-03	7.37E-02	3.69E-02	2.59E-02	1.69E-02
cis-3-Heptene	2	8.76E-03	1.94E-02	1.41E-02	7.49E-03	1.04E-02
cis-3-Methyl-2-pentene	7	1.18E-02	8.62E-02	2.96E-02	2.55E-02	1.89E-02
cis-4-Methyl-2-pentene	4	8.00E-03	1.00E-01	3.92E-02	4.34E-02	4.25E-02
CO	10	0.00E+00	7.70E+01	2.09E+01	2.84E+01	1.76E+01
Cyclohexane	16	8.73E-02	3.36E+00	1.12E+00	1.05E+00	5.16E-01

APPENDIX C. LANDFILL GAS CONSTITUENTS (UNCORRECTED CONCENTRATIONS)

Compound	Number of Test Reports	Minimum (ppm)	Maximum (ppm)	Mean (ppm)	Standard Deviation (ppm)	95% Confidence Limit (ppm)
Cyclohexene	9	3.95E-03	3.55E-02	1.91E-02	7.07E-02	6.66E-03
Cyclopentane	10	4.57E-03	2.34E-01	7.18E-02	7.07E-02	4.38E-02
Cyclopentene	10	7.06E-04	2.74E-02	9.40E-03	9.18E-03	5.69E-03
Decane	10	1.74E+00	7.64E+00	4.47E+00	2.30E+00	1.43E+00
Dibromochloromethane	3	8.67E-03	1.60E-02	1.35E-02	4.15E-03	4.70E-03
Dibromomethane (Methylene dibromide)	2	6.37E-04	1.03E-03	8.35E-04	2.81E-04	3.89E-04
Dichlorobenzene	74	2.86E-04	5.48E+00	7.76E-01	1.20E+00	2.73E-01
Dichlorodifluoromethane (Freon 12)	20	7.69E-02	6.38E+00	1.04E+00	1.37E+00	6.02E-01
Dichlorofluoromethane (Freon 21)	1			1.57E-02		
Dichloromethane (Methylene chloride)	50	5.08E-03	4.01E+01	5.15E+00	7.57E+00	2.10E+00
Diethyl sulfide	1			8.60E-02		
Dimethyl disulfide	26	2.20E-04	4.20E-01	1.29E-01	9.66E-02	3.71E-02
Dimethyl sulfide	30	7.20E-03	1.43E+01	5.55E+00	3.71E+00	1.33E+00
Dodecane (n-Dodecane)	10	4.32E-02	6.76E-01	2.58E-01	2.28E-01	1.41E-01
Ethane	5	4.63E+00	1.43E+01	8.85E+00	4.68E+00	4.10E+00
Ethanol	5	1.97E-02	3.94E-01	2.22E-01	1.45E-01	1.27E-01
Ethyl acetate	6	1.59E-01	4.60E+00	1.81E+00	1.59E+00	1.27E+00
Ethyl mercaptan (Ethanedithiol)	31	5.80E-05	8.33E-01	1.89E-01	1.88E-01	6.63E-02
Ethyl methyl sulfide	1			3.66E-02		
Ethylbenzene	22	5.76E-01	4.02E+01	7.60E+00	8.89E+00	3.72E+00
Formaldehyde	5	2.93E-03	2.73E-02	1.23E-02	1.09E-02	9.57E-03
Heptane	16	1.25E-01	9.16E+00	2.00E+00	2.36E+00	1.15E+00
Hexane	23	1.16E-01	2.84E+01	3.01E+00	5.74E+00	2.35E+00
Hexylbenzene	3	7.41E-05	1.07E-03	6.18E-04	5.06E-04	5.72E-04
Hydrogen chloride	1			3.50E+00		
Hydrogen sulfide	37	9.80E-04	3.22E+02	3.04E+01	5.35E+01	1.72E+01
Indan (2,3-Dihydroindene)	10	2.24E-02	2.76E-01	1.31E-01	9.28E-02	5.75E-02
Isobutane (2-Methylpropane)	10	5.55E-01	1.64E+01	6.20E+00	4.85E+00	3.01E+00
Isobutylbenzene	10	1.57E-02	1.37E-01	7.03E-02	4.20E-02	2.60E-02
Isoprene (2-Methyl-1,3-butadiene)	7	5.12E-03	1.27E-01	4.43E-02	4.41E-02	3.27E-02
Isopropyl mercaptan	25	3.60E-05	1.19E+00	1.68E-01	2.49E-01	9.77E-02
Isopropylbenzene (Cumene)	11	7.18E-02	3.13E+00	7.90E-01	8.94E-01	5.29E-01
Methanethiol (Methyl mercaptan)	30	9.40E-04	3.91E+00	1.34E+00	8.93E-01	3.19E-01
Methyl tert-butyl ether (MTBE)	5	3.20E-03	2.57E-01	1.06E-01	1.07E-01	9.34E-02
Methylcyclohexane	10	2.14E-01	1.15E+01	2.84E+00	3.72E+00	2.31E+00
Methylcyclopentane	10	8.74E-02	2.92E+00	9.34E-01	9.73E-01	6.03E-01
Naphthalene	10	7.91E-03	5.41E-01	1.77E-01	1.61E-01	1.00E-01
n-Butylbenzene	10	2.11E-02	2.51E-01	1.29E-01	8.03E-02	4.98E-02
Nonane	10	1.46E+00	3.27E+01	6.58E+00	9.97E+00	6.18E+00
n-Propylbenzene (Propylbenzene)	11	1.24E-01	1.33E+00	6.06E-01	3.87E-01	2.29E-01
Octane	10	2.68E-01	3.38E+01	4.69E+00	1.03E+01	6.40E+00
p-Cymene (1-Methyl-4-Isopropylbenzene)	11	4.20E-01	8.05E+00	3.38E+00	2.77E+00	1.64E+00
Penitane	15	1.72E-01	2.66E+01	3.21E+00	6.56E+00	3.32E+00
Propane	15	1.01E+00	4.00E+01	1.21E+01	1.06E+01	5.35E+00
Propene	10	4.90E-01	8.47E+00	2.88E+00	2.35E+00	1.46E+00
Propyne	2	3.75E-02	4.20E-02	3.98E-02	3.21E-03	4.44E-03
sec-Butylbenzene	10	2.49E-02	2.75E-01	1.20E-01	7.82E-02	4.85E-02
Styrene (Vinylbenzene)	20	3.93E-03	1.27E+00	3.21E-01	4.30E-01	1.89E-01
tert-Butylbenzene	4	9.58E-03	3.90E-02	2.40E-02	1.34E-02	1.32E-02
Tetrachloroethylene (Perchloroethylene)	47	1.55E-03	8.06E+00	1.78E+00	1.81E+00	5.19E-01
Tetrahydrofuran (Diethylene oxide)	7	1.53E-01	2.06E+00	9.51E-01	6.29E-01	4.66E-01
Thiophene	2	1.24E-01	5.71E-01	3.48E-01	3.16E-01	4.38E-01
Toluene (Methyl benzene)	47	1.30E+00	1.08E+02	3.02E+01	2.49E+01	7.11E+00

APPENDIX C. LANDFILL GAS CONSTITUENTS (UNCORRECTED CONCENTRATIONS)

Compound	Number of Test Reports	Minimum (ppm)	Maximum (ppm)	Mean (ppm)	Standard Deviation (ppm)	95% Confidence Limit (ppm)
trans-1,2-Dichloroethene	13	3.00E-03	8.67E-02	3.67E-02	2.32E-02	1.26E-02
trans-1,2-Dimethylcyclohexane	10	1.26E-01	7.98E+00	1.25E+00	2.42E+00	1.50E+00
trans-1,3-Dichloropropene	5	3.20E-04	3.27E-02	9.88E-03	1.31E-02	1.15E-02
trans-1,4-Dimethylcyclohexane	10	4.37E-02	5.69E+00	8.45E-01	1.74E+00	1.08E+00
trans-2-Butene	9	2.85E-02	3.80E-01	1.25E-01	1.04E-01	6.80E-02
trans-2-Heptene	2	2.49E-03	1.71E-02	9.82E-03	1.04E-02	1.44E-02
trans-2-Hexene	6	1.11E-02	3.24E-02	2.20E-02	8.15E-03	6.52E-03
trans-2-Octene	7	1.10E-01	1.46E+01	2.74E+00	5.36E+00	3.97E+00
trans-2-Pentene	10	5.72E-03	7.43E-02	3.18E-02	2.58E-02	1.60E-02
trans-3-Heptene	3	2.57E-03	1.54E-01	8.06E-02	7.60E-02	8.60E-02
trans-3-Methyl-2-pentene	7	4.07E-03	7.32E-02	2.26E-02	2.31E-02	1.71E-02
Tribromomethane (Bromoform)	4	4.23E-04	2.61E-02	1.29E-02	1.08E-02	1.06E-02
Trichloroethylene (Trichloroethene)	49	1.95E-03	3.10E+00	7.55E-01	6.55E-01	1.83E-01
Trichlorofluoromethane (Freon 11)	22	6.90E-03	6.95E-01	2.14E-01	1.95E-01	8.15E-02
Trichloromethane (Chloroform)	36	1.46E-03	7.43E-01	6.67E-02	1.52E-01	4.95E-02
Undecane	10	6.08E-01	3.11E+00	1.76E+00	8.73E-01	5.41E-01
Vinyl acetate	6	2.37E-02	6.86E-01	1.92E-01	2.55E-01	2.04E-01
Vinyl chloride (Chloroethene)	48	6.20E-03	1.56E+01	1.23E+00	2.43E+00	6.88E-01
Xylenes (o-, m-, p-, mixtures)	92	3.00E-01	1.08E+02	1.06E+01	1.39E+01	2.83E+00

^a All tests below detection limit. The method detection limits are available for three tests, and are as follows: 2.00E-04, 4.00E-03, and 2.00E-02 ppm

Appendix D
VOC Fraction Analysis

Summary Statistics

Count	34
Mean	0.997
Min	0.95
Max	1.00
StDev	0.01
95% CI	0.00

Test Report ID	Compound Synonym	Corrected Average Concentration (ppm)	VOC Fraction	Carbons	Compound as hexane (ppm)
TR-145	NMOC (as C6H8)	6.35E+02			
TR-145	1,1,1-Trichloroethane	2.02E-01		2	6.74E-02
TR-145	Acetone	6.48E+00		3	3.24E+00
	VOC Fraction		0.99		
TR-165	NMOC (as C6H8)	7.13E+02			
TR-165	1,1,1-Trichloroethane	9.83E-03		2	3.28E-03
	VOC Fraction		1.00		
TR-167	NMOC (as C6H8)	6.73E+02			
TR-167	1,1,1-Trichloroethane	8.05E-03		2	2.68E-03
	VOC Fraction		1.00		
TR-168	1,1,1-Trichloroethane	1.94E-01		2	6.47E-02
TR-168	NMOC (as C6H8)	1.31E+03			
	VOC Fraction		1.00		
TR-169	1,1,1-Trichloroethane	2.18E-01		2	7.27E-02
TR-169	NMOC (as C6H8)	1.39E+03			
	VOC Fraction		1.00		
TR-171	NMOC (as C6H8)	1.02E+03			
TR-171	1,1,1-Trichloroethane	5.21E-01		2	1.74E-01
	VOC Fraction		1.00		
TR-173	NMOC (as C6H8)	1.43E+03			
TR-173	1,1,1-Trichloroethane	6.82E-02		2	2.27E-02
	VOC Fraction		1.00		
TR-175	NMOC (as C6H8)	1.61E+02			
TR-175	1,1,1-Trichloroethane	9.12E-02		2	3.04E-02
	VOC Fraction		1.00		
TR-176	NMOC (as C6H8)	6.23E+02			
TR-176	1,1,1-Trichloroethane	3.02E-02		2	1.01E-02
	VOC Fraction		1.00		
TR-178	NMOC (as C6H8)	1.95E+03			
TR-178	1,1,1-Trichloroethane	3.31E-02		2	1.10E-02
	VOC Fraction		1.00		
TR-181	NMOC (as C6H8)	6.49E+02			
TR-181	1,1,1-Trichloroethane	2.68E-01		2	8.94E-02
	VOC Fraction		1.00		
TR-182	NMOC (as C6H8)	5.96E+02			
TR-182	1,1,1-Trichloroethane	2.52E-01		2	8.38E-02
	VOC Fraction		1.00		
TR-183	1,1,1-Trichloroethane	2.56E-02		2	8.54E-03
TR-183	NMOC (as C6H8)	7.34E+02			
	VOC Fraction		1.00		
TR-187	NMOC (as C6H8)	8.70E+02			
TR-187	1,1,1-Trichloroethane	7.22E-01		2	2.41E-01
	VOC Fraction		1.00		

VOC Fraction Analysis

TR-196	NMOC (as C6H8)	8.89E+02			
TR-196	1,1,1-Trichloroethane	1.78E-01		2	5.94E-02
	VOC Fraction		1.00		
TR-205	NMOC (as C6H8)	6.47E+02			
TR-205	1,1,1-Trichloroethane	2.59E-01		2	8.63E-02
	VOC Fraction		1.00		
TR-207	NMOC (as C6H8)	1.39E+03			
TR-207	1,1,1-Trichloroethane	1.92E+00		2	6.40E-01
	VOC Fraction		1.00		
TR-209	Acetone	8.78E+00		3	4.39E+00
TR-209	NMOC (as C6H8)	5.36E+02			
	VOC Fraction		0.99		
TR-220	NMOC (as C6H8)	7.04E+02			
TR-220	1,1,1-Trichloroethane	3.16E-01		2	1.05E-01
	VOC Fraction		1.00		
TR-229	NMOC (as C6H8)	5.64E+02			
TR-229	1,1,1-Trichloroethane	2.25E-02		2	7.50E-03
	VOC Fraction		1.00		
TR-251	NMOC (as C6H8)	1.07E+03			
TR-251	1,1,1-Trichloroethane	2.74E-01		2	9.14E-02
	VOC Fraction		1.00		
TR-253	NMOC (as C6H8)	5.83E+02			
TR-253	1,1,1-Trichloroethane	1.88E-01		2	6.28E-02
	VOC Fraction		1.00		
TR-255	NMOC (as C6H8)	1.12E+03			
TR-255	1,1,1-Trichloroethane	1.27E-01		2	4.23E-02
	VOC Fraction		1.00		
TR-259	NMOC (as C6H8)	1.35E+03			
TR-259	1,1,1-Trichloroethane	5.59E-01		2	1.86E-01
	VOC Fraction		1.00		
TR-260	1,1,1-Trichloroethane	5.74E-01		2	1.91E-01
TR-260	NMOC (as C6H8)	1.35E+03			
	VOC Fraction		1.00		
TR-261	NMOC (as C6H8)	1.32E+03			
TR-261	1,1,1-Trichloroethane	5.91E-01		2	1.97E-01
	VOC Fraction		1.00		
TR-264	NMOC (as C6H8)	5.37E+02			
TR-264	1,1,1-Trichloroethane	1.61E-01		2	5.36E-02
	VOC Fraction		1.00		
TR-266	NMOC (as C6H8)	2.45E+02			
TR-266	1,1,1-Trichloroethane	5.70E-03		2	1.90E-03
	VOC Fraction		1.00		
TR-272	Ethane	6.35E+00		2	2.12E+00
TR-272	Acetone	3.38E-01		3	1.69E-01
TR-272	NMOC (as C6H8)	3.86E+02			
TR-272	1,1,1-Trichloroethane	5.15E-03		2	1.72E-03
	VOC Fraction		0.99		

VOC Fraction Analysis

TR-273	1,1,1-Trichloroethane	4.59E-02	2	1.53E-02
TR-273	NMOC (as C6H8)	5.26E+02		
TR-273	Ethane	6.87E+00	2	2.29E+00
TR-273	Acetone	2.38E+00	3	1.19E+00
	VOC Fraction	1.00		
TR-284	Acetone	1.07E+01	3	5.37E+00
TR-284	NMOC (as C6H8)	5.39E+03		
TR-284	Ethane	1.32E+01	2	4.38E+00
	VOC Fraction	1.00		
TR-287	NMOC (as C6H8)	8.68E+02		
TR-287	Ethane	4.83E+00	2	1.61E+00
TR-287	Acetone	1.11E+01	3	5.53E+00
	VOC Fraction	0.99		
TR-290	NMOC (as C6H8)	9.72E+02		
TR-290	1,1,1-Trichloroethane	7.99E-01	2	2.66E-01
	VOC Fraction	1.00		
TR-292	NMOC (as C6H8)	2.42E+02		
TR-292	Ethane	1.40E+01	2	4.68E+00
TR-292	Acetone	1.61E+01	3	8.06E+00
	VOC Fraction	0.95		

Appendix E
Raw Landfill Gas Data Plots and Statistics

Appendix E

Table of Contents

Introduction and Explanation	4
Figure 1. Example Statistical Data Plot.....	4
Group A: NMOC Data and Statistics	6
Figure A-1. NMOC Statistical Data Plot.....	7
Figure A-2. NMOC Scatter Plot.....	8
Table A-1. NMOC Data Statistics.....	8
Group B: Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) Data and Statistics	9
Figure B-1. BTEX Statistical Data Plot.....	10
Figure B-2. Benzene Scatter Plot.....	11
Table B-1. Benzene Data Statistics	11
Figure B-3. Toluene Scatter Plot.....	12
Table B-2. Toluene Data Statistics.....	12
Figure B-4. Ethylbenzene Data Plot.....	13
Table B-3. Ethylbenzene Data Statistics	13
Figure B-5. Xylenes (o-, m-, p-, mixtures) Data Plot.....	14
Table B-4. Xylenes (o-, m-, p-, mixtures) Data Statistics	14
Group C: Chlorinated Compounds Data and Statistics	15
Figure C-1. Dichlorobenzene, Trichloroethylene, and Tetrachloroethylene Statistical Data Plot.....	16
Figure C-2. Vinyl chloride and 1,1-Dichloroethane Statistical Data Plot.....	17
Figure C-3. 1,1-Dichloroethene, Trichloromethane, and 1,1,1-Trichloroethane Statistical Data Plot	18
Figure C-4. Dichloromethane Statistical Data Plot.....	19
Figure C-5. Chlorobenzene Statistical Data Plot.....	20
Figure C-6. 1,2-Dichloroethane Statistical Data Plot.....	21
Figure C-7. Carbon Tetrachloride Statistical Data Plot	22
Figure C-8. Dichlorobenzene Data Plot.....	23
Table C-1. Dichlorobenzene Data Statistics.....	23
Figure C-9. Dichloromethane Data Plot.....	24
Table C-2. Dichloromethane Data Statistics	24
Figure C-9. Trichloroethylene Data Plot.....	25
Table C-3. Trichloroethylene Data Statistics	25
Figure C-10. Tetrachloroethylene Data Plot	26
Table C-4. Tetrachloroethylene Data Statistics.....	26
Figure C-11. Vinyl Chloride Data Plot	27
Table C-5. Vinyl Chloride Data Statistics.....	27
Figure C-12. Chlorobenzene Data Plot	28
Table C-6. Chlorobenzene Data Statistics.....	28
Figure C-13. 1,1-Dichloroethane Data Plot.....	29
Table C-7. 1,1-Dichloroethane Data Statistics	29
Figure C-14. 1,1-Dichloroethene Data Plot.....	30
Table C-8. 1,1-Dichloroethene Data Statistics.....	30
Figure C-15. 1,2-Dichloroethane Data Plot.....	31
Table C-9. 1,2-Dichloroethane Data Statistics.....	31

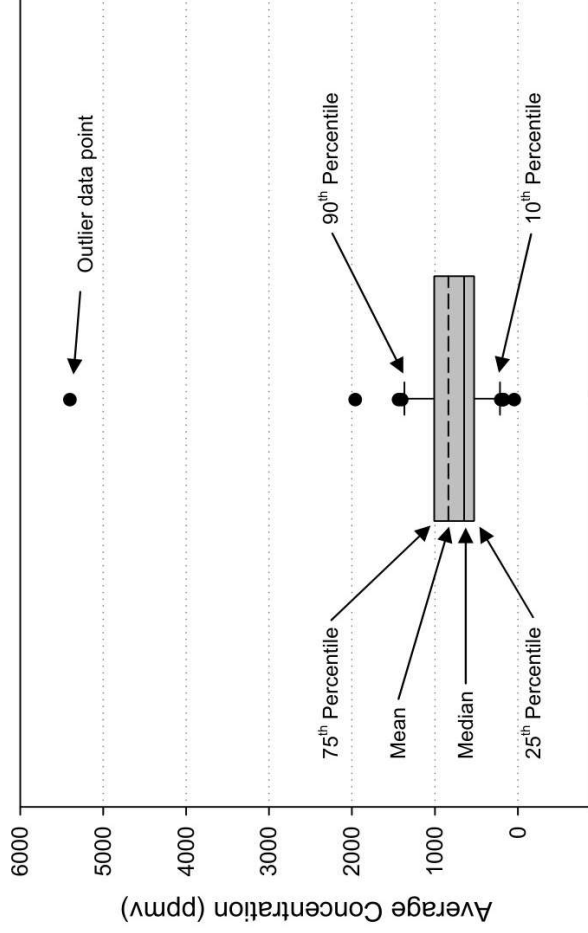
Figure C-16. Trichloromethane Data Plot.....	32
Table C-10. Trichloromethane Data Statistics	32
Figure C-17. 1,1,1-Trichloroethane Data Plot.....	33
Table C-11. 1,1,1-Trichloroethane Data Statistics	33
Figure C-18. Carbon Tetrachloride Data Plot.....	34
Table C-12. Carbon Tetrachloride Data Statistics.....	34
Group D: Sulfur Compounds Data and Statistics.....	
Figure D-1. Hydrogen Sulfide Data Statistics Plot	36
Figure D-2. Carbon Disulfide, Carbonyl Sulfide, and Ethyl Mercaptan Data Statistics Plot	37
Figure D-3. Methyl Mercaptan and Dimethyl Sulfide Data Statistics Plot.....	38
Figure D-4. Dimethyl Disulfide Data Statistics Plot.....	39
Figure D-5. Hydrogen Sulfide Data Plot.....	40
Table D-1. Hydrogen Sulfide Data Statistics	40
Figure D-6. Carbon Disulfide Data Plot.....	41
Table D-2. Carbon Disulfide Data Statistics	41
Figure D-7. Carbonyl Sulfide Data Plot.....	42
Table D-3. Carbonyl Sulfide Data Statistics	42
Figure D-8. Methyl Mercaptan Data Plot.....	43
Table D-4. Methyl Mercaptan Data Statistics	43
Figure D-9. Ethyl Mercaptan Data Plot.....	44
Table D-5. Ethyl Mercaptan Data Statistics.....	44
Figure D-10. Dimethyl Sulfide Data Plot.....	45
Table D-6. Dimethyl Sulfide Data Statistics	45
Figure D-11. Dimethyl Disulfide Data Plot	46
Table D-7. Dimethyl Disulfide Data Statistics.....	46
Group E: Mercury Compounds Data and Statistics.....	
Figure E-19. Total Mercury and Elemental Mercury Data Statistics Plot.....	47
Figure E-2. Monomethyl Mercury and Dimethyl Mercury Data Statistics Plot	48
Figure E-3. Total Mercury Data Plot.....	49
Table E-1. Total Mercury Data Statistics.....	50
Figure E-4. Elemental Mercury Data Plot.....	50
Table E-2. Elemental Mercury Data Statistics	51
Figure E-5. Monomethyl Mercury Data Plot	51
Table E-3. Monomethyl Mercury Data Statistics.....	52
Figure E-6. Dimethyl Mercury Data Plot.....	52
Table E-4. Dimethyl Mercury Data Statistics	53

Introduction and Explanation

The data presented in this appendix for raw landfill gas constituents are organized according to chemical similarity (NMOC, benzene-toluene-ethylbenzene-xylenes (BTEX), chlorinated compounds, sulfur compounds, and mercury compounds). Pollutants in each grouping with similar average concentration ranges were included on the same plot.

The statistical summary plots graph data as a box representing statistical values for the data set. A solid line within the box marks the median while a dashed line marks the mean. The boundary of the box closest to zero indicates the 25th percentile and the boundary of the box farthest from zero indicates the 75th percentile. Error bars above and below the box indicate the 90th and 10th percentiles, respectively. The percentiles indicate the average concentration (ppmv) values at which a certain percentage of the data points fall below the respective percentile value. For example, if the 75th percentile is 1,000 ppmv, then 75 percent of the data points in the set have concentration values less than 1,000 ppmv. All outlying data points are indicated by solid dots. For the data contained in this report, all statistical outliers were included in the calculations to determine the default concentrations (ppmv) for all raw landfill gas constituents because no datum should be rejected solely on the basis of statistical tests since there is a risk of rejecting an emission rate that represents actual emissions.

Figure 1. Example Statistical Data Plot



A minimum number of data points is required to compute each set of percentiles. At least three points are required to compute the 25th and 75th percentiles.

The Standard method was used to calculate percentile values for the statistical summary box plots. For the data values $x_1, x_2, \dots, x_n$, the Standard method utilizes linear interpolation to determine the data percentile value (v) and is calculated as follows¹:

¹ *SigmaPlot® 10.0 User's Guide*. Systat Software, Inc. Point Richmond, CA. 2006.

$$v = (f)(x_i k) + 1 + (1 - f)(x_i k) \quad (\text{Eq. A-1})$$

where,

$$f = \frac{(n+1)p}{100} - k, \quad (\text{Eq. A-2})$$

p = percentile value (i.e., 10, 25, 75, 90), and

$$k = \text{the largest integer} \leq \frac{(n+1)p}{100} \quad (\text{Eq. A-3})$$

The statistical data plots graph the mean, median, percentile values, and outlier data points for each pollutant data set. The data plots graph the entire pollutant data set including the mean and the upper and lower bounds of the 95 percent confidence interval. For all graphs, ordinate axis values $\leq 10^{-4}$ or $\geq 10^4$ were plotted in scientific notation.

A table containing the number of data points (sample size), minimum and maximum values, and data set statistics accompanies each pollutant data plot. The following statistics were calculated for each data set: mean, standard deviation, standard error, and 95% confidence interval.

