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SPECIATE Version 4.4 Database Development Documentation

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Prepared for:
Mr. Michael Kosusko (E343-02)
Office of Research and Development
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

Submitted by:
Abt Associates Inc.
Drs. Ying Hsu, Frank Divita, and Jonathan Dorn
4550 Montgomery Avenue
Suite 800 North
Bethesda, MD 20814

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Abstract

SPECIATE is the U.S. Environmental Protection Agency's (EPA) repository of volatile organic gas and particulate matter (PM) speciation profiles of air pollution sources. Some of the many uses of these source profiles include: (1) creating speciated emissions inventories for regional haze, PM, greenhouse gas (GHG), and photochemical air quality modeling; (2) estimating hazardous and toxic air pollutant emissions from PM and organic gas primary emissions; (3) providing input to chemical mass balance (CMB) receptor models; and, (4) verifying profiles derived from ambient measurements by multivariate receptor models (e.g., factor analysis and positive matrix factorization).

This report documents the updates that EPA applied to SPECIATE version 4.3 to develop the SPECIATE 4.4 database. EPA generated SPECIATE 4.4 by appending 104 volatile organic gas profiles and 32 PM profiles to the SPECIATE 4.3 database. In total, the SPECIATE 4.4 database includes 5,728 PM, volatile organic compound (VOC), total organic gases (TOG), and Other Gases profiles. The SPECIATE 4.4 database also contains a table titled "Semi-volatile Organic Compounds (SVOC) Splitting Factors" that provides suggested SVOC partitioning factors in PM and gaseous phases.

Abt Associates, Inc. developed SPECIATE 4.4 through a collaboration involving EPA's Office of Research and Development (ORD) and Office of Air Quality Planning and Standards (OAQPS) in Research Triangle Park, NC, and Office of Transportation and Air Quality (OTAQ) in Ann Arbor, MI. This report first discusses the uses and structure of the SPECIATE 4.4 database in Chapters I and II, respectively. Chapter III identifies the major data sources and presents the methods used to develop the new profiles not previously included in SPECIATE. Chapter IV provides important notes and comments on the use of the profiles, Chapter V briefly discusses source profile preparation methods, and Chapter VI provides the references for this report.

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- EPA National Risk Management Research Laboratory (NRMRL) – Frank Princiotta and Doug McKinney
- EPA Office of Air Quality Planning and Standards (OAQPS) – Marc Houyoux
- EPA Office of Transportation and Air Quality (OTAQ) – Joseph Somers

The authors would like to thank the members of EPA's SPECIATE Workgroup and those individuals that provided data for the SPECIATE 4.4 database. The primary contact for the project is Mr. Michael Kosusko, the EPA Work Assignment Manager (WAM) for this project. The Workgroup is coordinated by Dr. Prakash Bhave, and staffed by air quality professionals from the EPA's Office of Research and Development and the Office of Air and Radiation. As of August 2013, the committee members include:

SPECIATE WORKGROUP MEMBERSHIP, August 2013			
NAME	EPA OFFICE	EPA DIVISION	EXPERTISE/SPECIALIZATION
Richard Baldauf	ORD/NRMRL	APPCD	Mobile Source Emissions
Souad Benromdhane	OAR/OAQPS	HEID	Health Benefits of Air Quality Management
Prakash Bhave	ORD/NERL	AMAD	PM Speciation and Air Quality Modeling
Shao-Hang Chu	OAR/OAQPS	AQAD	Ambient Data Analysis
Richard Cook	OAR/OTAQ	NVFEL	Mobile Source Air Toxics
Tyler Fox	OAR/OAQPS	AQAD	Regulatory Air Quality Modeling
Neil Frank	OAR/OAQPS	AQAD	Ambient Data Analysis
Michael Hays	ORD/NRMRL	APPCD	Emission Source Testing
James Hemby	OAR/OAQPS	AQAD	Policy Making
Brooke Hemming	ORD/NCEA	NCEA-RTP	Climate Change and Black Carbon
Amara Holder	ORD/NRMRL	APPCD	Emission Source Testing and Black Carbon
Bryan Hubbell	OAR/OAQPS	HEID	Health Benefits of Air Quality Management
Michael Kosusko	ORD/NRMRL	APPCD	Air Pollution Control, Project Management
Deborah Luecken	ORD/NERL	AMAD	Gas-phase Chemistry
Doug McKinney	ORD/NRMRL	APPCD	Air Pollution Research Management

SPECIATE WORKGROUP MEMBERSHIP, August 2013			
NAME	EPA OFFICE	EPA DIVISION	EXPERTISE/SPECIALIZATION
Ron Myers	OAR/OAQPS	SPPD	Regulatory Source Measurements
Lucas Neas	ORD/NHEERL	EPHD	Air Pollution Epidemiology
Carlos Nunez	ORD/NRMRL	IO	Air Pollution Research Management
David Olson	ORD/NERL	HEASD	Source Apportionment and VOC Speciation
George Pouliot	ORD/NERL	AMAD	Emissions Modeling (Inventories and Platforms)
Havala Pye	ORD/NERL	AMAD	Secondary Organic Aerosol Modeling
Venkatesh Rao	OAR/OAQPS	AQAD	Biomass Burning and Black Carbon Inventory
Adam Reff	OAR/OAQPS	AQAD	Source Apportionment and Ambient Data Analysis
Ron Ryan	OAR/OAQPS	AQAD	Emissions Inventory
Dave Sanders	OAR/OAQPS	AQPD	VOC Reactivity
Golam Sarwar	ORD/NERL	AMAD	Air Quality Modeling
Richard Shores	ORD/NRMRL	APPCD	Emission Source Testing
Heather Simon	OAR/OAQPS	AQAD	Air Quality Modeling
Darcie Smith	OAR/OAQPS	HEID	Air Toxics Risk Assessment
Joseph Somers	OAR/OTAQ	ASD	Mobile Source Emissions and Air Quality Modeling
Darrell Sonntag	OAR/OTAQ	ASD	Mobile Source Emissions and Air Quality Modeling
Lindsay Stanek	ORD/NERL	RPCS	Exposure Assessment
Madeleine Strum	OAR/OAQPS	AQAD	National Emissions Inventory
Eben Thoma	ORD/NRMRL	APPCD	Emission Source Testing
Brian Timin	OAR/OAQPS	AQAD	Air Quality Modeling
Leon Walsh	ORD/NHEERL	EPHD	Air Pollution Toxicology Research
Tim Watkins	ORD/IOAA	NPD	Environmental Economics
Catherine Yanca	OAR/OTAQ	ASD	Mobile Source Emissions and Air Quality Modeling
Tiffany Yelverton	ORD/NRMRL	APPCD	Air Pollution Control, Combustion, and Black Carbon
Alexis Zubrow	USEPA REGION 1	OEP	Emissions Modeling

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Acronyms and Abbreviations

AAAR	American Association for Aerosol Research
ACS	American Chemical Society
AMAD	Atmospheric Modeling and Analysis Division, EPA
APPCD	Air Pollution Prevention and Control Division, EPA
AQAD	Air Quality Assessment Division, EPA
ASD	Assessment and Standards Division, EPA
CARB	California Air Resources Board
CAS	Chemical Abstracts Service
CMAQ	EPA Models-3 Community Multi-scale Air Quality Modeling System
CMB	chemical mass balance
CRC	Coordinating Research Council
DOE	Department of Energy
DRI	Desert Research Institute
EC	elemental carbon
ERMD	Emissions Research and Measurement Division (Environment Canada)
EPA	Environmental Protection Agency
EPHD	Environmental Public Health Division, EPA
ES&T	Environmental Science and Technology
FID	flame ionization detector
GC	gas chromatography
GHG	greenhouse gas
HEASD	Human Exposure and Atmospheric Sciences Division, EPA
HEID	Health and Environmental Impacts Division, EPA
HPLC	high performance liquid chromatography
ID	identification
IO	immediate office
IOAA	Immediate Office of the Assistant Administrator, EPA
ITN	internal tracking number
kg	kilogram
km	kilometer
mg	milligram
MTBE	methyl t-butyl ether
MW	molecular weight
NAICS	North American Industry Classification System
NCEA	National Center for Environmental Assessment, EPA
NCOM	non-carbon organic matter
NEI	National Emissions Inventory
NERL	National Exposure Research Laboratory, EPA
NHEERL	National Health and Environmental Effects Research Laboratory, EPA
NMHC	non-methane hydrocarbons
NMOG	nonmethane organic gas
NPD	National Program Director
NPRI	National Pollutant Release Inventory (Environment Canada)
NREL	National Renewable Energy Laboratory

NRMRL	National Risk Management Research Laboratory, EPA
OAQPS	Office of Air Quality Planning and Standards, EPA
OAR	Office of Air and Radiation, EPA
OC	organic carbon
OEP	Office of Ecosystem Protection, EPA Region 1
OM	organic matter
ORD	Office of Research and Development, EPA
OTAQ	Office of Transportation and Air Quality, EPA
PAHs	polycyclic aromatic hydrocarbons
PAMS	photochemical assessment monitoring station
PM	particulate matter
PM_{10}	particulate matter with an aerodynamic diameter $\leq$ 10 micrometers
$PM_{2.5}$	particulate matter with an aerodynamic diameter $\leq$ 2.5 micrometers
RFG	reformulated gasoline
RPCS	Research Planning and Coordination Staff, EPA
SAROAD	Storage and Retrieval of Aerometric Data
SIC	Standard Industrial Classification
SPPD	Sector Policies and Programs Division, EPA
SRS	Substance Registry System
SVOC	semi-volatile organic compounds
TAME	t-amylmethyl ether
TAP	toxic air pollutant
TC	total carbon
TCEQ	Texas Commission on Environmental Quality
THC	total hydrocarbon
TOG	total organic gases
TOR	thermal optical reflectance
TOT	thermal optical transmission
UV	ultraviolet-visible
VOC	volatile organic compounds
WAM	Work Assignment Manager

CHAPTER I. Introduction

SPECIATE is the U.S. Environmental Protection Agency's (EPA) repository of volatile organic gas and particulate matter (PM) speciation profiles of air pollution sources (Simon et al., 2010). Some of the many uses of these emission profiles include: (1) creating speciated emissions inventories for regional haze, PM, greenhouse gas (GHG), and photochemical air quality modeling; (2) estimating hazardous and toxic air pollutant emissions from PM and organic gas primary emissions; (3) providing input to chemical mass balance (CMB) receptor models; and, (4) verifying profiles derived from ambient measurements by multivariate receptor models (e.g., factor analysis and positive matrix factorization).

The primary purpose of this project is to update the SPECIATE database to capture recent and scientifically-meritorious VOC, TOG, and PM speciation profile data available from EPA, state agencies, peer-reviewed literature and other relevant data sources. The revised SPECIATE database (i.e., versions 4.0, 4.1, 4.2, 4.3, and 4.4) allows for storage of important information underlying each profile (meta data such as sampling and analysis methods, overall subjective profile quality ratings, etc.).

The SPECIATE Workgroup (Workgroup) for this project consists of EPA and Abt Associates, Inc. staff, university researchers, receptor/photochemical/dispersion modelers, emission inventory developers, and government agency staff. Members of the Workgroup contribute and/or gather data, and provide recommendations as to which specific speciation profiles should be added to the database.

The SPECIATE 3.2 database, released in 2002, contained profiles that are the result of testing and/or studies conducted in the 1980s, and in some cases, the 1970s. However, there are numerous sources of speciation data for PM, VOC, and TOG (which include non-VOCs) available from recent research studies and air quality management agency surveys. The EPA continually develops new speciation data and collaborates with researchers to update the SPECIATE database. As a result, EPA released an updated SPECIATE database version 4.0 in November 2006. Since the release of SPECIATE 4.0, there have been numerous new profiles added to the database, resulting in SPECIATE versions 4.1, 4.2, 4.3 and 4.4. The purpose of this report is to document the updates that EPA applied to SPECIATE 4.3 to generate the SPECIATE 4.4 database and to describe additional work that could be performed to further improve the database. Copies of the SPECIATE 4.4 database can be obtained from the EPA WAM, Mr. Michael Kosusko (kosusko.mike@epa.gov) or downloaded from the EPA website http://www.epa.gov/ttn/chief/software/speciate/index.html.

The following is an overview of the SPECIATE 4.x versions:

SPECIATE 4.0 included a total of 4,080 PM and organic gas profiles (2,009 new profiles and 2,071 profiles carried forward from SPECIATE 3.2). SPECIATE 4.0 also included 1,360 new PM profiles (of which 95 are simplified profiles and 47 are composite profiles) and 649 organic gas profiles (of which 11 are composite profiles). The SPECIATE 4.1 database, which was never officially published by EPA, included a total of 4,180 PM and organic gas profiles (with 4,080 carried forward from SPECIATE 4.0). The primary update to the SPECIATE 4.1 database

was the addition of 100 VOC profiles obtained from Environment Canada's National Pollutant Release Inventory (NPRI) database.

There were an additional 408 VOC profiles and 462 PM profiles included in the SPECIATE 4.2 database. EPA changed the structure of the SPECIATE 4.2 database by adding a new category called Other Gases. This category contains speciated mercury, nitrogen oxides, and semi-volatile organic compounds (SVOC) which do not fall into VOC or PM profile categories. There are 237 Other Gases profiles incorporated into SPECIATE 4.2. The SPECIATE 4.2 database also contained a new table titled "SVOC Splitting Factors", which provides suggested SVOC partitioning factors in PM and gaseous phases based on a Schauer et al. study (1999; see memorandum in Appendix D for more details). Note that the partitioning factor of each SVOC species is not universal, but dependent on sampling conditions (e.g., temperature and pressure).

In total, there were an additional 151volatile organic gas (including TOG and VOC) profiles, 244 PM profiles, and 10 speciated mercury profiles included in the SPECIATE 4.3 database. The majority of the new speciation profiles incorporated came from EPA and peer reviewed literature. Emission source sectors include internal combustion engine exhaust from onroad vehicles and marine vessels, gasoline and its evaporative emissions, ethanol fuel production, pulp and paper industry, and several other stationary sources.

SPECIATE 4.4 includes comprehensive speciation of TOG profiles from oil and gas fugitive emissions, gasoline vehicle exhaust, VOC emissions from the dairy industry (including silages, other feedstuffs, and animal waste), gasoline vapor from enclosed fuel tanks, PM profiles from the Kansas City Light-Duty Vehicle Emissions Study (EPA, 2008), outdoor wood boiler aerosol emissions, and commercial aircraft jet engine PM emission profiles. In total, there are an additional 104 volatile organic gas profiles and 32 PM profiles included in the SPECIATE 4.4 database.

As of September 2013, the initiative to update SPECIATE has produced:

- VOC-to-TOG conversion factors for applicable gas profiles;
- A protocol for expansion of the database;
- Suggested partitioning factors for SVOC compounds in gas and PM phases;
- A mapping of the new VOC compounds into model species categories; and
- The SPECIATE 4.4 database with the following total number of profiles and unique species:
    - 3,600 PM profiles;
    - 1,879 organic gas profiles;
    - 249 Other Gases profiles;
    - 2,346 unique species; and
    - Composite profiles for 58 (47 PM and 11 VOC) source categories.

SPECIATE is expected to be an ongoing project similar to EPA's Compilation of Emission Factors (AP-42) and other Agency databases that support Agency research, regulation development and enforcement. The Workgroup has identified and prioritized numerous datasets for which profiles will be developed and added to future versions of SPECIATE. Comments and

questions based on review of the database and documentation are welcome and may be directed to the EPA WAM, Mr. Michael Kosusko (kosusko.mike@epa.gov).

The remainder of this report discusses the structure and use of the SPECIATE 4.4 database in Chapter II, and then details the development of the profiles and supporting tables in Chapter III. Comments on the use of the profiles appear in Chapter IV and Chapter V briefly discusses source profile preparation methods. Chapter VI provides the references for this report. Tables A-1 and A-2 of Appendix A provide a summary of the organic gas and PM profiles in the SPECIATE 4.4 database, respectively. Appendix B provides a protocol for preparing profiles for the future versions of the SPECIATE database. Appendix C provides speciation profiles for unresolved mixtures of compounds listed as a single species. Appendix D provides SVOC partitioning factors and the methodology applied to prepare mobile source exhaust profiles in the SPECIATE database.

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CHAPTER II. SPECIATE Database

This chapter describes the organization of the SPECIATE 4.4 database. This includes subsections on the use of the database, the data dictionary, overall subjective profile quality rating criteria, and profile identification (ID) numbers.

A. Use of the Database

The SPECIATE 4.4 database is a data repository housed in a Microsoft Access® database file. In order to use the SPECIATE 4.4 database, Microsoft Access® 2002 or above must be installed. The current SPECIATE database and other relevant documentation can be downloaded from EPA's Clearinghouse for Inventories & Emissions Factors website (http://www.epa.gov/ttn/chief/software/speciate/index.html; accessed August 2013). To facilitate inspection of the data by persons without detailed database manipulation skills, the queries VIEW_PM_PROFILES and VIEW_GAS_PROFILES have been added and are available on the Queries tab in MS Access. The VIEW_GAS_PROFILES query links the GAS_PROFILE, GAS_SPECIE, and SPECIE_PROPERTIES tables together to allow the user to view all of the fields in these tables when the query is run. The VIEW_PM_PROFILES query links the PM_PROFILE, PM_SPECIE, and SPECIE_PROPERTIES tables together to allow the user to view all of the fields in these tables when the query is run.

There is no user interface for the database at this time; however, users may view and download SPECIATE source profiles from a web-based data browser (http://cfpub.epa.gov/si/speciate/; accessed August 2013).

B. Database Design

The SPECIATE 4.4 database design appears in Figure 1. The design is intended to accommodate the desired modifications and additions to the SPECIATE functionality. The modifications are based on the suggestions from the October 2002 meeting of the SPECIATE Expert Panel held at the American Association for Aerosol Research conference in Charlotte, NC, as well as additional recommendations provided by EPA.

One of the embraced and adopted design principles is the accommodation of PM profiles expressed over any PM size range (i.e., PM particle size ranges are not pre-determined). This capability is provided through the upper- and lower- size limit fields in the PM_PROFILE table. In instances in which multiple profiles (arising from multiple size distributions) result from a single study, the particle size range will be explicitly designated in the table. The SPECIATE 4.4 database can therefore accommodate species size distributions for any range. Future studies that require more particle size resolution can be accommodated, consistent with the expectations of future research.

Profiles for particulates ("P"), organic gases ("G"), and Other Gases ("Other gases") continue to be housed in separate tables due to their slight variance in database architecture. Other tables,

such as SPECIE_PROPERTIES and KEYWORD are common to organic gases, particulates, and other gases use.

The data dictionary (see Table 1 and subsection C below) is intended to be general and not specific to any particular database architecture. Accordingly, variance from the data dictionary expressions for some fields (e.g., Logical versus Boolean) may occur. Fields such as T_METHOD (sampling method) and ANLYMETHOD (analytical method) contain character expressions representing the respective method employed.

The profile tables include rating fields for profile vintage (V-rating), data quality (D-rating), and expert judgment (J-rating). The Overall Subjective Profile Quality Rating is the product of the V-rating and D-rating [see Chapter II.E (Profile Rating Criteria) for rationale regarding profile overall ratings].

The use of P_NUMBER as the primary key for the profiles tables has been retained from the previous versions of SPECIATE. This is the unique logical key when accessing common tables.

A REGION field is intended to house information on the geographic testing locale of certain profiles. For example, the VOC profiles based on Environment Canada's NPRI database can be identified by two-letter province abbreviations under the Region column in the Gas Profile table (e.g., BC stands for British Columbia) or gas profile numbers 7100 - 7199. NORM_BASIS indicates the aggregation of species by which the profile has been normalized [e.g., TOG, VOC, and PM with an aerodynamic diameter equal to or less than 10 micrometers (PM_{10})]. For the case where both a PM and GAS profile have been taken from the same study, the SIBLING field is used to identify the associated profiles.

The fields UNCERTAINT, UNC_METHOD, and ANLYMETHOD (see Table 1 and subsection C below) in the species table store species-specific uncertainty values, uncertainty methods, and analytical methods, respectively.

Figure 1. SPECIATE 4.4 Data Diagram

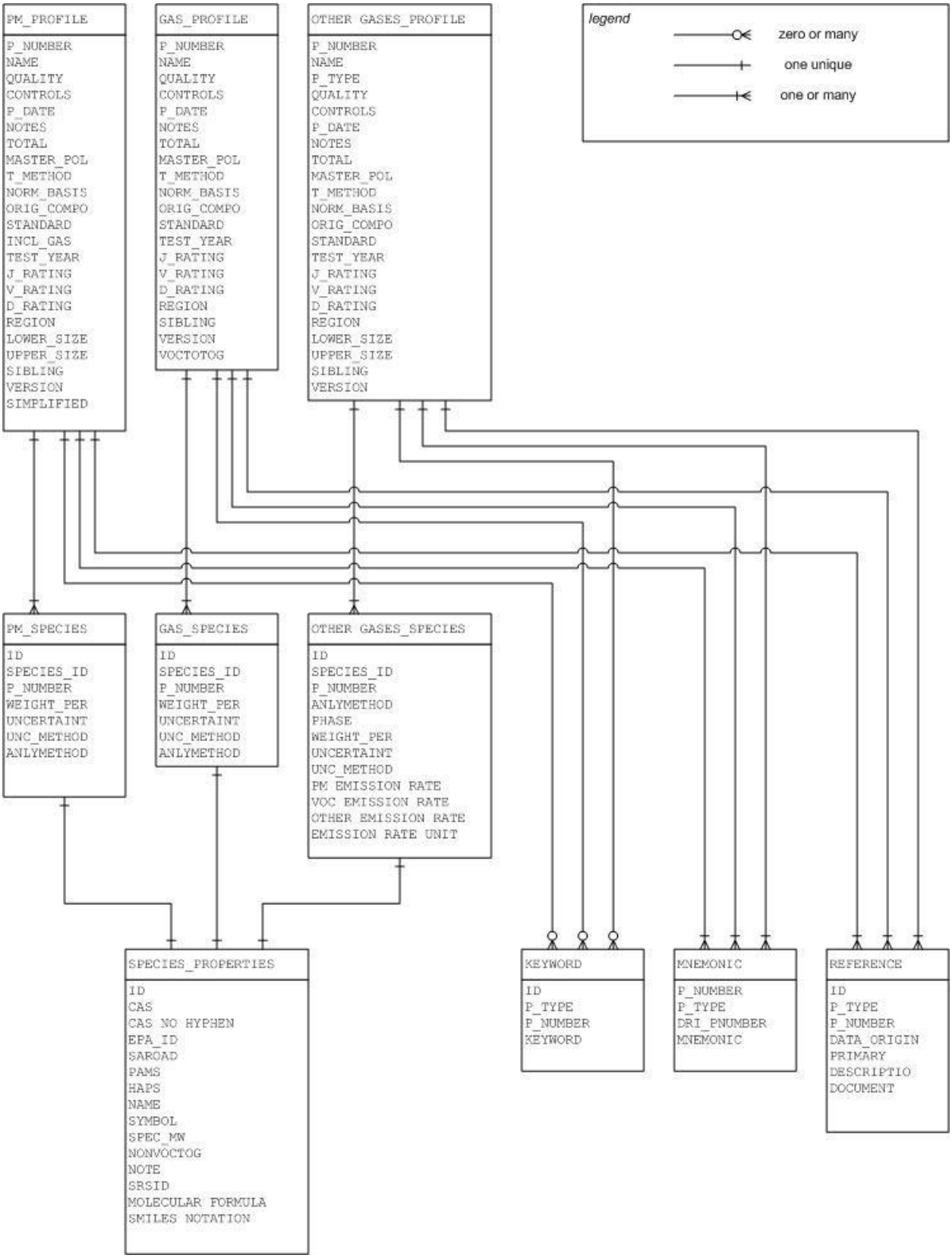


Table 1. Descriptive Data Dictionary

	Field	Type[1]	Length[2]	Decimals	Description
					PM_PROFILE Table
Primary key	P_NUMBER	C	10		PM Profile Number
	NAME	C	255		PM Profile Name
	QUALITY	C	3		Overall Subjective Profile Quality Rating (A-E) of the profile (related to the products of the V and D ratings, see Chapter II.E for an explanation)
	CONTROLS	C	100		Emission Controls Description
	P_DATE	D			Date profile added
	NOTES	M			Notes
	TOTAL	N	6	2	Sum of species percentages for a given profile, excluding organic species, inorganic gases, and elemental sulfur in individual PM profiles (see Chapter IV.F “Double Counting Compounds” of this report for rationale).
	MASTER_POL	C	5		Indicates the pollutant to be used in calculation. Allowed value: 'PM' In the future, other values may be allowed (e.g., PM_PRI, PM_FIL, PM_CON)
	T_METHOD	M			Description of sampling method
	NORM_BASIS	C	25		Description of how profile was normalized (see Chapter IV.E for details)
	ORIG_COMPO	C	1		Specifies whether the profile is original or composite. Allowed values: 'C','O'
	STANDARD	L	1		Indicates whether the profile is provided by EPA SPECIATE (standard) or user-added. The database is constructed to allow users to add profiles.
	INCL_GAS	L	1		Indicates whether or not the profile includes inorganic gas species (e.g., sulfur dioxide, hydrogen sulfide, oxides of nitrogen, etc.)
	TEST_YEAR	N	4	0	Indicates year testing was conducted
	J_RATING	N	4	2	Subjective expert judgment rating based on general merit (see Chapter II.E for an explanation)
	V_RATING	N	4	2	Vintage based on TEST_YEAR field (see Chapter II.E for an explanation)
	D_RATING	N	4	2	Data quality rating based on number of observations, robustness (see Chapter II.E for an explanation)
	REGION	C	50		Geographic region of applicability
	LOWER_SIZE	N	5	2	Identifies lower end of aerodynamic diameter particle size, micrometers
	UPPER_SIZE	N	5	2	Identifies upper end of aerodynamic diameter particle size, micrometers

Table 1 (continued)

	Field	Type[1]	Length[2]	Decimals	Description
Foreign key	SIBLING	C	10		GAS Profile number; samples taken from the same source and study, if available.
	VERSION	C	10		SPECIATE database version that a profile was added to
	SIMPLIFIED	L	1		Is the profile a PM Simplified Profile?
				PM_SPECIE Table	
Primary key	ID	N	9	0	Unique Identifier
Foreign key	SPECIE_ID	N	9	0	Species Identifier (The same as ID in SPECIE_PROPERTIES)
Foreign key	P_NUMBER	C	10		PM Profile number (Link to PM_Profile Table)
	WEIGHT_PER	N	7	3	Weight percent of pollutant (%)
	UNCERTAINT	N	7	3	Uncertainty percent of pollutant
	UNC_METHOD	C	25		Description of method used to calculate uncertainty
	ANLYMETHOD	C	50		Description of analytical method (e.g., X-ray fluorescence spectroscopy, ion chromatography, etc.)
				REFERENCE Table	
Primary key	ID	N	9	0	Unique Identifier
Foreign key	P_TYPE	C	1		Indicates PM or GAS. Allowed values: P (PM), G (Gas)
Foreign key	P_NUMBER	C	10		Profile number (Link to PM_PROFILE and GAS_PROFILE tables)
	DATA_ORIGN	C	50		Source of data (e.g., EPA Air Pollution Prevention and Control Division (APPCD), Schauer, CARB, DRI, NPRI, Literature)
	PRIMARY	L			Designates a reference as primary. When a profile is based on multiple references, this field allows one reference to be tagged as the primary reference.
	DESCRIPTIO	M			Stores the descriptive information about the profile.
	DOCUMENT	M			Complete reference citation.
				GAS_PROFILE Table	
Primary key	P_NUMBER	C	10		GAS Profile Number
	NAME	C	255		GAS Profile Name
	QUALITY	C	3		Overall Subjective Profile Quality Rating (A-E) of the profile (related to the products of the V and D ratings, see Chapter II.E for an explanation)
	CONTROLS	C	100		Emission Controls Description
	P_DATE	D			Date profile added
	NOTES	M			Notes

Table 1 (continued)

	Field	Type[1]	Length[2]	Decimals	Description
	TOTAL	N	6	2	Sum of organic gas species percentages for a given profile
	MASTER_POL	C	4		Indicates the pollutant to be used in calculation. Allowed values: 'VOC', 'TOG'. When methane is not measured in a study, ethane, acetone and other non-VOCs are removed from the profile and it is defined as a VOC profile.
	T_METHOD	M			Description of sampling method
	NORM_BASIS	C	25		Description of how profile was normalized
	ORIG_COMPO	C	1		Specifies whether the profile is original or composite. Allowed values: 'O','C'
	STANDARD	L	1		Indicates whether the profile is provided by EPA SPECIATE (standard) or user-added. The database is constructed to allow users to add profiles.
	TEST_YEAR	N	4		Indicates year testing was conducted
	J_RATING	N	4	2	Subjective expert judgment rating based on general merit (see Chapter II.E for an explanation)
	V_RATING	N	4	2	Vintage based on TEST_YEAR field (see Chapter II.E for an explanation)
	D_RATING	N	4	2	Data quality rating based on number of observations, robustness (see Chapter II.E for an explanation)
	REGION	C	50		Geographic region of source
Foreign key	SIBLING	C	10		PM Profile number; samples taken from the same source and study, if available.
	VERSION	C	10		SPECIATE database version to which profile was added
	VOCtoTOG	N	7	3	VOC to TOG conversion factor
				GAS_SPECIE Table	
Primary key	ID	N	9	0	Unique Identifier
Foreign key	SPECIE_ID	N	9	0	Species Identifier (Must be the same as ID in SPECIE_PROPERTIES)
Foreign key	P_NUMBER	C	10		GAS Profile Number (Link to GAS_PROFILE table)
	WEIGHT_PER	N	6	2	Weight percent of pollutant (%)
	UNCERTAINT	N	7	3	Uncertainty percent of pollutant
	UNC_METHOD	C	25		Description of method used to calculate uncertainty
	ANLYMETHOD	C	50		Description of analytical method (e.g., gas chromatography (GC)/flame ionization detector (FID), GC/mass spectrometer (MS), high performance liquid chromatography (HPLC)/ultraviolet-visible (UV))

Table 1 (continued)

	Field	Type[1]	Length[2]	Decimals	Description
					OTHER GASES_PROFILE Table
Primary key	P_NUMBER	C	10		Other Gases Profile Number
	NAME	C	255		Other Gases Profile Name
	P_TYPE	C	25		Indicates Hg, SVOC, or NO/NO2/HONO
	QUALITY	C	3		Overall Subjective Profile Quality Rating (A-E) of the profile (related to the products of the V and D ratings, see Chapter II.E for an explanation)
	CONTROLS	C	100		Emission Controls Description
	P_DATE	D			Date profile added
	NOTES	M			Notes
	TOTAL	N	6	2	Sum of species percentages for a given profile
	MASTER_POL	C	5		Indicates the pollutant to be used in the calculation.
	T_METHOD	M			Description of sampling method
	NORM_BASIS	C	25		Description of how profile was normalized (see Chapter IV.E for details)
	ORIG_COMPO	C	1		Specifies whether the profile is original or composite. Allowed values: 'C','O'
	STANDARD	L	1		Indicates whether the profile is provided by EPA SPECIATE (standard) or user-added. The database is constructed to allow users to add profiles.
	TEST_YEAR	N	4	0	Indicates year testing was conducted
	J_RATING	N	4	2	Subjective expert judgment rating based on general merit (see Chapter II.E for an explanation)
	V_RATING	N	4	2	Vintage based on TEST_YEAR field (see Chapter II.E for an explanation)
	D_RATING	N	4	2	Data quality rating based on number of observations, robustness (see Chapter II.E for an explanation)
	REGION	C	50		Geographic region of applicability
	LOWER_SIZE	N	5	2	Identifies lower end of aerodynamic diameter particle size, micrometers
	UPPER_SIZE	N	5	2	Identifies upper end of aerodynamic diameter particle size, micrometers
Foreign key	SIBLING	C	10		Profile number; samples taken from the same source and study, if available.
	VERSION	C	10		SPECIATE database version to which profile was added
					OTHER GASES_SPECIE Table
Primary key	ID	N	9	0	Unique Identifier
Foreign key	SPECIE_ID	N	9	0	Species Identifier (The same as ID in SPECIE_PROPERTIES)

Table 1 (continued)

	Field	Type[1]	Length[2]	Decimals	Description
Foreign key	P_NUMBER	C	10		Other Gases Profile number (Link to OTHER GASES_Profile Table)
	ANLYMETHOD	C	50		Description of analytical method (e.g., GC/MS)
	PHASE	C	50		Indicates emissions were measured for PM, gaseous, or both phases.
	WEIGHT_PER	N	7	3	Weight percent of pollutant (%)
	SPECIES EMISSION RATE	N	7	3	Species emission rate
	UNCERTAINT	N	7	3	Uncertainty percent of pollutant
	UNC_METHOD	C	25		Description of method used to calculate uncertainty
	PM EMISSION RATE	N	7	3	PM emission rate
	VOC EMISSION RATE	N	7	3	VOC emission rate
	OTHER EMISSION RATE	N	7	3	Other normalization basis (emission rate) other than PM or VOC, e.g., NO_x, total Hg. Indicate pollutant, e.g., 5.3 (NO_x), 3.6 (total Hg)
	EMISSION RATE UNIT	C	25		Units, e.g., mg/mile, mg/cycle
				KEYWORD Table	
Primary key	ID	N	9	0	Unique Identifier
Foreign key	P_TYPE	C	1		Indicates PM or GAS. Allowed values: P, G
Foreign key	P_NUMBER	C	10		Profile Number (Link to PM_PROFILE and GAS_PROFILE Tables)
	KEYWORD	C	255		Keyword describing profile
				SPECIE_PROPERTIES Table	
Primary key	ID	N	9	0	Unique Identifier (Link to PM_SPECIES and GAS_SPECIES tables)
	CAS	C	50		Chemical Abstracts Service (CAS) number assigned to pollutant (with hyphens) (blank if no CAS)
	EPA_ID	C	50		EPA Chemical Identifier; provided by EPA Substance Registry System (SRS) for species without CAS numbers
	SAROAD	C	5		Storage and Retrieval of Aerometric Data (SAROAD) code
	PAMS	L	1		Is PAMS pollutant? (Yes or No)
	HAPS	L	1		Is Hazardous Air Pollutant? (Yes or No)
	NAME	C	255		Pollutant name
	SYMBOL	C	9		Standard chemical abbreviation (provided by Eric Fujita, DRI)
	SPEC_MW	N	6	2	Species molecular weight
	NonVOCTOG	L	1		Is this species regarded as a volatile organic gas?
	NOTE	C	250		Record notes

Table 1 (continued)

	Field	Type[1]	Length[2]	Decimals	Description
	SRS ID	C	50		EPA Substance Registry System Chemical Identifier
	Molecular Formula	C	50		Molecular formula
	Smiles Notation	C	100		Smiles notation
				MNEMONIC Table	
Primary key	ID	N	9	0	Unique Identifier
Foreign key	P_TYPE	C	1		Indicates PM or GAS. Allowed values: P (PM), G (Gas)
Foreign key	P_NUMBER	C	10		Profile number (Link to PM_PROFILE and GAS_PROFILE tables)
	DRI_PNUMBR	C	6		DRI profile number (Original DRI profile numbers)
	MNEMONIC	C	60		Alphanumeric code unique to each profile. Used in CMB input files.

[1] Field types. C: Character; D: Date; L: Logical; M: Memorandum; N: Numeric; Object.
[2] Length – number of characters allowed.

C. Data Dictionary

The SPECIATE 4.4 database is a Microsoft Access® relational database containing eight tables as described in Table 1.

- The PM_PROFILE table includes, but is not limited to, profile number, name, notes on the profile, and descriptive information about the profile such as sum of species, test method, and normalization basis. Also incorporated in this table are the ratings including expert judgment, vintage, data quality, and overall subjective profile quality rating. The use of the ratings is detailed in Chapter II.E of this report.

- PM_SPECIE table includes the species identification number, the profile number associated with the species, the percentage of the species in the profile, the uncertainty associated with the percentage value, the method used to determine uncertainty, and a description of the analysis method used to determine the species percentage in the profile.

- The REFERENCE table includes information that characterizes the reference documents associated with the profiles, including whether or not a particular reference is the primary reference (thus allowing multiple and unlimited references for any profile).

- The GAS_PROFILE table includes, but is not limited to, profile number, name, notes on the profile, and descriptive information about the profile such as sum of species, test method, and normalization basis. Also incorporated in this table are the ratings including expert judgment, vintage, data quality, and overall subjective profile quality rating. The use of the ratings is detailed in Chapter II.E of this report. The GAS_PROFILE table contains Total Organic Gases (TOG), Non-Methane Organic Gases (NMOG), Volatile Organic Compounds (VOC), and Non-Methane Hydrocarbons (NMHC) profiles, depending on the available species and analytical methods. TOGs are compounds of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs contain similar compounds as TOGs, except VOCs exclude compounds that have negligible photochemical reactivity (i.e., exempt compounds). The EPA definition of VOC and a list of exempt organic gases are available at http://www.epa.gov/ttn/naaqs/ozone/ozonetech/def_voc.htm (accessed August 2013).

  Below are the relationships of TOG, VOC, NMOG, and NMHC:

  VOC + exempt compounds (e.g., methane, ethane, various chlorinated fluorocarbons, acetone, perchloroethylene, volatile methyl siloxanes, etc.) = TOG

  NMOG + methane = TOG

  NMHC + methane = THC [contain only hydrocarbons (i.e., not oxygenated compounds like aldehydes) due to GC-FID measurement technique]

NMHC + oxygenated compounds = NMOG

- The GAS_SPECIE table includes the species identification number, the profile number associated with the species, the percentage of the species in the profile, the uncertainty associated with the percentage value, the method used to determine uncertainty, and a description of the analysis method used to determine the species percentage in the profile.

- The Other Gases_PROFILE table includes, but is not limited to, profile number, name, notes on the profile, and descriptive information about the profile such as sum of species, test method, and normalization basis. Also incorporated in this table are the ratings including expert judgment, vintage, data quality, and overall subjective profile quality rating. The use of the ratings is detailed in Chapter II.E of this report. The Other Gases Profiles are those that do not fit in the organic gas categories (TOG or VOC). Examples of the Other Gases Profiles are nitrogen oxides (NO, NO_2, HONO) and speciated mercury (elemental and oxidized mercury).

- The Other Gases_SPECIE table includes the species identification number, the profile number associated with the species, the percentage or emission rate of the species in the profile, the uncertainty associated with the percentage value, the method used to determine uncertainty, and a description of the analysis method used to determine the species percentage or emission rate in the profile.

- The KEYWORD table includes descriptive keywords of profiles. This information can be used in keyword-based searches for profiles.

- The SPECIE_PROPERTIES table includes the identifying numbers associated with the compounds that are species in the database, as well as other characteristic information such as molecular weight.

- The MNEMONIC table includes abbreviated profile names used in CMB receptor models.

D. Profile Rating Criteria

SPECIATE is a legacy application that the EPA and other environmental stakeholders have used for many years. The new profiles added to SPECIATE 4.0 and later versions were developed based on datasets that have become available since the release of SPECIATE 3.2, as described in Chapter III. This report subsection explains rating criteria that the Workgroup developed for the new profiles added to SPECIATE 4.0 and later versions. These ratings are meant to be used for comparing the quality of the new profiles relative to one another. In general, the Workgroup believes that the quality of a profile improves with the number of samples and that newer data are more representative of today's emission sources. However, this is not necessarily true for all profiles; consequently, the user of SPECIATE should acknowledge and consider these limitations when selecting profiles for use in their particular application.

The profile ratings developed by Abt Associates for the source profiles are based on the following criteria:

- *V-rating (profile vintage)* - the vintage of the profile which reflects measurement technology and methodology. For profiles before year 1980, score = 1; 1980-1990, score = 2; 1991-2000, score = 3; 2001-2005, score = 4; and after year 2006, score = 5. These data are housed in the V_RATING field in the PM and Gas profile tables.

- *D-rating (number of samples)* - assigned a "1" (poor) to "4" (excellent) rating. This category is rated based on the number of samples: # of samples > 10, score = 4; 5-9 samples, score = 3; 3-4 and composite samples, score = 2; 1-2 or unknown # of samples, score = 1. These data are housed in the D_RATING field in the PM and Gas profile tables.

- *Overall Subjective Profile Quality Rating* - assigned a value of "A" (highest quality) to "E" (lowest quality) to each non-legacy profile based on the "*Quality Score"* calculated as the "V-rating" x "D-rating". Table 2 shows the range of quality scores that are mapped to each overall profile quality rating. The overall subjective profile quality rating is found in the PM and Gas profile tables under the field named QUALITY.

Table 2. Overall Subjective Profile Quality Ratings

Profile Quality	Quality Score Ranges
A	17-20
B	13-16
C	9-12
D	5-8
E	<5

Note that ratings are not provided for the composite PM profiles since these profiles are developed by combining data for two or more individual profiles that have different scores for the same rating category. Also, ratings are not provided for the simplified profiles. The user should refer to the ratings for the individual profiles used to develop the composite and simplified profiles.

Legacy profiles originating from SPECIATE 3.2 do not have entries for V_RATING or D_RATING (or J_RATING shown below); however, they retain their legacy quality rating expressed numerically (5 = highest quality, 1= lowest quality). The SPECIATE 3.2 documentation does not identify how the quality ratings were selected.

- *J-rating (expert judgment)* - assigned a "1" (poor) to "5" (excellent) rating based on the information underlying each profile, including but not limited to:

  - Profile composition compared with majority of other profiles of the same emission source;
  - Relative ratios of species within the profile;
  - Sum of the speciated mass fractions;

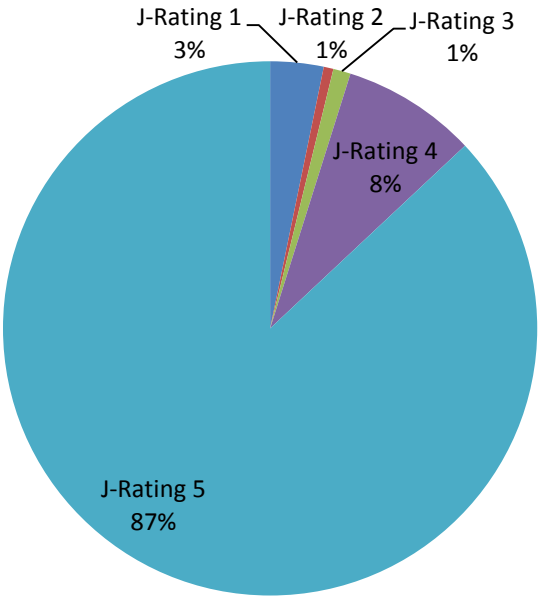
- Supporting documentation;
- Data come from "good" peer-reviewed journals and reports;
- State-of-the-art data collection and analysis methods are used whenever data are obtained; and
- Data come from well-written documents by acknowledged experts in the field.

Many of these items are discussed in more detail in Chapter III. The complexity of each profile precluded the development of an objective rule by which to assign the J-rating. These inherently qualitative values are assigned by the principal investigator for profiles obtained from DRI, by Abt technical staff, or per the guidance of the Workgroup. Both DRI and Abt Associates have extensive experience in source testing for speciation and processing speciated data for emissions inventories, toxic emissions assessment, photochemical modeling, and source-receptor modeling. The technical staff has published numerous peer-reviewed papers and prepared speciation profiles and methodologies for air quality management agencies. Owing to the subjective nature of this rating, it is not a component of the Overall Subjective Profile Quality Rating. The overall quality rating and its constituent ratings, as well as the expert judgment rating, are available to the user and auditor for their consideration. Users may consider the ratings as well as the reference and summary information about the profiles housed in the profile tables to determine the suitability of a profile to their needs. Table 3 lists the profile count by J-Rating for profiles in SPECIATE 4.4. The distribution of profile J-Ratings are shown in Figure 2.

Table 3. Profiles Counts by J-Rating in the SPECIATE 4.4 Database

	Organic Gas Profiles	PM Profiles	Other Gases Profiles
J-Ratings	Counts	Counts	Counts
1	110	0	0
2	8	8	4
3	17	16	2
4	32	238	8
5	1133	1605	235

Figure 2. Distribution of Profile J-Ratings in the SPECIATE 4.4 Database



CHAPTER III. Profiles Included in SPECIATE

During this project, speciation data and profiles obtained from EPA, CARB, DRI, TCEQ, Environment Canada, CRC, NREL, and numerous peer-reviewed journal articles were considered for inclusion in the post SPECIATE 3.2 database.