The arithmetic mean ($\bar{x}$) was calculated as:

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n} \quad (\text{Eq. A-4})$$

The sample standard deviation (s) was calculated as the square root of the mean of the square of differences from their mean of the data points (x_i):

$$s = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n - 1}} \quad (\text{Eq. A-5})$$

The standard error is the standard deviation of the mean. It is calculated as the sample standard deviation divided by the square root of the number of data points.

$$E_s = \frac{s}{\sqrt{n}} \quad (\text{Eq. A-6})$$

The upper and lower confidence intervals (μ) were calculated using the sample standard deviation, the t -statistic for ∞ degrees of freedom ($z = 1.96$ for 95% confidence, and $z = 2.576$ for 99% confidence), and the square root of the number of data points.

$$\mu = \pm \frac{ts}{\sqrt{n}} \quad (\text{Eq. A-7})$$

Group A: NMOC Data and Statistics

Figure A-1. NMOC Statistical Data Plot

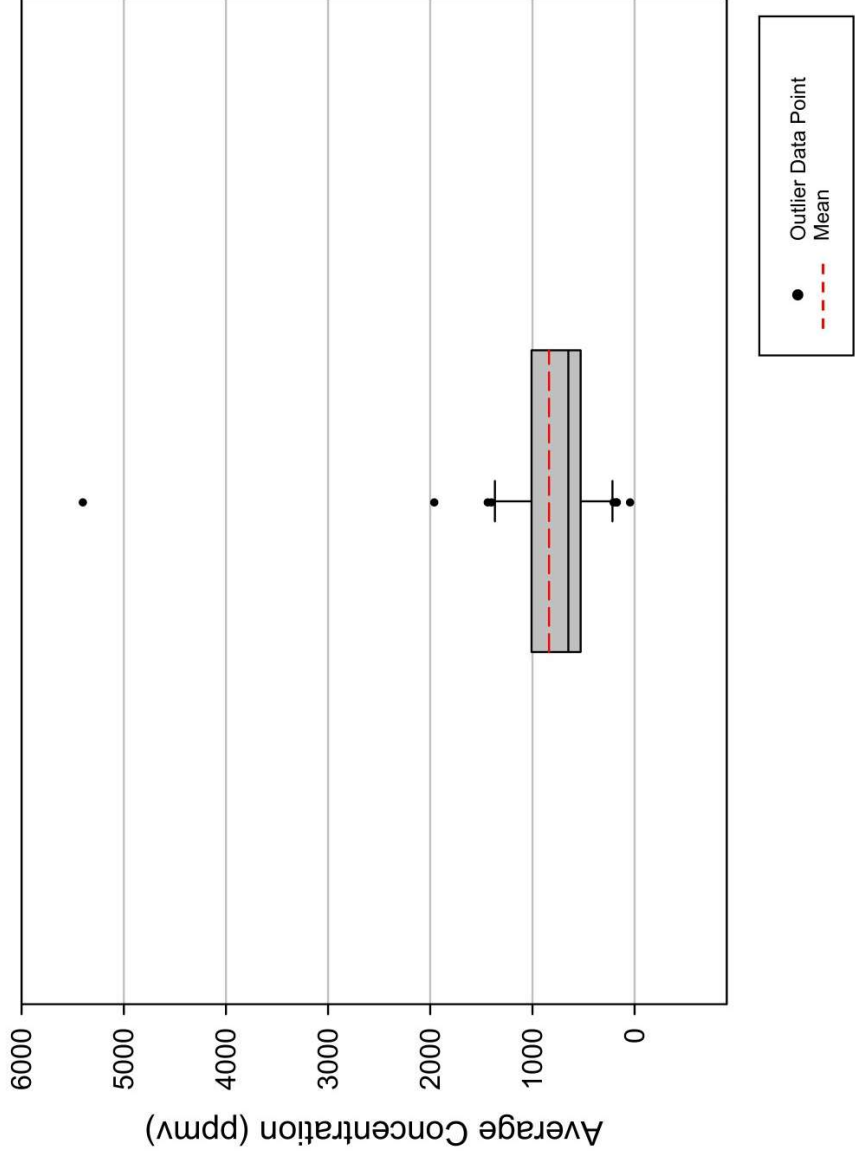


Figure A-2. NMOC Scatter Plot

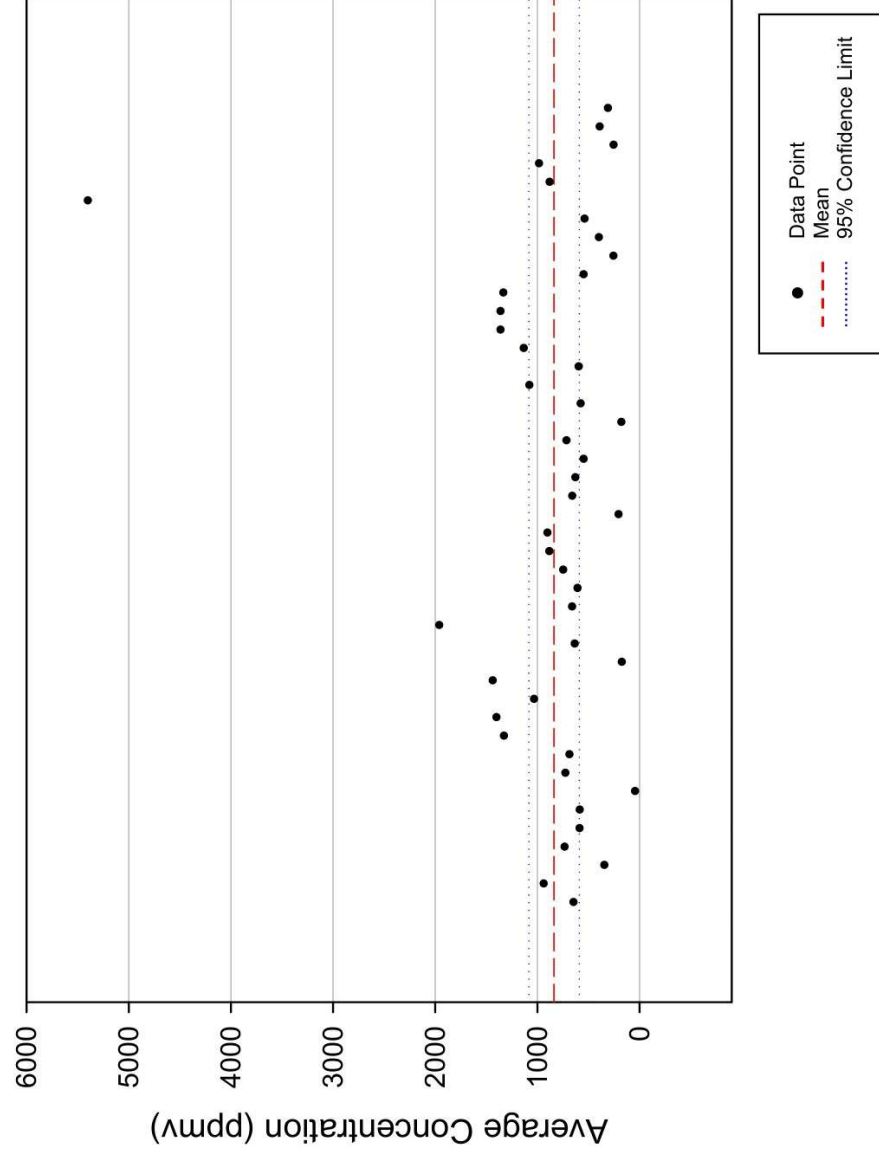


Table A-1. NMOC Data Statistics

Number of Data Points	44
Minimum (ppmv)	31
Maximum (ppmv)	5387
Mean (ppmv)	838
Median (ppmv)	648
Standard Deviation (ppmv)	811
Standard Error (ppmv)	122
95% Confidence Interval (+/- ppmv)	247
99% Confidence Interval (+/- ppmv)	330

Group B: Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) Data and Statistics

Figure B-1. BTEX Statistical Data Plot

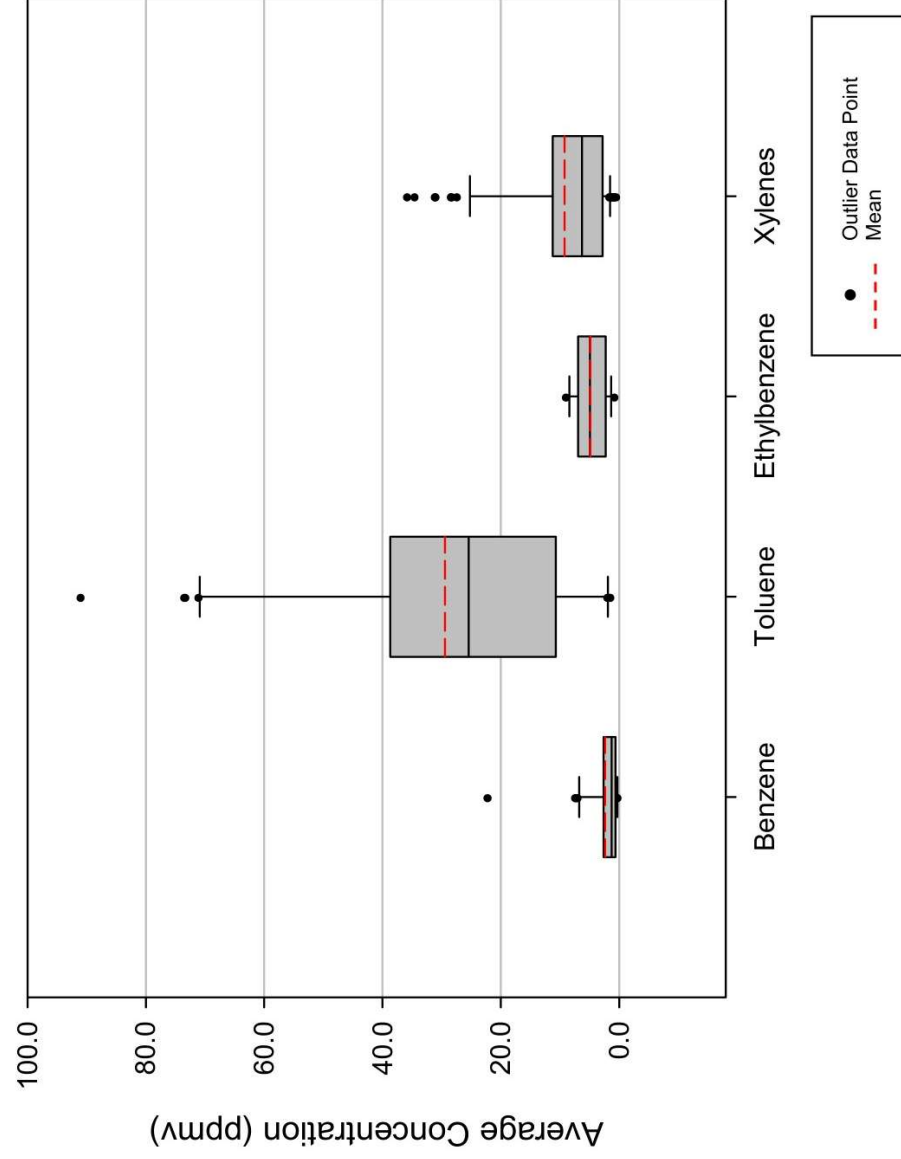


Figure B-2. Benzene Scatter Plot

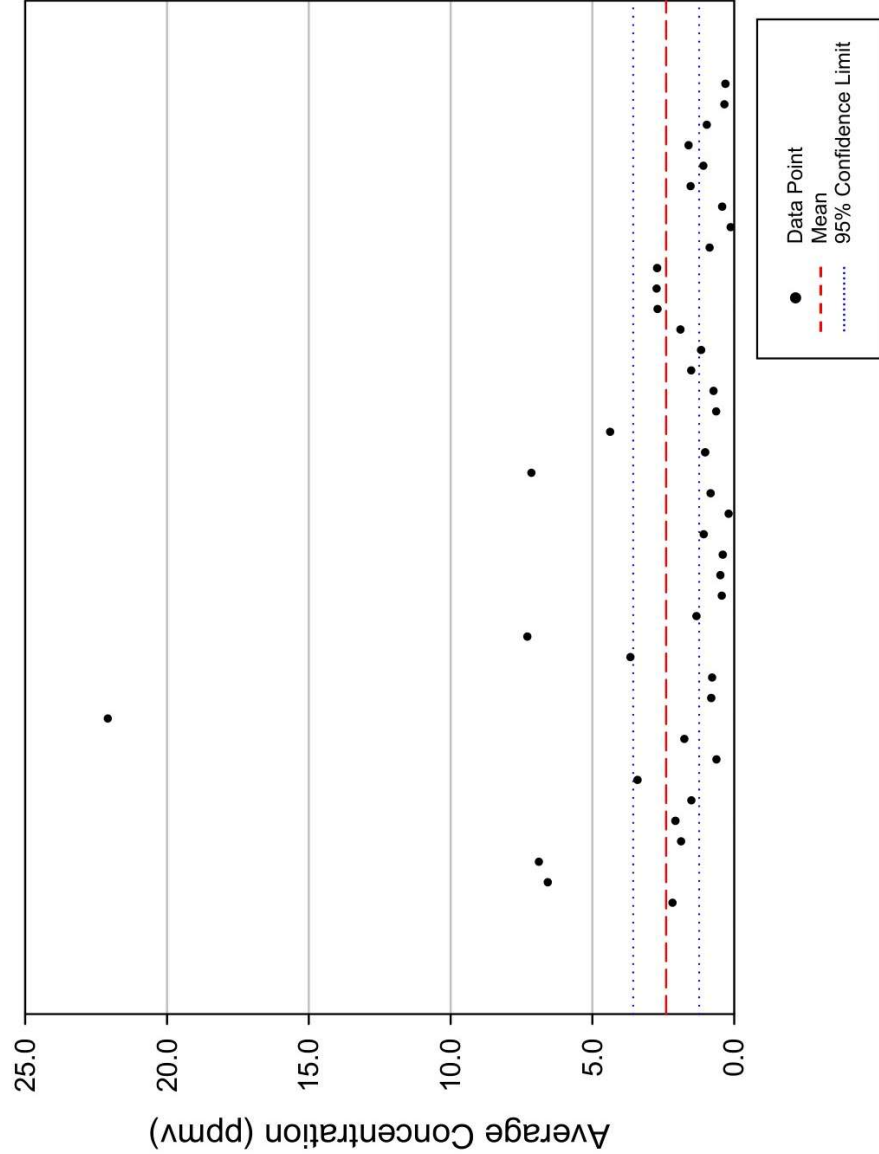


Table B-1. Benzene Data Statistics

Number of Data Points	41
Minimum (ppmv)	7.52E-02
Maximum (ppmv)	2.20E+01
Mean (ppmv)	2.40E+00
Median (ppmv)	1.28E+00
Standard Deviation (ppmv)	3.69E+00
Standard Error (ppmv)	5.77E-01
95% Confidence Interval (+/- ppmv)	1.17E+00
99% Confidence Interval (+/- ppmv)	1.56E+00

Figure B-3. Toluene Scatter Plot

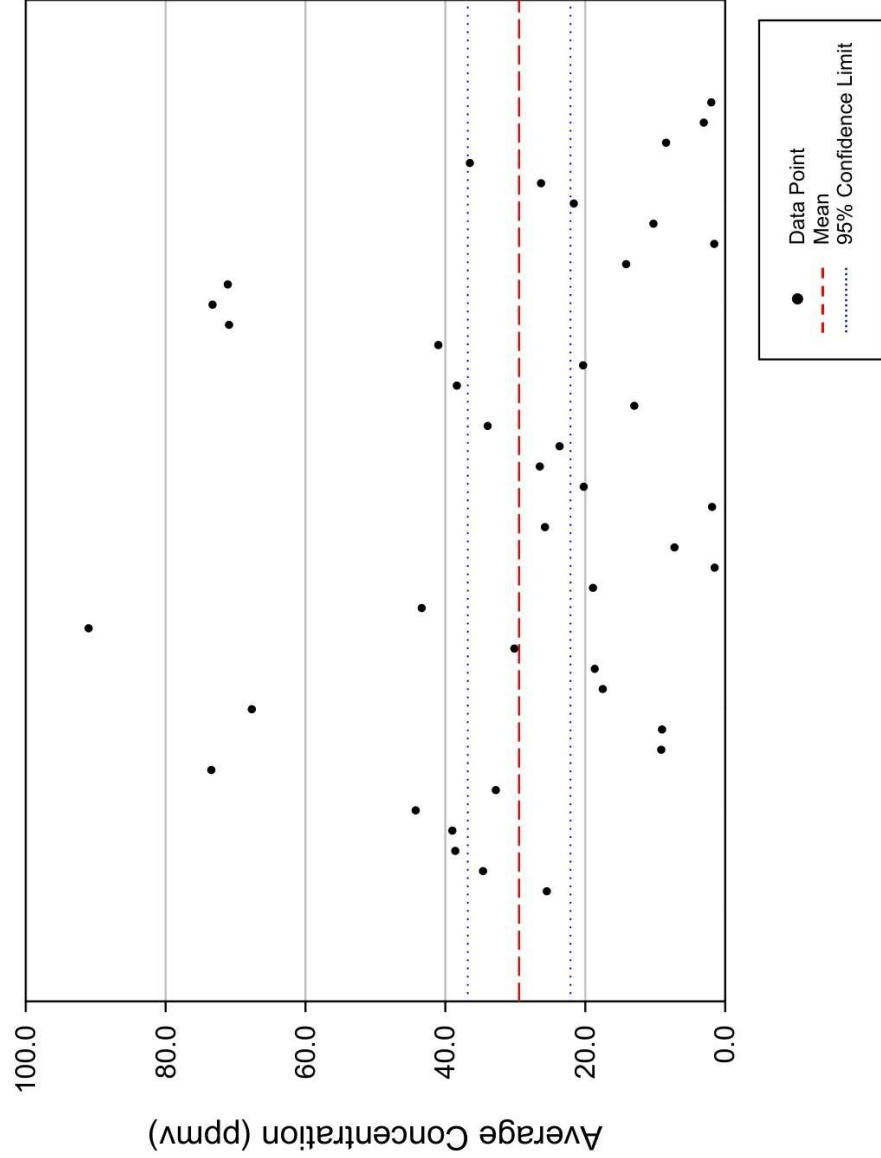


Table B-2. Toluene Data Statistics

Number of Data Points	40
Minimum (ppmv)	1.30E+00
Maximum (ppmv)	9.08E+01
Mean (ppmv)	2.95E+01
Median (ppmv)	2.54E+01
Standard Deviation (ppmv)	2.30E+01
Standard Error (ppmv)	3.63E+00
95% Confidence Interval (+/- ppmv)	7.34E+00
99% Confidence Interval (+/- ppmv)	9.83E+00

Figure B-4. Ethylbenzene Data Plot

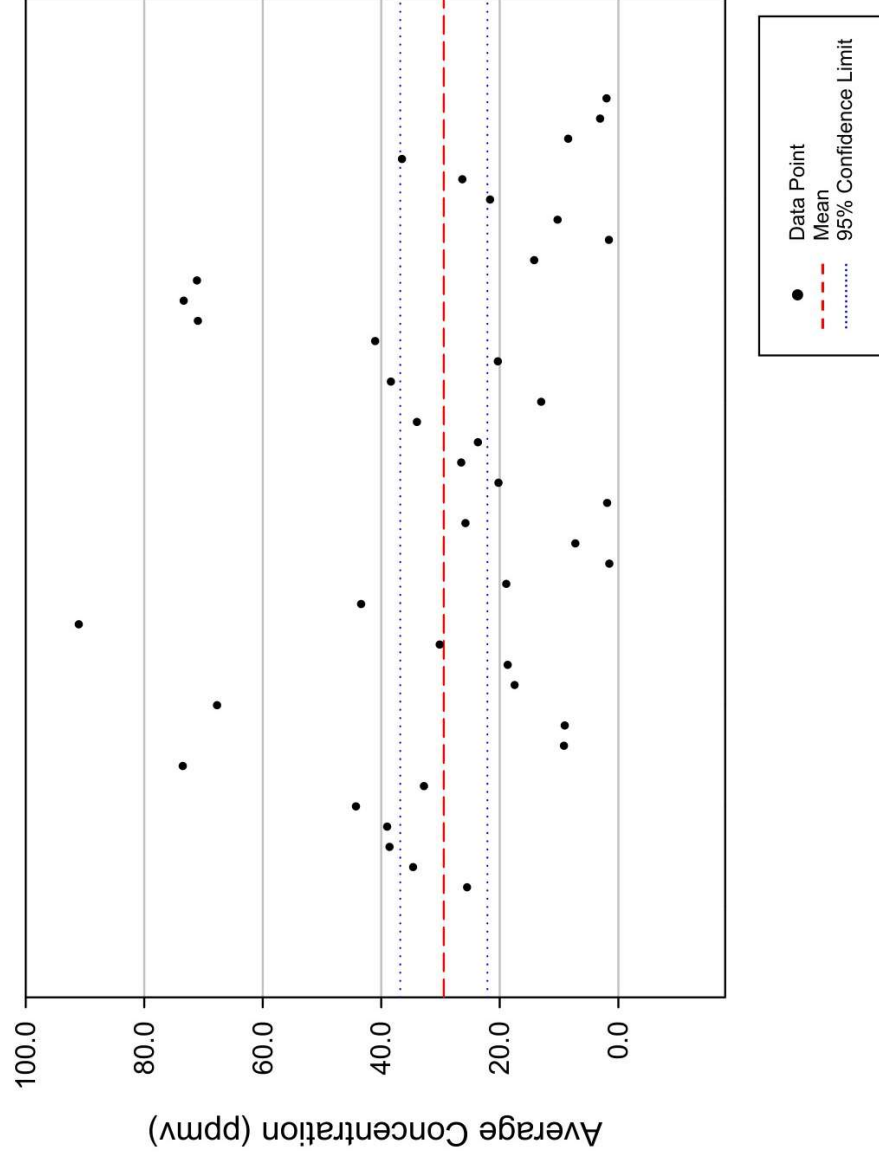


Table B-3. Ethylbenzene Data Statistics

Number of Data Points	16
Minimum (ppmv)	5.93E-01
Maximum (ppmv)	8.80E+00
Mean (ppmv)	4.86E+00
Median (ppmv)	4.95E+00
Standard Deviation (ppmv)	2.58E+00
Standard Error (ppmv)	6.46E-01
95% Confidence Interval (+/- ppmv)	1.38E+00
99% Confidence Interval (+/- ppmv)	1.90E+00

Figure B-5. Xylenes (o-, m-, p-, mixtures) Data Plot

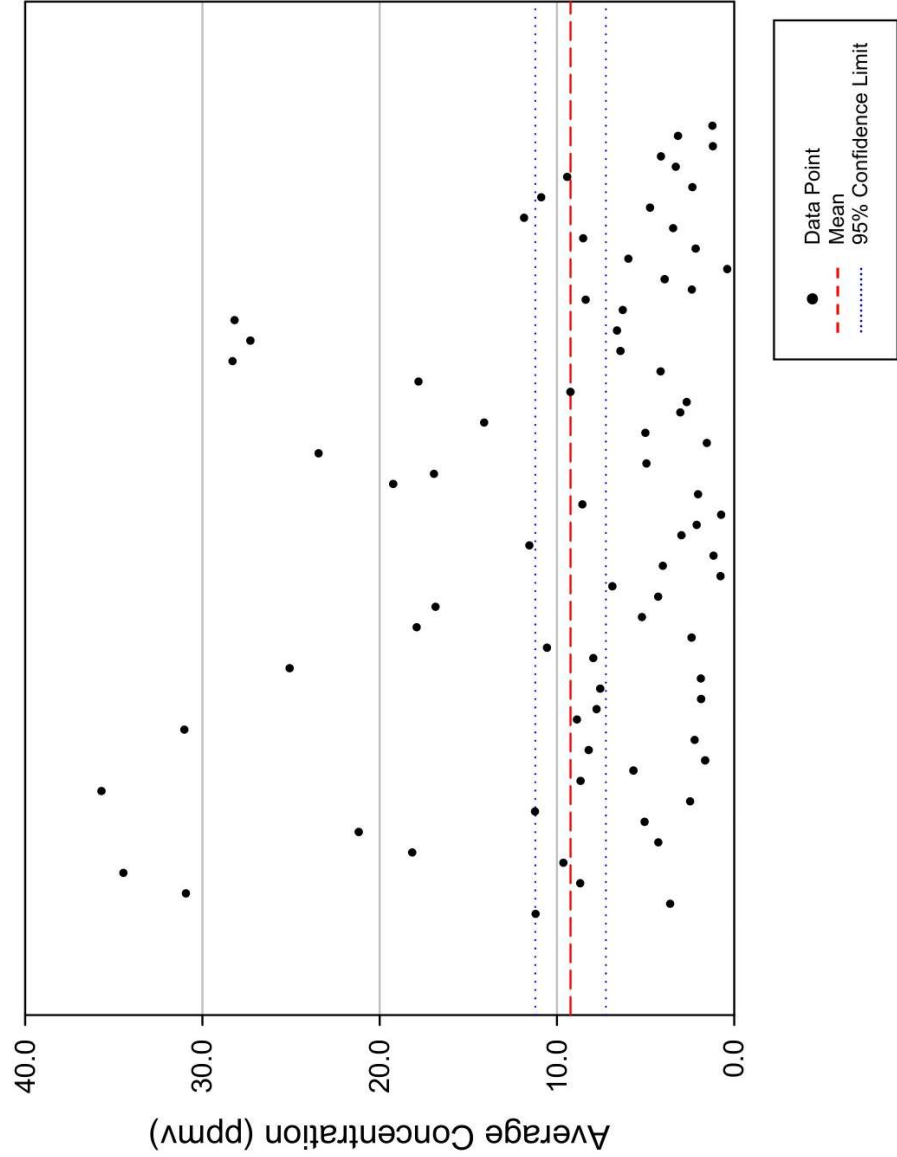


Table B-4. Xylenes (o-, m-, p-, mixtures) Data Statistics

Number of Data Points	78
Minimum (ppmv)	3.09E-01
Maximum (ppmv)	3.56E+01
Mean (ppmv)	9.23E+00
Median (ppmv)	6.27E+00
Standard Deviation (ppmv)	8.84E+00
Standard Error (ppmv)	1.00E+00
95% Confidence Interval (+/- ppmv)	1.99E+00
99% Confidence Interval (+/- ppmv)	2.64E+00

Group C: Chlorinated Compounds Data and Statistics

Figure C-1. Dichlorobenzene, Trichloroethylene, and Tetrachloroethylene Statistical Data Plot