A complete list of profiles in the database, as of September 2013, is shown in Appendix A. The following subsections describe significant datasets from which the Workgroup obtained profiles. Subsection A contains new speciation profiles included in the SPECIATE 4.4 database. All other subsections in this chapter identify the profiles carried forward from the post SPECIATE 3.2 versions and the origins of the datasets.

During the development of the SPECIATE database, the Workgroup identified hundreds of peer-reviewed journal articles and technical reports to evaluate for use in developing profiles for SPECIATE. The Workgroup prioritized the datasets, with the highest priority given to EPA data as well as the data selected for SPECIATE 4.4 listed in Section A below. The high-priority datasets were further analyzed for completeness of information for profile development, the number of profiles that could be developed, priorities for source categories for which profiles previously were not available or for which improved profiles were needed, and the level-of-effort required to process the datasets. In addition, a MS Excel file (Master Evaluation of Profiles) is used to show the prioritization of the datasets and to track the progress of profiles being incorporated into the SPECIATE database. This file contains three worksheets: (1) data completed and incorporated into SPECIATE 4.4; (2) references reviewed that are to be processed for incorporation into future versions of SPECIATE; and (3) reports that do not contain sufficient data or details for developing profiles.

In addition, the Workgroup has prepared guidance to assist profile data collectors on how to collect and present source profile data to maximize their utility to SPECIATE users, to assist future SPECIATE managers in assessing whether the data should be incorporated, and to facilitate the process for preparing profiles in SPECIATE format. This information is provided in Appendix B of this report.

A. New Profiles Included in SPECIATE 4.4

EPA's Office of Transportation and Air Quality continues to develop gasoline headspace vapor and exhaust speciation profiles. Other EPA offices have recently published various speciation profiles ranging from combustion sources to oil and gas fugitive emissions. The sources of new profiles that Abt Associates staff incorporated into the SPECIATE 4.4 database are listed below.

1. Kansas City PM characterization study (EPA, 2008a; TOG, NMOG, and PM profiles);
2. Composition of natural gas for use in the oil and natural gas sector rulemaking (EPA, 2011a; TOG profiles);
3. Composite gasoline headspace vapor - EPAct/V2/E-89 Program and CRC Report CRC-E-80 (EPA, 2009and CRC, 2011; TOG profiles);

4. Characterization of carbonaceous aerosols emitted from outdoor wood boilers (Hays et al., 2011; PM profiles);
5. Hydrocarbon composition of gasoline vapor emissions from enclosed fuel tanks (EPA, 2010 and EPA, 2011b; TOG and VOC profiles);
6. Emissions from small-scale burns of simulated deployed U.S. military waste (Woodall et al., 2012; VOC profiles);
7. Chemical characterization of the fine particle emissions from commercial aircraft engines during the Aircraft Particle Emissions eXperiment (APEX) 1 to 3 (Kinsey et al., 2011; PM profiles);
8. The effects of operating conditions on semivolatile organic compounds emitted from light-duty, gasoline-powered motor vehicles (Herrington et al., 2012; PM profiles); and
9. Development of species profiles for selected organic emission sources at oil and gas fields (CARB, 1991; TOG profiles).

Several other speciation datasets included in SPECIATE 4.4 are fugitive biogenic source datasets (e.g., dairy silage, lagoons, feed stuffs) and combustion source datasets (e.g., wood-fired boilers, coal combustion, agricultural burning, iron and steel facility, diesel engine exhaust). Abt Associates staff identified all of these datasets through daily literature review of major journal articles.

B. EPA Speciation Data

EPA data include the speciation of hundreds of gasoline and diesel liquids and headspace vapors. Other EPA VOC, TOG, and PM data incorporated into SPECIATE include those for the burning of foliar fuels, agricultural biomass burning, motor vehicle exhaust, and iron and steel manufacturing facilities. Examples of major EPA-collected speciation data are provided below:

1. Gasoline and diesel liquids and headspace vapors, and motor vehicle exhaust (EPA, 2008a and 2008b; added to SPECIATE 4.0, 4.2, and 4.3);
2. Burning of foliar fuels (Hays et al., 2002), agricultural biomass burning (Hays et al., 2005; added to SPECIATE 4.0);
3. Iron and steel manufacturing facilities (Machemer, 2004; added to SPECIATE 4.0);
4. Combustion of residual fuel oil (Huffman, et al., 2000; added to SPECIATE 4.0);
5. Wood-fired industrial boilers (ERG, 2001; added to SPECIATE 4.0)
6. Exhaust emissions from four-stroke lawn mower engines (Gabele, 1997; added to SPECIATE 4.2);
7. Heavy-duty vehicle chassis dynamometer testing for emissions inventory, air quality modeling, source apportionment and air toxics emissions inventory (CRC, 2003; CRC, 2005; CRC, 2007; added to SPECIATE 4.2);
8. Oil-fired utility boilers (Beck, 2004; added to SPECIATE 4.3);
9. Analysis of particulate matter emissions from light-duty gasoline vehicles in Kansas City (EPA, 2008; added to SPECIATE 4.3);
10. Fugitive particulate emissions from construction mud/dirt carryout (Kinsey et al., 2004; added to SPECIATE 4.3);
11. Pulp and paper boilers (EPA, 2003; added to SPECIATE 4.3);

12. Physical and chemical characterization of residential oil boiler emissions Hays et al., 2008; added to SPECIATE 4.3);
13. Characterization of landfill gas composition at the Fresh Kills municipal solid-waste landfill (Eklund et al., 1998; added to SPECIATE 4.3); and
14. Emissions inventory of $PM_{2.5}$ trace elements across the United States (Reff et al., 2009; added to SPECIATE 4.3).

C. Cass Group Speciation Data

Researchers associated with Dr. Glenn Cass's group at the California Institute of Technology have conducted many speciation studies. This subsection identifies the studies resulting from this research group for which profiles were developed and included in the SPECIATE database upon recommendation by the Workgroup. Schauer et al. (1998) conducted a research study with CARB to characterize seven air pollution sources: meat charbroiling, cooking with seed oils, medium-duty diesel trucks, gasoline-powered motor vehicles, fireplace combustion of wood, cigarette smoke, and industrial spray painting operations. Along with these seven source sectors, this research study also includes liquid gasoline and headspace vapor profiles and paved road dust profiles for source receptor modeling. Profiles from five out of the seven source sectors are published in peer-reviewed journals. The other profiles mentioned above are identified in the final report to CARB (Schauer et al., 1998) and incorporated into the database.

It is important to note that Schauer et al. continued an earlier CARB funded research study by Rogge, et al. (1993) that applied several techniques to speciate pollutant compositions. Both studies are Ph.D. dissertations from Dr. Glen Cass's group at the California Institute of Technology. The Workgroup highly recommends inclusion of other speciation profiles by Dr. Glen Cass's research group, but these profiles have yet to be incorporated into the database since contractor resources have been focused on other profiles with higher priority.

Both the Schauer et al. and Rogge et al. studies are extremely detailed in that they speciated hundreds of organic compounds in PM, in addition to ions, metals, elemental carbon (EC) and organic carbon (OC). These detailed PM profiles are different from most other PM profiles which usually provide EC, OC, ions, and trace element information only. The additional OC speciation data provide important source markers for receptor modeling (e.g., hopanes, steranes, phenols, syringols, and levoglucosan) and TAP emission inventories for health risk assessments [e.g., polycyclic aromatic hydrocarbons (PAHs)].

D. California Air Resources Board (CARB) Speciation Profiles

CARB has assembled many TOG and PM profiles as a result of survey work, testing programs, and other research. CARB speciation profiles are available to the public on the internet (CARB, 2003). These profiles are used by CARB during the development of state implementation plans (e.g., to assess photochemical reactivity of VOC mixtures), TAP emission inventories, photochemical modeling, receptor modeling, and other air quality projects. In all, 328 TOG and 8 PM profiles from CARB were selected for incorporation into the SPECIATE database. These profiles cover emission sources such as consumer products (based on 1997 survey data), aerosol coatings (1997 survey data), architectural coatings (1998 survey data), pesticides, landfill gas,

wastewater treatment plants, thinning solvents (mineral spirits), degreasing solvents (SPECIATE 4.0), vehicle hot soak (Hsu, 2003; SPECIATE 4.2), and other motor vehicle emission sources powered by California reformulated gasoline (RFG; SPECIATE 4.2).

Other CARB profiles exist in the previous SPECIATE 3.2 database and are now incorporated into the SPECIATE 4.0 and later versions of the database. CARB developed additional profiles as part of CARB funded projects to DRI, and these profiles are included under the DRI data discussion below.

E. Desert Research Institute (DRI) Speciation Profiles

A total of 1,230 PM speciation profiles were obtained from DRI and incorporated into the SPECIATE 4.0 database. The source sectors represent emissions from geological material, vegetative burning, industrial fuel combustion, forest fires, road dust, refineries, coal combustion, motor vehicles, and many others. Moreover, the profiles measured for the U.S. Department of Energy funded Gasoline-Diesel PM Split Study (DOE, 2005) are included in the SPECIATE 4.2 database.

DRI prepared an additional set of profiles for the Lake Tahoe Source Characterization Study (Kuhns, et al., 2004), and a study on middle- and neighborhood-scale variations of PM_{10} source contributions in Las Vegas, Nevada (Chow, et al., 1999). Due to priority, these PM profiles will be incorporated into a later version of SPECIATE.

F. Texas Commission on Environmental Quality (TCEQ) Speciation Profiles

Speciation data from the report *Speciation of Texas Point Source VOC Emissions for Ambient Air Quality Modeling* (Cantu, 2003) were downloaded and reviewed for inclusion in the SPECIATE database. The TCEQ VOC profile database contains 9,447 VOC speciation profiles, which are associated with the Texas 2000 Air Quality Study (PES, 2003). Along with the profiles, this database includes a cross-reference table to link emission source identification numbers for each facility to the VOC speciation profiles. These point source profiles are derived from annual speciated VOC emissions reported by emitting facilities in Texas. Other Texas area source VOC profiles are essentially EPA SPECIATE 3.2 profiles.

As recommended by the Workgroup, a total of eight VOC profiles for five refineries and three olefin manufacturing plants were added to the SPECIATE 4.0 database (Allen, 2004). However, these profiles are given a low quality rating because meta data (e.g., analytical and sampling methods, source documentation, number of samples needed for profile quality rating) are not readily available and significant resources would be required to retrieve the underlying information (i.e., reviewing the facility reports, likely maintained at the facilities).

G. Profiles Prepared from Environment Canada's National Pollutant Release Inventory (NPRI)

A total of 100 VOC profiles were developed and included in the SPECIATE 4.1 database (and carried forward in later versions of SPECIATE) from data contained in Environment Canada's

NPRI. The NPRI is the only nationwide, publicly-accessible program of its type in Canada that provides information on annual releases of pollutants to the air, water, land, and disposal or recycling from all sectors.

The NPRI database contains 22 tables that are structured in an MS Access relational database format. The NPRI database provides detailed stationary source facility-level emissions by pollutant along with facility contact information, addresses, and North American Industry Classification System (NAICS) code and/or Canadian or American Standard Industrial Classification (SIC) code. For this project, several methods were developed to match the fields in the NPRI database to the format of SPECIATE. The main difference between the SPECIATE database and the NPRI database is that the NPRI data are not provided at the emissions process or unit level but are aggregated to the facility level to avoid the disclosure of confidential information. Consequently, many of the data fields in the two databases could not be matched directly. For example, a facility may have emissions from boilers fueled with diesel and natural gas, volatile compound emissions from fugitive sources, and emissions from internal combustion engines. All of these speciated emissions are collectively registered to one facility account in the NPRI database by plant operators. Since operation of each emission source is different from one plant to another, the SPECIATE database is designed to capture speciation profiles in the most disaggregated form possible. The example above would have one profile for boilers fueled with diesel, boilers fueled with natural gas, fugitive emissions, and internal combustion engines.

H. Environment Canada Mobile Source Speciation Profiles

In addition to the NPRI database, Environment Canada also has extensive research programs to characterize emissions from vehicles with various engine and emission control technologies when operated on traditional gasoline, different blends of ethanol gasolines, diesel, biodiesel, and other fuels. Several studies tested vehicles at 0 ^{o}C and 20 ^{o}C for speciated emission composition comparisons (e.g., ERMD Report 00-37). Programs were undertaken to help identify and quantify the emissions impact of different blended fuels on the tailpipe and evaporative emissions. In general, reports discuss gaseous emissions of carbon monoxide (CO), oxides of nitrogen (NO_x), total hydrocarbon (THC), non-methane hydrocarbons (NMHC), non-methane organic gases (NMOG), ethanol, and PM, in addition to comprehensive speciated compounds (e.g., ERMD Report 98-26718, ERMD Report 05-39; SPECIATE 4.2).

I. Coordinating Research Council E-75 Diesel Exhaust Speciation Database

In order to better assess the current state of speciated diesel emissions data, the CRC and the U.S. DOE NREL jointly contracted with consultants to conduct the E-75 project comprising the following three objectives:

- Perform a literature review of diesel speciation studies;
- Compile speciated exhaust emissions data from on-road diesel vehicles designed to meet U.S. emission standards; and
- Assess the quality and completeness of the data.

The consultants reviewed studies that provided data on speciated diesel exhaust emissions from vehicles with and without the use of advanced emission reduction technologies. In performing the literature search to determine the datasets that could be incorporated into a diesel emissions database for this project, the consultants accessed peer-reviewed materials such as journal papers [e.g., Environmental Science and Technology (ES&T)] and papers and reports from the Society of Automotive Engineers, CRC, NREL, CARB, U.S. EPA, and research institutes (e.g., University of Wisconsin, West Virginia University, University of California at Riverside). After review and analysis of the report content and speciation methodology employed, the consultants summarized the suitability of each reference for this project (Hsu and Mullen, 2007). Multiple heavy duty diesel exhaust profiles have been incorporated into the SPECIATE database (SPECIATE 4.2 and 4.3).

J. SPECIATE 3.2 Legacy Profiles

The profiles in SPECIATE 3.2 have been incorporated into SPECIATE 4.0 and carried forward in later database versions. The GAS_PROFILE and PM_PROFILE tables in the SPECIATE 4.4 database both contain a field named VERSION to identify profiles that originate from SPECIATE 3.2 (see Table 1 for the definition of this field). The data from SPECIATE 3.2 are reformatted for storage in the SPECIATE 4.4 database, but the additional fields that appear in SPECIATE 4.4 that do not appear in SPECIATE 3.2 are not populated. The SPECIATE 3.2 profiles are not subject to the SPECIATE 4.4 profile rating criteria discussed in the next subsection.

CHAPTER IV. Important Notes and Comments Related to the SPECIATE Database

Throughout this project, the Workgroup raised issues and questions regarding the SPECIATE database. This chapter describes results and decisions made by the Workgroup.

A. Completeness of the SPECIATE Database

The SPECIATE 4.4 database includes speciation profiles essentially covering the entire top 20 VOC and PM contributing source sectors in the 2011 NEI, accounting for over 80% of all emissions. For example, EPA constructed VOC and PM foliar fuel profiles that are appropriate to the prescribed burning and wildfires categories, two of the largest VOC and PM emission sectors in the NEI. Recent CARB TOG profiles for oil and gas extraction fugitive emissions, gasoline motor vehicle exhaust (catalyst and non-catalyst), surface coatings (architectural coatings and aerosol coatings both solvent-borne and water-borne), liquid gasoline and the latest EPA gasoline exhaust, evaporative, and diesel headspace profiles all reflect changes in new regulations and formulations. A much more complete speciation of diesel exhaust VOC is also included in the SPECIATE 4.4 database. The gasoline and diesel onroad sectors are among the largest organic gas emitters.

Speciation data for other large emission sectors like paved and unpaved road dust, degreasing, diesel exhaust, pesticides, solvents, consumer products, fireplaces, dry cleaning, graphic arts and household products were included in SPECIATE 4.3 and carried forward into the SPECIATE 4.4 database. The SPECIATE 3.2 profiles were also carried forward into the SPECIATE 4.4 database.

During the development of the SPECIATE 4.4 database, the Workgroup identified many mobile source emissions datasets that contain diesel exhaust PM and organic gases, gasoline vehicle exhaust and evaporative emissions, and non-road vehicle emissions (e.g., aircraft). In addition to conventional vehicle emissions data, future fuels (e.g., low sulfur diesel, biodiesel), and advanced technology vehicles are included in the SPECIATE 4.4 database.

Even though SPECIATE 4.4 contains speciation profiles for a comprehensive list of emission sources, the Workgroup continuously strives to search for speciation data that are more specific for source types, processes, and different regions. Examples of source sectors where speciation data profiles are needed include the oil and gas industry (extraction wells, dehydration sumps, processing plants, storage tanks, distribution and transmission leaks), household and yard wastes burning, biodiesel engine exhaust, pulp and paper industry boiler combustion, architectural and industrial maintenance coating, wild fires, prescribed burnings, and coal-fired power plants. There are also data gaps for PM profiles that differentiate filterable and condensable speciation data. In addition to individual profiles, composite profiles are also important for SPECIATE users.

B. Unresolved Mixtures within Profiles

Many TOG and VOC speciation profiles contain mixtures of compounds listed as a single species (e.g., surface coatings and adhesives profiles have mineral spirits and/or "aromatic 100" solvents). Users could further speciate these unresolved fractions using appropriate solvent profiles provided in the SPECIATE 4.4 database (i.e., organic gas profile numbers 3141 and 4423 - 4461). Further effort should be expended to resolve these mixtures within each of the SPECIATE profiles. This is an important issue for many users of SPECIATE, including photochemical modelers, inventory preparers, and control strategy analysts. Photochemical modelers have expressed an interest in seeing these mixtures resolved in speciation profiles (Carter, 2004).

The issue of unresolved mixtures is illustrated in Table 4 below using the example TOG profile #2425 for "surface coatings – general". The top chemical listed is mineral spirits at 31% by weight. Another important mixture in this profile is xylene isomers at 11% by weight. Since these chemicals are made up of many individual species, the use of this profile can present problems for users. Speciation profiles for mineral spirits and xylene mixtures are shown in Appendix C. Additional effort is needed to revise at least the most important speciation profiles to resolve the mixtures in order to present reasonably complete (i.e., species-specific) profiles for the user community. The key profiles are those with substantial amounts of mixtures (e.g., >3-5% by weight) and those that are commonly used in regional modeling and inventory development. For example, although there are additional mixtures shown in the profile in Table 4 (e.g., oxygenates, ketones), their contributions are fairly low.

Table 4. Profile #2425 for Surface Coatings - General

Chemical Name	Weight Percent	CAS
MINERAL SPIRITS	31.05	64475850
TOLUENE	12.34	108883
XYLENE, ISOMERS OF	11.02	1330207
METHYL ETHYL KETONE	4.16	78933
BUTYL ACETATE N-	3.90	123864
ETHYLENE GLYCOL	3.35	107211
METHYL ISOBUTYL KETONE	3.15	108101
BUTYL CELLOSOLVE	2.94	111762
DIACETONE ALCOHOL	2.94	123422
BUTYL ALCOHOL S-	2.92	78922
ACETONE	2.36	67641
ISOBUTYL ALCOHOL	2.06	78831
ETHYL ALCOHOL	1.69	64175
ETHYL ACETATE	1.50	141786
ISOPROPYL ALCOHOL	1.50	67630
PROPYLENE GLYCOL	1.24	57556
TRICHLOROETHANE 1,1,1-	1.01	71556
UNDEFINED VOC	0.87	
PROPYL ACETATE N-	0.60	109604
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	0.60	108656

BUTYL CARBITOL	0.54	112345
OXYGENATES	0.49	
KETONES – GENERAL	0.44	
CELLOSOLVE ACETATE	0.36	111159
METHOXY-2-PROPANOL 1-	0.30	107982
MONOMETHYL ETHER DIPROPYLENE GLYCOL	0.30	34590948
CELLOSOLVE	0.24	110805
CARBITOL	0.12	111900
METHYL CARBITOL	0.12	111773

The profiles listed for mineral spirits and xylene mixtures in Appendix C show that there are important implications for resolving these mixtures. For users involved in preparing TAP inventories, important species are present in significant amounts (e.g., toluene, ethylbenzene, xylene isomers). Resolving these mixtures will also help photochemical modelers and control strategy analysts better understand the reactivity of the overall profile.

C. Preference of New Profiles

For certain source categories, SPECIATE users can choose from a set of relevant profiles. The SPECIATE 4.4 database incorporates updated speciation profiles that reflect the changes in product composition that have been made in response to new regulations (e.g., ethanol blended gasoline, VOC limits in coatings and solvents) and sampling technologies (e.g., dilution sampling for combustion sources). For example, consumer and commercial products categories are among the highest contributors to VOC emissions nationally. Due to new federal and state regulations, different ingredients have been developed for consumer products, and therefore, use of the new speciation profiles is recommended. Another example is the reduction of lead content in road dust, probably due to the phase-out of leaded gasoline. Newer profiles are generally recommended where a choice exists, except when conducting retrospective emissions analyses. Therefore, users should refer to the TEST_YEAR field associated with each profile when choosing profiles. The V_RATING field may also be useful for this purpose.

D. Identification of Species

The individual species that make up the profiles may be identified by several methods, so the SPECIATE 4.4 database provides several fields that can be used to distinguish each species. A CAS number is an identifier assigned to a specific compound by the American Chemical Society (ACS). EPA is often interested in groups of compounds, such as VOCs or PAHs. These groups are assigned EPA IDs where there are no CAS numbers in ACS. CAS numbers and EPA IDs are mutually exclusive -- that is, a compound or group never has both identifiers. An EPA internal tracking number (ITN) is assigned to all compounds or groups tracked in the SRS and makes a useful unique identifier for compounds/groups. However, it is not as well-known or as readily available as the CAS number. Finally, ongoing research and analysis shows that there are compounds and mixtures that have no associated identification numbers.

Within the SPECIATE 4.4 database, all species, whether individual compounds or groupings, are identified and detailed in the SPECIE_PROPERTIES table. A record or row is designated for each species tracked within the database; its various identifiers and characteristics are stored in

the fields or columns of the record. The internal workings of SPECIATE depend on the row ID within the SPECIATE 4.4 database, rather than a particular ID number (such as CAS or EPA ID). Thus, the SPECIATE 4.4 database can function with or without the presence of an identification number.

In cases where neither the CAS number, EPA ID, nor EPA ITN is available, the ID field in the SPECIE_PROPERTIES table may be used to identify species in ancillary applications, such as mappings. Note that the SPECIATE temporary ID was used during the development of SPECIATE 4.0 to facilitate tracking of data but is no longer used.

If a CAS number, EPA ID, or EPA ITN is subsequently defined for a compound or group, that information will be recorded in the SPECIATE database in the SPECIE_PROPERTIES table. The EPA Office of Environmental Information provided identification information on compounds in SPECIATE that were previously without identification numbers and are tracked in the SRS. These identifiers have been incorporated into the SPECIATE 4.4 database in the SPECIE_PROPERTIES table.

SAROAD codes are the other widely used chemical identifiers. However, EPA no longer maintains SAROAD codes for chemicals. Currently, SAROAD codes are included in many speciation databases and are built into photochemical and dispersion models. Since there is no central SAROAD codes database, there are several versions of SAROAD codes among EPA, state agencies and organizations (due to users generating their own SAROAD codes, as needed). Since there are conflicts in SAROAD codes, the Workgroup is undecided about whether they should be included in the SPECIATE database. For SPECIATE 4.4, the SAROAD codes associated with SPECIATE 3.2 profiles are kept in the database.

E. Renormalization of PM Profiles

Most profiles are normalized to the gravimetric mass of PM by dividing the species weight percent by the gravimetric mass of PM collected on Teflon filters as reported in the primary literature. Due to the nature of sampling and analytical technologies, many PM speciation profiles show a total mass of larger than 100% due to OC measurements having “organic gas adsorption artifacts”. OC collected on quartz fiber filters have positive artifacts due to adsorption of organic gases on the filter. Desorption of SVOC contributes to negative artifacts. There is no easy fix for these artifacts (Chow, 2004). Organic gas denuders and backup quartz fiber filters have been studied as methods for correcting these artifacts, but there are no standard solutions to date. Most of these profiles are technically accurate for the individual components, so the Workgroup decided to keep OC data as they are obtained. *This procedure can produce aberrant weight percentages (WEIGHT_PER) in the PM_SPECIES records.* DRI applied two other normalization bases to a set of PM profiles. When measured mass was below 1 to 2 milligrams (mg) or exceeded 5 mg, the effect of gaseous OC adsorption on quartz-fiber filters became apparent since the sum of the ratio of chemical species to measured mass ratios exceeded unity. These samples were renormalized to the sum of species or reconstructed mass rather than measured mass. For the sum of species, only total carbon (TC) was used to represent carbonaceous material while $1.4 \times [OC] + [EC]$ was used for reconstructed mass to account for the mass of other elements (such as N, S, and O) associated with OC. The factor of 1.4 was

selected to adjust the OC mass for other elements assumed to be associated with the OC molecule (White and Roberts, 1977; Japar et al., 1984). Similarly, crustal material was estimated by 2.2 × [Al] + 2.49 × [Si] + 1.63 × [Ca] + 2.42 × [Fe] + 1.94 × [Ti] in the reconstructed mass by summing the mass of those elements predominantly associated with soil, with allowance for oxygen present in the common compounds (e.g., Al_2O_3, SiO_2, CaO, K_2O, FeO, Fe_2O_3, TiO_2; EPA, 2003). The NORM_BASIS field in the PM_PROFILE table identifies the normalization basis used for a profile if this information is available.

F. Avoiding Double-Counting Compounds

The total speciated percentage of a given PM profile is listed under the TOTAL field in the SPECIATE 4.4 database. It is calculated as the sum of all speciated compounds (e.g., EC, OC, sulfates, nitrates, metals), excluding elemental sulfur and speciated organics in PM (e.g., PAHs).

As described previously, speciated organic compounds are measured in many of EPA's and Schauer's PM profiles. The mass of these organic species is divided by PM mass to calculate their mass fraction. For these PM profiles, the mass of each PM-associated organic species is excluded from the sum of all speciated compounds to avoid double-counting with OC (i.e., organic species such as PAHs are included in the OC fraction). The OC included in these PM speciation data have a higher mass than the sum of the speciated organic compounds (since not all species are identified and quantified). Therefore, the OC mass is used in the calculation of total PM mass when the profile is developed in order to achieve better mass closure.

Similarly, elemental sulfur and ionic sulfate are measured in many PM speciation datasets. They are analyzed using different analytical techniques (e.g., X-ray fluorescence spectroscopy, flame atomic absorption, ion chromatography). For the purposes of determining total PM mass, the ionic sulfate results from the ion chromatography analysis are used, since this technique provides a higher total mass than the elemental measurements. It is possible that some double-counting of Na, K, and Cl occurs in the calculation of total PM, but those errors are assumed to be negligible.

G. Inorganic Gases in PM Profiles

Sulfur dioxide, ammonia and other inorganic gases are sometimes collected and measured along with PM. Sulfur dioxide and other gases are presented as percentages by dividing the individual gas mass by total PM mass but are not included in the Total Mass calculation for the profile. The Workgroup recommended inclusion of inorganic gases for receptor modeling purposes, with inorganic gases distinctly indicated as a gas in the chemical names. Inorganic gases are not added to the PM mass. The database includes a field (INCL_GAS) indicating whether a PM profile has associated inorganic gases.

H. Correction Factors for Oxygenated Compounds

The EPA gasoline and diesel headspace vapor data are calibrated by generic standards (e.g., correlate gas chromatograph responses to hexane standard gas), and, therefore, needed to be adjusted with correction factors (Lewis, 2004). Common oxygenated compounds in speciation profiles are ethanol, methyl t-butyl ether (MTBE), and t-amylmethyl ether (TAME). The mass

percentages for oxygenated compounds are adjusted based on gas chromatography responses. These oxygenated compounds are adjusted based on correction factors in the literature (1.5, 1.25, and 1.2 for ethanol, MTBE, and TAME, respectively) (Scanlon et al., 1985; Jorgensen et al., 1990). Both adjusted and unadjusted speciation profiles for the EPA headspace vapor data are incorporated. The terms "adjusted for oxygenates" and "not adjusted for oxygenates" are added to the end of the names of the profiles in the GAS_PROFILE table in the SPECIATE 4.4 database to clearly identify the profiles for which response factors are applied versus the profiles for which the response factors are not applied.

I. Other Correction Factors

Thermal optical reflection (TOR) and thermal optical transmission (TOT) instruments are commonly used to measure EC and OC. Both analyzers quantify carbon atoms only (i.e., the mass of associated oxygen, hydrogen, nitrogen and other atoms is not included). EC and OC measurements reported in DRI PM profiles are measured by the TOR procedure. EPA and Schauer's profiles used the TOT procedure for EC and OC analyses. This is important since previous studies have observed that the discrepancy in EC resulting from TOR and TOT procedures could be up to 40% due to differences in the operational definitions of EC and OC. Since there is no consensus on the best method for EC and OC measurements, data are reported as measured without adjustment. The SPECIATE 4.4 database includes an analytical methods field (ANLYMETHOD) in the PM_SPECIE table indicating which method is used.

J. Data from Tunnel Studies

Profiles generated from tunnel studies should be associated with onroad motor vehicle emissions, including mixtures of gasoline and diesel exhaust, evaporative sources, road dust, tire wear, brake wear, etc. These types of profiles can be identified from references in the database as well as the NOTES field. While these types of profiles may not be useful for the purposes of emission inventory development (since they are mixtures of many emission sources), they are useful for source apportionment (receptor) modeling.

K. VOC-to-TOG Conversion Factors

The process of calculating the VOC-to-TOG conversion factor for a given profile consists of determining the organic gases in the profile that are exempted from the EPA VOC definition and determining what portion of the overall profile is composed of these non-photochemically reactive compounds (e.g., methane, ethane, acetone). Once the weight fraction sum of these non-photochemically reactive compounds is known, it is divided into 1 to obtain the VOC-to-TOG conversion factor. The EPA definition of VOC and a list of exempt organic gases are available at http://www.epa.gov/ttn/naaqs/ozone/ozonetech/def_voc.htm.

Using the EPA list, database queries are used to compute the VOC-to-TOG factors. For example, if a profile contains 20% methane (not a VOC) and 80% VOC, the VOC-to-TOG conversion factor is the sum of all species divided by the portion that is VOC, or 100 / 80 in this example. The resulting conversion factor (1.25) is stored with the profile in the VOC to TOG field. It can be applied to an estimate of VOC emissions to estimate TOG emissions.

For composite profiles, the conversion factors are computed after the composites are developed.

L. Composite Profiles

Many emission source categories have multiple speciation profiles in prior SPECIATE versions. There are 131 composite PM profiles carried forward into the SPECIATE 4.4 database (Reff et al., 2009). Table 5 lists the P_NUMBER and name of the profiles. Users may employ the composite profiles to avoid manual comparison of several relevant but diverse profiles, using the composites as an indication of central tendency for the source category. Users may equally prefer their own analysis of the constituent profiles, determining the best fit for their needs, thereby obviating the need for the composites.

The PM-composite profiles are identified by profile numbers (P_NUMBER) that start with "91xxx". The term "composite" is also included at the end of the name in the NAME field in the PM_PROFILE table. The composite profiles are easily identified by the ORIG_COMPO field (allowed value = "O" for Original, "C" for Composite, Null for legacy profiles). The NOTES field in the PM_PROFILE table identifies the individual profiles (first included in the SPECIATE 4.2 database) upon which the composite profiles are based. The documentation provided in the NOTES field is also provided in the DESCRIPTIO field in the REFERENCE table; the DOCUMENT field in the REFERENCE table is null since the composite profiles are based on more than one individual profile. Users may look-up the references for the individual profiles in the database to identify the references supporting the PM-composite profiles.

Table 5. PM Composite Profiles Carried Forward into the SPECIATE 4.4 Database

P_NUMBER	NAME
91000	Draft Agricultural Burning - Composite
91001	Draft Agricultural Soil - Composite
91002	Draft Brake Lining Dust - Composite
91003	Draft Catalytic Cracking - Composite
91004	Draft Cement Production - Composite
91005	Draft Charbroiling - Composite
91006	Draft Cigarette Smoke - Composite
91007	Draft Construction Dust - Composite
91008	Draft Copper Production - Composite
91009	Draft Crustal Material - Composite
91011	Draft Electric Arc Furnace - Composite
91012	Draft Ferromanganese Furnace - Composite
91013	Draft Fly Ash - Composite
91014	Draft Food & Ag - Handling - Composite
91015	Draft Industrial Soil - Composite
91016	Draft Inorganic Fertilizer - Composite
91017	Draft LDDV Exhaust - Composite
91018	Draft Lime Kiln - Composite

P_NUMBER	NAME
91019	Draft Limestone Dust - Composite
91020	Draft Natural Gas Combustion - Composite
91021	Draft Non-catalyst Gasoline Exhaust - Composite
91022	Draft Onroad Gasoline Exhaust - Composite
91023	Draft Paved Road Dust - Composite
91024	Draft Phosphate Manuf - Composite
91025	Draft PMSO2ControlledLigniteCombustion - Composite
91026	Draft Prescribed Burning - Composite
91027	Draft Process Gas Combustion - Composite
91028	Draft Residential Coal Combustion - Composite
91029	Draft Residential Wood Combustion: Eucalyptus - Composite
91030	Draft Residential Wood Combustion: Hard - Composite
91031	Draft Residential Wood Combustion: HardSoft - Composite
91032	Draft Residential Wood Combustion: HardSoftN/A - Composite
91033	Draft Residential Wood Combustion: Soft - Composite
91035	Draft Sand & Gravel - Composite
91036	Draft Sandblast - Composite
91037	Draft Secondary Aluminum - Composite
91038	Draft Sintering Furnace - Composite
91039	Draft Slash Burning - Composite
91040	Draft Solid Waste Combustion - Composite
91041	Draft SubBituminousCombustion - Composite
91042	Draft Surface Coating - Composite
91043	Draft Tire Dust - Composite
91044	Draft Unpaved Road Dust - Composite
91045	Draft Wildfires - Composite
91046	Draft Wood Product Drying - Composite
91047	Draft Wood Product Sawing - Composite
91048	Draft Bituminous Coal Combustion - Composite
91100	Unpaved Road Dust - Composite
91101	Agricultural Soil - Composite
91102	Wildfires - Composite
91103	Agricultural Burning - Composite
91104	Bituminous Combustion - Composite
91105	Residential Wood Combustion - Composite
91106	HDDV Exhaust - Composite
91107	Construction Dust - Composite
91108	Paved Road Dust - Composite
91109	Prescribed Burning - Composite
91110	Sub-Bituminous Combustion - Composite
91111	Sand & Gravel - Composite
91112	Natural Gas Combustion - Composite

P_NUMBER	NAME
91113	Nonroad Gasoline Exhaust - Composite
91114	Wood Fired Boiler - Composite
91115	Distillate Oil Combustion - Composite
91116	Charbroiling - Composite
91117	Residual Oil Combustion - Composite
91118	Dairy Soil - Composite
91119	Kraft Recovery Furnace - Composite
91120	Mineral Products - Avg - Composite
91121	Industrial Manufacturing - Avg - Composite
91122	Onroad Gasoline Exhaust - Composite
91123	Heat Treating - Composite
91124	Chemical Manufacturing - Avg - Composite
91125	Lignite Combustion - Composite
91126	Solid Waste Combustion - Composite
91127	Cement Production - Composite
91128	Wood Products - Drying - Composite
91129	Surface Coating - Composite
91130	Food & Ag - Handling - Composite
91131	Wood Products-Sawing - Composite
91132	Aluminum Processing - Composite
91133	Open Hearth Furnace - Composite
91134	Brake Lining Dust - Composite
91135	Meat Frying - Composite
91136	Process Gas Combustion - Composite
91137	Aluminum Production - Composite
91138	Lime Kiln - Composite
91139	Sintering Furnace - Composite
91140	Charcoal Manufacturing - Composite
91141	Catalytic Cracking - Composite
91142	Fiberglass Manufacturing - Composite
91143	Glass Furnace - Composite
91144	Pulp & Paper Mills - Composite
91145	Petroleum Industry - Avg - Composite
91146	Slash Burning - Composite
91147	Misc. Sources - Composite
91148	Asphalt Roofing - Composite
91149	Inorganic Chemical Manufacturing - Composite
91150	Tire Dust - Composite
91151	Ferromanganese Furnace - Composite
91152	Wood Products - Sanding - Composite
91153	Electric Arc Furnace - Composite
91154	Food & Ag-Drying - Composite

P_NUMBER	NAME
91155	Residential Coal Combustion - Composite
91156	Residential Natural Gas Combustion - Composite
91157	Cast Iron Cupola - Composite
91158	Copper Processing - Composite
91159	Asphalt Manufacturing - Composite
91160	Fly Ash - Composite
91161	Sandblast - Composite
91162	LDDV Exhaust - Composite
91163	Ammonium Nitrate Production - Composite
91164	Limestone Dust - Composite
91165	Phosphate Manufacturing - Composite
91166	Gypsum Manufacturing - Composite
91167	Urea Fertilizer - Composite
91168	Lead Processing - Composite
91169	Crustal Material - Composite
91170	Copper Production - Composite
91171	Brick Grinding and Screening - Composite
91172	Calcium Carbide Furnace - Composite
91173	Coke Calciner - Composite
91174	Industrial Soil - Composite
91175	Potato Deep Frying - Composite
91176	Sea Salt - Composite
91177	Sludge Combustion - Composite
91178	Lead Production - Composite
91179	Steel Desulfurization - Composite
91180	Auto Body Shredding - Composite
91181	Ammonium Sulfate Production - Composite
91182	Inorganic Fertilizer - Composite
91183	Boric Acid Manufacturing - Composite

Scientists at EPA's OAQPS and ORD (many of whom are also members of the Workgroup) collaborated in selecting the individual profiles for developing each composite profile (Reff and Bhave, 2006; Reff et al., 2009). During the compositing process, all profiles in the SPECIATE 4.0 database were considered but some were not used for a variety of reasons. For these profiles, the worksheet named "Reason For Exclusion" is provided in a separate Excel spreadsheet file (PM Profiles not Used to Develop Composite Profiles.xls) that accompanies the SPECIATE 4.0 release. Examples of why profiles are excluded include, but are not limited to, the following:

- The PM size fraction is greater than $PM_{2.5}$;
- No information is provided for profiles about the type of fuel or controls used;
- More recent profiles are available; and
- The profile is a composite.

The weight percent value of each species included in the composite profile is based on the median weight percent value available from the individual profiles upon which the composite profile is based. For some source categories (e.g., paved road dust), composite profiles are created hierarchically by forming a "subcomposite" profile based on profiles that are measured from very similar source tests (e.g., Central California road dust) and then computing a composite based on the median of the subcomposite profiles. This approach is taken to avoid overweighting very similar profiles that are more numerous in the database. Null values in the individual profiles are treated as "no data available" and are excluded from determining the median value for the composite profile. Zero values in the individual profiles are assumed to mean that the weight percent value for a species is zero and is included in determining the median value for the composite profile. OC and EC composite values are calculated by the following method to account for differing analytical methods:

1. Prior to profile compositing, the OC and EC fractions are summed to calculate TC for each source profile.

2. The mean OC, mean EC, and mean TC values are calculated for each source category. If any SPECIATE profiles in a source category measured carbon using a TOR method, then only those profiles are included in the mean calculations. If no profiles in the category measured carbon by TOR, then all profiles are used to calculate mean OC, EC, and TC values.

3. Two ratios are calculated using the above mean values for each source category: OC:TC and EC:TC.

4. "Carbon method corrected" OC and EC values are calculated for each SPECIATE profile by multiplying the source category specific OC:TC and EC:TC ratios against the original TC values of each source profile.

5. The medians of these "Carbon method corrected" OC and EC values in each source category are taken as the final value for the composite profile of each source category.

6. To account for as much of the emitted $PM_{2.5}$ mass as possible, additional species that were not in the original raw measured profiles were calculated as follows. Particulate-bound water emissions were calculated for each composite profile as 24% of the sum of sulfate and ammonium emissions (Reff et al., 2009). Non-Carbon Organic Matter (NCOM) consists of hydrogen, oxygen, nitrogen, and other elements bound to carbon in OC. NCOM was calculated for each source category by multiplying OC emissions by a source-category specific OM/OC ratio to calculate an OM emission, and subtracting OC from OM. An OM/OC ratio of 1.25 was used for all motor vehicle exhaust sources. An OM/OC ratio of 1.7 was used for wood combustion sources.

M. PM-Simplified Profiles

PM-simplified profiles are those based on full PM profiles collapsed to the following five species: EC, OC, sulfate, nitrate, and PM other (remaining mass fraction representing all other species). The main difference between the PM-simplified profiles and the original PM profiles is that the five species in PM-simplified profiles sum to 100% whereas the original PM profiles could speciate for less or more than 100% (due to sampling artifacts). PM-simplified profiles are employed in air quality models [e.g., EPA Models-3 Community Multi-scale Air Quality Modeling System (CMAQ)] that use the simplified, five-species approach.

The Workgroup prepared 180 simplified profiles and then added them to the database in SPECIATE versions 4.0 and 4.3. They are all carried forward into the SPECIATE 4.4 database. Table 6 lists the P_NUMBER and name of the profiles. The PM-simplified profiles are identified by profile numbers (P_NUMBER) that start with "92xxx". The term "simplified" is also included at the end of the name in the NAME field in the PM PROFILE table. The PM-simplified profiles are also identified by an "X" flag in the SIMPLIFIED field in the PM_PROFILE table.