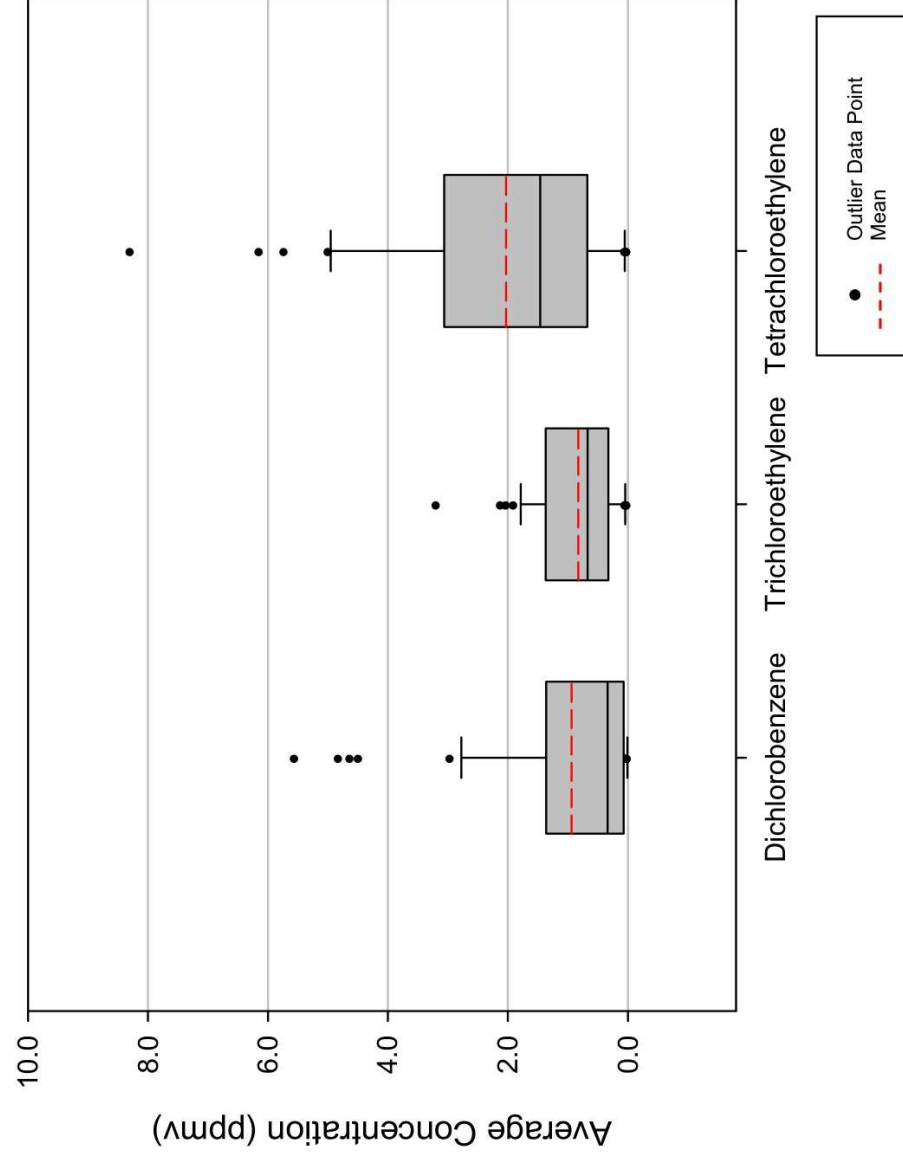


Figure C-2. Vinyl chloride and 1,1-Dichloroethane Statistical Data Plot

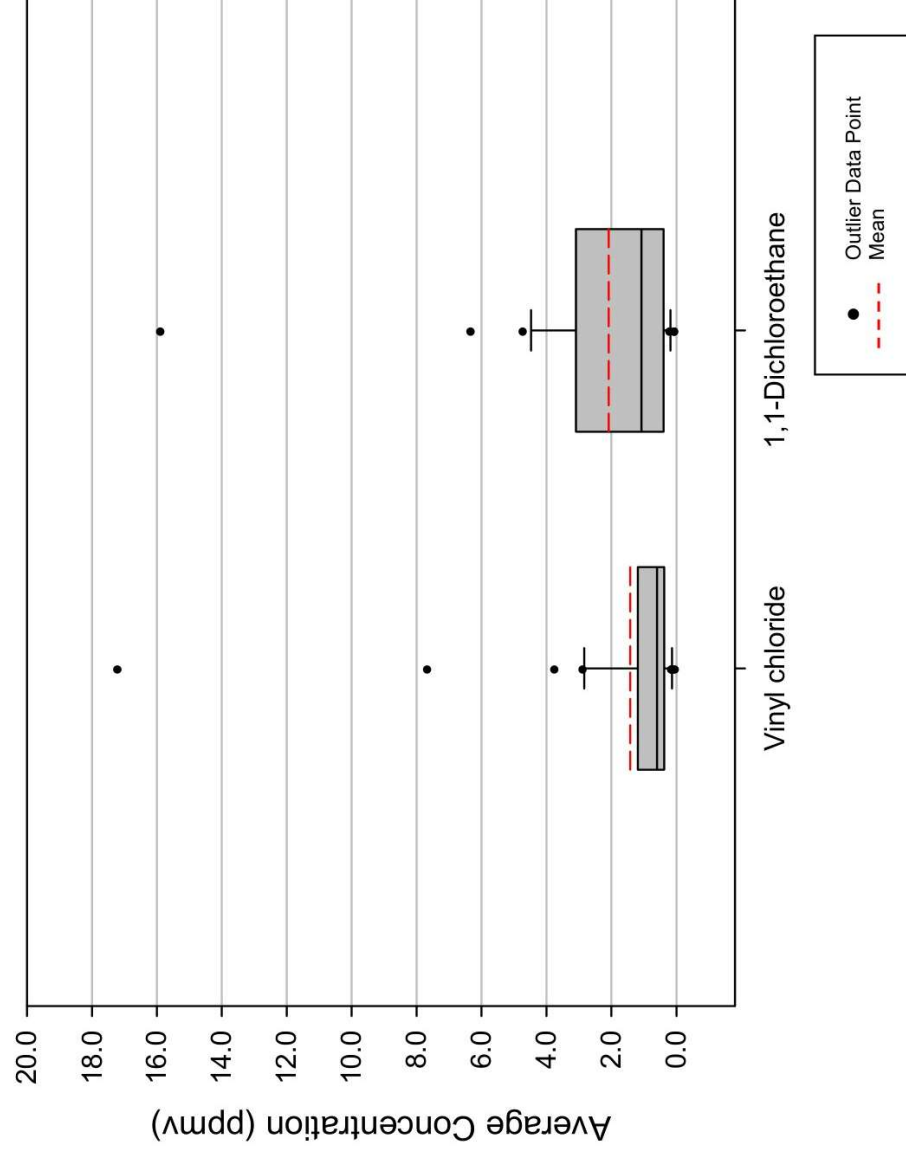


Figure C-3. 1,1-Dichloroethene, Trichloromethane, and 1,1,1-Trichloroethane Statistical Data Plot

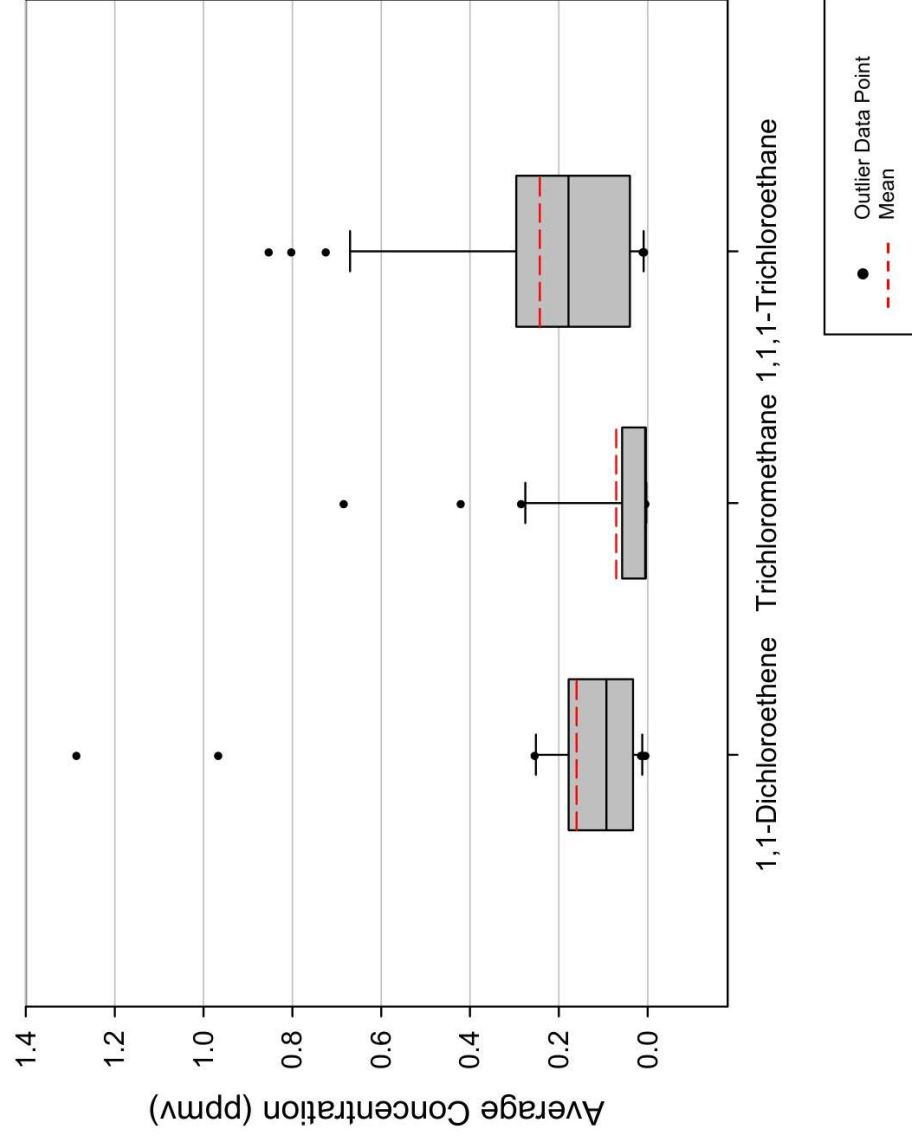


Figure C-4. Dichloromethane Statistical Data Plot

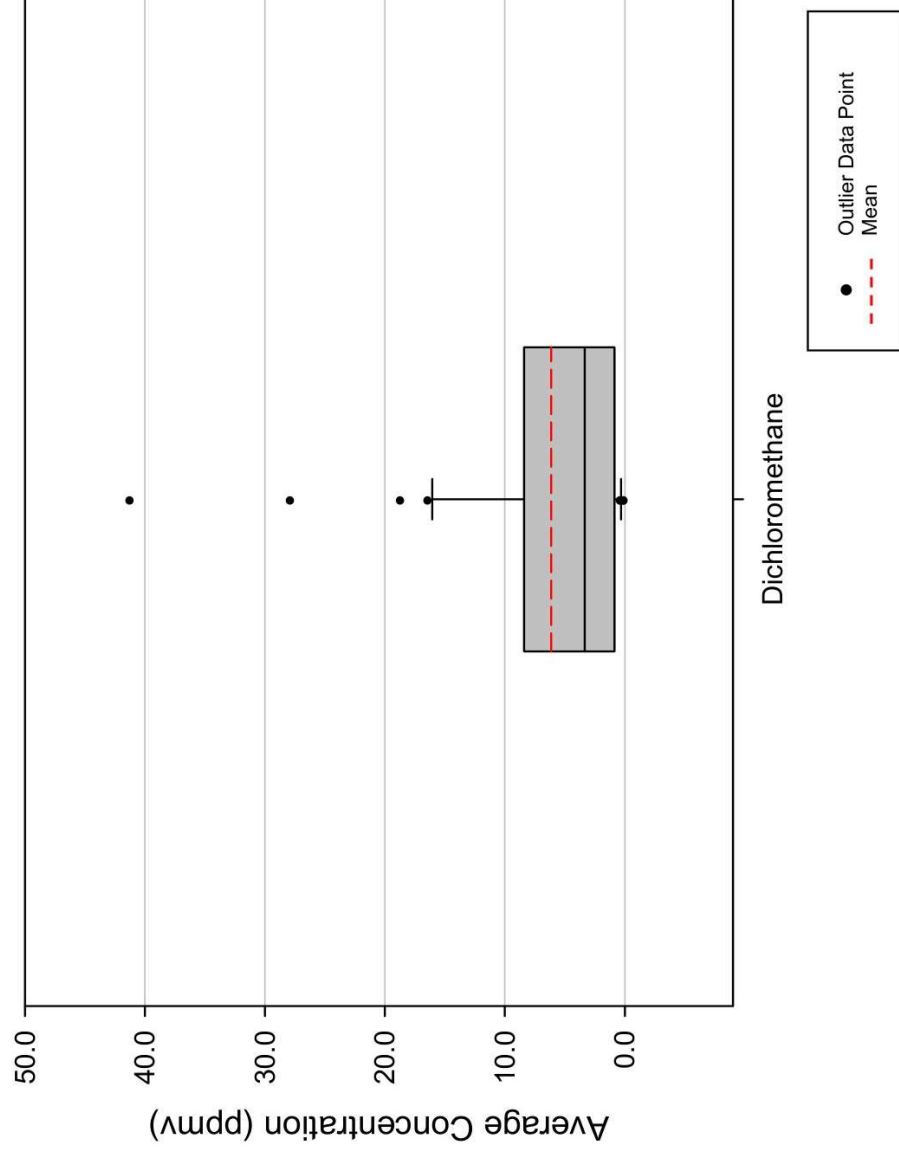


Figure C-5. Chlorobenzene Statistical Data Plot

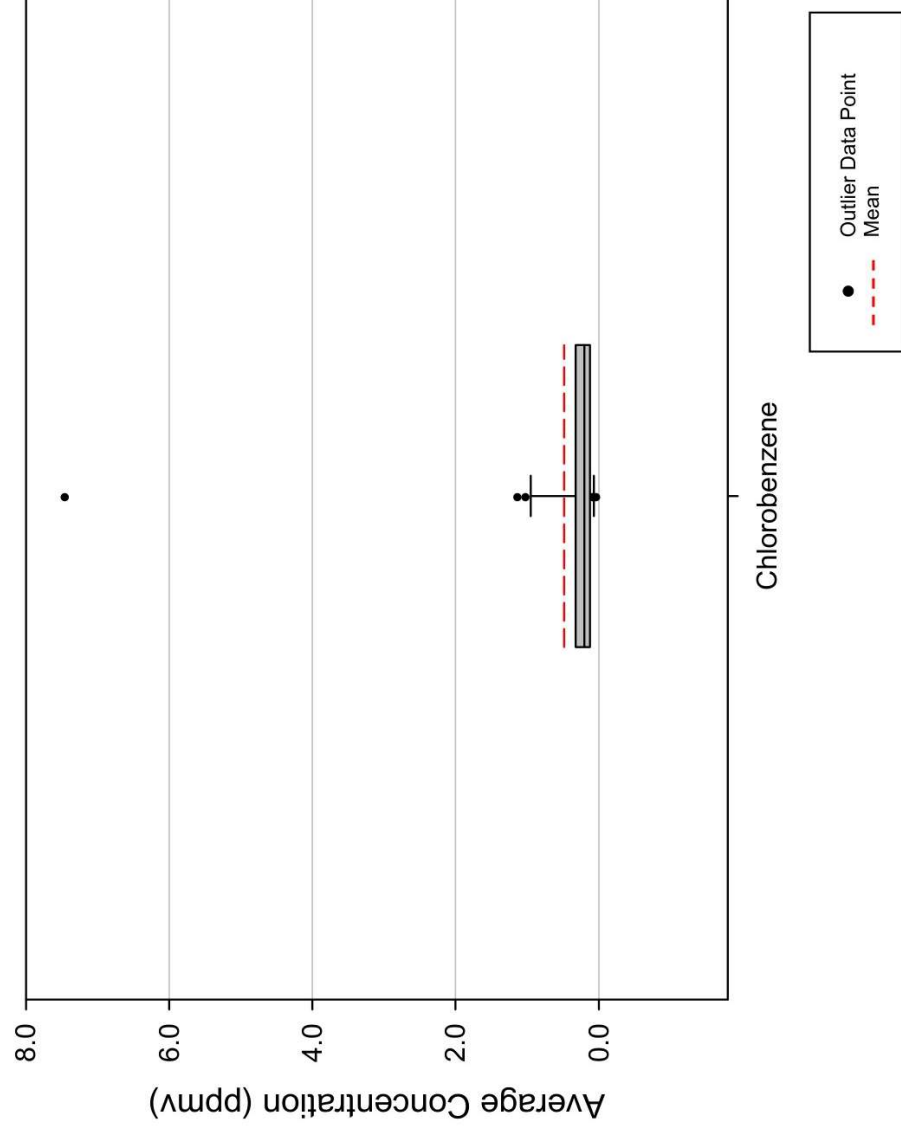


Figure C-6. 1,2-Dichloroethane Statistical Data Plot

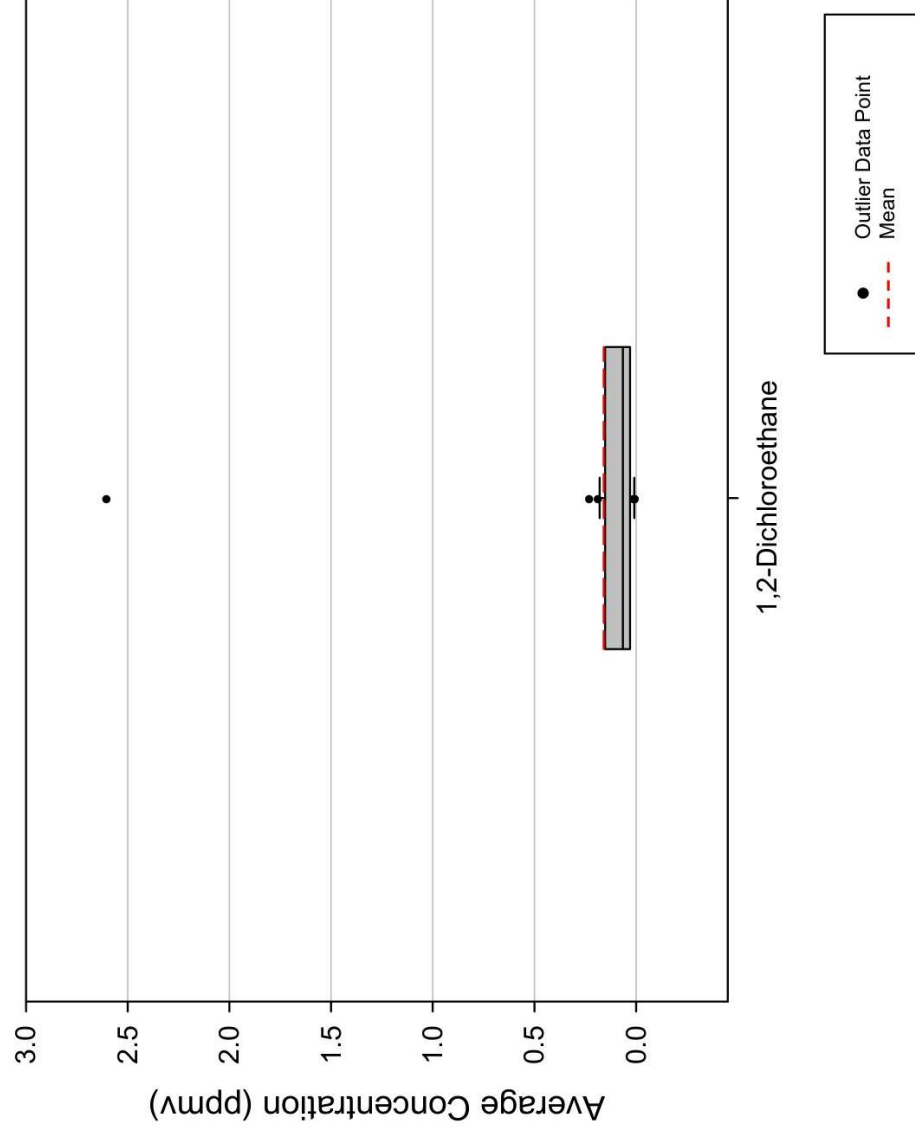


Figure C-7. Carbon Tetrachloride Statistical Data Plot

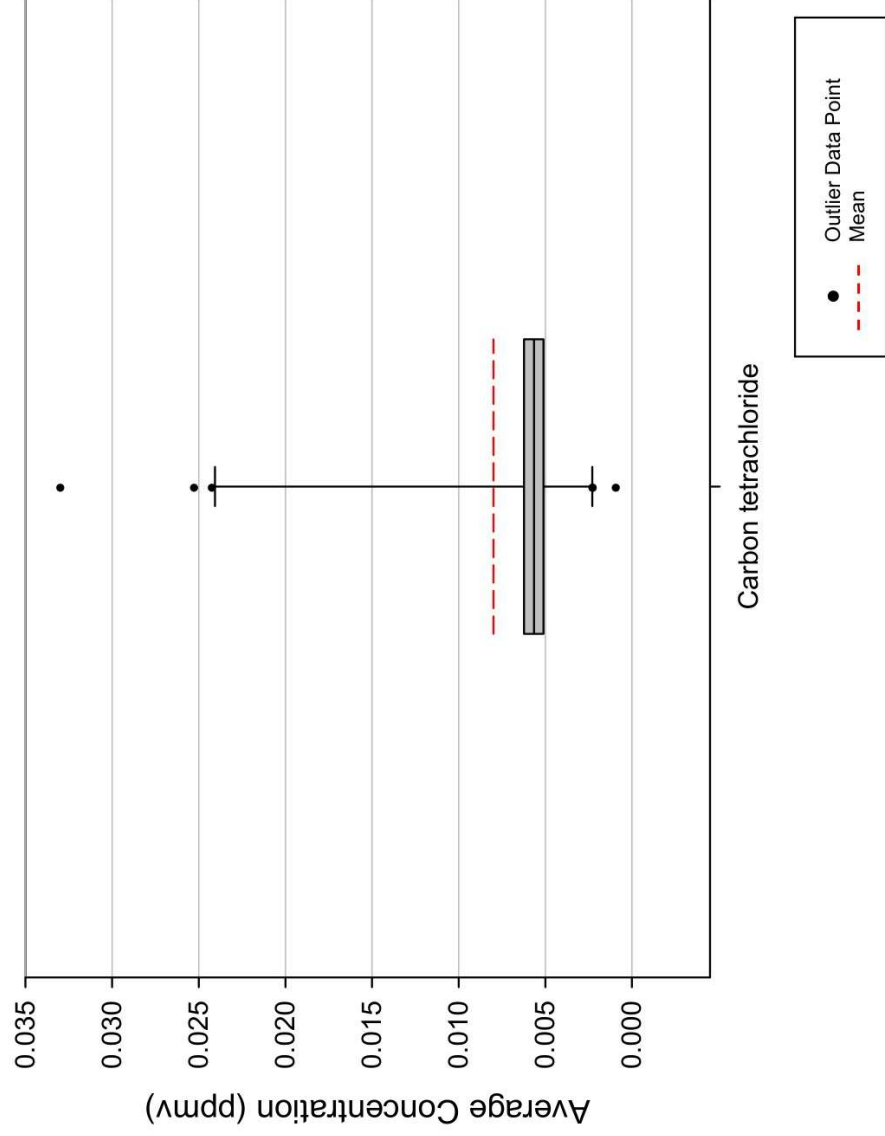


Figure C-8. Dichlorobenzene Data Plot

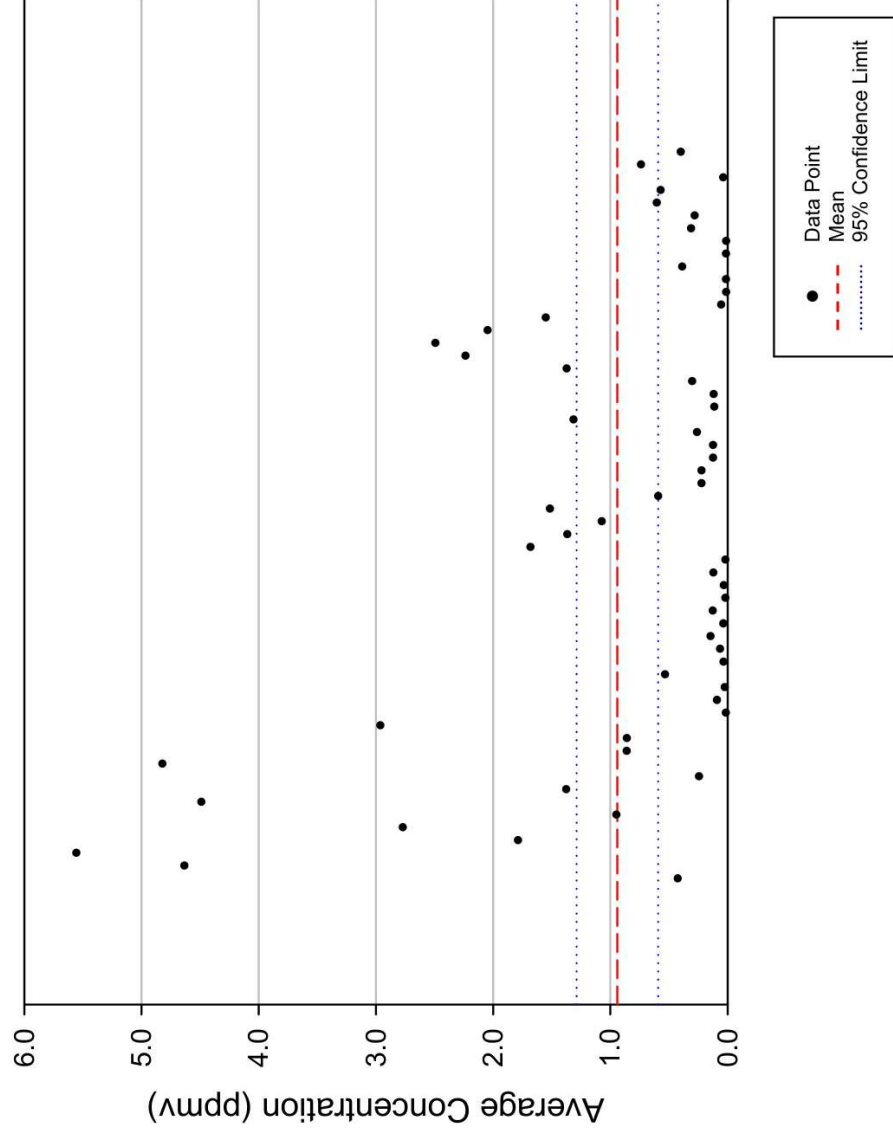


Table C-1. Dichlorobenzene Data Statistics

Number of Data Points	58
Minimum (ppmv)	4.84E-04
Maximum (ppmv)	5.54E+00
Mean (ppmv)	9.40E-01
Median (ppmv)	3.39E-01
Standard Deviation (ppmv)	1.32E+00
Standard Error (ppmv)	1.74E-01
95% Confidence Interval (+/- ppmv)	3.48E-01
99% Confidence Interval (+/- ppmv)	4.63E-01

Figure C-9. Dichloromethane Data Plot

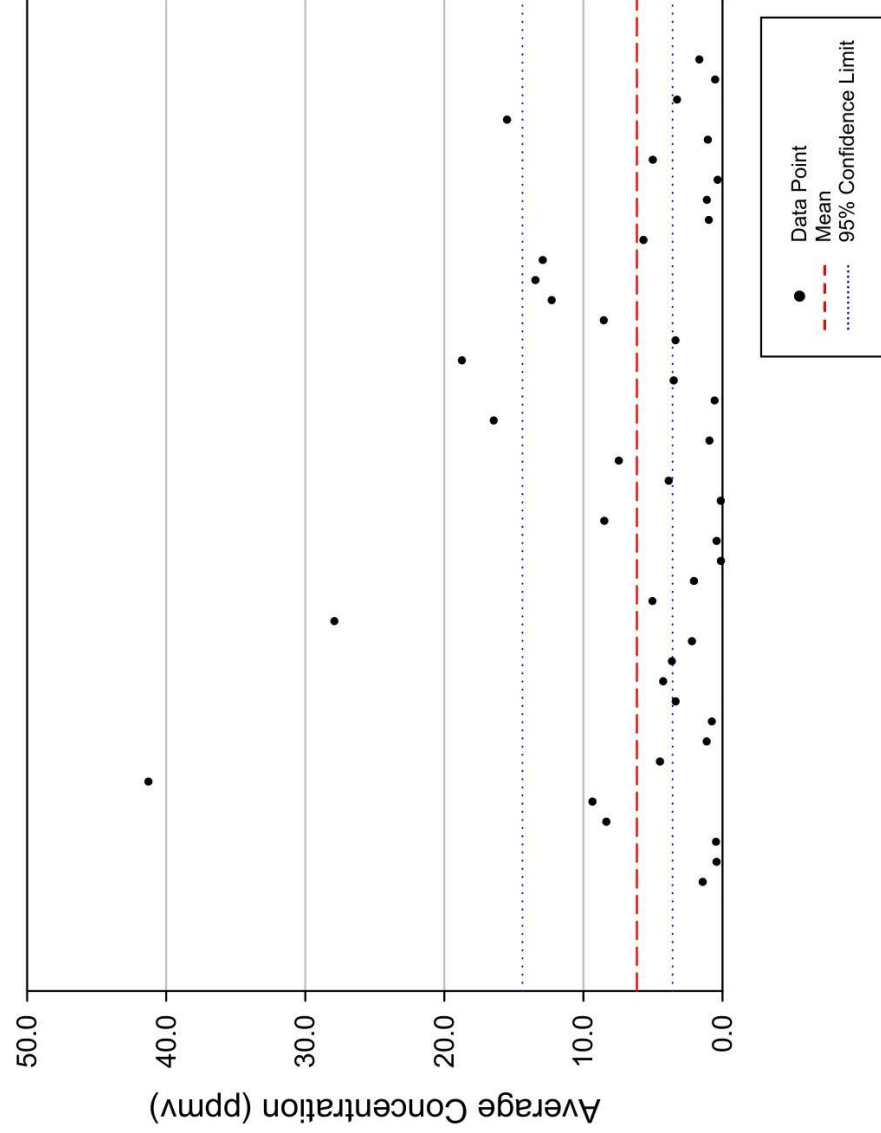


Table C-2. Dichloromethane Data Statistics

Number of Data Points	42
Minimum (ppmv)	5.09E-03
Maximum (ppmv)	4.12E+01
Mean (ppmv)	6.15E+00
Median (ppmv)	3.34E+00
Standard Deviation (ppmv)	8.23E+00
Standard Error (ppmv)	1.27E+00
95% Confidence Interval (+/- ppmv)	2.56E+00
99% Confidence Interval (+/- ppmv)	3.43E+00