Table 6. PM-Simplified Profiles Carried Forward into the SPECIATE 4.4 Database

P_NUMBER	NAME
92000	Draft Agricultural Burning - Simplified
92001	Draft Agricultural Soil - Simplified
92002	Draft Aluminum Production - Simplified
92003	Draft Ammonium Nitrate Production - Simplified
92004	Draft Ammonium Sulfate Production - Simplified
92005	Draft Asphalt Manufacturing - Simplified
92006	Draft Asphalt Roofing - Simplified
92007	Draft Auto Body Shredding - Simplified
92008	Draft Boric Acid Manufacturing - Simplified
92009	Draft Brake Lining Dust - Simplified
92010	Draft Brick Grinding and Screening - Simplified
92011	Draft Calcium Carbide Furnace - Simplified
92012	Draft Cast Iron Cupola - Simplified
92013	Draft Catalytic Cracking - Simplified
92014	Draft Cement Production - Simplified
92015	Draft Charbroiling - Simplified
92016	Draft Charcoal Manufacturing - Simplified
92017	Draft Chem Manuf - Avg - Simplified
92018	Draft Cigarette Smoke - Simplified
92019	Draft Coke Calciner - Simplified
92020	Draft Construction Dust - Simplified
92021	Draft Copper Production - Simplified
92022	Draft Crustal Material - Simplified

P_NUMBER	NAME
92023	Draft Dairy Soil - Simplified
92025	Draft Distillate Oil Combustion - Simplified
92026	Draft Electric Arc Furnace - Simplified
92027	Draft Ferromanganese Furnace - Simplified
92028	Draft Fiberglass Manufacture - Simplified
92029	Draft Fly Ash - Simplified
92030	Draft Food & Ag - Handling - Simplified
92031	Draft Food & Ag - Drying - Simplified
92032	Draft Geothermal Background - Simplified
92033	Draft Glass Furnace - Simplified
92034	Draft Gypsum Manufacture - Simplified
92035	Draft HDDV Exhaust - Simplified
92036	Draft Heat Treating - Simplified
92037	Draft Ind Manuf - Avg. - Simplified
92038	Draft Industrial Soil - Simplified
92039	Draft Inorganic Chemical Manufacture - Simplified
92040	Draft Inorganic Fertilizer - Simplified
92041	Draft Kraft Recovery Furnace - Simplified
92042	Draft LDDV Exhaust - Simplified
92043	Draft Lead Production - Simplified
92044	Draft Lime Kiln - Simplified
92045	Draft Limestone Dust - Simplified
92046	Draft Meat Frying - Simplified
92047	Draft Mineral Products - Avg - Simplified
92048	Draft Natural Gas Combustion - Simplified
92049	Draft Non-catalyst Gasoline Exhaust - Simplified
92050	Draft Onroad Gasoline Exhaust - Simplified
92051	Draft Open Hearth Furnace - Simplified
92052	Draft Overall Average/Default - Simplified
92053	Draft Paved Road Dust - Simplified
92054	Draft Petroleum Ind - Avg - Simplified
92055	Draft Phosphate Manuf - Simplified
92056	Draft PMControlledLigniteCombustion - Simplified
92057	Draft PMSO2ControlledLigniteCombustion - Simplified
92058	Draft Potato Deep-Frying - Simplified
92059	Draft Prescribed Burning - Simplified
92060	Draft Process Gas Combustion - Simplified
92061	Draft Pulp & Paper -Avg. - Simplified
92062	Draft Residential Coal Combustion - Simplified
92063	Draft Residential Natural Gas Combustion - Simplified
92064	Draft Residential Wood Combustion: Almond - Simplified
92065	Draft Residential Wood Combustion: Cedar - Simplified

P_NUMBER	NAME
92066	Draft Residential Wood Combustion: Eucalyptus - Simplified
92067	Draft Residential Wood Combustion: Hard - Simplified
92068	Draft Residential Wood Combustion: HardSoft - Simplified
92069	Draft Residential Wood Combustion: HardSoftN/A - Simplified
92070	Draft Residential Wood Combustion: Soft - Simplified
92071	Draft Residential Wood Combustion: Synthetic - Simplified
92072	Draft Residual Oil Combustion - Simplified
92073	Draft Sand & Gravel - Simplified
92074	Draft Sandblast - Simplified
92075	Draft Sea Salt - Simplified
92076	Draft Secondary Aluminum - Simplified
92077	Draft Secondary Copper - Simplified
92078	Draft Secondary Lead - Simplified
92079	Draft Sintering Furnace - Simplified
92080	Draft Slash Burning - Simplified
92081	Draft Sludge Combustion - Simplified
92082	Draft Solid Waste Combustion - Simplified
92083	Draft Steel Desulfurization - Simplified
92084	Draft SubBituminousCombustion - Simplified
92085	Draft Surface Coating - Simplified
92086	Draft Tire Burning - Simplified
92087	Draft Tire Dust - Simplified
92088	Draft Unpaved Road Dust - Simplified
92089	Draft Urea Fertilizer - Simplified
92090	Draft Wildfires - Simplified
92091	Draft Wood Fired Boiler - Simplified
92092	Draft Wood Product Drying - Simplified
92093	Draft Wood Product Sanding - Simplified
92094	Draft Wood Product Sawing - Simplified
92095	Draft Bituminous Coal Combustion - Simplified
92100	Unpaved Road Dust - Simplified
92101	Agricultural Soil - Simplified
92102	Wildfires - Simplified
92103	Agricultural Burning - Simplified
92104	Bituminous Coal Combustion - Simplified
92105	Residential Wood Combustion - Simplified
92106	HDDV Exhaust - Simplified
92107	Construction Dust - Simplified
92108	Paved Road Dust - Simplified
92109	Prescribed Burning - Simplified
92110	Sub-Bituminous Combustion - Simplified
92111	Sand & Gravel - Simplified

P_NUMBER	NAME
92112	Natural Gas Combustion - Simplified
92113	Nonroad Gasoline Exhaust - Simplified
92114	Wood Fired Boiler - Simplified
92115	Distillate Oil Combustion - Simplified
92116	Charbroiling - Simplified
92117	Residual Oil Combustion - Simplified
92118	Dairy Soil - Simplified
92119	Kraft Recovery Furnace - Simplified
92120	Mineral Products - Avg - Simplified
92121	Industrial Manufacturing - Avg - Simplified
92122	Onroad Gasoline Exhaust - Simplified
92123	Heat Treating - Simplified
92124	Chemical Manufacturing - Avg - Simplified
92125	Lignite Combustion - Simplified
92126	Solid Waste Combustion - Simplified
92127	Cement Production - Simplified
92128	Wood Products - Drying - Simplified
92129	Surface Coating - Simplified
92130	Food & Ag - Handling - Simplified
92131	Wood Products - Sawing - Simplified
92132	Aluminum Processing - Simplified
92133	Open Hearth Furnace - Simplified
92134	Brake Lining Dust - Simplified
92135	Meat Frying - Simplified
92136	Process Gas Combustion - Simplified
92137	Aluminum Production - Simplified
92138	Lime Kiln - Simplified
92139	Sintering Furnace - Simplified
92140	Charcoal Manufacturing - Simplified
92141	Catalytic Cracking - Simplified
92142	Fiberglass Manufacturing - Simplified
92143	Glass Furnace - Simplified
92144	Pulp & Paper Mills - Simplified
92145	Petroleum Industry - Avg - Simplified
92146	Slash Burning - Simplified
92147	Misc. Sources - Simplified
92148	Asphalt Roofing - Simplified
92149	Inorganic Chemical Manufacturing - Simplified
92150	Tire Dust - Simplified
92151	Ferromanganese Furnace - Simplified
92152	Wood Products - Sanding - Simplified
92153	Electric Arc Furnace - Simplified

P_NUMBER	NAME
92154	Food & Ag-Drying - Simplified
92155	Residential Coal Combustion - Simplified
92156	Residential Natural Gas Combustion - Simplified
92157	Cast Iron Cupola - Simplified
92158	Copper Processing - Simplified
92159	Asphalt Manufacturing - Simplified
92160	Fly Ash - Simplified
92161	Sandblast - Simplified
92162	LDDV Exhaust - Simplified
92163	Ammonium Nitrate Production - Simplified
92164	Limestone Dust - Simplified
92165	Phosphate Manufacturing - Simplified
92166	Gypsum Manufacturing - Simplified
92167	Urea Fertilizer - Simplified
92168	Lead Processing - Simplified
92169	Crustal Material - Simplified
92170	Copper Production - Simplified
92171	Brick Grinding and Screening - Simplified
92172	Calcium Carbide Furnace - Simplified
92173	Coke Calciner - Simplified
92174	Industrial Soil - Simplified
92175	Potato Deep Frying - Simplified
92176	Sea Salt - Simplified
92177	Sludge Combustion - Simplified
92178	Lead Production - Simplified
92179	Steel Desulfurization - Simplified
92180	Auto Body Shredding - Simplified
92181	Ammonium Sulfate Production - Simplified
92182	Inorganic Fertilizer - Simplified
92183	Boric Acid Manufacturing - Simplified
92200	Marine Vessel - Main Engine - Heavy Fuel Oil - Simplified

Each simplified profile is based on the data in either a PM-composite profile (described above) or an individual profile included in the SPECIATE 4.4 database. The NOTES field in the PM_PROFILE table in the SPECIATE 4.4 database identifies the composite or individual profile (included in the SPECIATE database) upon which each simplified profile is based. The documentation provided in the NOTES field is also provided in the DESCRIPTION field in the REFERENCE table; the DOCUMENT field in the REFERENCE table is null.

Note that OC weight percent in each PM-simplified profile corresponds only to the carbon mass, due to the Workgroup's decision. It is not corrected to account for other carbon bonded elements like nitrogen, oxygen, hydrogen, etc., since there are no universally accepted correction factors for all emission sources. Users should apply correction factors where appropriate.

N. Molecular Weights

The SPECIATE 4.4 database contains a SPECIE_PROPERTIES table that includes 2,346 unique species (both individual compounds and mixtures). Since SPECIATE 4.4 includes all profiles from SPECIATE 3.2, the molecular weights (MWs) as well as other species information are included in the SPECIATE 4.4 database. The MWs for new species are obtained from the EPA's SRS database. If the MW for a species is not available in the SRS, then internet search engines are utilized to look for a MW. If a MW cannot be identified for a species, a default average MW (i.e., 137.19 grams/mole) is assumed. This default MW is recommended by Dr. William Carter of University of California at Riverside who uses the value to process input files for air quality modeling.

O. Quality Assurance Project Plan

A "SPECIATE 4.0 Quality Management Plan/Quality Assurance Project Plan" was developed at the beginning of the SPECIATE update project, and has been updated for SPECIATE 4.4 to document changes in quality assurance/quality control responsibilities and refinements to procedures. This document is available on EPA's SPECIATE webpage (http://cfpub.epa.gov/si/speciate/ehpa_speciate_documentation.cfm.)

P. Protocol for Revising Speciation Profiles in a Published Version of the SPECIATE Database

A new and important part of the SPECIATE project is how to revise the database if a profile becomes outdated or an error is discovered in a profile's underlying data. As the Workgroup continues to add new source profiles and improve the functions and quality of the database, the Workgroup has identified source profiles with incorrect weight percent and/or compound entries. For example, there were misalignment errors discovered in lab-reported measurement data that were used for SPECIATE. Since some of those problematic profiles were used in past modeling and/or emission inventory assessments, the Workgroup recommends not changing or removing any numbers from previously published SPECIATE versions. The Workgroup's reason is that the numbers, regardless of accuracy, have been used in modeling and elsewhere and it would be impossible to change all of the published literature and unpublished decisions. The consensus recommendation is that a notation should be included in the database where profiles have changed subsequent to their original publication in SPECIATE.

Below are the changes and notes that are made to the SPECIATE database, once it's confirmed with the data sources that a profile(s) is incorrect.

1. A note indicating the errors and replacing profile numbers is added in the NOTES field in the GAS_PROFILE or PM_PROFILE tables;
2. The note is then documented in the REVISION_LIST table that records all changes made to the database; and

3. The corrected profile is added to the database and assigned the original profile number, e.g., profile number 4567, with an alpha notation like 4567a and further refinements with b, c, d, and so on.

CHAPTER V. Source Profile Preparation Methods

Chemical speciation data of air pollution sources are typically provided in one of two common formats – weight percent format or emission factor format. The methods used to prepare speciation profiles for SPECIATE depend upon the format of the speciated data as described below:

- *Weight percent format* – both CARB and DRI speciated datasets are provided in weight percent format, which only need to be augmented with profile meta data to support the new SPECIATE tables described above (i.e., keywords, documentation, analytical and sampling methods, profile quality ratings, pollution source descriptions, etc.). EPA gasoline and diesel profiles are also available in weight percent format, and therefore undergo the same processing procedures as CARB and DRI profiles, except that oxygenates (ethanol, MTBE, and TAME) are adjusted based on response factors by GC/FID (Lewis, 2004) as described in subsection H. After applying corrections, the fuels profiles are normalized to 100%;

- *Emission factor format* – EPA foliar fuels speciation data and Cass Group speciation data are available as emission factors (e.g., mg/kilogram of biomass burned, mg/kilometer traveled, and mg/kilogram of meat cooked). For each source type, emission factors of all speciated compounds and unidentified species (when available) are summed to obtain the total VOC or TOG emission factors. The individual species emission factors are then divided by the total emission factors and multiplied by 100 to convert to weight percent. The normalization bases of VOC or TOG can sometimes be measured with instruments and analytical methods that are different from those used to determine speciation. For cases when the reported VOC or TOG normalization bases are larger than the sum of speciated mass, the remaining unidentified species mass (called "Unknown") is added to the profile to generate the total VOC or TOG. Part of the discrepancy is due to the fact that different analytical methods applied in each speciation sample are more accurate for certain sets of compounds than others. Also note that, since the unidentified species are unknown, their masses are often not quantifiable. The unidentified compounds are usually unresolved mixtures with GC.

In some instances, organic compounds in PM are also speciated. These organic species are divided by PM mass, as is done for other ions and elements in PM. For PM profiles, PM-associated organic species mass is not included in the PM mass to avoid double-counting with OC (i.e., carbon atoms in each organic species are already represented in the OC fraction). After obtaining the weight fraction for each species, this value is multiplied by 100 to obtain weight percent.

After converting speciated data to weight percent, the profile information listed in the data dictionary (e.g., CAS number, keywords, documentation, analytical and sampling methods, profile quality ratings, pollution source descriptions) is added based on the information provided in the original reference(s) for each profile (e.g., peer-reviewed papers and technical reports).

Many organic species have several chemical names (e.g., methylene chloride and dichloromethane). The database has been revised to be consistent with the nomenclature used commonly within the United States (e.g., from sources such as chemfinder.com). These chemical names are consistent with those available in the EPA SRS (www.epa.gov/srs/). In addition, errors have been found for some of the CAS numbers provided in the original speciation data. Therefore, CAS numbers are checked by a program following the design of the CAS numbering system (CAS, 2004).

Limitations of SPECIATE 4.4 include the following:

1. "Unknown," "Unidentified," and "Undefined VOC" species – In SPECIATE 4.1 and earlier versions (i.e., 3.2 and 4.0), several profiles contain unspeciated mass identified as "Unknown," "Unidentified," or "Undefined VOC". In some cases, more than one of these terms appears in the same profile. Users should know that all three terms represent the mass associated with unidentified species in the profile. For SPECIATE 4.2 and later versions of SPECIATE, the Workgroup decided to use one term, "Unknown," to identify unspeciated mass in profiles. The database has been revised accordingly.

2. Use of profiles with low quality ratings – Profile quality ratings are dictated by the age or vintage of the data (V-rating) and number of samples (D-rating). For example, Profiles #4526 – 4534 are gasoline vapor profiles collected in 2004. Even though, these profiles are relatively recent and provide comprehensive coverage of species, they have an overall quality rating of "E" because they are based on one sample. Note that gasoline fuels of different grades and produced by different refineries can have a wide range of gasoline vapor compositions. For example, in the same set of profiles (#4526 – 4534), n-butane varies from 22% to 41%. Therefore, the species composition of the individual profiles can vary significantly even though samples were collected from the same area in the same month. In this case, a composite profile based on those profiles (#4526 – 4534) is recommended. Low quality rating profiles should be used with caution since the low rating often indicates source sectors for which profiles are based on a single sample.

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APPENDIX A. Summary of Profiles Included in the SPECIATE 4.4 Database

See Table A-1 on next page.

Table A-1. Summary of Organic Gas Profiles Included in the SPECIATE 4.4 Database

Profile Number	Name	Profile Type	Keyword
0000	Overall Average	G	OVERALL AVERAGE
0001	External Combustion Boiler - Residual Oil	G	BOILER; EXTERNAL COMBUSTION BOILER; RESIDUAL OIL COMBUSTION
0002	External Combustion Boiler - Distillate Oil	G	BOILER; EXTERNAL COMBUSTION BOILER; DISTILLATE OIL COMBUSTION
0003	External Combustion Boiler - Natural Gas	G	BOILER; EXTERNAL COMBUSTION BOILER; NATURAL GAS COMBUSTION
0004	External Combustion Boiler - Refinery Gas	G	BOILER; EXTERNAL COMBUSTION BOILER; REFINERY GAS COMBUSTION
0005	External Combustion Boiler - Coke Oven Gas	G	BOILER; COKE OVEN GAS; EXTERNAL COMBUSTION BOILER
0007	Natural Gas Turbine	G	NATURAL GAS COMBUSTION; TURBINE
0008	Reciprocating Diesel Engine	G	DIESEL COMBUSTION
0009	Reciprocating Distillate Oil Engine	G	DISTILLATE OIL COMBUSTION
0011	By Product Coke Oven Stack Gas	G	COKE OVEN GAS
0012	Blast Furnace Ore Charging and Agglomerate Charging	G	BLAST FURNACE; FURNACE
0013	Iron Sintering	G	IRON; IRON SINTERING
0014	Open Hearth Furnace With Oxygen Lance	G	OPEN HEARTH FURNACE; FURNACE
0016	Basic Oxygen Furnace	G	BASIC OXYGEN FURNACE; FURNACE
0023	Asphalt Roofing - Spraying	G	ASPHALT
0024	Asphalt Roofing Tar Kettle	G	TAR KETTLE; ASPHALT ROOFING; ASPHALT
0025	Asphaltic Concrete - Natural Gas Rotary Dryer	G	NATURAL GAS COMBUSTION; ROTARY DRYER; ASPHALTIC CONCRETE
0026	Asphaltic Concrete - In Place Road Asphalt	G	ASPHALT; ROAD ASPHALT; ASPHALTIC CONCRETE
0029	Refinery Fluid Catalytic Cracker	G	CATALYTIC CRACKER; PETROLEUM INDUSTRY; REFINERY; INDUSTRIAL
0031	Refinery Fugitive Emissions - Covered Drainage / Separation Pits	G	REFINERY; PETROLEUM INDUSTRY; INDUSTRIAL
0035	Refinery Fugitive Emissions - Cooling Towers	G	REFINERY; PETROLEUM INDUSTRY; INDUSTRIAL
0039	Refinery Fugitive Emissions - Compressor Seals - Refinery Gas	G	REFINERY; PETROLEUM INDUSTRY; INDUSTRIAL
0047	Refinery Fugitive Emissions - Relief Valves - Liquified Petroleum Gas	G	PETROLEUM INDUSTRY; REFINERY; INDUSTRIAL
0051	Flares - Natural Gas	G	FLARES; NATURAL GAS COMBUSTION
0066	Varnish Manufacturing - Bodying Oil	G	BODYING OIL; VARNISH; COATING
0068	Manufacturing - Plastics - Polypropylene	G	PLASTICS; POLYPROPYLENE
0072	Printing Ink - Cooking	G	INK; GRAPHIC ARTS; COATING
0076	General Pesticides	G	PESTICIDES

Profile Number	Name	Profile Type	Keyword
0078	Ethylene Dichloride - Direct Chlorination	G	CHLORINATION; ETHYLENE DICHLORIDE
0079	Chemical Manufacturing - Flares	G	CHEMICAL MANUFACTURING; FLARES
0085	Perchloroethylene - Dry Cleaning	G	DRYCLEANING; PERCHLOROETHYLENE
0087	Degreasing - 1,1,1-Trichloroethane	G	DEGREASING; TRICHLOROETHANE
0088	Degreasing - Trichlorofluoromethane (Freon 11)	G	DEGREASING; FREON; TRICHLOROFLUOROMETHANE
0089	Degreasing - 1,1,2-Trichloroethane	G	DEGREASING; TRICHLOROETHANE
0090	Degreasing - Toluene	G	DEGREASING; TOLUENE
0100	Fixed Roof Tank - Commercial Jet Fuel (Jet A)	G	JET FUEL
0121	Open Burning Dump - Landscape/Pruning	G	OPEN BURNING; WOOD COMBUSTION
0122	Bar Screen Waste Incinerator	G	INCINERATOR
0127	Surface Coating - Varnish/Shellac	G	COATING; VARNISH/SHELLAC
0166	Printing Press - Letterpress Inking Process	G	INK; LETTERPRESS; PRINTING PRESS; PRINTING; GRAPHIC ARTS
0182	Printing Press - Gravure General Solvent	G	GRAPHIC ARTS; GRAVURE; PRINTING PRESS; PRINTING; SOLVENT
0183	Printing Press - Gravure Printing Solvent	G	GRAVURE; PRINTING PRESS; PRINTING; SOLVENT; GRAPHIC ARTS
0195	Residential Fuel - Natural Gas	G	NATURAL GAS COMBUSTION; RESIDENTIAL
0197	Solvent Use - Domestic Solvents	G	SOLVENT; CONSUMER PRODUCTS
0202	Solid Waste Landfill Site - Class II	G	LANDFILL; SOLID WASTE
0203	Solid Waste - Animal Waste Decomposition	G	ANIMAL WASTE; SOLID WASTE
0217	Coke Oven Blast Furnace Gas	G	COKE OVEN GAS; BLAST FURNACE; FURNACE
0219	Surface Coating Paint Solvent - Acetone	G	ACETONE; COATING; PAINT; SOLVENT
0220	Paint Solvent - Ethyl Acetate	G	ETHYL ACETATE; COATING; PAINT; SOLVENT
0221	Paint Solvent - Methyl Ethyl Ketone	G	MEK; METHYL ETHYL KETONE; PAINT; SOLVENT; COATING
0222	Surface Coating - Enamel Cellosolve Acetate	G	ENAMEL; COATING; CELLOSOLVE ACETATE
0223	Surface Coating - Varnish/Shellac Solvent - Xylene	G	COATING; SOLVENT; VARNISH/SHELLAC; XYLENE
0225	Surface Coating - Primer - Mineral Spirits	G	COATING; MINERAL SPIRITS; PRIMER
0226	Surface Coating Solvent - Ethyl Alcohol	G	ETHYL ALCOHOL; COATING; SOLVENT
0227	Surface Coating Solvent - Isopropyl Alcohol	G	COATING; ISOPROPYL ALCOHOL; SOLVENT
0228	Surface Coating Solvent - Isopropyl Acetate	G	COATING; ISOPROPYL ACETATE; SOLVENT
0229	Surface Coating Solvent - Lactol Spirits	G	COATING; LACTOL SPIRITS; SOLVENT

Profile Number	Name	Profile Type	Keyword
0230	Fixed Roof Tank - Hexane	G	HEXANE
0271	Degreasing - Trichloroethylene	G	DEGREASING; TRICHLOROETHYLENE
0272	Automotive Tires - Tuber Adhesive	G	ADHESIVE; TIRE
0273	Automotive Tires - Tuber Adhesive White Sidewall	G	ADHESIVE; TIRE
0274	Automobile Tire Production	G	TIRE
0275	Degreasing - Dichloromethane	G	DEGREASING; DICHLOROMETHANE
0277	Degreasing - Trichlorotrifluoroethane (Freon 113)	G	DEGREASING; FREON; TRICHLOROTRIFLUOROETHANE
0282	Surface Coating Primer - Naptha	G	COATING; NAPTHA; PRIMER
0288	Surface Coating Solvent - Butyl Acetate	G	BUTYL ACETATE; COATING; SOLVENT
0289	Surface Coating Solvent - Butyl Alcohol	G	BUTYL ALCOHOL; COATING; SOLVENT
0290	Surface Coating Solvent - Cellosolve	G	CELLOSOLVE; COATING; SOLVENT
0291	Surface Coating Solvent - Methyl Alcohol	G	COATING; METHANOL; SOLVENT
0292	Surface Coating Solvent - Dimethylformamide	G	COATING; DIMETHYLFORMAMIDE; SOLVENT; SURFACE COATING
0296	Fixed Roof Tank - Crude Oil Production	G	CRUDE OIL; PETROLEUM INDUSTRY; REFINERY; INDUSTRIAL
0297	Fixed Roof Tank - Crude Oil Refinery	G	CRUDE OIL; PETROLEUM INDUSTRY; REFINERY; INDUSTRIAL
0299	Fixed Roof Tank - Cyclohexane	G	CYCLOHEXANE
0301	Fixed Roof Tank - Heptane	G	HEPTANE
0304	Printing Press - Flexographic, N-Propyl Alcohol	G	FLEXOGRAPHIC; PRINTING PRESS; PRINTING; PROPYL ALCOHOL; GRAPHIC ARTS
0305	Fixed Roof Tank - Crude Oil Marine Terminal	G	CRUDE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
0307	Miscellaneous Burning - Forest Fires	G	FOREST FIRES; WOOD COMBUSTION
0316	Pipe/Valve Flanges	G	EQUIPMENT LEAKS; LEAKS
0321	Pump Seals - Composite	G	EQUIPMENT LEAKS; LEAKS
0332	Printing Press - Lithography Inking and Drying	G	INK; LITHOGRAPHY; PRINTING PRESS; PRINTING; GRAPHIC ARTS
0333	Lithography - Inking and Drying-Direct Fired Dryer	G	INK; LITHOGRAPHY; PRINTING; GRAPHIC ARTS
1001	Internal Combustion Engine - Natural Gas	G	NATURAL GAS COMBUSTION
1002	Chemical Manufacturing - Carbon Black Production	G	CARBON BLACK; CHEMICAL MANUFACTURING
1003	Surface Coating Operations - Coating Application -Solvent-Base Paint	G	COATING; PAINT
1004	Plastics Production - Polystyrene	G	POLYSTYRENE; PLASTICS
1005	Plastics Production - Polyester Resins	G	POLYESTER RESIN; PLASTICS

Profile Number	Name	Profile Type	Keyword
1006	Phthalic Anhydride - O-Xylene Oxidation - Main Process Stream	G	PHTHALIC ANHYDRIDE; XYLENE
1007	Mineral Products - Asphaltic Concrete	G	MINERAL PRODUCTS; ASPHALTIC CONCRETE; ASPHALT
1008	Rubber and Miscellaneous Plastics Products - Fabricated Rubber Products - Styrene/Butadiene, Rubber	G	RUBBER; STYRENE/BUTADIENE; PLASTICS
1009	Plastics Production - Acrylonitrile-Butadiene-Styrene Resin	G	ACRYLONITRILE BUTADIENE STYREN; PLASTICS
1010	Oil and Gas Production - Fugitives - Unclassified	G	PETROLEUM INDUSTRY; INDUSTRIAL
1011	Oil and Gas Production - Fugitives - Valves and Fittings - Liquid Service	G	PETROLEUM INDUSTRY; INDUSTRIAL
1012	Oil and Gas Production - Fugitives - Valves and Fittings - Gas Service	G	INDUSTRIAL; PETROLEUM INDUSTRY
1013	Surface Coating Operations - Coating Application - Water-Base Paint	G	COATING; PAINT
1014	Gasoline - Summer Blend	G	GASOLINE; GASOLINE - SUMMER
1015	Gasoline - Winter Blend	G	GASOLINE; GASOLINE - WINTER
1016	Surface Coating Operations - Thinning Solvents - Composite	G	COATING; SOLVENT
1017	Surface Coating Operations - Coating Application - Lacquer	G	COATING; LACQUER
1018	Surface Coating Operations - Coating Application - Enamel	G	ENAMEL; COATING
1019	Surface Coating Operations - Coating Application - Primer	G	COATING; PRIMER
1020	Surface Coating Operations - Coating Application - Adhesives	G	ADHESIVE; COATING
1021	Degreasing - Open Top - Chlorosolve	G	CHLOROSOLVE; DEGREASING
1022	Printing/Publishing - Ink Thinning Solvents - Methyl Isobutyl Ketone	G	INK; GRAPHIC ARTS; METHYL ISOBUTYL KETONE; PRINTING; SOLVENT
1023	Terephthalic Acid/Dimethyl Terephthalate Crystallization, Separation and Drying Vent	G	TEREPHTHALIC ACID; DIMETHYL TEREPHTHALATE
1024	Terephthalic Acid/Dimethyl Terephthalate Distillation and Recovery Vent	G	TEREPHTHALIC ACID; DIMETHYL TEREPHTHALATE
1025	Terephthalic Acid/Dimethyl Terephthalate Product Transfer Vent	G	TEREPHTHALIC ACID; DIMETHYL TEREPHTHALATE
1026	Surface Coating Operations - Thinning Solvent - Hexylene Glycol	G	COATING; HEXYLENE GLYCOL; SOLVENT
1027	Ketone Production - Methyl Ethyl Ketone (MEK)	G	KETONES; MEK; METHYL ETHYL KETONE
1028	Acetone - Light Ends Distillation Vent	G	ACETONE
1029	Acetone - Acetone Finishing Column	G	ACETONE
1030	Aldehydes Production - Formaldehyde - Absorber Vent	G	ALDEHYDES; FORMALDEHYDE
1031	Surface Coating Operations - Thinning Solvent - Ethylene Oxide	G	COATING; ETHYLENE OXIDE; SOLVENT
1032	Aldehydes Production - Acrolein - Distillation System	G	ACROLEIN; ALDEHYDES
1033	Aldehydes Production - Acrolein - Reactor Blowoff Gas	G	ACROLEIN; ALDEHYDES
1034	Chloroprene - Butadiene Dryer	G	CHLOROPRENE; BUTADIENE; CHEMICAL MANUFACTURING

Profile Number	Name	Profile Type	Keyword
1035	Chloroprene - Chloroprene Stripper and Brine Stripper	G	CHLOROPRENE; CHEMICAL MANUFACTURING
1036	Secondary Aluminum - Pouring and Casting	G	ALUMINUM; SECONDARY ALUMINUM; METALLURGICAL PROCESS
1037	Organohalogens - Ethylene Dichloride - Ethylene Dichloride Via Direct Chlorination - Distillation Vents	G	DIRECT CHLORINATION; ETHYLENE DICHLORIDE; ORGANOHALOGENS; CHEMICAL MANUFACTURING
1038	Organohalogens Production - Ethylene Dichloride - Ethylene Dichloride Via Oxychlorination	G	ETHYLENE DICHLORIDE; ORGANOHALOGENS; OXYCHLORINATION; CHEMICAL MANUFACTURING
1039	Organohalogens Production - Ethylene Dichloride - Caustic Scrubber	G	ETHYLENE DICHLORIDE; ORGANOHALOGENS; CHEMICAL MANUFACTURING
1040	Fluorocarbons/Chlorofluorocarbons - General	G	CHLOROFLUOROCARBONS; FLUOROCARBON; CHEMICAL MANUFACTURING
1041	Fluorocarbons/Chlorofluorocarbons - Distillation Column	G	CHLOROFLUOROCARBONS; FLUOROCARBON; CHEMICAL MANUFACTURING
1042	Fluorocarbons/Chlorofluorocarbons - Fugitive Emissions - General	G	CHLOROFLUOROCARBONS; FLUOROCARBON; CHEMICAL MANUFACTURING
1043	Acrylic Acid - Quench Absorber	G	CHEMICAL MANUFACTURING; ACRYLIC ACID
1044	Organic Acids Production - Formic Acid	G	FORMIC ACID; ORGANIC ACIDS; CHEMICAL MANUFACTURING
1045	Organic Acids Production - Acetic Anhydride - Distillation Column Vent	G	ACETIC ANHYDRIDE; CHEMICAL MANUFACTURING; ORGANIC ACIDS
1046	Esters Production - Acrylates - Ethyl Acrylate	G	ESTERS; ETHYL ACRYLATE; CHEMICAL MANUFACTURING
1047	Esters Production - Butyl Acrylate	G	BUTYL ACRYLATE; ESTERS; CHEMICAL MANUFACTURING
1048	Cumene Production - Cumene Distillation System Vent	G	CUMENE; CHEMICAL MANUFACTURING
1049	Cyclohexane - General	G	CYCLOHEXANE; CHEMICAL MANUFACTURING
1050	Cyclohexanone/Cyclohexanol - Phenol Hydrogenation Process - Distillation Vent	G	CYCLOHEXANOL; CYCLOHEXANONE; PHENOL HYDROGENATION; CHEMICAL MANUFACTURING
1051	Vinyl Acetate - Inert Gas Purge Vent	G	CHEMICAL MANUFACTURING; VINYL ACETATE
1052	Vinyl Acetate - CO2 Purge Vent	G	CHEMICAL MANUFACTURING; VINYL ACETATE
1053	Vinyl Acetate - Inhibitor Mix Tank Discharge	G	VINYL ACETATE; CHEMICAL MANUFACTURING
1054	Vinyl Acetate - Refining Column Vent	G	CHEMICAL MANUFACTURING; VINYL ACETATE
1055	Organic Chemical Storage - Methylamyl Ketone	G	METHYLAMYL KETONE
1056	Ethylene Oxide - Oxygen Oxidation Process Reactor - CO2 Purge Vent	G	ETHYLENE OXIDE; CHEMICAL MANUFACTURING
1057	Ethylene Oxide - Oxygen Oxidation Process Reactor - Argon Purge Vent	G	ETHYLENE OXIDE; CHEMICAL MANUFACTURING
1058	Ethylene Oxide - Stripper Purge Vent	G	ETHYLENE OXIDE; CHEMICAL MANUFACTURING
1059	Methyl Methacrylate (MMA) - Hydrolysis Reactor, MMA and Light Ends Distillation Unit	G	CHEMICAL MANUFACTURING; HYDROLYSIS; METHYL METHACRYLATE; MMA
1060	Methyl Methacrylate (MMA) - Acid Distillation and MMA Purification	G	METHYL METHACRYLATE; MMA; CHEMICAL MANUFACTURING
1061	Nitrobenzene - Reactor and Separator Vent - Washer and Neutralizer Vent	G	NITROBENZENE; CHEMICAL MANUFACTURING
1062	Benzene	G	BENZENE; CHEMICAL MANUFACTURING

Profile Number	Name	Profile Type	Keyword
1064	Olefins Production - Ethylene - Compressor Lube Oil Vent	G	CHEMICAL MANUFACTURING; ETHYLENE; OLEFINS
1065	Propylene Oxide - Chlorohydronation Process - General	G	CHLOROHYDRONATION; CHEMICAL MANUFACTURING; PROPYLENE OXIDE
1066	Styrene - General	G	STYRENE
1067	Styrene - Benzene Recycle	G	BENZENE; STYRENE; CHEMICAL MANUFACTURING
1068	Styrene - Styrene Purification	G	STYRENE; CHEMICAL MANUFACTURING
1069	Organic Chemical Storage - N-Propyl Acetate	G	CHEMICAL MANUFACTURING; PROPYL ACETATE
1070	Alcohols Production - Methanol - Purge Gas Vent	G	ALCOHOLS; METHANOL; CHEMICAL MANUFACTURING
1071	Alcohols Production - Methanol - Distillation Vent	G	ALCOHOLS; METHANOL; CHEMICAL MANUFACTURING
1072	Chlorobenzene - Tail Gas Scrubber	G	CHLOROBENZENE; CHEMICAL MANUFACTURING
1073	Chlorobenzene - Benzene Drying Distillation	G	CHLOROBENZENE; CHEMICAL MANUFACTURING; BENZENE
1074	Monochlorobenzene	G	CHLOROBENZENE; CHEMICAL MANUFACTURING
1075	Chlorobenzene - Vacuum System Vent	G	CHLOROBENZENE; CHEMICAL MANUFACTURING
1076	Chlorobenzene - Dichlorobenzene Crystallization	G	CHLOROBENZENE; DICHLOROBENZENE; CHEMICAL MANUFACTURING
1077	Chlorobenzene - Dichlorobenzene Crystal Handling / Loading	G	CHLOROBENZENE; CHEMICAL MANUFACTURING; DICHLOROBENZENE
1078	Railcar Cleaning - Low Vapor Pressure, High Viscosity Cargo (Ethylene Glycol)	G	ETHYLENE GLYCOL; RAILCAR CLEANING
1079	Rail Car Cleaning - Low Vapor Pressure, Medium Viscosity Cargo (O-Dichlorobenzene)	G	DICHLOROBENZENE; RAILCAR CLEANING
1080	Rail Car Cleaning - Low Vapor Pressure, High Viscosity Cargo (Creosote)	G	CREOSOTE; RAILCAR CLEANING
1081	Tank Truck Cleaning - Medium Vapor Pressure, Medium Viscosity Cargo (Methyl Methacrylate)	G	TANK TRUCK CLEANING; METHYL METHACRYLATE; MMA
1082	Tank Truck Cleaning - Low Vapor Pressure, Low Viscosity Cargo (Phenol)	G	PHENOL; TANK TRUCK CLEANING
1083	Tank Truck Cleaning - Low Vapor Pressure, High Viscosity Cargo (Propylene Glycol)	G	PROPYLENE GLYCOL; TANK TRUCK CLEANING
1084	Residential Wood Combustion (C-1 - C-6)	G	WOOD COMBUSTION; RESIDENTIAL
1085	External Combustion Boiler - Coal-Slurry Fired	G	BOILER; EXTERNAL COMBUSTION BOILER; COAL COMBUSTION
1086	Printing/Flexographic	G	FLEXOGRAPHIC; PRINTING; GRAPHIC ARTS
1087	Organic Chemical Storage - i-Butyl, i-Butyrate	G	BUTYRATE; BUTYL
1088	Surface Coating Operations - Adhesive Application	G	ADHESIVE; COATING
1089	Secondary Metal Production - Gray Iron Foundries - Pouring/Casting	G	FOUNDRIES; GRAY IRON; IRON; METALLURGICAL PROCESS; SECONDARY METAL
1090	Fluorocarbon Manufacturing - CF 12/11	G	FLUOROCARBON; CHEMICAL MANUFACTURING; CHLOROFLUOROCARBONS
1091	Plastics Production - Polyvinyl Chlorides and Copolymers	G	POLYVINYL CHLORIDES; PLASTICS

Profile Number	Name	Profile Type	Keyword
1092	Synthetic Organic Fiber Production - Nylon Batch Production Process	G	ORGANIC FIBER; SYNTHETIC ORGANIC FIBER; NYLON
1093	Fluorocarbon Manufacturing - CF 23/22	G	FLUOROCARBON; CHLOROFLUOROCARBONS
1094	Paint Manufacture - Blending Kettle	G	COATING; PAINT
1095	Textile Products - General Fabric Operations - Dyeing and Curing	G	DYEING AND CURING; TEXTILE
1096	Textile Products - General Fabric Operations - Tenter Frame	G	TENTER FRAME; TEXTILE
1097	Aircraft Landing/Takeoff (LTO) - Military	G	AIRCRAFT; LANDING/TAKEOFF; LTO
1098	Aircraft Landing/Takeoff (LTO) - Commercial	G	AIRCRAFT; LANDING/TAKEOFF; LTO
1099	Aircraft Landing/Takeoff (LTO) - General Aviation	G	AIRCRAFT; LANDING/TAKEOFF; LTO
1100	Refueling	G	REFUELING; GASOLINE; GASOLINE MARKETING
1101	Light Duty Gasoline Vehicles - 46 Car Study	G	GASOLINE COMBUSTION; VEHICLES
1103	1-Pentene	G	PENTENE
1104	Acetaldehyde	G	ACETALDEHYDE
1105	Acetic Acid	G	ACETIC ACID
1106	Acetic Anhydride	G	ACETIC ANHYDRIDE
1107	Acrolein	G	ACROLEIN
1108	Acrylic Acid	G	ACRYLIC ACID
1109	Acrylonitrile	G	ACRYLONITRILE
1110	Adipic Acid	G	ADIPIC ACID
1111	Aniline	G	ANILINE
1112	Benzyl Chloride	G	BENZYL CHLORIDE
1114	Butyl Acrylate	G	BUTYL ACRYLATE
1115	Butyl Carbitol	G	BUTYL CARBITOL
1116	Butyl Cellosolve	G	BUTYL CELLOSOLVE
1118	Carbitol	G	CARBITOL
1119	Carbon Tetrachloride	G	CARBON TETRACHLORIDE
1120	Acetylene	G	ACETYLENE
1121	Chloroform	G	CHLOROFORM
1122	Cresol	G	CRESOL
1123	Cumene	G	CUMENE

Profile Number	Name	Profile Type	Keyword
1124	Cyclohexanol	G	CYCLOHEXANOL
1125	Cyclohexanone	G	CYCLOHEXANONE
1126	Cyclopentene	G	CYCLOPENTENE
1127	Diethylene Glycol	G	DIETHYLENE GLYCOL
1128	Diisopropyl Benzene	G	DIISOPROPYL BENZENE
1129	Dipropylene Glycol	G	DIPROPYLENE GLYCOL
1130	Dodecene	G	DODECENE
1131	Epichlorohydrin	G	EPICHLOROHYDRIN
1132	Ethanolamines	G	ETHANOLAMINES
1134	Ethyl Acrylate	G	ETHYL ACRYLATE
1135	Ethyl Benzene	G	ETHYL BENZENE
1136	Ethyl Ether	G	ETHYL ETHER
1137	Ethyl Mercaptan	G	ETHYL MERCAPTAN
1138	Ethylene Dibromide	G	ETHYLENE DIBROMIDE
1139	Ethyleneamines	G	ETHYLENEAMINES
1140	Formaldehyde	G	FORMALDEHYDE
1141	Formic Acid	G	FORMIC ACID
1142	Furfural	G	FURFURAL
1144	Heptenes	G	HEPTENES
1145	Isobutyrldehyde	G	ISOBUTYRLDEHYDE
1146	Isobutyl Acrylate	G	ISOBUTYL ACETATE
1147	Isobutyl Alcohol	G	ISOBUTYL ALCOHOL
1148	Isoprene	G	ISOPRENE
1149	Methanol	G	METHANOL
1150	Methyl Acetate	G	METHYL ACETATE
1151	Methyl Acrylate	G	METHYL ACRYLATE
1152	Methyl Carbitol	G	METHYL CARBITOL
1153	Methyl Cellosolve	G	METHYL CELLOSOLVE
1154	Methyl Styrene	G	METHYL STYRENE

Profile Number	Name	Profile Type	Keyword
1155	Methylallene	G	METHYLALLENE
1158	Methyl T-Butyl Ether	G	METHYL T-BUTYL ETHER
1159	m-Xylene	G	XYLENE
1160	Nitrobenzene	G	NITROBENZENE
1162	n-Butraldehyde	G	BUTRALDEHYDE
1163	n-Decane	G	DECANE
1164	n-Dodecane	G	DODECANE
1165	o-Xylene	G	XYLENE
1166	Pentadecane	G	PENTADECANE
1167	Residential Wood Combustion	G	RESIDENTIAL; WOOD COMBUSTION
1168	Piperylene	G	PIPERYLENE
1171	Propionaldehyde	G	PROPIONALDEHYDE
1172	Propionic Acid	G	PROPIONIC ACID
1173	Propylene Oxide	G	PROPYLENE OXIDE
1174	p-Xylene	G	XYLENE
1175	Tert- Butyl Alcohol	G	BUTYL ALCOHOL
1176	Toluene Diisocyanate	G	TOLUENE DIISOCYANATE
1178	Coal-Fired Boiler - Electric Generation	G	BOILER; ELECTRIC GENERATION; UTILITY; COAL COMBUSTION
1185	Coal-Fired Boiler - Industrial	G	BOILER; INDUSTRIAL; COAL COMBUSTION
1186	Heavy Duty Gasoline Trucks	G	GASOLINE COMBUSTION; VEHICLES
1187	Citrus Coating	G	CITRUS COATING; COATING
1188	Fermentation Processes	G	FERMENTATION
1189	Pulp and Paper Industry - Plywood Veneer Dryer	G	PULP AND PAPER; PLYWOOD; INDUSTRIAL
1190	Gasoline Marketed - Summer Blend - 1984	G	GASOLINE; GASOLINE MARKETING
1191	Graphic Arts - (Printing)	G	GRAPHIC ARTS; PRINTING
1192	Degreasing	G	DEGREASING
1193	Dry cleaning	G	DRYCLEANING
1194	Autobody Repair	G	AUTOBODY REPAIR; COATING
1195	Degreasing - Composite	G	DEGREASING

Profile Number	Name	Profile Type	Keyword
1196	Drycleaning - Composite	G	DRYCLEANING
1197	Isooctane	G	ISOOCTANE
1198	Pentane	G	PENTANE
1199	Isopentane	G	ISOPENTANE
1200	Cyclopentane	G	CYCLOPENTANE
1201	Light-Duty Diesel Vehicles	G	DIESEL COMBUSTION; VEHICLES
1202	Primary Aluminum Production	G	ALUMINUM; PRIMARY ALUMINUM; METALLURGICAL PROCESS
1203	Light-Duty Gasoline Vehicles - Exhaust	G	GASOLINE COMBUSTION; VEHICLES
1204	Light-Duty Gasoline Vehicles - Evaporative	G	GASOLINE; VEHICLES; GASOLINE EVAPORATIVE
1205	Crude Oil Production - Well Heads (Water Flood)	G	INDUSTRIAL; CRUDE OIL; PETROLEUM INDUSTRY
1206	Crude Oil Production - Well Heads (Water Flood)	G	CRUDE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
1207	Well Heads (Water Flood) Composite	G	PETROLEUM INDUSTRY; CRUDE OIL; INDUSTRIAL
1208	Crude Oil Production - Gathering Tanks	G	CRUDE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
1209	Oilfield Pipeline Tanks	G	CRUDE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
1210	Pipeline Terminal Tanks	G	CRUDE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
1211	Refinery Crude Oil Storage Tanks	G	REFINERY; CRUDE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
1212	Crude Oil Production - Well Heads (Gas Drive)	G	INDUSTRIAL; CRUDE OIL; PETROLEUM INDUSTRY
1213	Composite of 6 Engines Burning JP-4 Fuel at 100 % Power	G	JET FUEL; JP-4; AIRCRAFT
1214	Composite of 6 Engines Burning JP-4 Fuel at 75 % Power	G	AIRCRAFT; JET FUEL; JP-4
1215	Composite of 6 Engines Burning JP-4 Fuel at 30 % Power	G	JET FUEL; AIRCRAFT; JP-4
1216	Composite of 6 Engines Burning JP-4 Fuel Across All Powers	G	JET FUEL; AIRCRAFT; JP-4
1217	Composite of 6 Engines Burning JP-4 Fuel at Idle Power	G	JET FUEL; JP-4; AIRCRAFT
1218	Composite - TF-39 Engine Burning JP-5 Fuel Across All Powers	G	JET FUEL; AIRCRAFT; JP-5
1219	Composite - CTM-56 Engine Burning JP-5 Fuel Across All Powers	G	JET FUEL; AIRCRAFT; JP-5
1220	Composite - J79 Engine Burning JP-4 Fuel Across All Powers	G	JET FUEL; AIRCRAFT; JP-4
1221	Composite - TF33-P3 Engine Burning JP-4 Fuel Across Powers	G	JET FUEL; AIRCRAFT; JP-4
1222	Composite - TF33-P7 Engine Burning JP-4 Fuel Across Power	G	JET FUEL; AIRCRAFT; JP-4
1223	Composite - J79 Engine Burning JP-4 Fuel Across Powers	G	JET FUEL; AIRCRAFT; JP-4
1224	Composite - CFM-56 Engine Burning 3 Fuels at Idle Power	G	JET FUEL; AIRCRAFT