Figure C-9. Trichloroethylene Data Plot

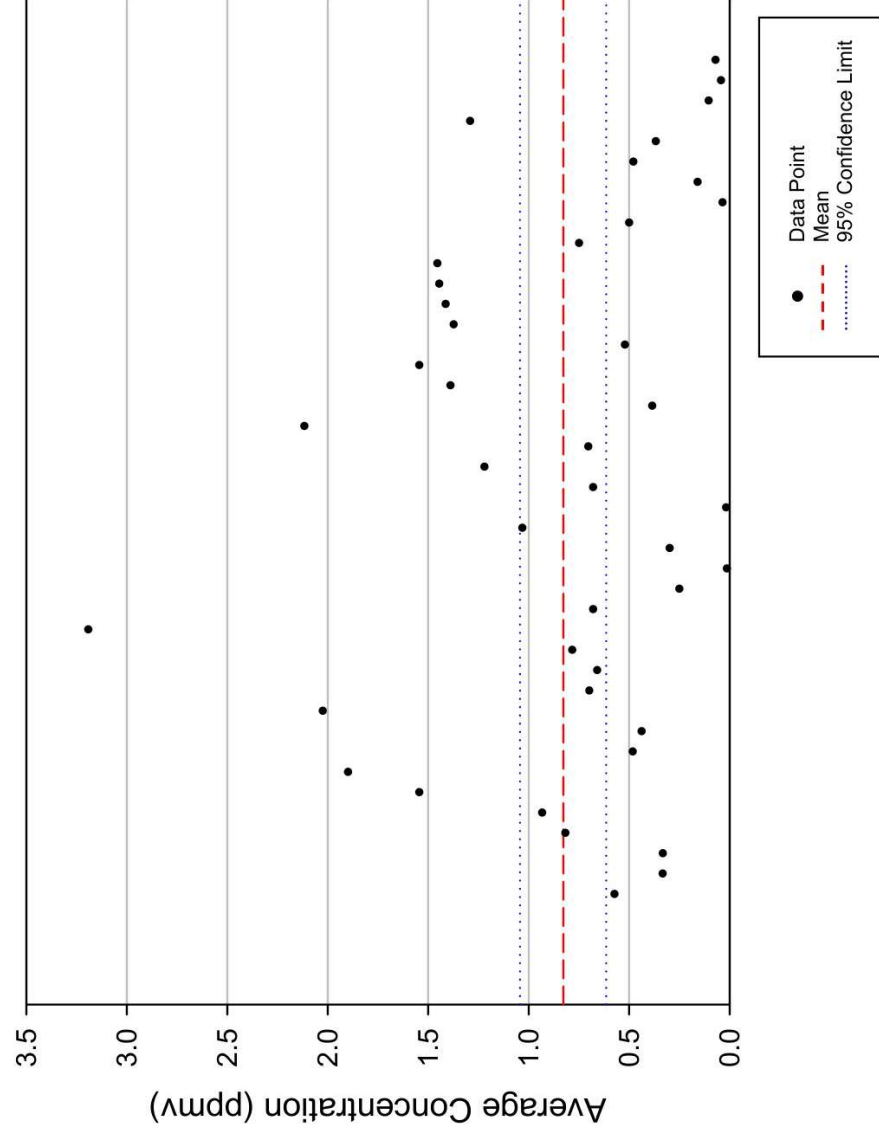


Table C-3. Trichloroethylene Data Statistics

Number of Data Points	42
Minimum (ppmv)	6.55E-03
Maximum (ppmv)	3.18E+00
Mean (ppmv)	8.28E-01
Median (ppmv)	6.72E-01
Standard Deviation (ppmv)	6.88E-01
Standard Error (ppmv)	1.06E-01
95% Confidence Interval (+/- ppmv)	2.14E-01
99% Confidence Interval (+/- ppmv)	2.87E-01

Figure C-10. Tetrachloroethylene Data Plot

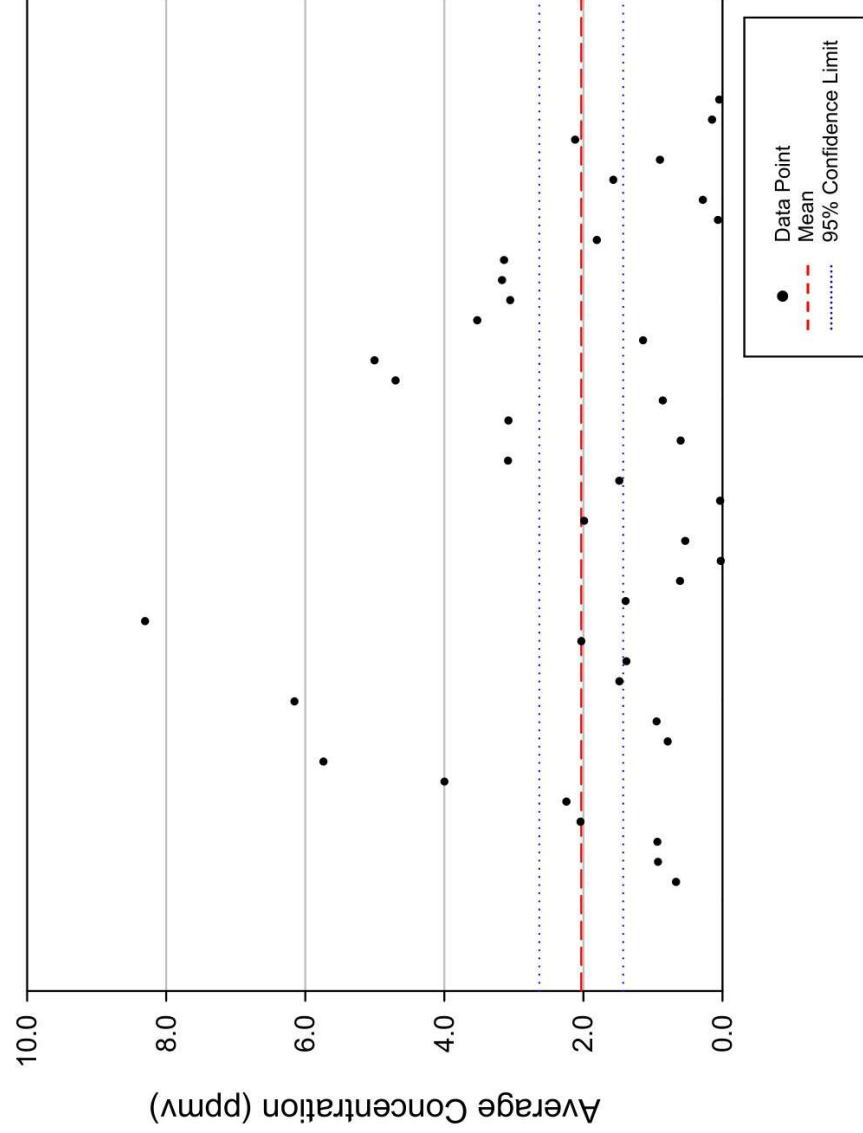


Table C-4. Tetrachloroethylene Data Statistics

Number of Data Points	40
Minimum (ppmv)	5.12E-03
Maximum (ppmv)	8.28E+00
Mean (ppmv)	2.03E+00
Median (ppmv)	1.46E+00
Standard Deviation (ppmv)	1.89E+00
Standard Error (ppmv)	2.98E-01
95% Confidence Interval (+/- ppmv)	6.04E-01
99% Confidence Interval (+/- ppmv)	8.08E-01

Figure C-11. Vinyl Chloride Data Plot

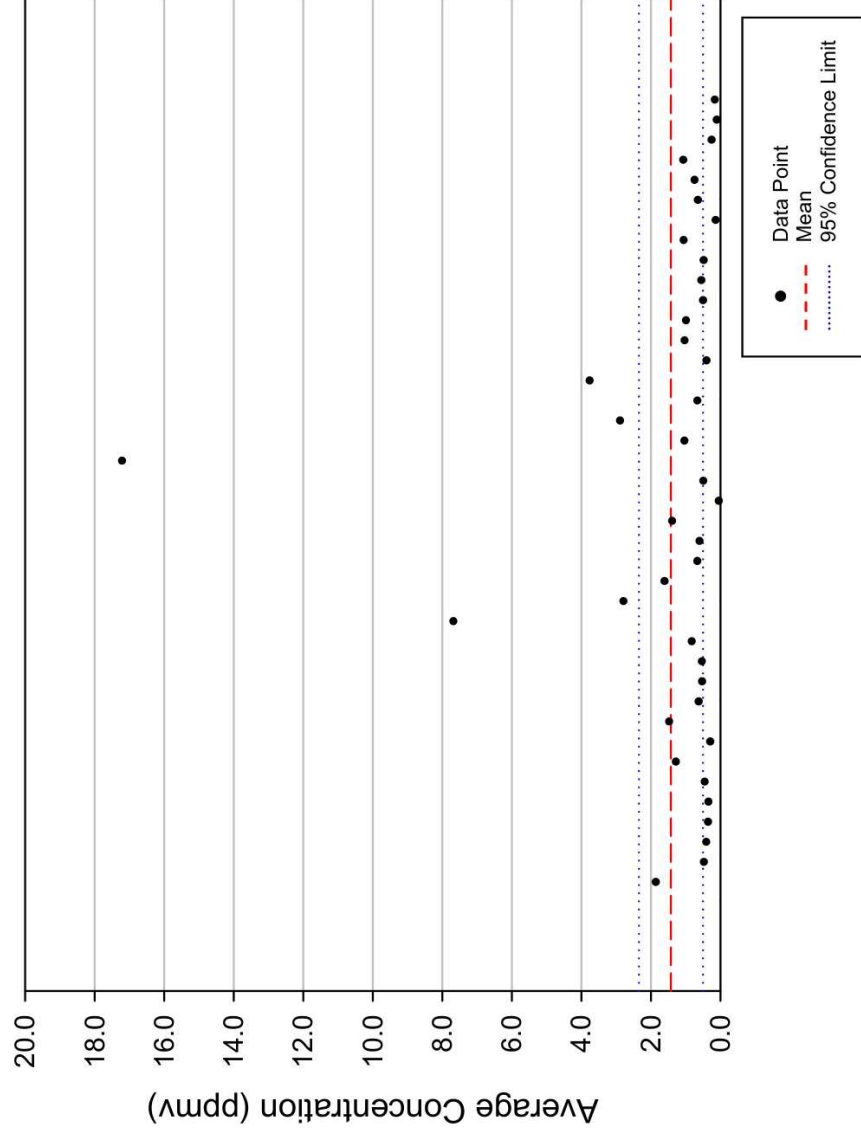


Table C-5. Vinyl Chloride Data Statistics

Number of Data Points	40
Minimum (ppmv)	6.78E-03
Maximum (ppmv)	1.72E+01
Mean (ppmv)	1.42E+00
Median (ppmv)	5.96E-01
Standard Deviation (ppmv)	2.88E+00
Standard Error (ppmv)	4.55E-01
95% Confidence Interval (+/- ppmv)	9.21E-01
99% Confidence Interval (+/- ppmv)	1.23E+00

Figure C-12. Chlorobenzene Data Plot

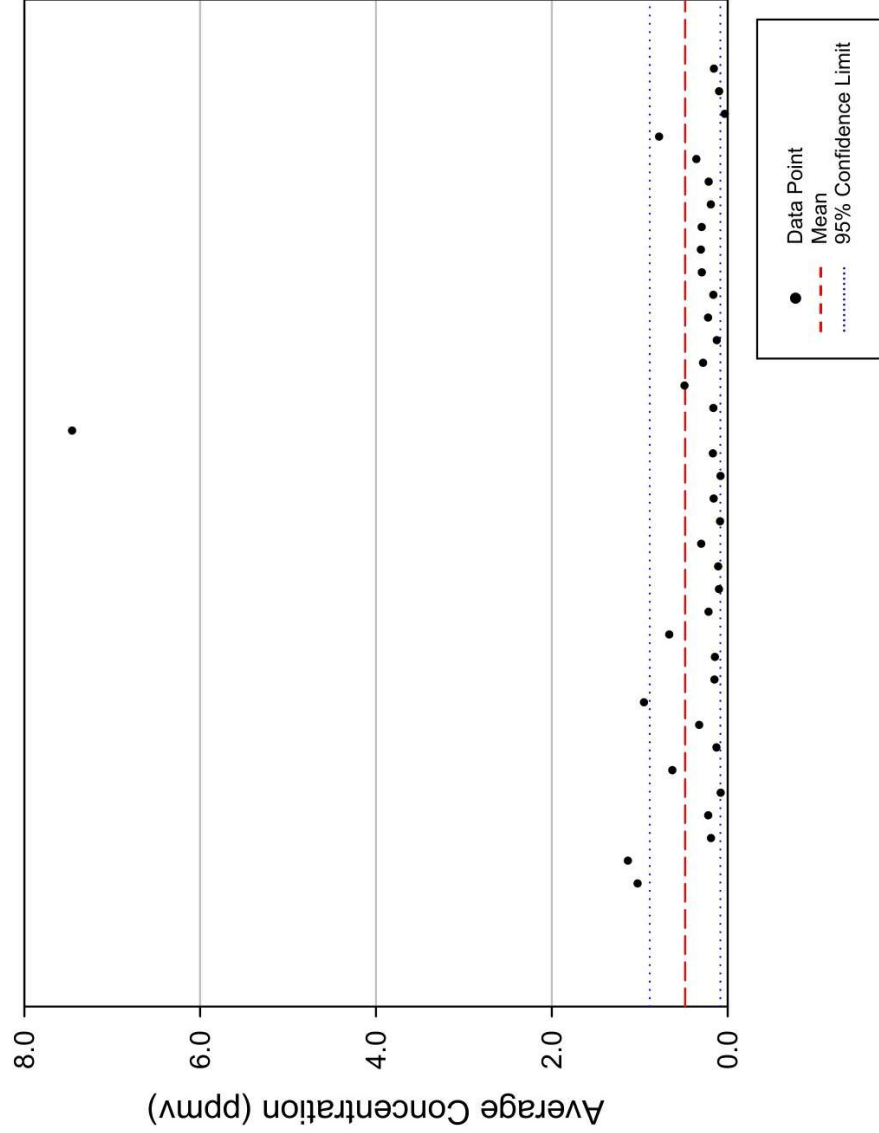


Table C-6. Chlorobenzene Data Statistics

Number of Data Points	37
Minimum (ppmv)	1.79E-02
Maximum (ppmv)	7.44E+00
Mean (ppmv)	4.84E-01
Median (ppmv)	2.00E-01
Standard Deviation (ppmv)	1.21E+00
Standard Error (ppmv)	1.99E-01
95% Confidence Interval (+/- ppmv)	4.03E-01
99% Confidence Interval (+/- ppmv)	5.40E-01

Figure C-13. 1,1-Dichloroethane Data Plot

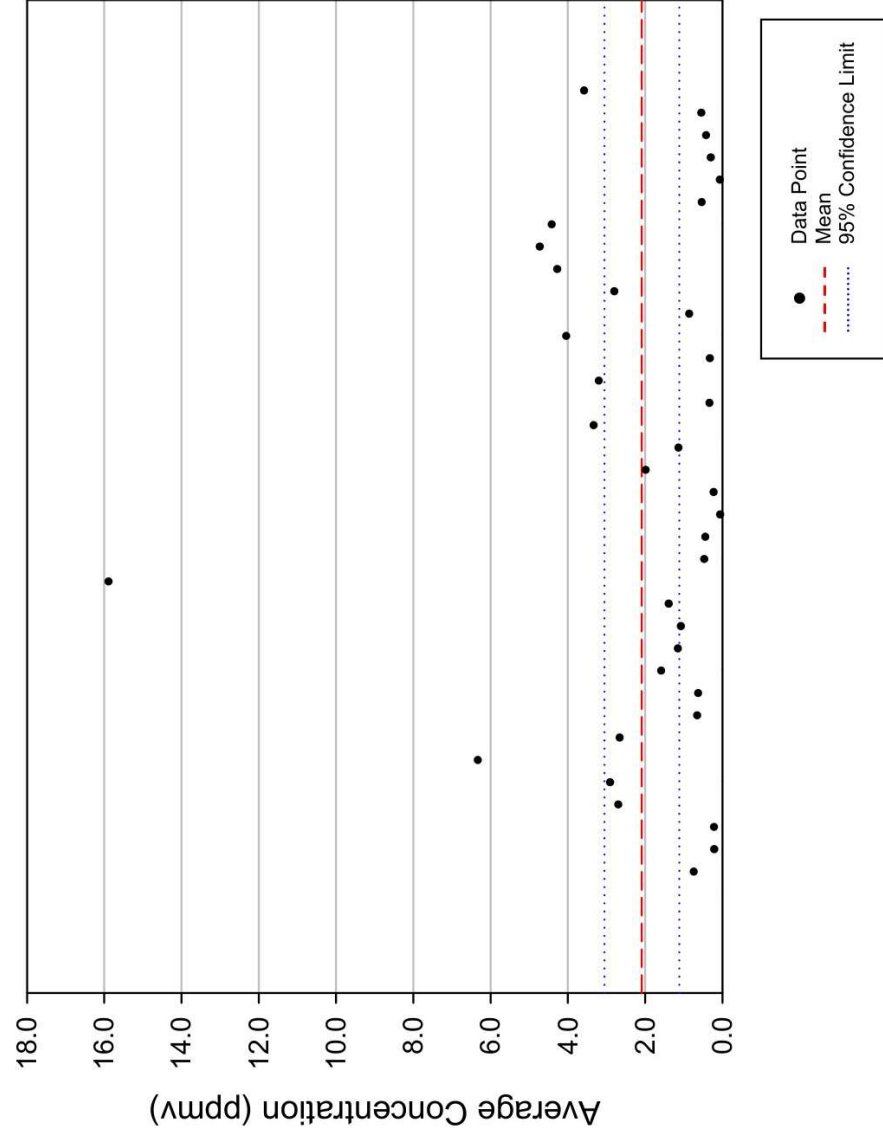


Table C-7. 1,1-Dichloroethane Data Statistics

Number of Data Points	36
Minimum (ppmv)	2.56E-02
Maximum (ppmv)	1.59E+01
Mean (ppmv)	2.08E+00
Median (ppmv)	1.07E+00
Standard Deviation (ppmv)	2.87E+00
Standard Error (ppmv)	4.78E-01
95% Confidence Interval (+/- ppmv)	9.71E-01
99% Confidence Interval (+/- ppmv)	1.30E+00

Figure C-14. 1,1-Dichloroethene Data Plot

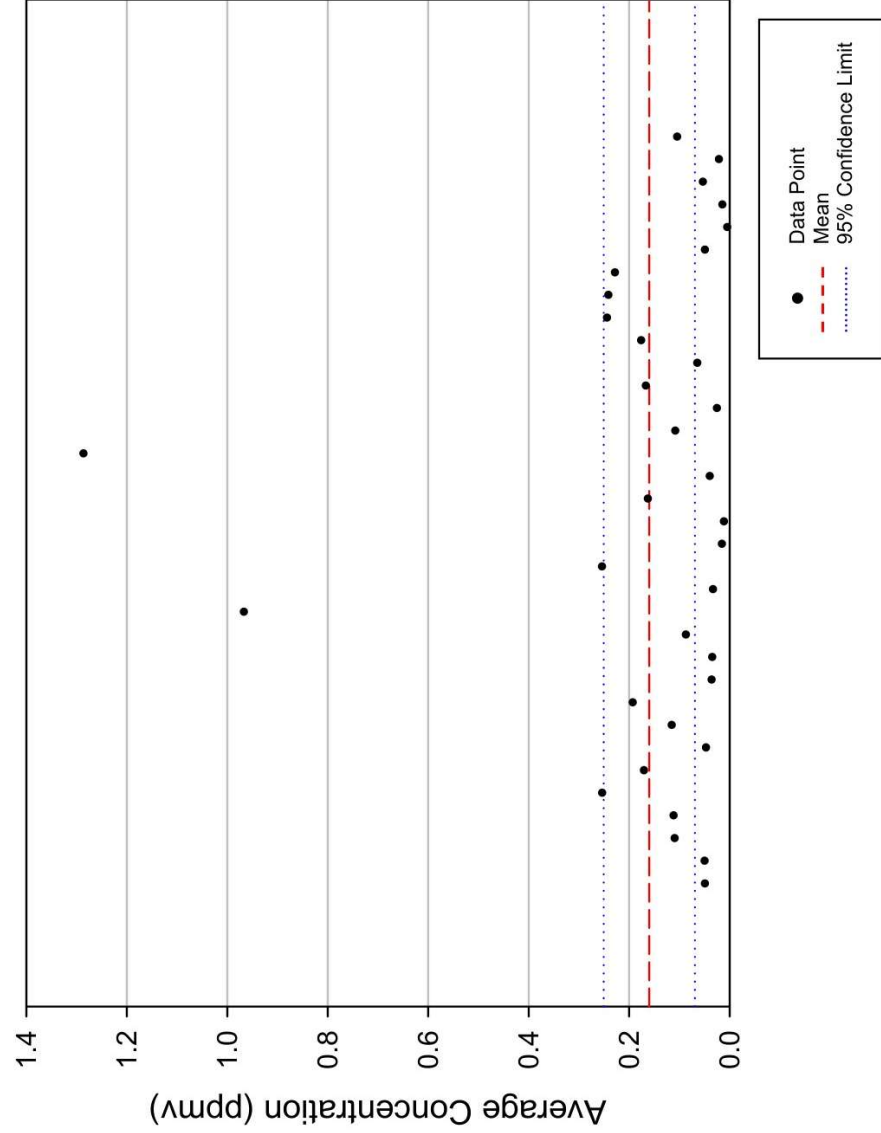


Table C-8. 1,1-Dichloroethene Data Statistics

Number of Data Points	34
Minimum (ppmv)	2.06E-03
Maximum (ppmv)	1.28E+00
Mean (ppmv)	1.60E-01
Median (ppmv)	9.30E-02
Standard Deviation (ppmv)	2.60E-01
Standard Error (ppmv)	4.46E-02
95% Confidence Interval (+/- ppmv)	9.07E-02
99% Confidence Interval (+/- ppmv)	1.22E-01

Figure C-15. 1,2-Dichloroethane Data Plot

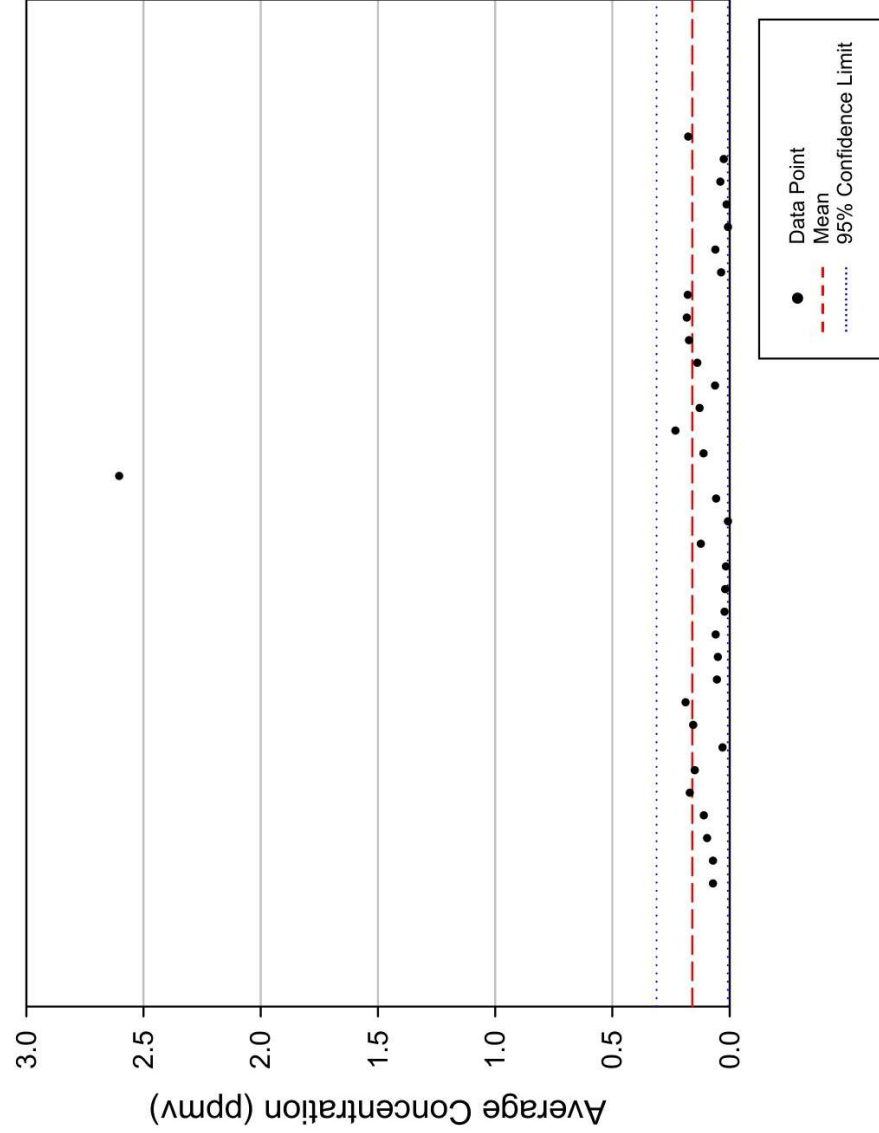


Table C-9. 1,2-Dichloroethane Data Statistics

Number of Data Points	34
Minimum (ppmv)	1.03E-03
Maximum (ppmv)	2.60E+00
Mean (ppmv)	1.59E-01
Median (ppmv)	6.48E-02
Standard Deviation (ppmv)	4.36E-01
Standard Error (ppmv)	7.47E-02
95% Confidence Interval (+/- ppmv)	1.52E-01
99% Confidence Interval (+/- ppmv)	2.04E-01

Figure C-16. Trichloromethane Data Plot

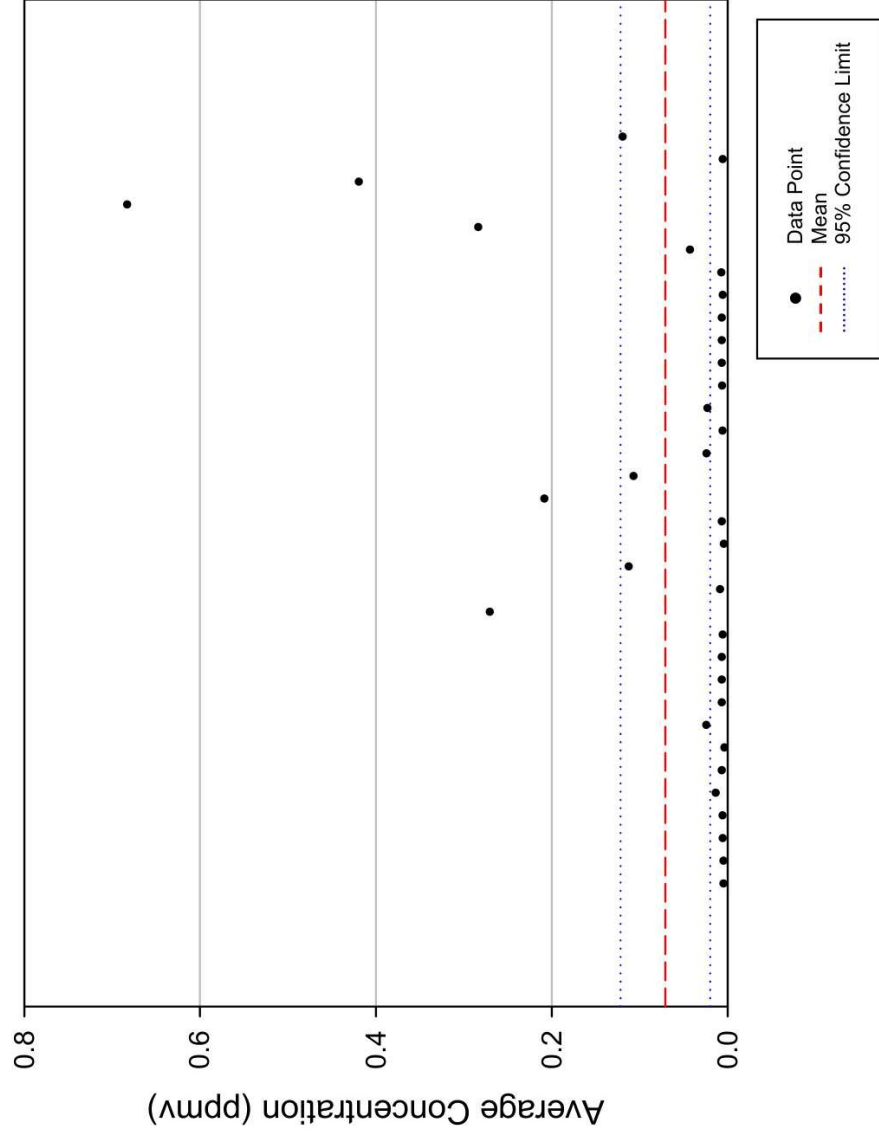


Table C-10. Trichloromethane Data Statistics

Number of Data Points	34
Minimum (ppmv)	2.21E-03
Maximum (ppmv)	6.82E-01
Mean (ppmv)	7.08E-02
Median (ppmv)	5.20E-03
Standard Deviation (ppmv)	1.46E-01
Standard Error (ppmv)	2.51E-02
95% Confidence Interval (+/- ppmv)	5.10E-02
99% Confidence Interval (+/- ppmv)	6.85E-02

Figure C-17. 1,1,1-Trichloroethane Data Plot

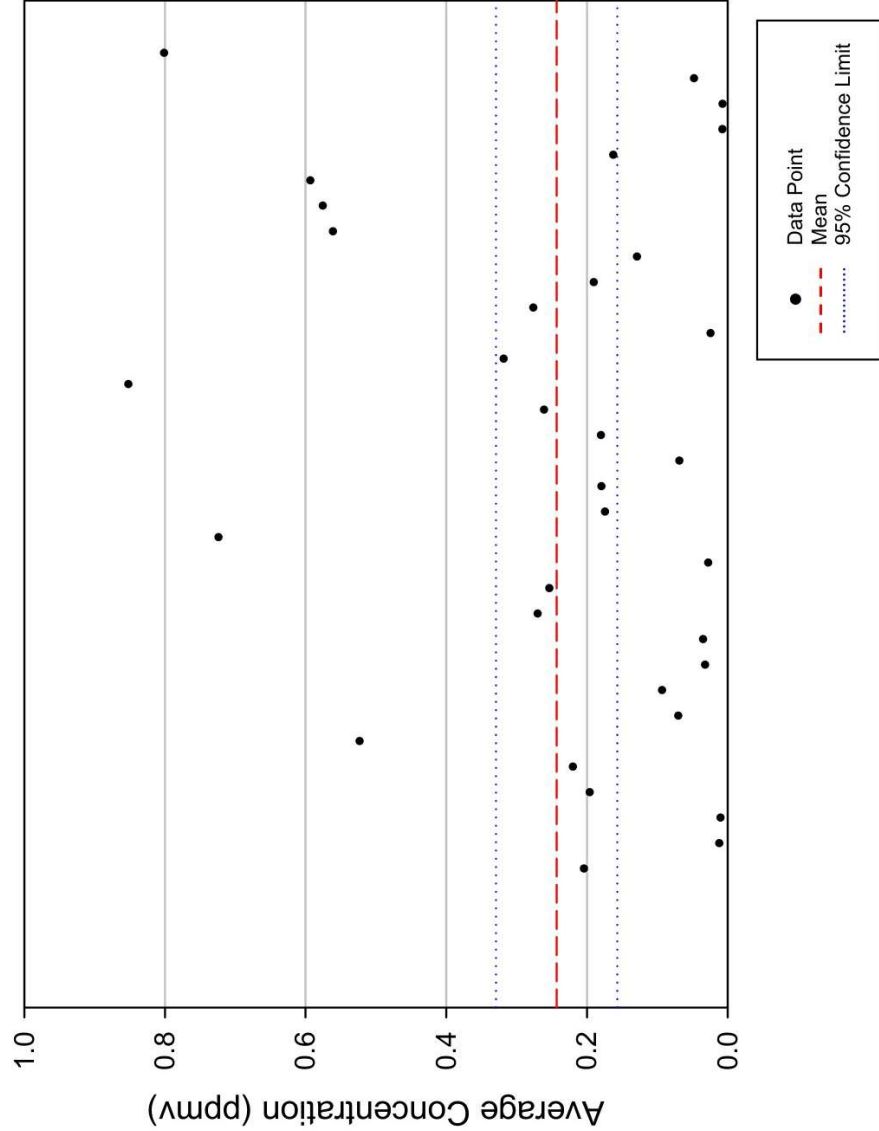


Table C-11. 1,1,1-Trichloroethane Data Statistics

Number of Data Points	33
Minimum (ppmv)	5.15E-03
Maximum (ppmv)	8.50E-01
Mean (ppmv)	2.43E-01
Median (ppmv)	1.78E-01
Standard Deviation (ppmv)	2.43E-01
Standard Error (ppmv)	4.24E-02
95% Confidence Interval (+/- ppmv)	8.63E-02
99% Confidence Interval (+/- ppmv)	1.16E-01

Figure C-18. Carbon Tetrachloride Data Plot

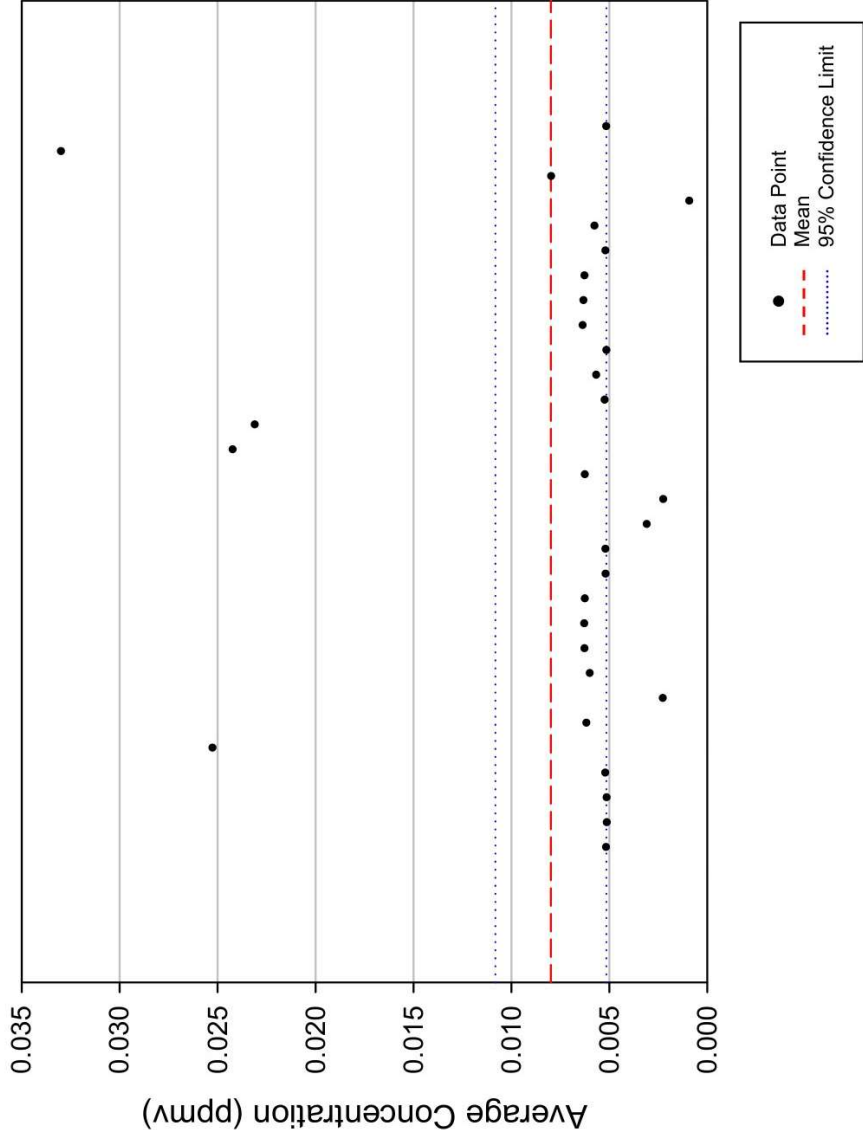


Table C-12. Carbon Tetrachloride Data Statistics

Number of Data Points	30
Minimum (ppmv)	8.55E-04
Maximum (ppmv)	3.29E-02
Mean (ppmv)	7.98E-03
Median (ppmv)	5.65E-03
Standard Deviation (ppmv)	7.59E-03
Standard Error (ppmv)	1.39E-03
95% Confidence Interval (+/- ppmv)	2.84E-03
99% Confidence Interval (+/- ppmv)	3.82E-03

Group D: Sulfur Compounds Data and Statistics

Figure D-1. Hydrogen Sulfide Data Statistics Plot

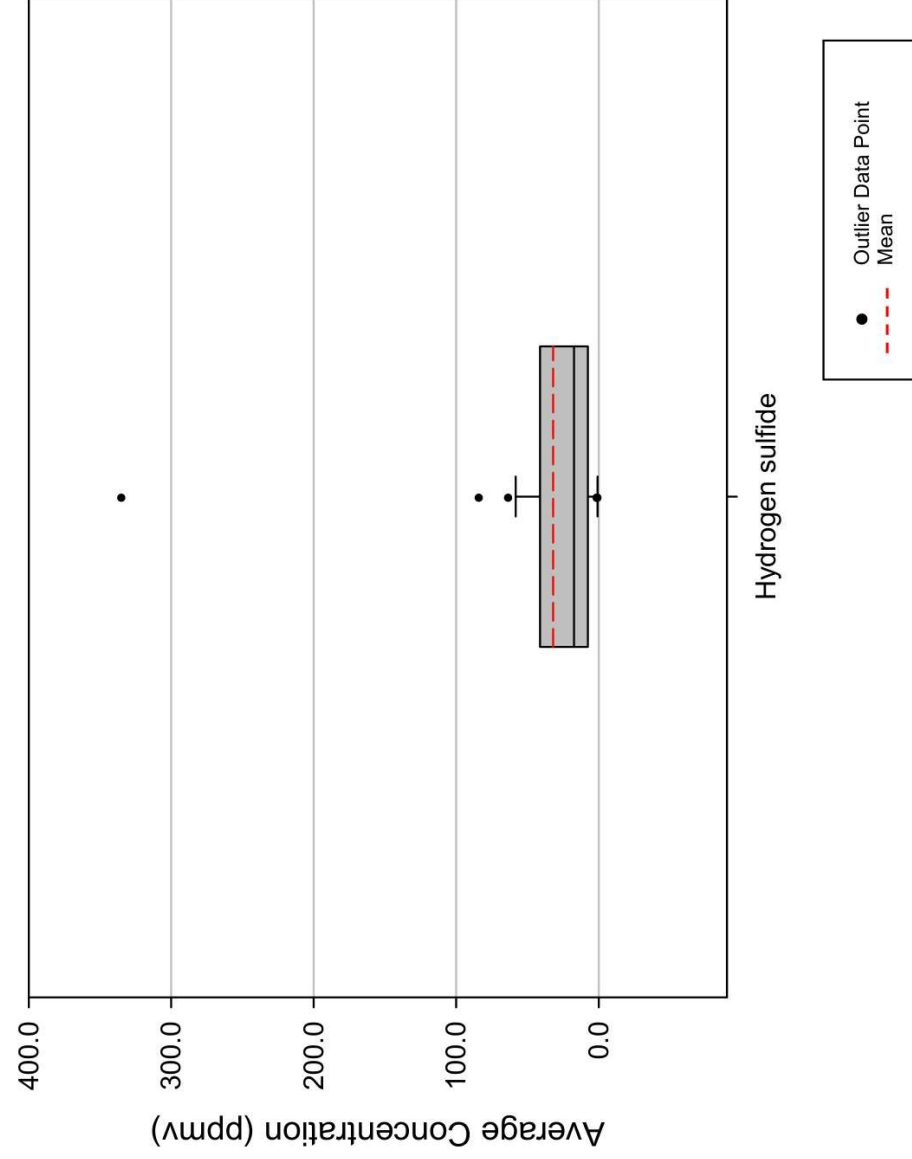


Figure D-2. Carbon Disulfide, Carbonyl Sulfide, and Ethyl Mercaptan Data Statistics Plot

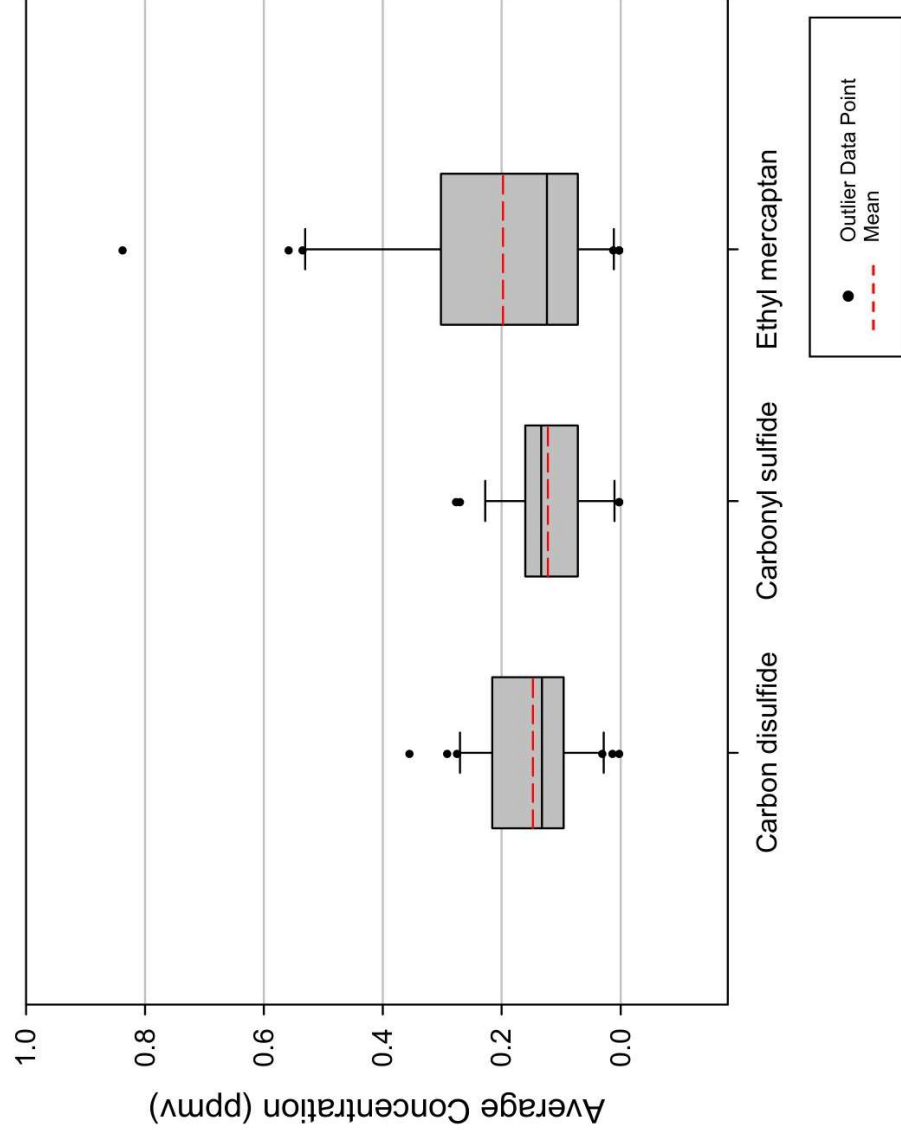


Figure D-3. Methyl Mercaptan and Dimethyl Sulfide Data Statistics Plot

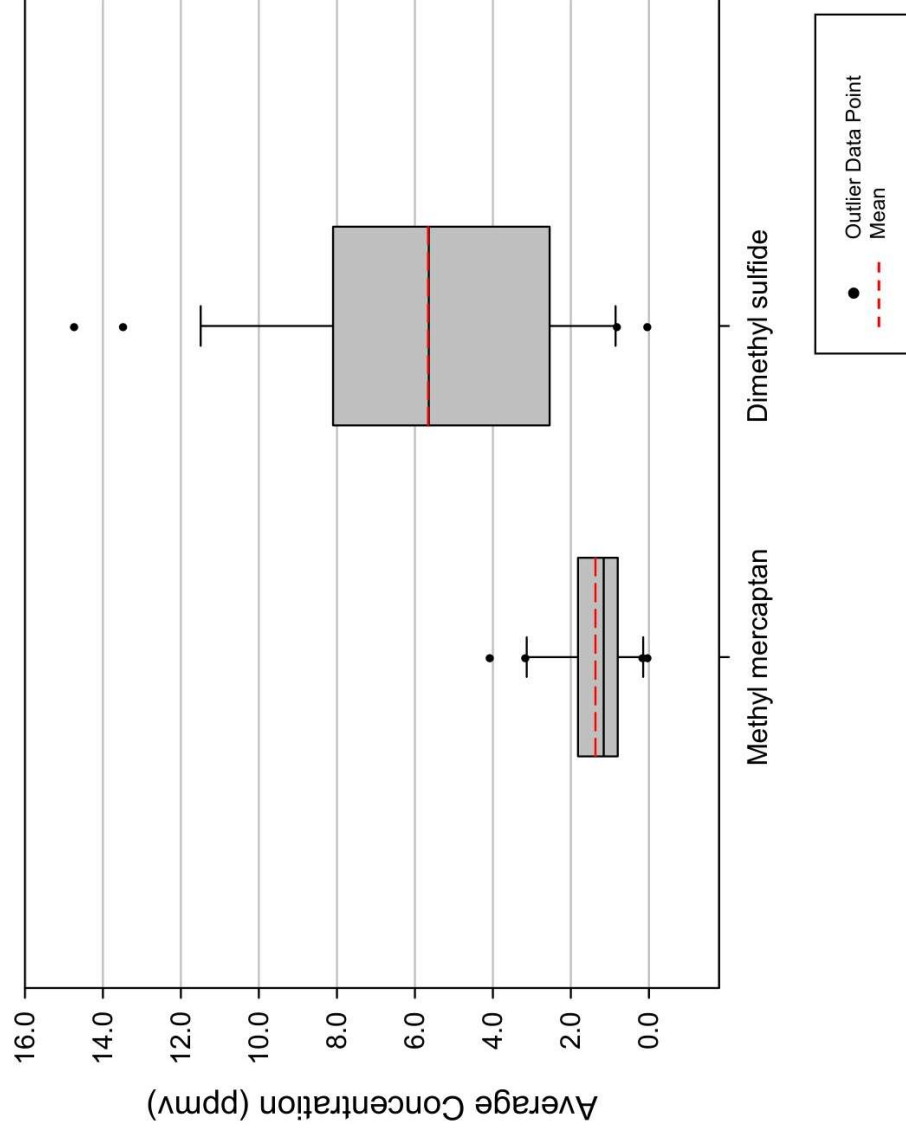


Figure D-4. Dimethyl Disulfide Data Statistics Plot

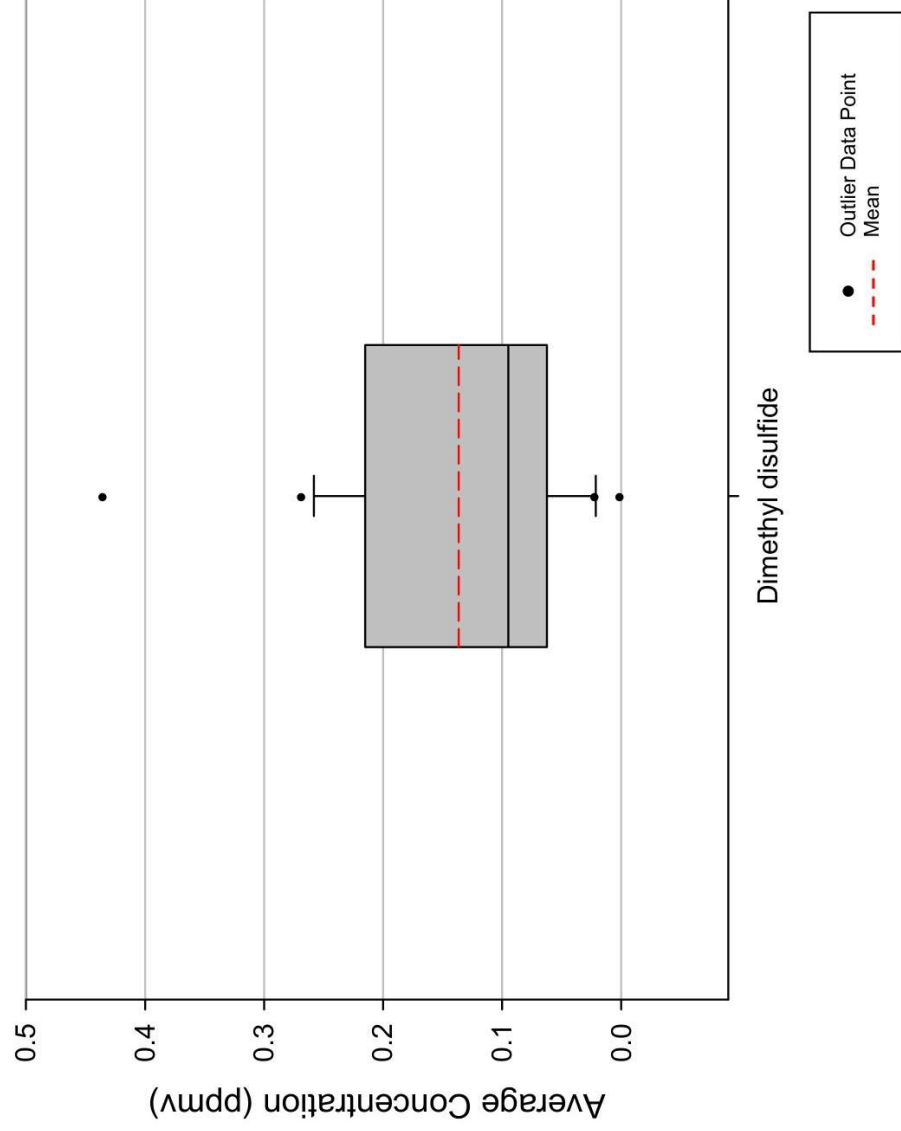


Figure D-5. Hydrogen Sulfide Data Plot

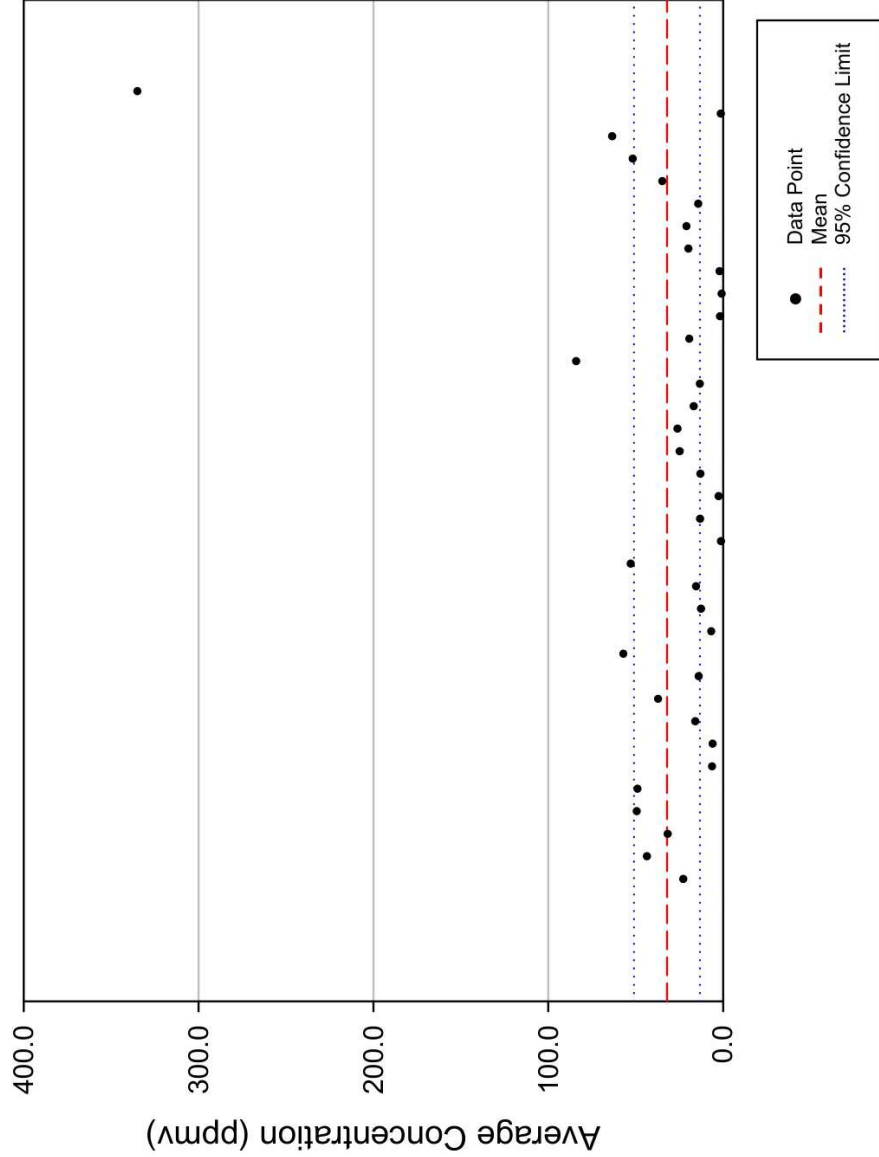


Table D-1. Hydrogen Sulfide Data Statistics

Number of Data Points	36
Minimum (ppmv)	1.02E-03
Maximum (ppmv)	3.34E+02
Mean (ppmv)	3.20E+01
Median (ppmv)	1.73E+01
Standard Deviation (ppmv)	5.57E+01
Standard Error (ppmv)	9.29E+00
95% Confidence Interval (+/- ppmv)	1.89E+01
99% Confidence Interval (+/- ppmv)	2.53E+01