Profile Number	Name	Profile Type	Keyword
1225	Composite - TF-39 Engine Burning 3 Fuels at Idle Power	G	JET FUEL; AIRCRAFT
1226	Composite - CFM-56 Engine Burning 3 Fuels Across All Powers	G	JET FUEL; AIRCRAFT
1227	Composite - TF-39 Engine Burning 3 Fuels Across All Powers	G	JET FUEL; AIRCRAFT
1301	10% Ethanol Composite (Hot Soak + Diurnal) Evaporative	G	ETHANOL; GASOLINE; ETHANOL GASOLINE; VEHICLES; GASOLINE EVAPORATIVE
1302	10% Ethanol Diurnal	G	ETHANOL; GASOLINE; ETHANOL GASOLINE; VEHICLES; DIURNAL
1303	10% Ethanol Hot Soak	G	ETHANOL; GASOLINE; HOT SOAK; ETHANOL GASOLINE; VEHICLES
1304	10% Ethanol Running Loss	G	ETHANOL; GASOLINE; ETHANOL GASOLINE; RUNNING LOSS; VEHICLES
1305	Industry Average (circa 1990) Gasoline Composite (Hot Soak + Diurnal) Evaporative	G	GASOLINE; VEHICLES; GASOLINE EVAPORATIVE; HOT SOAK; DIURNAL
1306	Industry Average (circa 1990) Gasoline Diurnal	G	GASOLINE; VEHICLES; DIURNAL
1307	Industry Average (circa 1990) Gasoline Hot Soak	G	HOT SOAK; VEHICLES; GASOLINE
1308	Industry Average (circa 1990) Gasoline Running Loss	G	VEHICLES; GASOLINE; RUNNING LOSS
1309	11% MTBE Composite (Hot Soak + Diurnal) Evaporative	G	MTBE GASOLINE; VEHICLES; GASOLINE; MTBE; GASOLINE EVAPORATIVE
1310	11% MTBE Diurnal	G	MTBE GASOLINE; DIURNAL; GASOLINE; VEHICLES; MTBE
1311	11% MTBE Hot Soak	G	MTBE GASOLINE; HOT SOAK; VEHICLES; GASOLINE; MTBE
1312	11% MTBE Running Loss	G	MTBE GASOLINE; RUNNING LOSS; VEHICLES; MTBE
1313	Industry Average (circa 1990) Gasoline Exhaust	G	VEHICLES; VEHICLE FUEL COMBUSTION
1314	10% Ethanol Exhaust	G	ETHANOL; ETHANOL GASOLINE; VEHICLES; GASOLINE COMBUSTION
1315	11% MTBE Exhaust	G	MTBE GASOLINE; GASOLINE; VEHICLES; MTBE
2401	Architectural Surface Coating	G	ARCHITECTURAL COATING; COATING
2402	Auto Refinishing	G	AUTOMOBILE REFINISHING; COATING
2403	Traffic Markings	G	TRAFFIC PAINT; COATING
2404	Flat Wood Coating	G	COATING
2405	Wood Furniture Coating	G	COATING
2406	Metal Furniture Coating	G	COATING
2407	Paper, Foil, Film Coating	G	COATING
2408	Can Coating	G	COATING
2409	Coil Coating	G	COATING
2410	Electrical Insulation Coating	G	COATING
2411	Appliances Coating	G	COATING

Profile Number	Name	Profile Type	Keyword
2412	Machinery Coating	G	COATING
2413	New Motor Vehicles Coating	G	COATING
2414	Aircraft Coating	G	COATING
2415	Marine Paints	G	MARINE PAINT; PAINT; COATING
2416	Rail Equipment Coating	G	COATING
2417	Misc. Manufacturing Coatings	G	COATING
2418	Industrial Maintenance Coatings	G	COATING
2419	Aerosols, Special Purpose	G	COATING
2420	Degreasing - All Processes/All Industries	G	DEGREASING
2421	Coin-op Drycleaners/All Solvents	G	DRYCLEANING
2422	Commercial/Industrial Dry Cleaners	G	DRYCLEANING
2423	Industrial Adhesives	G	ADHESIVE
2424	Graphic Arts Coatings	G	GRAPHIC ARTS; COATING
2425	Surface Coatings - General	G	COATING
2431	Clear Wood Finishes - 1996	G	COATING
2432	Graphic Arts Coatings - 1996	G	GRAPHIC ARTS; COATING
2433	Solvent-based Industrial Maintenance Coatings - 1996	G	COATING
2434	Solvent-based Medium Gloss/High Gloss - 1996	G	COATING
2435	Quick-dry Primers and Enamels - 1996	G	COATING; PRIMER; ENAMEL
2436	Solvent-based Primers and Sealers - 1996	G	PRIMER; SEALER; COATING
2437	Semi-transparent Stains - 1996	G	STAIN; COATING
2438	Traffic Paint - 1996	G	TRAFFIC PAINT; PAINT; COATING
2439	Thinning Solvent - 1996	G	SOLVENT
2440	Varnishes - 1996	G	VARNISH; COATING
2441	Commercial Natural Gas from Los Angeles - 1972/1973	G	NATURAL GAS
2442	Natural gas, Juarez - 1996	G	NATURAL GAS
2443	Geogenic Natural Gas from Los Angeles, 1972/1973	G	NATURAL GAS; GEOGENIC
2444	LPG from Super Energy Propane & Westex Conversion - 1996	G	LPG
2445	LPG from Servigas & Commercial de Juarez - 1996	G	LPG

Profile Number	Name	Profile Type	Keyword
2446	Composite Gasoline Liquid from Boston, Summer 1995 Fed Phase 1 RFG	G	GASOLINE; PHASE 1 RFG; GASOLINE LIQUID
2447	Composite Gasoline Liquid from Los Angeles, Summer 1995 Fed Phase 1 RFG	G	GASOLINE; PHASE 1 RFG; GASOLINE LIQUID
2448	Composite Gasoline Liquid, El Paso - 1996	G	GASOLINE; GASOLINE LIQUID
2449	Composite Liquid Gasoline Seattle (5 brands, 3 grades), Conventional - 1997	G	GASOLINE; GASOLINE LIQUID
2450	Composite Gasoline Vapor from Boston, Summer 1995, Fed Phase 1 RFG	G	GASOLINE VAPOR; PHASE 1 RFG; GASOLINE
2451	Gasoline Vapor, Hot-Soak, Downwind Sample from the Astrodome - 1996	G	GASOLINE VAPOR; GASOLINE; HOT SOAK
2452	Gasoline Vapor, Hot-Soak, Downwind-Upwind Sample from the Astrodome - 1996	G	GASOLINE; GASOLINE VAPOR; HOT SOAK
2453	Composite of 14 Gasoline Headspace Vapor Samples - 1996	G	GASOLINE HEADSPACE; GASOLINE; GASOLINE VAPOR
2454	Composite Gasoline Vapor from Los Angeles, Summer 1995	G	GASOLINE; GASOLINE VAPOR
2455	Composite Gasoline Vapor from Seattle (5 brands, 3 grades) - 1997	G	GASOLINE VAPOR; GASOLINE
2456	Composite of 5 Emission Profiles from Miscellaneous Industrial Plants	G	INDUSTRIAL
2457	Composite of 10 Emission Profiles - Misc. Chemical and Refining Plants in Houston - 1993	G	CHEMICAL MANUFACTURING; REFINERY; INDUSTRIAL
2458	Refinery - Chevron FCC - August 6-17, 1996	G	REFINERY; INDUSTRIAL
2459	Refinery - Chevron South - August 6-17, 1996	G	REFINERY; INDUSTRIAL
2460	Refinery - Chevron TankFarm (Evaporative) - August 6-17, 1996	G	REFINERY; INDUSTRIAL
2461	Composite of 6 Emission Profiles from Ethylene Production Facilities	G	ETHYLENE; CHEMICAL MANUFACTURING
2462	Composite of 3 Fugitive Emission Profiles from Chemical Mfg. Facilities	G	CHEMICAL MANUFACTURING
2463	Miscellaneous Industrial Emission Profile - Delmex - August 6-17, 1996	G	INDUSTRIAL
2464	Industrial Point Source, Amerada Hess, Principle Business: Special Warehousing - 1993	G	INDUSTRIAL
2465	Industrial Point Source, Lyondell Citgo Refining, Principle Business: Petroleum Refining - 1993	G	INDUSTRIAL; REFINERY; PETROLEUM INDUSTRY
2466	Industrial Point Source, Fabricated Metal Products - 1993	G	INDUSTRIAL; FABRICATED METAL
2467	Industrial Point Source, Phibro Energy, Principle Business: Petroleum Refining - 1993	G	INDUSTRIAL; REFINERY; PETROLEUM INDUSTRY
2468	Industrial Point Source, Crown Central Petroleum, Principle Business: Bulk Fuel Storage - 1993	G	INDUSTRIAL; REFINERY; PETROLEUM INDUSTRY
2469	Industrial Point Source, Miles Incorporated, Principle Business: Synthetic Rubber - 1993	G	INDUSTRIAL; SYNTHETIC RUBBER
2470	Industrial Point Source, Albermarle, Principle Business: Industrial Organic Chemicals - 1993	G	INDUSTRIAL; CHEMICAL MANUFACTURING
2471	Industrial Point Source, GATX Terminals, Principle Business: Bulk Storage Terminals - 1993	G	INDUSTRIAL
2472	Industrial Point Source, GATX Terminals, Principle Business: Bulk Storage Terminals - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY

Profile Number	Name	Profile Type	Keyword
2473	Industrial Point Source, Chevron, Principle Business: Bulk Fuel Storage - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2474	Industrial Point Source, Texas Petrochem, Principle Business: Organic Chemical Synthesis - 1993	G	CHEMICAL MANUFACTURING; INDUSTRIAL; PETROLEUM INDUSTRY
2475	Industrial Point Source, Phillips Pipeline, Principle Business: Bulk Fuel Storage - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2476	Industrial Point Source, Phillips Chemical Company, Principle Business: K-Resin Production - 1993	G	INDUSTRIAL; CHEMICAL MANUFACTURING
2477	Industrial Point Source, South Coast Terminals, Principle Business: Petrochemical - 1993	G	INDUSTRIAL; CHEMICAL MANUFACTURING
2478	Industrial Point Source, Warren Petroleum, Principle Business: Bulk Storage Terminal - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2479	Industrial Cluster, Composite Profile, Samples Taken from Downwind of Amoco - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2480	Industrial Cluster, Ship Channel, Downwind Sample - 1993	G	INDUSTRIAL
2481	Industrial Cluster, Composite Profile, Samples Taken from Downwind of Shell - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2482	Industrial Cluster, Composite Profile, Samples Taken from Downwind of Texaco - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2483	Industrial Cluster, Texaco, Downwind-Upwind Sample - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2484	Industrial Cluster, Composite Profile, Samples Taken from Downwind of Union Carbide - 1993	G	INDUSTRIAL
2485	Composite of 21 Fugitive Emission Profiles from Petroleum Industry Facilities - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2486	Composite of 5 Fugitive Emission Profiles from Petroleum Marketing - 1993	G	INDUSTRIAL; GASOLINE MARKETING; PETROLEUM INDUSTRY
2487	Composite of 7 Emission Profiles from Crude Oil Storage Tanks - 1993	G	INDUSTRIAL; PETROLEUM INDUSTRY
2488	Composite of 9 Emission Profiles from Distillate Oil Storage Tanks. - 1993	G	DISTILLATE OIL; PETROLEUM INDUSTRY; INDUSTRIAL
2489	Composite of 15 Fugitive Emission Profiles from Petroleum Storage Facilities - 1993	G	PETROLEUM INDUSTRY; INDUSTRIAL
2490	Composite of 14 Emission Profiles from Gasoline Storage Tanks - 1993	G	GASOLINE; PETROLEUM INDUSTRY; INDUSTRIAL
2491	Vehicle Exhaust - Current Fleet (1989) FTP Composite, Conventional Fuel	G	VEHICLES; VEHICLE FUEL COMBUSTION
2492	Vehicle Exhaust - Current Fleet (1989) Cold Start	G	VEHICLES; COLD START; VEHICLE FUEL COMBUSTION
2493	Vehicle - Current Fleet (1989) Diurnal Evaporative	G	VEHICLES; DIURNAL; GASOLINE EVAPORATIVE; GASOLINE
2494	Vehicle Exhaust - Current Fleet (1989) Hot Start	G	HOT START; VEHICLES; VEHICLE FUEL COMBUSTION
2495	Vehicle - Current Fleet (1989) Hot Soak Evaporative	G	VEHICLES; HOT SOAK; GASOLINE EVAPORATIVE; GASOLINE
2496	Vehicle Exhaust - Current Fleet (1989) Running Loss	G	VEHICLES; RUNNING LOSS; VEHICLE FUEL COMBUSTION
2497	Vehicle Exhaust - Current Fleet (1989) Hot Stabilized	G	HOT STABILIZED; VEHICLES; VEHICLE FUEL COMBUSTION
2498	Vehicle Exhaust - Older Fleet (1983-1985) FTP Composite	G	VEHICLES; VEHICLE FUEL COMBUSTION

Profile Number	Name	Profile Type	Keyword
2499	Vehicle Exhaust - Older Fleet (1983-1985) Cold Start	G	COLD START; VEHICLES; VEHICLE FUEL COMBUSTION
2500	Vehicle - Older Fleet (1983-1985) Diurnal Evaporative	G	VEHICLES; DIURNAL; GASOLINE EVAPORATIVE; GASOLINE
2501	Vehicle Exhaust - Older Fleet (1983-1985) Hot Start	G	VEHICLES; HOT START; VEHICLE FUEL COMBUSTION
2502	Vehicle - Older Fleet (1983-1985) Hot Soak Evaporative	G	VEHICLES; HOT SOAK; GASOLINE EVAPORATIVE; GASOLINE
2503	Vehicle Exhaust - Older Fleet (1983-1985) Running Loss	G	VEHICLES; RUNNING LOSS; VEHICLE FUEL COMBUSTION
2504	Vehicle Exhaust - Older Fleet (1983-1985) Hot Stabilized	G	VEHICLES; HOT STABILIZED; VEHICLE FUEL COMBUSTION
2505	Vehicle Exhaust - Tip O'Neill Garage (Boston) Cold Start - Sept.12-13, 1995	G	VEHICLES; TIP O'NEILL GARAGE; COLD START; VEHICLE FUEL COMBUSTION
2506	Vehicle Exhaust - Cold-Start, Downwind Sample from the Astrodome - 1993	G	VEHICLES; COLD START; ASTRODOME; VEHICLE FUEL COMBUSTION
2507	Vehicle Exhaust - Astrodome, Cold Start, Downwind-upwind.- 1993	G	VEHICLES; COLD START; ASTRODOME; VEHICLE FUEL COMBUSTION
2508	Vehicle Exhaust - Juarez rush hour traffic - 1996	G	VEHICLES; VEHICLE FUEL COMBUSTION
2509	Vehicle Exhaust - Juarez propane bus - adjusted for Juarez traffic - 1996	G	VEHICLES; PROPANE COMBUSTION
2510	Vehicle Exhaust - 100% high emitters - Orange County, CA	G	VEHICLES; VEHICLE FUEL COMBUSTION
2511	Vehicle Exhaust - 100% low emitters - Orange County, CA	G	VEHICLES; VEHICLE FUEL COMBUSTION
2512	Vehicle Exhaust - Callahan Tunnel - Sept. 18-19, 1995	G	VEHICLES; CALLAHAN TUNNEL; VEHICLE FUEL COMBUSTION
2513	Vehicle Exhaust - Callahan Tunnel Diesel Exhaust Subtracted - Sept. 18-19, 1995	G	VEHICLES; CALLAHAN TUNNEL; VEHICLE FUEL COMBUSTION
2514	Vehicle Exhaust - Callahan Tunnel Diesel and Minimum Running Loss Subtracted - Sept. 18-19, 1995	G	VEHICLES; CALLAHAN TUNNEL; VEHICLE FUEL COMBUSTION
2515	Vehicle Exhaust - Callahan Tunnel Diesel and Maximum Running Loss Subtracted - Sept. 18-19, 1995	G	VEHICLES; CALLAHAN TUNNEL; VEHICLE FUEL COMBUSTION
2516	Vehicle Exhaust - Lincoln Tunnel - Aug. 16-18, 1995	G	VEHICLES; LINCOLN TUNNEL; VEHICLE FUEL COMBUSTION
2517	Vehicle Exhaust - Lincoln Tunnel Diesel Exhaust Subtracted - Aug. 16-18, 1995	G	VEHICLES; LINCOLN TUNNEL; VEHICLE FUEL COMBUSTION
2518	Vehicle Exhaust - Lincoln Tunnel Diesel and Minimum Running Loss Subtracted - Aug. 16-18, 1995	G	VEHICLES; LINCOLN TUNNEL; VEHICLE FUEL COMBUSTION
2519	Vehicle Exhaust - Lincoln Tunnel Diesel and Maximum Running Loss Subtracted - Aug. 16-18, 1995	G	VEHICLES; LINCOLN TUNNEL; VEHICLE FUEL COMBUSTION
2520	Vehicle Exhaust - Tuscarora Tunnel Diesel - 1995	G	VEHICLES; TUSCARORA TUNNEL; DIESEL COMBUSTION
2521	Vehicle Exhaust - Tuscarora Tunnel Light Duty Gasoline - 1995	G	VEHICLES; TUSCARORA TUNNEL; GASOLINE COMBUSTION
2522	Vehicle Exhaust - Sepulveda Tunnel - Oct. 3-4, 1995	G	VEHICLES; SEPULVEDA TUNNEL; VEHICLE FUEL COMBUSTION
2523	Vehicle Exhaust - Sepulveda Tunnel Diesel Exhaust Subtracted - Oct. 3-4, 1995	G	VEHICLES; SEPULVEDA TUNNEL; VEHICLE FUEL COMBUSTION
2524	Vehicle Exhaust - Sepulveda Tunnel Diesel and Minimum Running Loss Subtracted - Oct. 3-4, 1995	G	VEHICLES; SEPULVEDA TUNNEL; VEHICLE FUEL COMBUSTION
2525	Vehicle Exhaust - Sepulveda Tunnel Diesel and Maximum Running Loss Subtracted - Oct. 3-4, 1995	G	VEHICLES; SEPULVEDA TUNNEL; VEHICLE FUEL COMBUSTION
2526	Vehicle Exhaust - Fort McHenry Tunnel Diesel - 1995	G	VEHICLES; FORT MCHENRY TUNNEL; DIESEL COMBUSTION