Figure D-6. Carbon Disulfide Data Plot

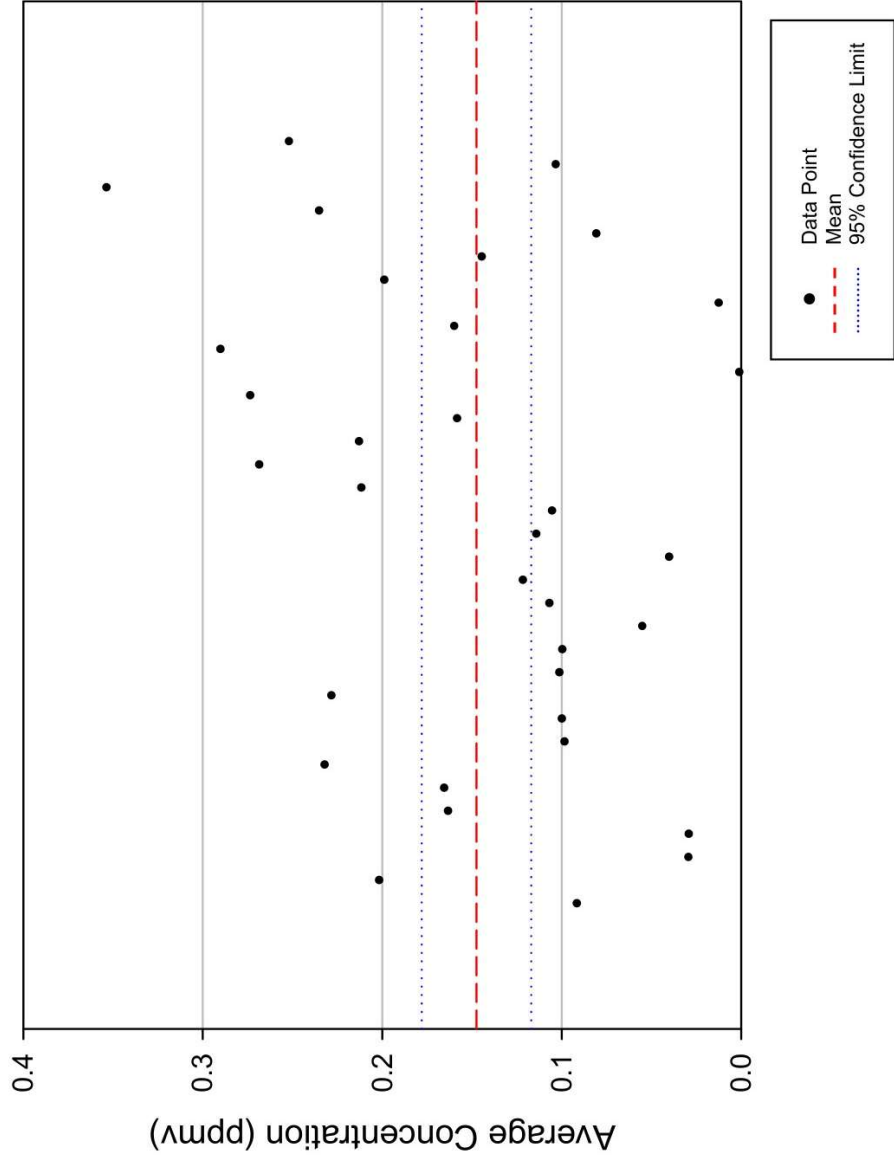


Table D-2. Carbon Disulfide Data Statistics

Number of Data Points	34
Minimum (ppmv)	2.92E-04
Maximum (ppmv)	3.53E-01
Mean (ppmv)	1.47E-01
Median (ppmv)	1.32E-01
Standard Deviation (ppmv)	8.74E-02
Standard Error (ppmv)	1.50E-02
95% Confidence Interval (+/- ppmv)	3.05E-02
99% Confidence Interval (+/- ppmv)	4.10E-02

Figure D-7. Carbonyl Sulfide Data Plot

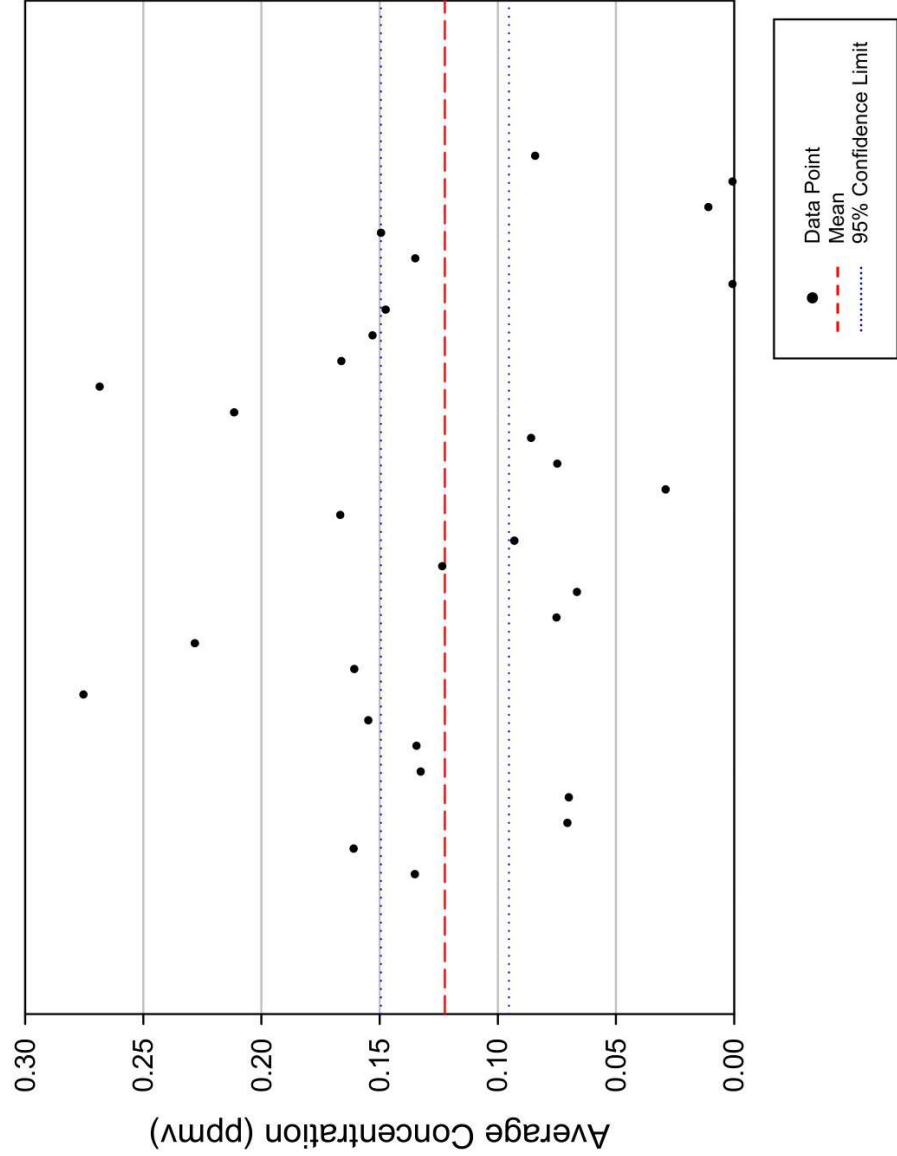


Table D-3. Carbonyl Sulfide Data Statistics

Number of Data Points	29
Minimum (ppmv)	1.04E-04
Maximum (ppmv)	2.75E-01
Mean (ppmv)	1.22E-01
Median (ppmv)	1.34E-01
Standard Deviation (ppmv)	7.12E-02
Standard Error (ppmv)	1.32E-02
95% Confidence Interval (+/- ppmv)	2.71E-02
99% Confidence Interval (+/- ppmv)	3.66E-02

Figure D-8. Methyl Mercaptan Data Plot

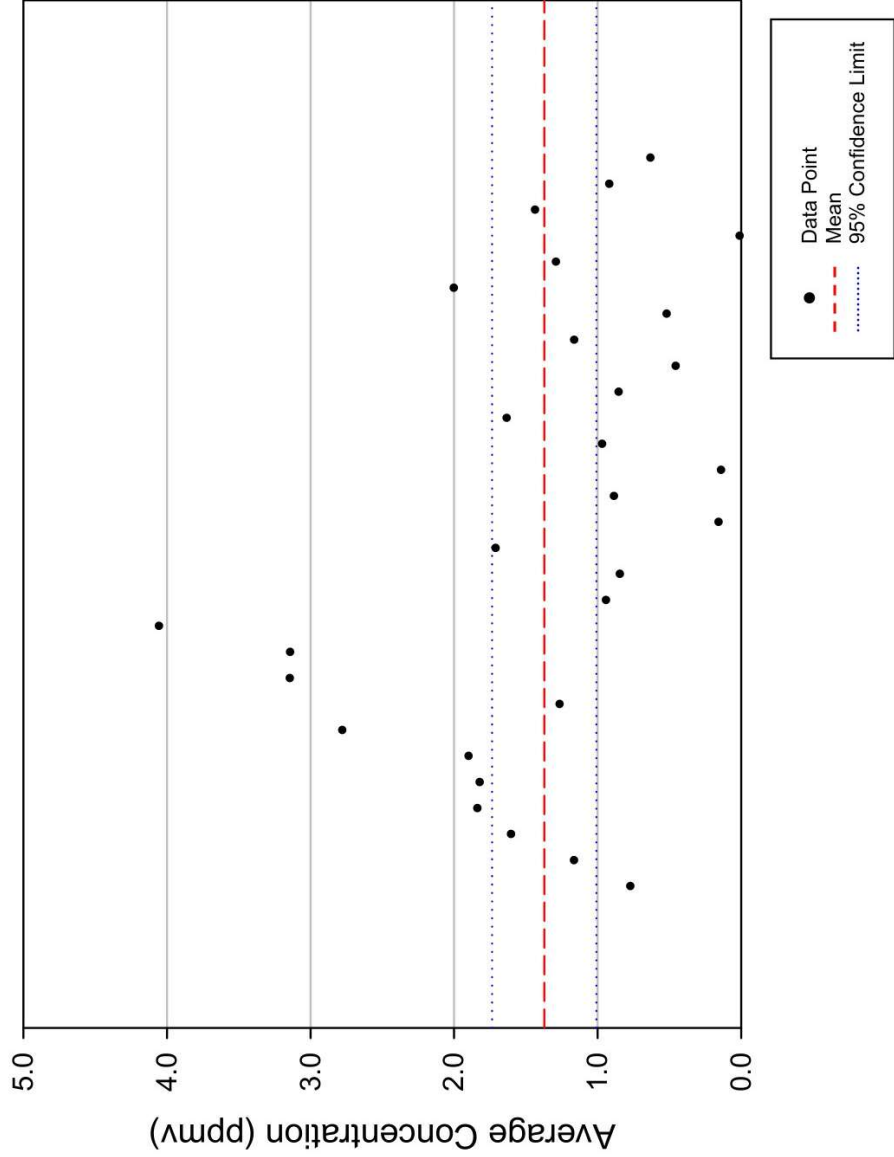


Table D-4. Methyl Mercaptan Data Statistics

Number of Data Points	29
Minimum (ppmv)	9.80E-04
Maximum (ppmv)	4.05E+00
Mean (ppmv)	1.37E+00
Median (ppmv)	1.16E+00
Standard Deviation (ppmv)	9.55E-01
Standard Error (ppmv)	1.77E-01
95% Confidence Interval (+/- ppmv)	3.63E-01
99% Confidence Interval (+/- ppmv)	4.90E-01

Figure D-9. Ethyl Mercaptan Data Plot

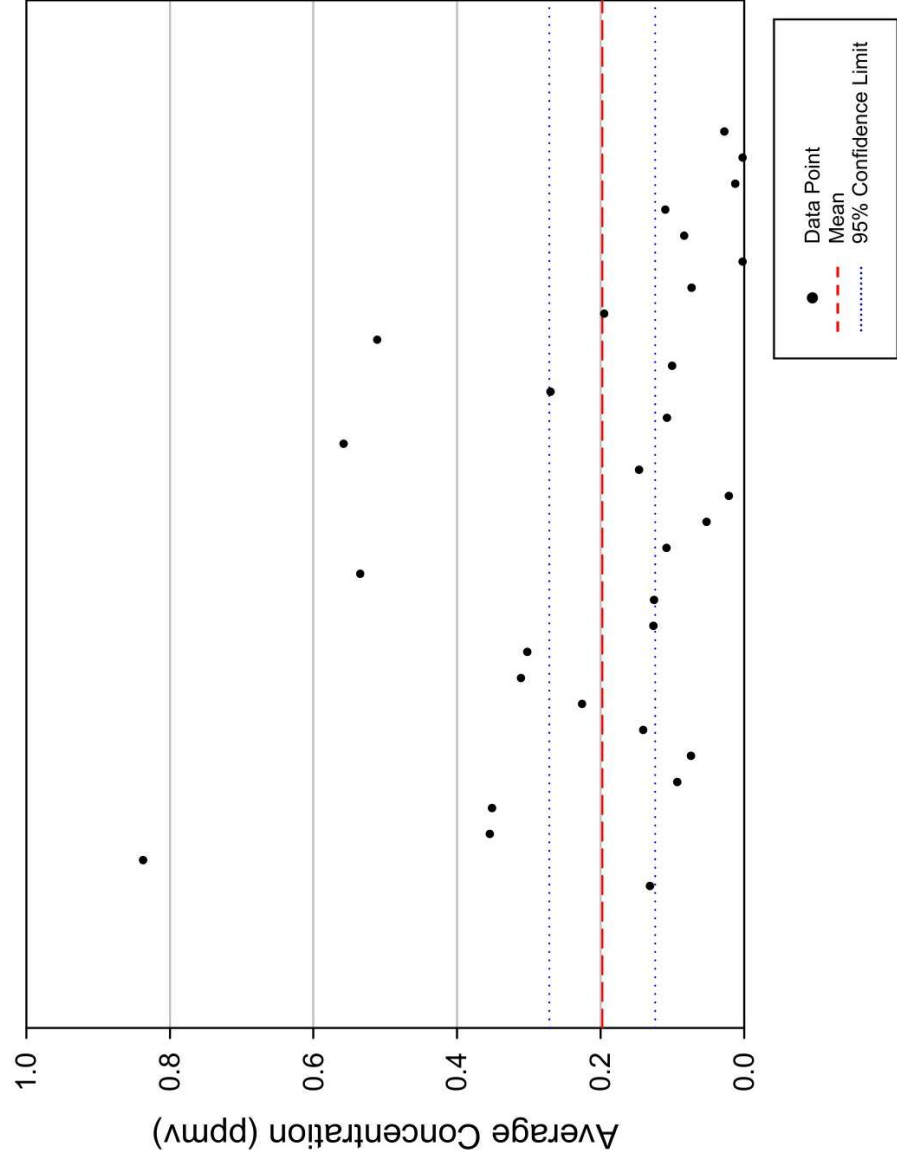


Table D-5. Ethyl Mercaptan Data Statistics

Number of Data Points	30
Minimum (ppmv)	6.05E-05
Maximum (ppmv)	8.35E-01
Mean (ppmv)	1.98E-01
Median (ppmv)	1.24E-01
Standard Deviation (ppmv)	1.97E-01
Standard Error (ppmv)	3.60E-02
95% Confidence Interval (+/- ppmv)	7.37E-02
99% Confidence Interval (+/- ppmv)	9.93E-02

Figure D-10. Dimethyl Sulfide Data Plot

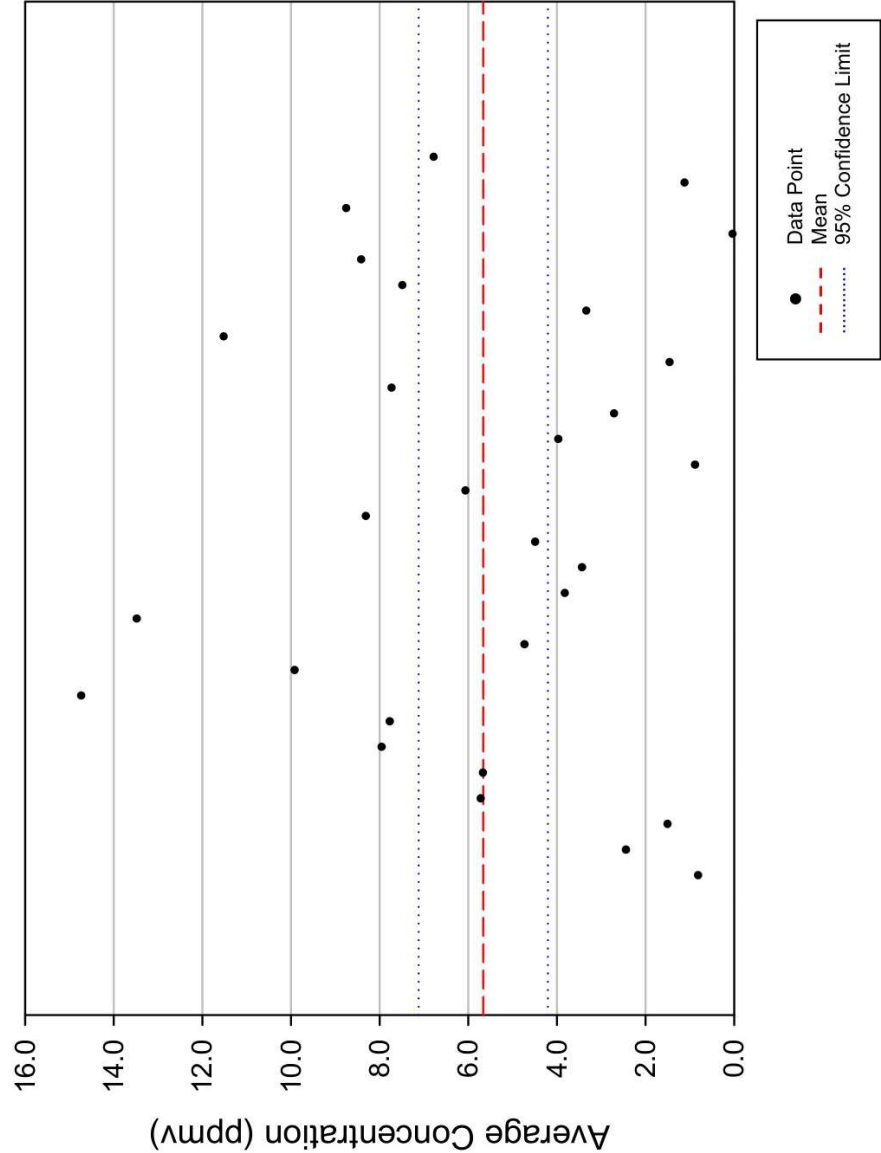


Table D-6. Dimethyl Sulfide Data Statistics

Number of Data Points	29
Minimum (ppmv)	7.51E-03
Maximum (ppmv)	1.47E+01
Mean (ppmv)	5.66E+00
Median (ppmv)	5.64E+00
Standard Deviation (ppmv)	3.83E+00
Standard Error (ppmv)	7.11E-01
95% Confidence Interval (+/- ppmv)	1.46E+00
99% Confidence Interval (+/- ppmv)	1.96E+00

Figure D-11. Dimethyl Disulfide Data Plot

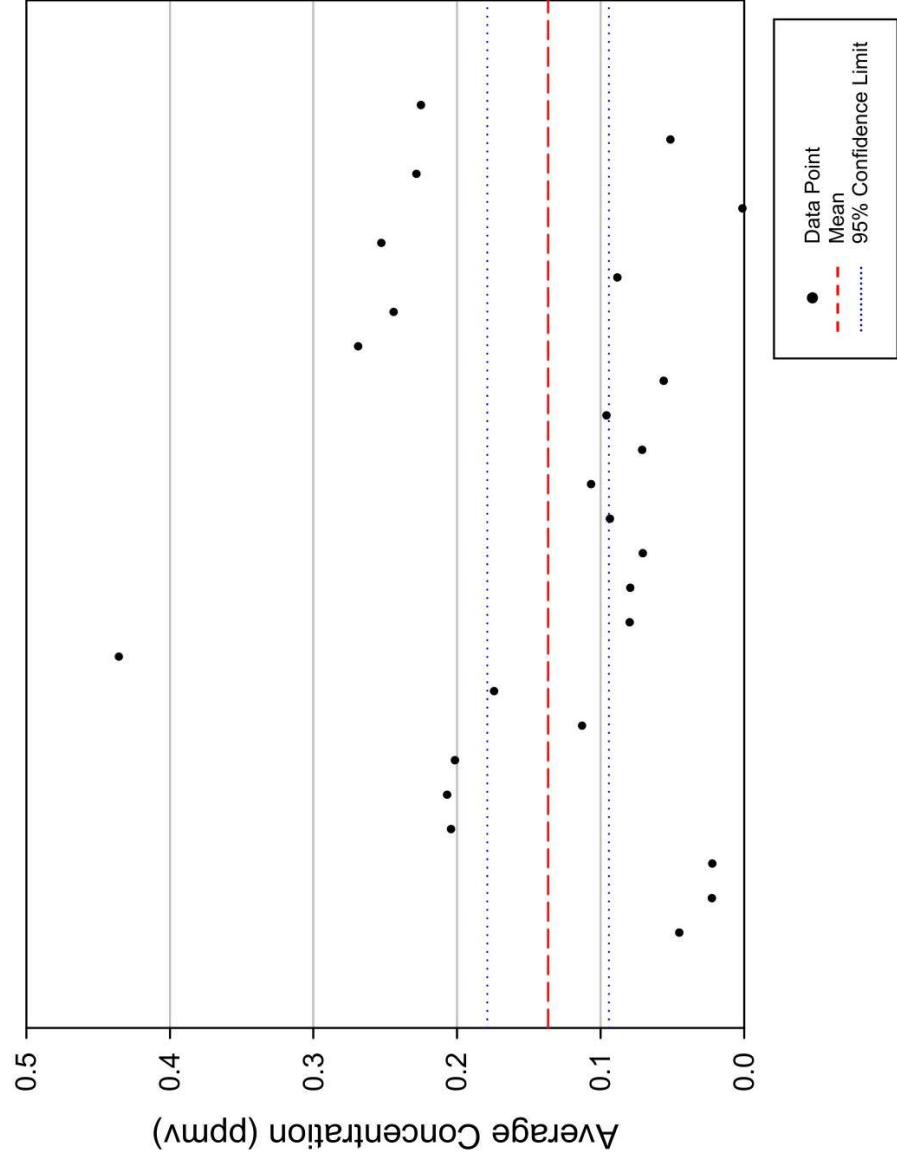


Table D-7. Dimethyl Disulfide Data Statistics

Number of Data Points	25
Minimum (ppmv)	2.29E-04
Maximum (ppmv)	4.35E-01
Mean (ppmv)	1.37E-01
Median (ppmv)	9.49E-02
Standard Deviation (ppmv)	1.03E-01
Standard Error (ppmv)	2.05E-02
95% Confidence Interval (+/- ppmv)	4.23E-02
99% Confidence Interval (+/- ppmv)	5.74E-02

Group E: Mercury Compounds Data and Statistics

Figure E-19. Total Mercury and Elemental Mercury Data Statistics Plot

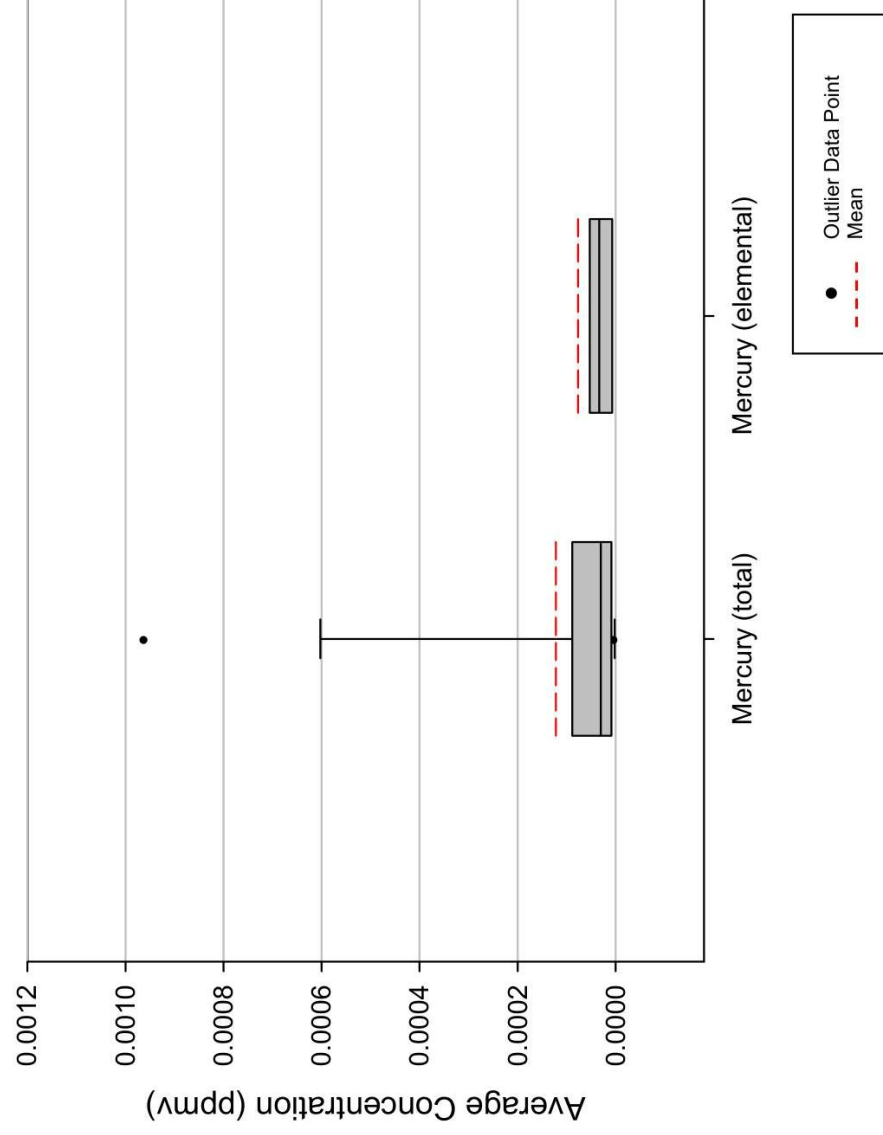


Figure E-2. Monomethyl Mercury and Dimethyl Mercury Data Statistics Plot

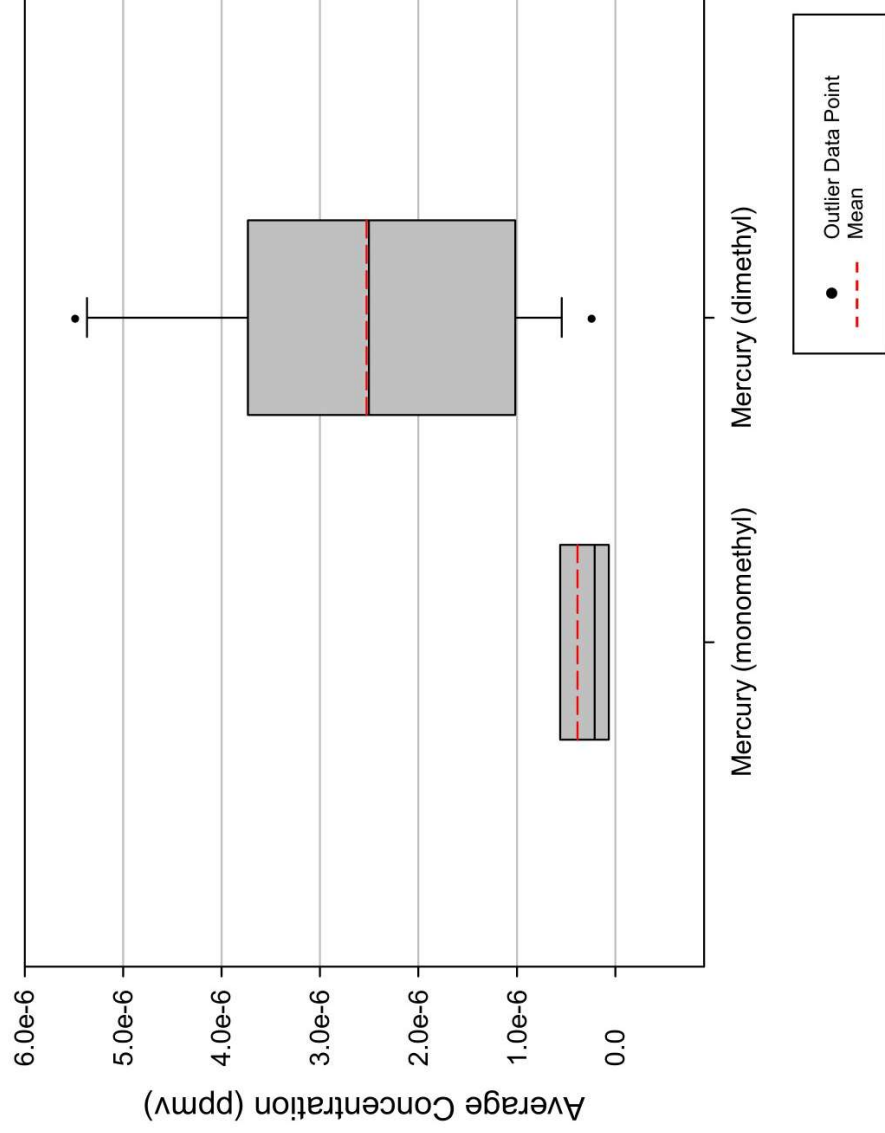


Figure E-3. Total Mercury Data Plot

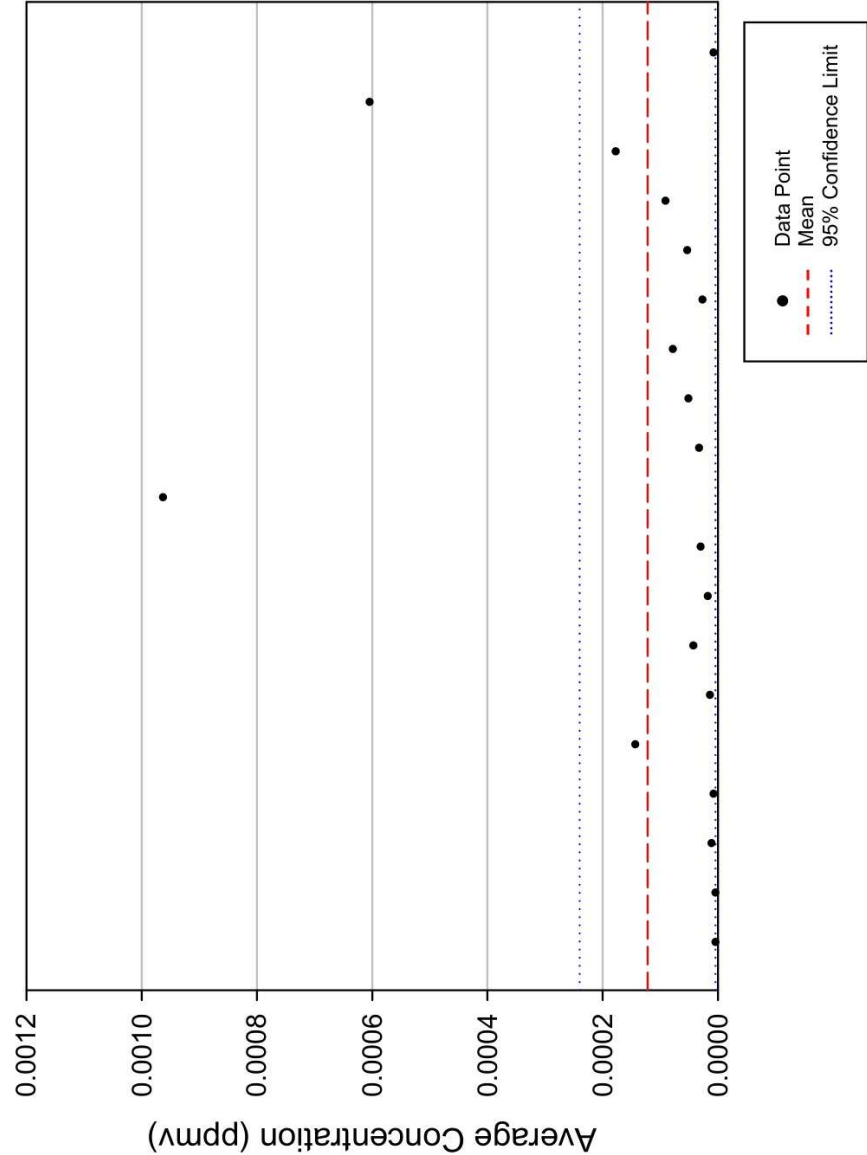


Table E-1. Total Mercury Data Statistics

Number of Data Points	19
Minimum (ppmv)	1.98E-06
Maximum (ppmv)	9.61E-04
Mean (ppmv)	1.22E-04
Median (ppmv)	3.03E-05
Standard Deviation (ppmv)	2.45E-04
Standard Error (ppmv)	5.61E-05
95% Confidence Interval (+/- ppmv)	1.18E-04
99% Confidence Interval (+/- ppmv)	1.62E-04

Figure E-4. Elemental Mercury Data Plot

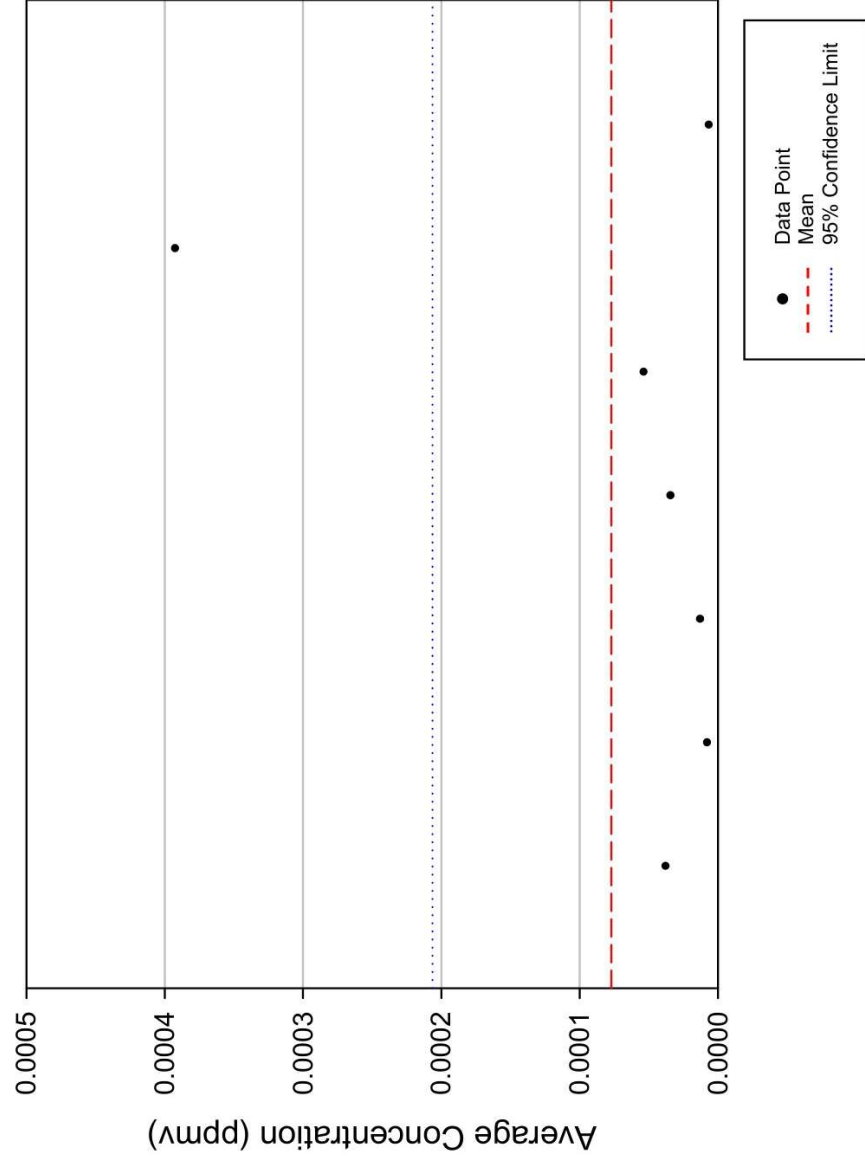


Table E-2. Elemental Mercury Data Statistics

Number of Data Points	7
Minimum (ppmv)	5.64E-06
Maximum (ppmv)	3.92E-04
Mean (ppmv)	7.70E-05
Median (ppmv)	3.33E-05
Standard Deviation (ppmv)	1.40E-04
Standard Error (ppmv)	5.29E-05
95% Confidence Interval (+/- ppmv)	1.29E-04
99% Confidence Interval (+/- ppmv)	1.96E-04

Figure E-5. Monomethyl Mercury Data Plot

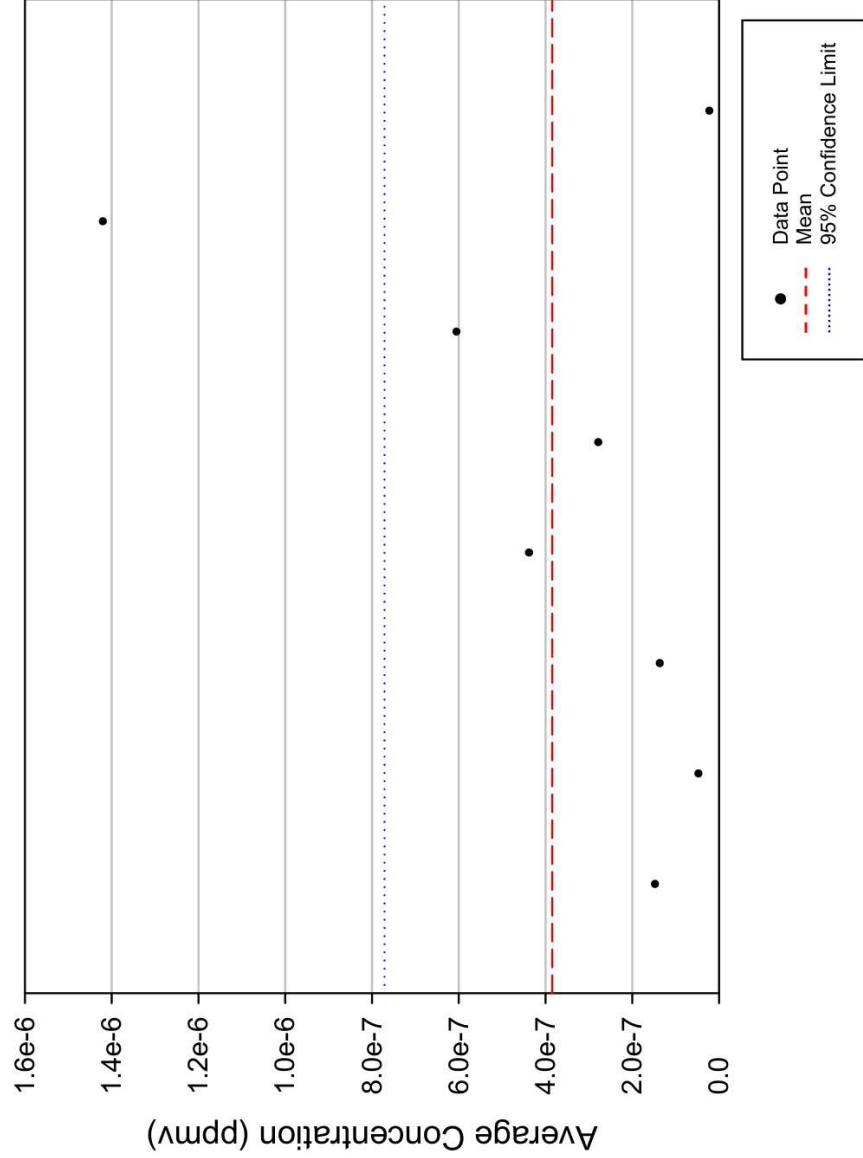


Table E-3. Monomethyl Mercury Data Statistics

Number of Data Points	8
Minimum (ppmv)	1.96E-08
Maximum (ppmv)	1.42E-06
Mean (ppmv)	3.84E-07
Median (ppmv)	2.10E-07
Standard Deviation (ppmv)	4.63E-07
Standard Error (ppmv)	1.64E-07
95% Confidence Interval (+/- ppmv)	3.87E-07
99% Confidence Interval (+/- ppmv)	5.72E-07

Figure E-6. Dimethyl Mercury Data Plot

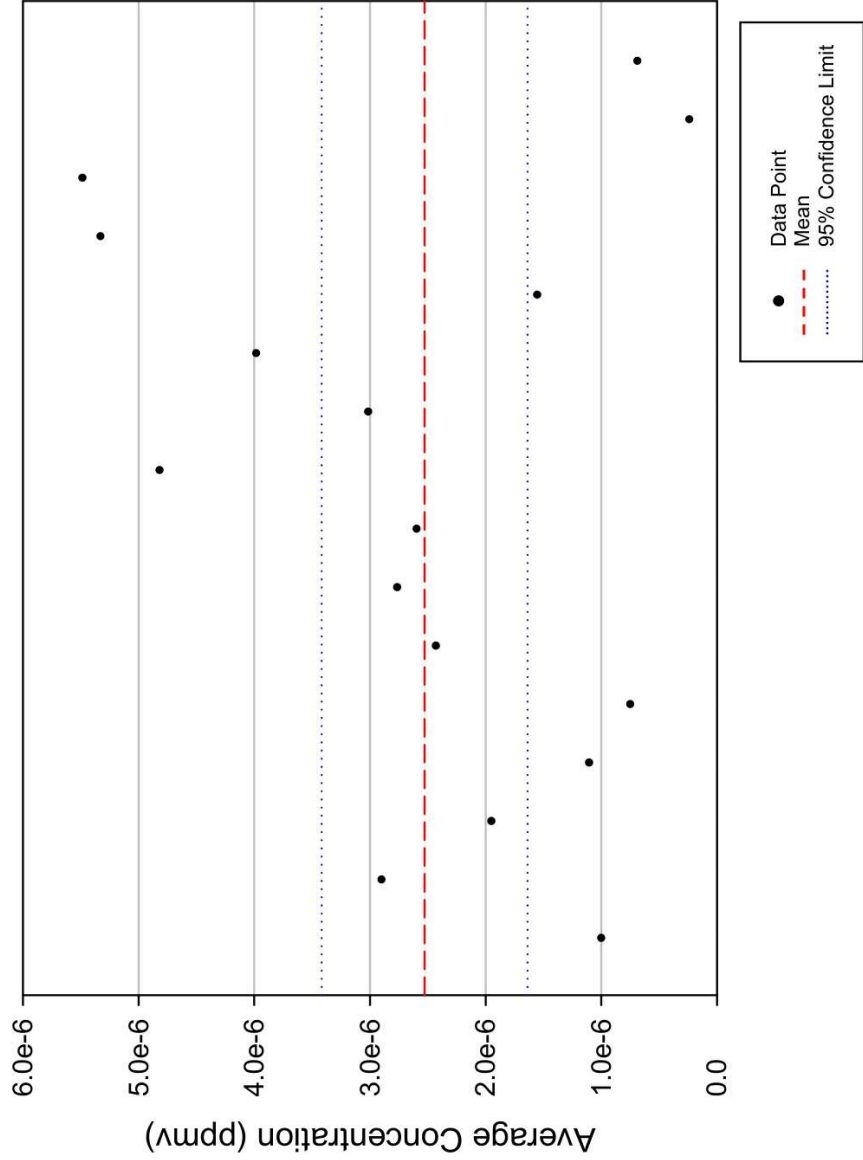


Table E-4. Dimethyl Mercury Data Statistics

Number of Data Points	16
Minimum (ppmv)	2.29E-07
Maximum (ppmv)	5.48E-06
Mean (ppmv)	2.53E-06
Median (ppmv)	2.50E-06
Standard Deviation (ppmv)	1.67E-06
Standard Error (ppmv)	4.17E-07
95% Confidence Interval (+/- ppmv)	8.90E-07
99% Confidence Interval (+/- ppmv)	1.23E-06

Appendix F: BOILERS
Background Data for Control Efficiencies from 1998 AP-42 Update

BID	AP-42	Date	Landfill Name	Control/	Compound	Molecular	Flow Rate	Conc. In	Conc. Out	Flow Rate	Rate	Rate	>	Control	EF	Comments
Ref.	Ref.#	mo/yr		Utilization		Weight	(dscfm)	(ppm)	(ppm)	(dscfm)	(lbs/hr)	(lbs/hr)	<	Efficiency	Rating	
56	39	6/91	Coyote Canyon	Boiler	TGNMO (as hexane)	86	9950	1150.00	3.8300	122657	155.77591	6.39544	=	95.89%	C	Lacking Backup Data
					Benzene	78.12	9950	1.73	0.0459	122657	0.21287	0.06962	=	67.29%	C	data point excluded
					1,2-Dichlorobenzene	98.96	9950	0.10	0.0011	122657	0.01590	0.00214	=	86.52%	C	
					Perchloroethylene	165.83	9950	8.55	0.0179	122657	2.23323	0.05764	=	97.42%	C	
					Toluene	92.13	9950	62.50	0.1220	122657	9.06954	0.21824	=	97.59%	C	
					Xylenes	106.16	9950	32.02	0.0205	122657	5.35410	0.04226	=	99.21%	C	
					Avg. Halo.									91.97%		
					Avg. Non-Halo.									88.03%		
70	53	9/93	Puente Hills	Boiler #400	Benzene	78.12	10870	4.60	0.0015	69770	0.61834	0.00129	=	99.79%	D	
					Toluene	92.13	10870	33.00	0.0037	69770	5.23149	0.00376	=	99.93%	D	
					Xylenes	106.16	10870	17.00	0.0018	69770	3.10542	0.00211	=	99.93%	D	
					Average									99.88%		
					Perchloroethylene	165.83	10870	1.70	0.0001	69770	0.48509	0.00018	>	99.96%	D	Lacking Backup Data; CE is >99.93
					Methylene Chloride	84.94	10870	5.40	0.0003	69770	0.78925	0.00028	=	99.96%	D	
					Dichlorobenzene	98.96	10870	0.50	0.0001	69770	0.08514	0.00011	>	99.87%	D	Lacking Backup Data; CE is >99.75
					Average									99.93%		
102	68	11/95	Puente Hills	Boiler #300	Benzene	78.12	10895	3.30	0.0008	64847	0.44462	0.00064	=	99.86%	D	
					Toluene	92.13	10895	16.00	0.0026	64847	2.54231	0.00246	=	99.90%	D	
					Xylenes	106.16	10895	12.00	0.0006	64847	2.19710	0.00065	>	99.97%	D	Lacking Backup Data; CE is >99.95
					Average									99.91%		
					Perchloroethylene	165.83	10895	1.60	0.0005	64847	0.45761	0.00085	>	99.81%	D	
					Methylene Chloride	84.94	10895	1.60	0.0016	64847	0.23439	0.00140	=	99.40%	D	
					Dichlorobenzene	98.96	ND	ND	ND	ND	ND	ND		ND	ND	
					Average									99.61%		
102	68	12/92	Palos Verdes	Boiler #1	TGNMO (as hexane)	86	3557	1200.00	2.6800	14615	58.10914	0.53323	=	99.08%	D	Lacking Backup Data
					Benzene	78.12	3557	11.00	0.0002	14615	0.48386	0.00004	=	99.99%	D	
					Toluene	92.13	3557	24.00	0.0005	14615	1.24502	0.00011	>	99.99%	D	Lacking Backup Data; CE is >99.98
					Xylenes	106.16	3557	21.00	0.0001	14615	1.25529	0.00002	=	99.99%	D	Lacking Backup Data; CE is >99.99
					Average									99.99%		
					Perchloroethylene	165.83	3557	0.40	0.0001	14615	0.03735	0.00004	>	99.90%	D	Lacking Backup Data; CE is >99.80
					Methylene Chloride	84.94	3557	0.20	0.0001	14615	0.00957	0.00002	>	99.79%	D	Lacking Backup Data; CE is >99.59
					Dichlorobenzene	98.96	3557	1.30	0.0001	14615	0.07244	0.00002	>	99.97%	D	Lacking Backup Data; CE is >99.94
					Average									99.89%		

Appendix F: BOILERS
Background Data for Control Efficiencies from 1998 AP-42 Update

BID	AP-42	Date	Landfill Name	Control/	Compound	Molecular	Flow Rate	Conc. In	Conc. Out	Flow Rate	Rate	Rate	>	Control	EF	Comments
Ref.	Ref.#	mo/yr		Utilization		Weight	(dscfm)	(ppm)	(ppm)	(dscfm)	(lbs/hr)	(lbs/hr)	<	Efficiency	Rating	
102	68	12/94	Palos Verdes	Boiler #1	TGNMO (as hexane)	86	3296	827.00	0.3330	13578	37.10839	0.06155	>	99.83%	D	Lacking Backup Data; CE is >99.83
				Boiler Average										99.46%		
102	68	11/93	Palos Verdes	Boiler #2	TGNMO (as hexane)	86	3504	499.00	1.3400	12847	23.80367	0.23436	=	99.02%	D	Lacking Backup Data
102	68	12/95	Palos Verdes	Boiler #2	TGNMO (as hexane)	86	3404	833.00	0.9680	12774	38.60237	0.16834	=	99.56%	D	Lacking Backup Data
					Benzene	78.12	3404	11.00	0.0028	12774	0.46305	0.00044	>	99.90%	D	
					Toluene	92.13	3404	28.00	0.0100	12774	1.39005	0.00186	>	99.87%	D	
					Xylenes	106.16	3404	22.00	0.0021	12774	1.25850	0.00045	>	99.96%	D	
					Average									99.91%		
					Perchloroethylene	165.83	3404	0.17	0.0005	12774	0.01519	0.00017	=	98.90%	D	Lacking Backup Data; CE is >99.69
					Methylene Chloride	84.94	3404	0.11	0.0005	12774	0.00503	0.00009	=	98.29%	D	Lacking Backup Data; CE is >99.69
					Dichlorobenzene	98.96	3404	0.31	0.0001	12774	0.01653	0.00002	=	99.88%	D	Lacking Backup Data; CE is >99.78
					Average									99.02%		
														99.29%		
					Benzene	78.12	3137	4.00	0.0060	13430	0.15517	0.00100	=	99.36%	D	
					Toluene	92.13	3137	32.00	0.0011	13430	1.46402	0.00022	=	99.99%	D	
					Xylenes	106.16	3137	20.90	0.0002	13430	1.10180	0.00005	=	100.00%	D	Lacking Backup Data; CE is >99.99
					Average									99.78%		
					Perchloroethylene	165.83	3137	4.00	0.0001	13430	0.32940	0.00004	>	99.99%	D	Lacking Backup Data; CE is >99.98
					Methylene Chloride	84.94	3137	22.00	0.0001	13430	0.92796	0.00002	=	100.00%	D	Lacking Backup Data; CE is >100.00
					Dichlorobenzene	98.96	ND	ND	ND	ND	ND	ND		ND	ND	
					Average									99.99%		
102	68	8/91	Spadra	Boiler	TNMHC (as hexane)	86	3240	698.00	0.7950	16410	30.78788	0.17760	=	99.42%	D	Lacking Backup Data
102	68	8/92	Spadra	Boiler	TNMHC (as hexane)	86	3137	1320.00	1.9300	13430	56.37257	0.35287	=	99.37%	D	Lacking Backup Data
102	68	9/93	Spadra	Boiler	TNMHC (as hexane)	86	3752	527.00	0.3330	19720	26.91862	0.08940	>	99.67%	D	Lacking Backup Data; CE is >99.67
102	68	12/94	Spadra	Boiler	TNMHC (as hexane)	86	3926	603.00	0.3330	19720	32.22901	0.08940	>	99.72%	D	Lacking Backup Data; CE is >99.72
102	68	12/95	Spadra	Boiler	TNMHC (as hexane)	86	3953	833.00	9.5000	17357	44.82819	2.24480	=	94.99%	D	Lacking Backup Data
														98.64%		
					Overall Boiler Average NMOC CE									98.00%		
					Stdev									1.87%		
					95% Conf									2.11%		
					Overall Boiler Halo CE									98.40%		
					Overall Boiler Non-Halo CE									97.92%		

Appendix F: GAS TURBINES
Background Data for Control Efficiencies from 1998 AP-42 Update

BID Ref.	AP-42 Ref.#	Date mo/yr	Landfill Name	Control/Utilization	Compound	Molecular Weight	Flow Rate (scfm)	Conc. In (ppm)	Conc. Out (ppm)	Flow Rate (dscfm)	Rate (lbs/hr)	Rate (lbs/hr)	>	Control Efficiency	EF Rating	Comments
				Gas Turbine (#1)	Average									#DIV/0!		
				Gas Turbine (#2)	Average									#DIV/0!		
102	68	5/90	Puente Hills	Gas Turbine (#1)	Benzene	78.12	1852	2.30	0.0013	30559	0.05268	0.00049	=	99.07%	D	
102	68	9/93	Puente Hills	Gas Turbine (#1)	Benzene	78.12	1215	0.20	0.0002	30559	0.00301	0.00008	=	97.48%	D	
														98.28%		
102	68	7/90	Puente Hills	Gas Turbine (#2)	Benzene	78.12	1398	2.20	0.0047	20415	0.03803	0.00119	=	96.88%	D	
102	68	11/91	Puente Hills	Gas Turbine (#2)	Benzene	78.12	1301	4.10	0.0080	22937	0.06596	0.00227	=	96.56%	D	
102	68	9/93	Puente Hills	Gas Turbine (#2)	Benzene	78.12	1215	4.00	0.0059	20180	0.06010	0.00147	=	97.55%	D	
102	68	11/94	Puente Hills	Gas Turbine (#2)	Benzene	78.12	1311	2.90	0.0029	21151	0.04702	0.00076	=	98.39%	D	
														97.34%		
														97.81%		
				Gas Turbine (#1)	Dichlorobenzene	98.96	1852	0.20	0.0002	30559	0.00580	0.00010	=	98.35%	D	Lacking Backup Data
				Gas Turbine (#2)	Dichlorobenzene	98.96	1398	1.30	0.0001	20415	0.02847	0.00003	>	99.89%	D	Lacking Backup Data; CE is >99.82
														99.12%		
				Gas Turbine (#1)	Methylene Chloride	84.94	1852	4.90	0.0001	30559	0.12202	0.00004	>	99.97%	D	Lacking Backup Data; CE is >99.93
102	68	3/95	Puente Hills	Gas Turbine (#1)	Methylene Chloride	106.16	1481	2.20	0.0016	30895	0.05475	0.00083	=	98.48%	D	
														99.22%		
				Gas Turbine (#2)	Methylene Chloride	84.94	1398	5.10	0.0001	20415	0.09587	0.00003	>	99.97%	D	Lacking Backup Data; CE is >99.95
102	68	9/93	Puente Hills	Gas Turbine (#2)	Methylene Chloride	84.94	1215	5.70	0.0003	20180	0.09312	0.00008	=	99.91%	D	
														99.94%		
														99.58%		
				Gas Turbine (#1)	Perchloroethylene	165.83	1852	3.10	0.0001	30559	0.15071	0.00008	>	99.95%	D	Lacking Backup Data; CE is >99.89
				Gas Turbine (#2)	Perchloroethylene	165.83	1398	4.10	0.0002	20415	0.15046	0.00008	=	99.95%	D	Lacking Backup Data; CE is >99.91
														99.95%		
102	68	9/93	Puente Hills	Gas Turbine (#1)	TGNMO (as hexane)	86	1475	447.50	1.0650	27450	8.98596	0.39799	=	95.57%	D	
102	68	3/95	Puente Hills	Gas Turbine (#1)	TGNMO (as hexane)	86	1481	512.50	0.1670	30895	10.33304	0.07024	>	99.32%	D	TGNMO were ND in exhaust (<1ppm), so CE is >99.32
102	68	11/95	Puente Hills	Gas Turbine (#1)	TGNMO (as hexane)	86	1902	610.00	0.3670	30748	15.79500	0.15363	=	99.03%	D	
102	68	5/90	Puente Hills	Gas Turbine (#1)	TNMHC (as hexane)	86	1852	625.70	0.1700	30559	15.77562	0.07072	>	99.55%	D	All Ref. 102 Tests are lacking backup data; summary data only; Eff is >99.95%
102	68	12/90	Puente Hills	Gas Turbine (#1)	TNMHC (as hexane)	86	1751	516.70	1.5830	30012	12.31697	0.64678	=	94.75%	D	
102	68	8/91	Puente Hills	Gas Turbine (#1)	TNMHC (as hexane)	86	1195	785.00	1.0570	28684	12.77077	0.41276	=	96.77%	D	
102	68	10/92	Puente Hills	Gas Turbine (#1)	TNMHC (as hexane)	86	1522	700.00	1.4880	29625	14.50414	0.60012	=	95.86%	D	
														97.26%		
102	68	11/91	Puente Hills	Gas Turbine (#2)	TNMHC (as hexane)	86	1301	824.10	4.6330	22937	14.59609	1.44670	=	90.09%	D	
102	68	9/93	Puente Hills	Gas Turbine (#2)	TGNMO (as hexane)	86	1215	474.00	2.0170	20180	7.84032	0.55412	=	92.93%	D	
														91.51%		

Appendix F: GAS TURBINES
Background Data for Control Efficiencies from 1998 AP-42 Update

BID Ref.	AP-42 Ref.#	Date mo/yr	Landfill Name	Control/Utilization	Compound	Molecular Weight	Flow Rate (scfm)	Conc. In (ppm)	Conc. Out (ppm)	Flow Rate (dscfm)	Rate (lbs/hr)	Rate (lbs/hr)	>	Control Efficiency	EF Rating	Comments
				Gas Turbine (#1)	Toluene	92.13	1852	29.00	0.0770	30559	0.78329	0.03432	=	95.62%	D	
102	68	12/90	Puente Hills	Gas Turbine (#1)	Toluene	92.13	1751	43.00	0.0021	30012	1.09809	0.00092	=	99.92%	D	
102	68	8/91	Puente Hills	Gas Turbine (#1)	Toluene	92.13	1195	42.00	0.0020	28684	0.73198	0.00084	=	99.89%	D	
102	68	10/92	Puente Hills	Gas Turbine (#1)	Toluene	92.13	1522	33.00	0.0029	29625	0.73250	0.00125	=	99.83%	D	
				Gas Turbine (#2)	Toluene	92.13	1398	4.20	0.0027	20415	0.08563	0.00080	=	98.81% 99.06%	D	
102	68	11/91	Puente Hills	Gas Turbine (#2)	Vinyl Chloride	62.5	1301	1.00	0.0005	22937	0.01287	0.00011	=	99.12%	D	
				Gas Turbine (#1)	Xylenes	106.16	1852	17.60	0.0169	30559	0.54777	0.00868	=	98.42%	D	
102	68	10/92	Puente Hills	Gas Turbine (#1)	Xylenes	106.16	1522	29.00	0.0005	29625	0.74174	0.00025	=	99.97%	D	Eff is >99.97
														99.19%		
				Gas Turbine (#2)	Xylenes	106.16	1398	29.00	0.0013	20415	0.68131	0.00045	=	99.93%	D	
														99.56%		
				Gas Turbine (#1)	halo	Average								99.17%		
				Gas Turbine (#1)	nonhalo	Average								98.76%		
				Gas Turbine (#2)	halo	Average								99.34%		
				Gas Turbine (#2)	nonhalo	Average								98.78%		
				Overall	halo	Average								99.26%		
				Overall	nonhalo	Average								98.77%		
				Overall	NMOC	Average								94.39%		
						Stdev								4.07%		
						95% Conf								5.64%		
NOTES: NOTE: For the LACSD Ref. 102 data, only CE data for which detectable concs. at the inlet are presented (for non-detects at the exhaust 0.5 x the detect limits are assumed). Multiple data points were used for compounds where a wide range of CE's were observed (i.e., >1.0%).																

Appendix F: FLARES
Background Data for Control Efficiencies from 1998 AP-42 Update

BID Ref.	Date mo/yr	Landfill ID	Device ID	Compound	> <	Average D.E. (%)	Flare Average (%)	Site Average (%)	Comments
	NMOC								
102	3/92	A	Flare (#1)		=	99.40	99.40	99.28	
102	2/91	A	Flare (#3)		>	99.97	99.97		
102	10/91	A	Flare (#4)		=	97.27	98.60		
102	5/96	A	Flare (#4)		>	99.92			
102	12/94	A	Flare (#5)		>	99.80	99.85		
102	9/90	A	Flare (#5)		>	99.90			
102	11/93	A	Flare (#6)		=	97.37	98.58		
102	9/90	A	Flare (#6)		=	99.78			
102	8/92	B	Flare (#1)		=	99.48	99.65	99.09	
102	9/94	B	Flare (#1)		=	99.66			
102	5/96	B	Flare (#1)		=	99.80			
102	7/90	B	Flare (#2)		=	99.67	99.26		
102	7/93	B	Flare (#2)		=	98.30			
102	5/96	B	Flare (#2)		>	99.80			
102	8/92	B	Flare (#3)		=	98.73	99.18		
102	6/95	B	Flare (#3)		>	99.63			
102	8/92	B	Flare (#4)		=	99.23	99.44		
102	6/95	B	Flare (#4)		>	99.64			
102	7/90	B	Flare (#5)		=	99.56	99.01		
102	7/93	B	Flare (#5)		=	97.80			
102	6/95	B	Flare (#5)		=	99.67			
102	8/92	B	Flare (#6)		=	99.41	99.54		
102	6/95	B	Flare (#6)		>	99.66			
102	7/93	B	Flare (#7)		=	97.30	98.50		
102	5/96	B	Flare (#7)		>	99.70			
102	11/91	B	Flare (#9)		=	98.29	98.57		
102	9/94	B	Flare (#9)		>	98.84			
102	11/91	B	Flare (#10)		>	98.98	99.23		
102	11/94	B	Flare (#10)		=	99.47			
102	9/94	B	Flare (#11)		=	99.40	99.40		
102	11/91	B	Flare (#12)		=	98.20	98.27		
102	7/93	B	Flare (#12)		=	96.90			
102	5/96	B	Flare (#12)		>	99.70			
102	1/94	C	Flare (#1)		=	98.90	98.90	99.33	
102	10/91	C	Flare (#2)		=	99.15	99.38		
102	2/92	C	Flare (#2)		=	99.20			
102	5/95	C	Flare (#2)		>	99.80			
102	2/92	C	Flare (#3)		=	99.60	99.70		
102	5/95	C	Flare (#3)		>	99.80			
102	8/90	C	Flare (#5)		>	99.79	99.39		
102	1/94	C	Flare (#5)		=	98.99			
102	10/91	C	Flare (#6)		=	99.21	99.26		
102	3/93	C	Flare (#6)		=	99.06			
102	4/96	C	Flare (#6)		=	99.50			
102	3/93	D	Flare (#1)		=	99.20	99.45	99.31	
102	3/95	D	Flare (#1)		>	99.70			
102	3/93	D	Flare (#2)		=	97.10	97.10		
102	2/91	D	Flare (#3)		=	99.42	99.54		
102	2/92	D	Flare (#3)		=	99.50			
102	3/95	D	Flare (#3)		>	99.70			
102	3/90	D	Flare (#4)		>	99.99	99.66		
102	2/92	D	Flare (#4)		=	99.50			
102	3/95	D	Flare (#4)		=	99.50			
102	3/90	D	Flare (#5)		=	99.20	99.15		
102	3/93	D	Flare (#5)		=	99.10			
102	3/90	D	Flare (#6)		>	99.70	99.43		
102	2/94	D	Flare (#6)		=	98.80			
102	3/96	D	Flare (#6)		=	99.78			
102	2/91	D	Flare (#7)		>	99.93	99.74		
102	7/95	D	Flare (#7)		=	99.54			
102	3/96	D	Flare (#8)		=	99.84	99.84		
102	3/96	D	Flare (#9)		=	99.84	99.84		

Appendix F: FLARES
Background Data for Control Efficiencies from 1998 AP-42 Update

BID	Date	Landfill ID	Device ID	Compound	>	Average	Flare	Site	Comments
Ref.	mo/yr				<	D.E. (%)	Average (%)	Average (%)	
102	10/90	E	Flare (#2)		>	99.66	97.44	98.50	
102	2/93	E	Flare (#2)		=	98.56			
102	8/95	E	Flare (#2)		=	94.10			
102	10/90	E	Flare (#3)		>	99.75	99.33		
102	5/94	E	Flare (#3)		=	98.90			
102	10/90	E	Flare (#4)		>	99.69	96.69		
102	2/93	E	Flare (#4)		=	96.57			
102	8/95	E	Flare (#4)		=	93.80			
102	5/91	E	Flare (#5)		=	99.01	98.71		
102	5/94	E	Flare (#5)		=	98.40			
102	12/91	E	Flare (#6)		=	99.21	99.10		
102	2/93	E	Flare (#6)		=	98.50			
102	3/95	E	Flare (#6)		=	99.59			
102	5/91	E	Flare (#7)		=	99.36	98.53		
102	5/94	E	Flare (#7)		=	97.70			
102	2/93	E	Flare (#8)		=	97.18	98.34		
102	3/95	E	Flare (#8)		>	99.50			
102	6/90	E	Flare (#9)		>	99.60	98.80		
102	5/94	E	Flare (#9)		=	98.00			
102	6/90	E	Flare (#10)		>	99.66	99.37		
102	12/93	E	Flare (#10)		=	98.90			
102	3/95	E	Flare (#10)		=	99.56			
102	6/90	E	Flare (#11)		>	99.71	99.46		
102	5/92	E	Flare (#11)		=	99.21			
102	2/96	E	Flare (#11)		=	99.46			
102	6/90	E	Flare (#12)		>	99.65	99.50		
102	12/93	E	Flare (#12)		=	99.20			
102	3/95	E	Flare (#12)		>	99.65			
102	7/90	E	Flare (#13)		>	99.78	99.43		
102	5/92	E	Flare (#13)		=	98.88			
102	2/96	E	Flare (#13)		>	99.64			
102	7/90	E	Flare (#14)		=	97.33	98.39		
102	12/93	E	Flare (#14)		=	99.44			
102	7/90	E	Flare (#15)		=	98.24	98.93		
102	2/96	E	Flare (#15)		>	99.62			
102	7/90	E	Flare (#16)		=	97.91	98.47		
102	12/93	E	Flare (#16)		=	99.02			
102	5/91	E	Flare (#17)		=	97.80	98.25		
102	5/92	E	Flare (#17)		=	98.70			
102	12/91	E	Flare (#18)		=	99.27	97.13		
102	11/92	E	Flare (#18)		=	99.32			
102	8/95	E	Flare (#18)		=	92.80			
102	5/91	E	Flare (#19)		=	99.21	99.00		
102	5/92	E	Flare (#19)		=	98.79			
102	12/91	E	Flare (#20)		=	98.98	99.15		
102	11/92	E	Flare (#20)		>	99.32			
102	12/91	E	Flare (#22)		=	99.08	98.54		
102	11/92	E	Flare (#22)		=	97.99			
102	10/90	E	Flare (#24)		>	99.68	95.94		
102	10/92	E	Flare (#24)		=	98.15			
102	8/95	E	Flare (#24)		=	90.00			

Background Data for Control Efficiencies from 1998 AP-42 Update

[illegible]

Appendix F: FLARES
Background Data for Control Efficiencies from 1998 AP-42 Update

BID Ref.	Date mo/yr	Landfill ID	Device ID	Compound	>	Average	Flare	Site	Comments
	5/90	E	Flare (#9)	Benzene	=	99.57			
				Toluene	=	99.86			
				Xylenes	>	99.88			Lacking Backup Data.
				Average					
				Perchloroethylene	=	99.89			
				Methylene Chloride	>	99.96			Lacking Backup Data.
				Dichlorobenzene	>	99.23			Lacking Backup Data.
				Average					
3&4/1992		L	Flare	Benzene	=	38.20			
				Toluene		n/a			
				Xylenes		n/a			
				Average		not calculated			not used in emission factor development.
				Perchloroethylene	>	94.40			
				Methylene Chloride	=	91.80			
				Dichlorobenzene		n/a			
				Average	>	93.10			
3&4/1992		M	Flare	Benzene	=	85.90			
				Toluene		n/a			
				Xylenes		n/a			
				Average	=	85.90			
				Perchloroethylene	>	98.40			
				Methylene Chloride	>	90.50			
				Dichlorobenzene		n/a			
				Average	>	94.45			
8/90		N	Flare	Benzene	>	98.72			
				Toluene	=	99.94			
				Xylenes	>	99.89			
				Average	=	99.52			
				Perchloroethylene	>	98.17			
				Methylene Chloride		n/a			test results not used (-73% DE)
				Dichlorobenzene		n/a			
				Average	>	98.17			
8/90		O	Flare	Benzene	>	83.40			
				Toluene	=	99.80			
				Xylenes	>	99.40			
				Average	>	94.20			
				Perchloroethylene	>	98.90			
				Methylene Chloride		n/a			test results not used (-54% DE)
				Dichlorobenzene		n/a			
				Average	>	98.90			

Appendix F: ENGINES
Background Data for Control Efficiencies from 1998 AP-42 Update

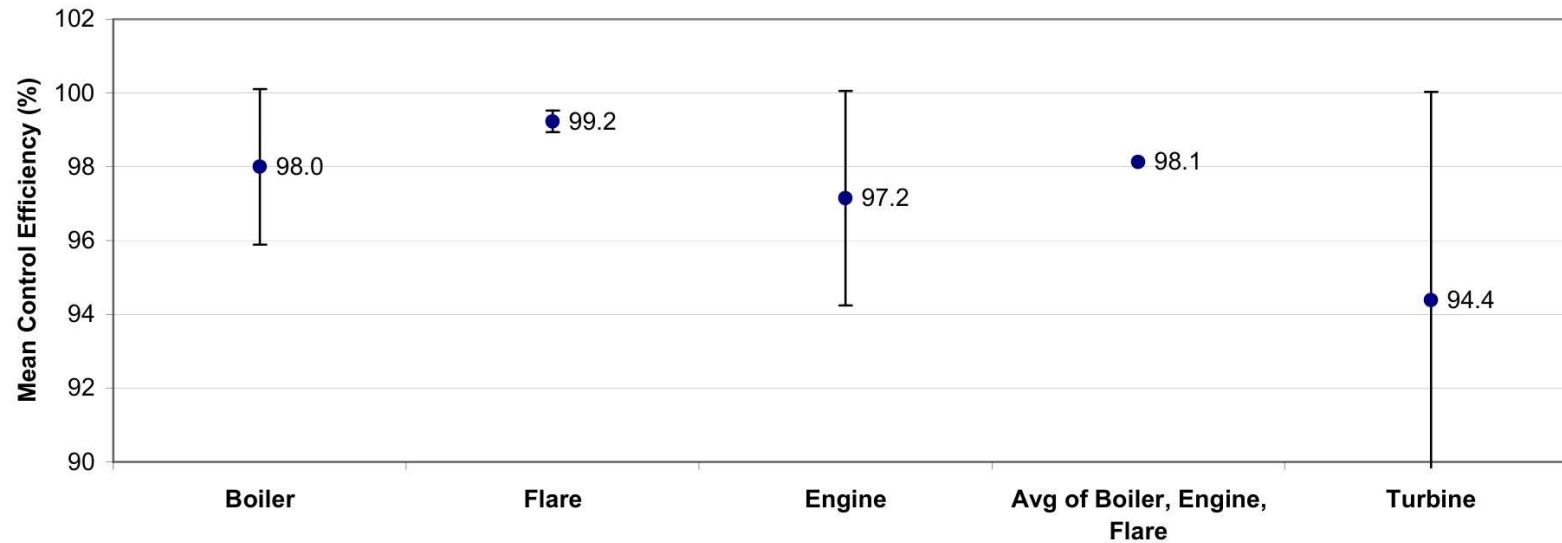
BID	Date	Device ID	Compound	>	Average CE	EF	
Ref.	mo/yr	Device ID	Compound	<	(%)	Rating	Comments
98	12/90	IC Engine	Methane	=	97.80	B	
			Ethane	=	98.33	B	
			Propane	=	90.46	B	
			Butane	=	94.53	B	
			Pentane	>	98.34	B	
			NMOC	=	97.13	B	
99	4/91	IC Engine	NMOC	=	94.59	C	
100	2/88	IC Engine	NMOC	=	99.74	D	
			Trichloroethylene	=	98.93	D	
			Perchloroethylene	=	99.41	D	
			Methane	=	94.06	D	
101	3/88	IC Engine					
			Benzene	=	25.00	D	data point excluded
			Toluene	=	96.67	D	
			Xylene	=	99.22	D	
			Trichloroethylene	=	94.00	D	
			1,1,1-Trichloroethylene	=	90.00	D	
			Perchloroethylene	=	95.00	D	
			Methane	=	62.12	D	
			Avg. NMOC		97.15		
			Stdev		2.58		
			95% Conf		2.91		
			Avg. All (non-methane) Species		89.99		
			Avg. Halo Species		95.47		
			Avg. Non-Halo Species		86.08		

APPENDIX F: DATA STATS
Background Data for Control Efficiencies from 1998 AP-42 Update

1998 AP-42 Update Data for Equipment NMOC Control Efficiency

	Number of Data Points	Min (%)	Max (%)	Mean (%)	Standard Deviation (%)	95% Confidence Limit (%)
Boiler	3	95.9	99.5	98.0	1.9	2.1
Flare	11	98.5	100.0	99.2	0.5	0.3
Engine	3	94.6	99.7	97.2	2.6	2.9
Avg of Boiler, Engine, Flare				98.1		
Turbine	2	91.5	97.3	94.4	4.1	5.6

NMOC Control Efficiency - 95% Confidence Intervals in the Mean



Note: Error bars represent the 95% confidence interval in the mean.

Note: 95% confidence limit (mean) for turbines is 134.8%.

APPENDIX F: BOILER
Background Data for Control Efficiencies from 2008 AP-42 Update

Number of Data Points	5
Mean CE (%)	98.6
Minimum (%)	95.9
Maximum (%)	99.6
Standard Deviation (%)	1.6
95% Conf. Limit (%)	1.4

New Data from Current Update:

Test Report ID	Control	Compound	Total Inlet Flow (scfm)	Control Efficiency
TR-167	Boiler	NMOC (as CH ₄)		99.40%
TR-220	Boiler	NMOC (as CH ₄)		99.64%

APPENDIX F: FLARE
Background Data for Control Efficiencies from 2008 AP-42 Update

Number of Data Points	25
Mean CE (%)	97.7
Minimum (%)	85.8
Maximum (%)	100.0
Standard Deviation (%)	3.4
95% Conf. Limit (%)	1.3

New Data from current update:

Test Report ID	Control	Compound	Molecular Weight	Total Inlet Flow (scfm)	Inlet Concentration (ppm)	Inlet Flow Rate (lb/hr)	Total Outlet Flow (scfm)	Outlet Concentration (ppm)	Outlet Flow Rate (lb/hr)	Control Efficiency
TR-145	Flare	NMOC (as CH ₄)	86	1570	2533.0	54	21522	19.5	6	89.4
TR-145	Flare	VOC				14.86			1.0	93.3
TR-146	Flare	NMOC (as CH ₄)	86	1978	5533.3	149	30380	13.4	5.5	96.3
TR-146	Flare	VOC		1978	5607	27.75	30380	13.4	1.01	96.4
TR-147	Flare	NMOC (as CH ₄)	86	885	1786.3	22	9770.4	23.0	3.1	85.8
TR-148	Flare	NMOC (as C ₆ H ₈)	86	2467	261	9	24560	0.54	0.2	97.9
TR-148	Flare	VOC		2467		8.65	24560		0.18	97.9
TR-153	Flare	NMOC (as C)	12	2090	4357	17.4	30630	<1.2	<0.072	99.6
TR-156	Flare	NMOC (as C)	12	780	3253	4.9	12750	1.18	0.059	98.8
TR-157	Flare	NMOC (as C)	12	2460	3423	15.78	29920	<1.0	<0.06	99.6
TR-160	Flare	NMOC			2529	64.7		<2.19	<0.056	99.9
TR-165	Flare	NMOC (as CH ₄)		1388	4190	14.7	17233	7.98	0.33	97.8
TR-167	Flare	NMOC (as CH ₄)		5940	3990	60	43204	3.2	0.35	99.4
TR-168	Flare	NMOC (as C ₆ H ₈)				27.2			0.28	99.0

APPENDIX F: ENGINE
Background Data for Control Efficiencies from 2008 AP-42 Update

Number of Data Points	3	Only used old data points, since new data point below is a negative efficiency.
Mean CE (%)	97.2	
Minimum (%)	94.6	
Maximum (%)	99.7	
Standard Deviation (%)	2.6	
95% Conf. Limit (%)	2.9	

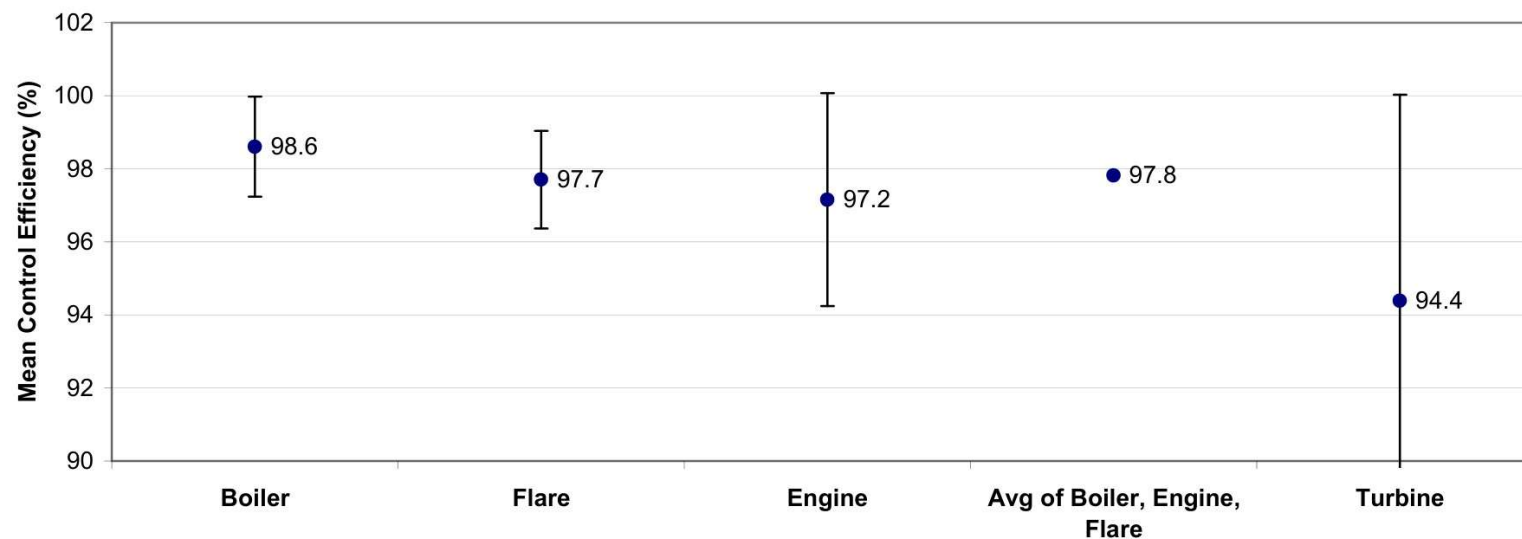
Test Report ID	Control	Compound	Total Inlet Flow (scfm)	Inlet Concentration (ppm)	Inlet Flow Rate (lb/hr)	Total Outlet Flow (scfm)	Outlet Concentration (ppm)	Outlet Flow Rate (lb/hr)	Control Efficiency
TR-266	Engine	NMOC (as hexane)	254.4	150.7	0.51	1344.7	38.1	0.69	-34%

APPENDIX F: COMBINED DATA
Background Data for Control Efficiencies from 1998 and 2008 AP-42 Update

Combined 1998 and 2008 AP-42 Data for Equipment NMOC Control Efficiency

	Number of Data Points	Min (%)	Max (%)	Mean (%)	Standard Deviation (%)	95% Confidence Limit (%)
Boiler	5	95.9	99.6	98.6	1.6	1.4
Flare	25	85.8	100.0	97.7	3.4	1.3
Engine	3	94.6	99.7	97.2	2.6	2.9
Avg of Boiler, Engine, Flare				97.8		
Turbine	2	91.5	97.3	94.4	4.1	5.6

NMOC Control Efficiency - 95% Confidence Intervals in the Mean



Note: Error bars represent the 95% confidence interval in the mean.

Note: 95% confidence limit (mean) for turbines is 134.8%.

The mean CE % for boilers, engines, and flares all lie within the 95% confidence limits of each other.

Appendix G

Example LFG Combustion By-Product Emission Calculations

The following example calculations walk through the steps necessary to calculate emission rates in kg/million cubic meters CH₄ from the data given in emission tests (differences may occur from listed emission factors due to rounding).

Example 1: TR-266 – NOx for an engine.

Given: 2.42 lb NOx/hr in exhaust, LFG feed rate of 254.4 dry standard cubic feet/minute (dscfm), LFG methane content = 31.1%.

$$\begin{aligned} \frac{2.42 \frac{lbNOx}{hr}}{254.4 dscfLFG} \times \frac{kg}{2.2046lb} &= 1.10 \frac{kgNOx}{hr} \\ \frac{254.4 dscfLFG}{min} \times \frac{60 min}{hr} \times .311 \frac{CH_4}{LFG} \times \frac{dscm}{35.315 dscf} &= 134.4 dscmCH_4/hr \end{aligned}$$

Next, convert from cubic feet and multiply out for a million cubic meters of methane:

$$1.10 \frac{kgNOx}{hr} \div \frac{134.4 dscmCH_4}{hr} \times 1.0E6 = 8,170 \frac{kgNOx}{million dscmCH_4}$$

Example 2: Calculate the above emission factor in alternate units such as lb/ megawatt-hr (lb/MWh) and grams per brake horsepower-hour (g/bhph):

First, express the emission factor in English units (lb/million dscf CH₄):
510 lb NOx/million dscf CH₄.

Next, the heat content of CH₄ and an engine heat rate are needed to calculate lb/MWh. For these calculations, a heat rate of 11,100 Btu/kWh is assumed, and the heat content of CH₄ is 1,012 Btu/scf.

$$\frac{510 lbNOx}{1.0E6 dscfCH_4} \div \frac{1,012 Btu}{dscf} \times \frac{11,100 Btu}{kWh} \times \frac{1,000 kWh}{MWh} = 5.6 \frac{lbNOx}{MWh}$$

To calculate a g/bhph factor, you must account for a shaft-to-electricity efficiency. This analysis assumed 95%.

$$\left(5.6 \frac{lbNOx}{MWh} \times 453.6 \frac{g}{lb} \right) \div \left(1.0E6 \frac{W}{MWh} \times 1.341E-3 \frac{bhp}{W} \right) \div 0.95 = 2.0 \frac{gNOx}{bhp-hr}$$