Profile Number	Name	Profile Type	Keyword
2527	Vehicle Exhaust - Fort McHenry Tunnel Light-Duty Gasoline - 1995	G	VEHICLES; FORT MCHENRY TUNNEL; GASOLINE COMBUSTION
2528	Vehicle Exhaust - Van Nuys Tunnel - June 8-12, 1995	G	VEHICLES; VAN NUYS TUNNEL; VEHICLE FUEL COMBUSTION
2529	Vehicle Exhaust - Van Nuys Tunnel, Diesel Exhaust Subtracted - June 8-12, 1995	G	VEHICLES; VAN NUYS TUNNEL; VEHICLE FUEL COMBUSTION
2530	Vehicle Exhaust - Van Nuys Tunnel, Diesel and Minimum Running Loss Subtracted - June 8-12, 1995	G	VEHICLES; VAN NUYS TUNNEL; VEHICLE FUEL COMBUSTION
2531	Vehicle Exhaust - Van Nuys Tunnel, Diesel and Maximum Running Loss Subtracted - June 8-12, 1995	G	VEHICLES; VAN NUYS TUNNEL; VEHICLE FUEL COMBUSTION
2532	Vehicle Exhaust - Mt. Baker Tunnel Emissions, Downwind Exhaust - 1995	G	VEHICLES; MT. BAKER TUNNEL; VEHICLE FUEL COMBUSTION
2533	Vehicle Exhaust - Mt. Baker Tunnel Emissions with Diesel Contributions Removed - 1995	G	VEHICLES; MT. BAKER TUNNEL; VEHICLE FUEL COMBUSTION
2534	Vehicle Exhaust - Mt. Baker Tunnel Emissions with Diesel and 5~10% of Running Loss Contributions Removed - 1995	G	VEHICLES; MT. BAKER TUNNEL; VEHICLE FUEL COMBUSTION
2535	Vehicle Exhaust - Mt. Baker Tunnel emissions with Diesel and 15~30% of Running Loss Contributions Removed - 1995	G	VEHICLES; MT. BAKER TUNNEL; VEHICLE FUEL COMBUSTION
2536	Vehicle Exhaust - Baytown Tunnel, Warm Running, Downwind Sample - 1993	G	VEHICLES; BAYTOWN TUNNEL; VEHICLE FUEL COMBUSTION
2537	Vehicle Exhaust - Composite of 4 Westheimer Profiles, Warm Running, Downwind Sample - 1993	G	VEHICLES; VEHICLE FUEL COMBUSTION
2538	Vehicle Exhaust - Composite of 2 Westheimer Profiles, Warm Running, Downwind-Upwind - 1993	G	VEHICLES; VEHICLE FUEL COMBUSTION
2539	Vehicle Exhaust - Ambient Roadside Monitoring: Kanagawa Prefecture, Japan	G	VEHICLES; ROADSIDE
2540	Vehicle Emissions: Roadway: Busy Intersection	G	VEHICLES; ROADSIDE
2541	Wastewater Treatment Plants - New Jersey	G	WASTEWATER TREATMENT
2542	Wastewater Treatment Plants - Cincinnati Area	G	WASTEWATER TREATMENT
2543	Graphic Arts - Lithography	G	GRAPHIC ARTS; LITHOGRAPHY
2544	Graphic Arts - Letterpress	G	GRAPHIC ARTS; LETTERPRESS
2545	Graphic Arts - Rotogravure	G	GRAPHIC ARTS; ROTOGRAVURE
2546	Automotive Painting - Downwind Ground Based Compositions	G	VEHICLES; COATING
2547	Polyethylene Plant: Kawasaki City	G	POLYETHYLENE; CHEMICAL MANUFACTURING
2548	Vapor Degreasing - Based on 1985 Chlorinated Solvent Consumption Estimate	G	VAPOR DEGREASING; DEGREASING; CHLORINATED SOLVENT
2549	Offset Printing - Plant A, Press/Plate Making Rooms, Air Return	G	OFFSET PRINTING; PRINTING; PRESS/PLATE MAKING
2550	Offset Printing - Plant A, Press/Plate Making Rooms, Average of Six Sites	G	OFFSET PRINTING; PRINTING; PRESS/PLATE MAKING
2551	Offset Printing - Plant A, Six-Color Press Air Return	G	OFFSET PRINTING; PRINTING; SIX-COLOR PRESS
2552	Offset Printing - Plant B, Average of all rooms	G	OFFSET PRINTING; PRINTING
2553	Offset Printing - Plant C, Room Composition	G	OFFSET PRINTING; PRINTING
2554	Petroleum Refineries - Outside Operators: Summertime, Personal Exposure	G	PETROLEUM INDUSTRY; REFINERY; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2555	Japanese Refinery - Kawasaki City	G	REFINERY; INDUSTRIAL
2556	Headspace Profile - Regular Gasoline - Chicago: Summer 1989	G	GASOLINE; GASOLINE HEADSPACE; GASOLINE - REGULAR; GASOLINE VAPOR
2557	Headspace Profile - Mid-grade Gasoline - Chicago: Summer 1989	G	GASOLINE VAPOR; GASOLINE - MID GRADE; GASOLINE; GASOLINE HEADSPACE
2558	Headspace Profile - Premium Gasoline - Chicago: Summer 1989	G	GASOLINE HEADSPACE; GASOLINE - PREMIUM; GASOLINE; GASOLINE VAPOR
2559	Refueling Profile - Summer 1989 Sales of Gasoline in Chicago	G	REFUELING; GASOLINE; GASOLINE - SUMMER
2560	Refueling Profile - Regular Summer Blend - Atlanta, 1990	G	REFUELING; GASOLINE - REGULAR; GASOLINE; GASOLINE - SUMMER
2561	Refueling Profile - Regular Summer Blend - Chicago, 1990	G	REFUELING; GASOLINE - REGULAR; GASOLINE; GASOLINE - SUMMER
2562	Roadway - Vehicle Exhaust Emissions - Chicago, March, 1990	G	VEHICLES; VEHICLE FUEL COMBUSTION; ROADSIDE
2563	Roadway - Vehicle Exhaust Emissions - Raleigh	G	VEHICLES; ROADSIDE; VEHICLE FUEL COMBUSTION
2564	Roadway - Vehicle Exhaust Emissions - Atlanta, 1990	G	VEHICLES; ROADSIDE; VEHICLE FUEL COMBUSTION
2565	Vehicle Cold Start (adjusted for background) - Chicago, March 1990	G	VEHICLES; COLD START; VEHICLE FUEL COMBUSTION
2566	Vehicle Hot Soak (adjusted for background) - Chicago, March 1990	G	VEHICLES; HOT SOAK
2567	Vehicle Hot Soak - Atlanta, 1990	G	VEHICLES; HOT SOAK
2568	Refinery - Romeoville, Ill, 1990	G	REFINERY; INDUSTRIAL; PETROLEUM INDUSTRY
2569	Coke Oven - Chicago, Ill, 1992	G	COKE
2570	Graphic Arts - Composite of Lithography, Rotogravure, Letterpress and Flexography	G	GRAPHIC ARTS; LITHOGRAPHY; ROTOGRAVURE; LETTERPRESS; FLEXOGRAPHIC
2571	Airport - Atlanta - August 27, 1990	G	AIRPORT
2572	Aircraft - Atlanta - August 27, 1990	G	AIRCRAFT
3001	Pesticides	G	Pesticides
3002	Landfills	G	Landfill Gas
3003	Wastewater Treatment Plants	G	POTW; Wastewater Treatment Plant
3004	Consumer Products: Arts And Crafts Adhesives	G	Consumer Products; Adhesives; Arts and Crafts
3005	Consumer Products: Automotive Adhesives	G	Consumer Products; Adhesives; Automotive
3006	Consumer Products: Carpet And Tile Adhesives	G	Consumer Products; Adhesives; Carpet and Tile
3007	Consumer Products: Construction And Panel Adhesives	G	Consumer Products; Adhesives; Construction and Panel
3008	Consumer Products: Contact Adhesive	G	Consumer Products; Adhesives
3009	Consumer Products: General Purpose Cleaners Adhesive	G	Consumer Products; Adhesives
3010	Consumer Products: Aerosol Adhesive (Including Industrial)	G	Consumer Products
3011	Consumer Products: Pipe Cements And Primers	G	Consumer Products; Pipe Cements and Primers

Profile Number	Name	Profile Type	Keyword
3012	Consumer Products: Woodworking Glues	G	Consumer Products; Glues
3013	Consumer Products: Sealants & Caulking Compounds	G	Consumer Products; Sealants and Caulking Compounds
3014	Consumer Products: Wood Fillers	G	Consumer Products; Wood Fillers
3015	Consumer Products: Bug And Tar Removers	G	Consumer Products; Bug and Tar Removers
3016	Consumer Products: Auto Carpet And Upholstery Cleaners - Aerosols	G	Consumer Products; Cleaners; Auto Carpet and Upholstery
3017	Consumer Products: Auto Carpet And Upholstery Cleaners - Non-Aerosols	G	Consumer Products; Cleaners; Auto Carpet and Upholstery
3018	Consumer Products: Automotive Hard Paste Waxes	G	Consumer Products; Automotive; Waxes
3019	Consumer Products: Automotive Instant Detailers	G	Consumer Products; Automotive
3020	Consumer Products: Automotive Waxes/Polishes/Sealants/Glazes	G	Consumer Products; Automotive Waxes; Polishes; Sealants; Glazes
3021	Consumer Products: Rubber And Vinyl Protectants - Aerosols	G	Consumer Products; Rubber and Vinyl Protectants
3022	Consumer Products: Rubber And Vinyl Protectants - Non-Aerosols	G	Consumer Products; Rubber and Vinyl Protectants
3023	Consumer Products: Automotive Rubbing Or Polishing Compounds	G	Consumer Products; Automotive; Rubbing; Polishing
3024	Consumer Products: Tire Cleaners	G	Consumer Products; Cleaners; Tire
3025	Consumer Products: Vinyl and Leather Cleaners	G	Consumer Products; Cleaners; Vinyl and Leather
3026	Consumer Products: Wheel Cleaners	G	Consumer Products; Cleaners; Wheel
3027	Consumer Products: Battery Cleaners	G	Consumer Products; Cleaners; Battery
3028	Consumer Products: Automotive Brake Cleaners	G	Consumer Products; Cleaners; Brake
3029	Consumer Products: Carburetor Or Fuel-Injection Air Intake Cleaners	G	Consumer Products; Cleaners; Air Intake
3030	Consumer Products: Engine Degreasers - Aerosols	G	Consumer Products; Engine Degreasers
3031	Consumer Products: Engine Degreasers - Non-Aerosols	G	Consumer Products; Engine Degreasers
3032	Consumer Products: Solvent Parts Cleaner - Aerosols	G	Consumer Products; Cleaner
3033	Consumer Products: Solvent Parts Cleaner - Non-Aerosols	G	Consumer Products; Cleaner
3034	Consumer Products: Tire Sealants And Inflators	G	Consumer Products; Automotive; Tire Sealants and Inflators
3035	Consumer Products: Automotive Undercoatings - Aerosols	G	Consumer Products; Automotive; Undercoatings
3036	Consumer Products: Automotive Undercoatings - Non-Aerosols	G	Consumer Products; Automotive; Undercoatings
3037	Consumer Products: Automotive Windshield Washer Fluids	G	Consumer Products; Automotive; Windshield Washer Fluids
3038	Consumer Products: Graffiti Removers	G	Consumer Products; Graffiti Removers
3039	Consumer Products: Paint Removers Or Strippers	G	Consumer Products; Paint Removers
3040	Consumer Products: Multipurpose Solvents	G	Consumer Products; Solvents

Profile Number	Name	Profile Type	Keyword
3041	Consumer Products: Electronic Cleaner	G	Consumer Products; Cleaner; Electronics
3042	Consumer Products: Adhesive Remover	G	Consumer Products; Adhesive Remover
3043	Consumer Products: Disinfectants	G	Consumer Products; Disinfectants
3044	Consumer Products: Sanitizers	G	Consumer Products; Sanitizers
3045	Consumer Products: Sterilants (not Including Ethylene Oxide)	G	Consumer Products; Sterilants
3046	Consumer Products: Non-Selective Herbicides/Defoliants	G	Consumer Products; Herbicides; Defoliants
3047	Consumer Products: Selective Herbicides/Defoliants	G	Consumer Products; Herbicides; Defoliants
3048	Consumer Products: Flea And Tick Insecticide	G	Consumer Products; Insecticide
3049	Consumer Products: Flying Insect Insecticide - Aerosols	G	Consumer Products; Insecticide
3050	Consumer Products: Flying Insect Insecticide - Non-Aerosols	G	Consumer Products; Insecticide
3051	Consumer Products: Wasp and Hornet Insecticide	G	Consumer Products; Insecticide
3052	Consumer Products: Lawn And Garden Insecticides	G	Consumer Products; Insecticide
3053	Consumer Products: Crawling Bug Insecticides - Aerosols	G	Consumer Products; Insecticide
3054	Consumer Products: Crawling Bug Insecticides - Non-Aerosols	G	Consumer Products; Insecticide
3055	Consumer Products: Insecticide Foggers	G	Consumer Products; Insecticide
3056	Consumer Products: Insect Repellants - Aerosols	G	Consumer Products; Insect Repellants
3057	Consumer Products: Insect Repellants - Non-Aerosols	G	Consumer Products; Insect Repellants
3058	Consumer Products: Fungicides AND Nematicides	G	Consumer Products; Fungicides; Nematicides
3059	Consumer Products: Household Carpet And Upholstery Cleaners - Aerosols	G	Consumer Products; Cleaners; Carpet and Upholstery
3060	Consumer Products: Household Carpet And Upholstery Cleaners - Non-Aerosols	G	Consumer Products; Cleaners; Carpet and Upholstery
3061	Consumer Products: Carpet Deodorizers	G	Consumer Products; Carpet Deodorizers
3062	Consumer Products: Spot Removers - Aerosols	G	Consumer Products; Spot Removers
3063	Consumer Products: Spot Removers - Non-Aerosols	G	Consumer Products; Spot Removers
3064	Consumer Products: Fabric Protectants	G	Consumer Products; Fabric Protectants
3065	Consumer Products: Floor Wax Strippers	G	Consumer Products; Floor Wax Strippers
3066	Consumer Products: General Purpose Cleaners - Aerosols	G	Consumer Products; Cleaners; Carpet and Upholstery
3067	Consumer Products: General Purpose Cleaners - Non-Aerosols	G	Consumer Products; Cleaners; Carpet and Upholstery
3068	Consumer Products: General Purpose Degreasers - Aerosols	G	Consumer Products; Degreasers
3069	Consumer Products: General Purpose Degreasers - Non-Aerosols	G	Consumer Products; Degreasers

Profile Number	Name	Profile Type	Keyword
3070	Consumer Products: Glass Cleaners - Aerosols	G	Consumer Products; Glass Cleaners
3071	Consumer Products: Glass Cleaners - Non-Aerosols	G	Consumer Products; Glass Cleaners
3072	Consumer Products: Metal Polishes/Cleansers	G	Consumer Products; Metal Polishes
3073	Consumer Products: Oven Cleaners - Aerosols/Pumps	G	Consumer Products; Oven Cleaners
3074	Consumer Products: Oven Cleaners - Liquid And Other	G	Consumer Products; Oven Cleaners
3075	Consumer Products: Toilet Bowl Cleaners	G	Consumer Products; TOilet Bowl Cleaners
3076	Consumer Products: Bathroom And Tile Cleaners - Aerosols	G	Consumer Products; Bathroom and Tile Cleaners
3077	Consumer Products: Bathroom And Tile Cleaners - Non-Aerosols	G	Consumer Products; Bathroom and Tile Cleaners
3078	Consumer Products: Laundry Prewash - Aerosols/Solids	G	Consumer Products; Laundry
3079	Consumer Products: Laundry Prewash - Other Forms	G	Consumer Products; Laundry
3080	Consumer Products: Laundry Starches, Sizings, Etc.	G	Consumer Products; Laundry
3081	Consumer Products: Dusting Aids - Aerosols	G	Consumer Products; Dusting Aids
3082	Consumer Products: Dusting Aids - Non-Aerosols	G	Consumer Products; Dusting Aids
3083	Consumer Products: Flexible Floor Wax/Polish	G	Consumer Products; Floor Wax
3084	Consumer Products: Non-Resilient Floor Wax/Polish	G	Consumer Products; Floor Wax
3085	Consumer Products: Wood Floor Wax/Polish	G	Consumer Products; Floor Wax
3086	Consumer Products: Furniture Maintenance Products - Aerosols	G	Consumer Products; Furniture Maintenance Products
3087	Consumer Products: Furniture Maintenance Products - Other Forms	G	Consumer Products; Furniture Maintenance Products
3088	Consumer Products: Shoe Care Products	G	Consumer Products; Shoe Care
3089	Consumer Products: Multipurpose Lubricant	G	Consumer Products; Lubricant
3090	Consumer Products: Silicone Based Multi-Purpose Lubricant	G	Consumer Products; Lubricant
3091	Consumer Products: Penetrant	G	Consumer Products; Lubricant; Penetrant
3092	Consumer Products: Specialty Lubricant	G	Consumer Products; Lubricant
3093	Consumer Products: Single Phase Aerosol Air Fresheners	G	Consumer Products; Air Fresheners
3094	Consumer Products: Double Phase Aerosol Air Fresheners	G	Consumer Products; Air Fresheners
3095	Consumer Products: Dual Purpose Air Freshener/Disinfectant	G	Consumer Products; Air Fresheners; Disinfectant
3096	Consumer Products: Liquid/Pump Spray Air Fresheners	G	Consumer Products; Air Fresheners
3097	Consumer Products: Solid/Gel Air Fresheners	G	Consumer Products; Air Fresheners
3098	Consumer Products: Charcoal Lighter Materials	G	Consumer Products; Charcoal Lighter

Profile Number	Name	Profile Type	Keyword
3099	Consumer Products: Aerosol Cooking Sprays	G	Consumer Products; Cooking Sprays
3100	Consumer Products: Underarm Antiperspirants - Aerosols	G	Consumer Products; Underarm Antiperspirants
3101	Consumer Products: Underarm Antiperspirants - Non-Aerosols	G	Consumer Products; Underarm Antiperspirants
3102	Consumer Products: Underarm Deodorants - Aerosols	G	Consumer Products; Deodorants
3103	Consumer Products: Underarm Deodorants - Non-Aerosols	G	Consumer Products; Deodorants
3104	Consumer Products: Astringents/Toners	G	Consumer Products; Toners
3105	Consumer Products: Hand And Body Lotions	G	Consumer Products; Lotions
3106	Consumer Products: Personal Fragrance Product (Fragrance <= 20%)	G	Consumer Products; Fragrance
3107	Consumer Products: Personal Fragrance Product (Fragrance > 20%)	G	Consumer Products; Fragrance
3108	Consumer Products: Hair Spray	G	Consumer Products; Hair Care Products
3109	Consumer Products: Hair Mousses	G	Consumer Products; Hair Care Products
3110	Consumer Products: Hair Shines	G	Consumer Products; Hair Care Products
3111	Consumer Products: Hair Styling Gels	G	Consumer Products; Hair Care Products
3112	Consumer Products: Nail Polish	G	Consumer Products; Nail Care Products
3113	Consumer Products: Nail Base Coats, Undercoats	G	Consumer Products; Nail Care Products
3114	Consumer Products: Nail Polish Removers	G	Consumer Products; Nail Care Products
3115	Consumer Products: Rubbing Alcohol	G	Consumer Products; Rubbing Alcohol
3116	Consumer Products: Shaving Creams	G	Consumer Products; Shaving Creams
3117	Consumer Products: Shaving Gels	G	Consumer Products; Shaving Gels
3118	Consumer Products: Foot Powders	G	Consumer Products; Foot Care Products
3119	Consumer Products: Personal Hygiene Sprays	G	Consumer Products; Personal Hygiene Products
3120	Consumer Products: Laundry Detergent	G	Consumer Products; Detergent; Laundry
3121	Consumer Products: Hand Dishwashing Soap	G	Consumer Products; Hand Soap
3122	Consumer Products: Heavy Duty Hand Cleaner Or Soap	G	Consumer Products; Hand Soap
3123	Consumer Products: Combined Small Categories	G	Consumer Products
3124	Aerosol Coatings: Clear Coatings (Unspecified)	G	Aerosol Coatings; Clear Coatings
3125	Aerosol Coatings: Flat Coatings (Unspecified)	G	Aerosol Coatings; Flat Coatings
3126	Aerosol Coatings: Fluorescent Coatings	G	Aerosol Coatings; Fluorescent Coatings
3127	Aerosol Coatings: Metallic Pigmented Coatings	G	Aerosol Coatings; Metallic Pigmented Coatings

Profile Number	Name	Profile Type	Keyword
3128	Aerosol Coatings: Non-Flat Coatings (Unspecified)	G	Aerosol Coatings; Nonflat Coatings
3129	Aerosol Coatings: Primers (Unspecified)	G	Aerosol Coatings; Primers
3130	Aerosol Coatings: Art Fixatives And Sealants	G	Aerosol Coatings; Art Fixatives and Sealants
3131	Aerosol Coatings: Auto Body Primers	G	Aerosol Coatings; Primers; Auto Body
3132	Aerosol Coatings: Auto Bumper And Trim Coatings	G	Aerosol Coatings; Auto Bumper
3133	Aerosol Coatings: Exact Match Engine Enamel	G	Aerosol Coatings; Automotive
3134	Aerosol Coatings: Exact Match Automotive Coatings	G	Aerosol Coatings; Automotive
3135	Aerosol Coatings: Ground/Traffic/Marking Coatings	G	Aerosol Coatings; Traffic Marking
3136	Aerosol Coatings: High Temperature Coatings	G	Aerosol Coatings
3137	Aerosol Coatings: Vinyl/Fabric/Leather/Polycarb Coatings	G	Aerosol Coatings; Vinyl; Fabric; Leather
3138	Aerosol Coatings: Coatings (Unspecified)	G	Aerosol Coatings
3139	Architectural Coatings: Solvent Borne	G	Architectural Coatings
3140	Architectural Coatings: Water Borne	G	Architectural Coatings
3141	Thinning Solvent/Mineral Spirits	G	Thinning Solvent/Mineral Spirits
3142	Consumer Products Composite: Adhesives And Sealants	G	Consumer Products; Adhesives and Sealants
3143	Consumer Products Composite: Automotive Products	G	Consumer Products; Automotive Products
3144	Consumer Products Composite: Solvents And Coating Related Products	G	Consumer Products; Solvents And Coating Products
3145	Consumer Products Composite: Pesticides/FIFRA-Regulated Products	G	Consumer Products; Pesticides/FIFRA-Regulated Products
3146	Consumer Products Composite: Household Products	G	Consumer Products; Household Products
3147	Consumer Products Composite: Personal Care Products	G	Consumer Products; Personal Care Products
3148	Consumer Products Composite: Soaps And Detergent Products	G	Consumer Products; Soaps And Detergent Products
3149	Aerosol Coatings: Overall Composite	G	Aerosol Coatings
3150	Gasoline Exhaust - Non-Catalyst- Stabilized	G	Motor Vehicle; Gasoline; Non-Catalyst; Stabilized Exhaust
3151	Gasoline Exhaust - Non-Catalyst - FTP bag1-3 STARTS	G	Motor Vehicle; Gasoline; Non-Catalyst; Starts
3152	Liquid Gasoline Composition - 11% MTBE - Commercial Grade	G	Liquid Gasoline; MTBE
3153	Hot Soak - MTBE Gasoline	G	Motor Vehicle; Hot Soak
3161	Diesel Exhaust - Farm equipment	G	Diesel Exhaust
3162	Gasoline Exhaust - Catalyst - FTP Bag 1-3 STARTS	G	Motor Vehicle; Gasoline; Catalyst; Starts
3163	Gasoline Exhaust - Catalyst - Stabilized	G	Motor Vehicle; Gasoline; Catalyst; Stabilized Exhaust

Profile Number	Name	Profile Type	Keyword
3164	Diurnal Resting Evaporative - Gasoline Headspace Vapor	G	Motor Vehicle; Gasoline; Diurnal & Resting Evaporatives
3165	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3166	Degreasing - Vapor Degreasing (Batch, Conveyor)	G	Degreasing
3167	Degreasing - Hand wiping	G	Degreasing
3168	Degreasing - Vapor Degreasing (Batch, Conveyor)	G	Degreasing
3169	Degreasing - Hand wiping	G	Degreasing
3170	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3171	Degreasing - Hand wiping	G	Degreasing
3172	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3173	Degreasing - Hand wiping	G	Degreasing
3174	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3175	Degreasing - Hand wiping	G	Degreasing
3176	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3177	Degreasing - Hand wiping	G	Degreasing
3178	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3179	Degreasing - Hand wiping	G	Degreasing
3180	Degreasing - Vapor Degreasing (Batch, Conveyor)	G	Degreasing
3181	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3182	Degreasing - Hand wiping	G	Degreasing
3183	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3184	Degreasing - Hand wiping	G	Degreasing
3185	Degreasing - Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
3186	Degreasing - Vapor Degreasing (Batch, Conveyor)	G	Degreasing
3187	Degreasing - Hand wiping	G	Degreasing
4420	Rice Straw Burning	G	Rice Straw Burning; Agricultural Burning; Prescribed Burning
4421	Wheat Straw Burning	G	Wheat Straw Burning; Agricultural Burning; Prescribed Burning
4422	Naphtha Solvent	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons; Aromatic hydrocarbon
4423	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4424	Light HC Solvent	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons

Profile Number	Name	Profile Type	Keyword
4425	Naphtha	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4426	Lactol Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons; Lactol Spirits
4427	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4428	Aromatic 100	G	Aromatic hydrocarbon
4429	Aromatic 150	G	Aromatic hydrocarbon
4430	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons; Aromatic hydrocarbon
4431	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4432	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4433	Aromatic 100	G	Aromatic hydrocarbon
4434	Naphtha	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4435	Aliphatic Petroleum Distillates	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4436	Aliphatic Petroleum Distillates	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4437	Aromatic 150	G	Aromatic hydrocarbon
4438	Aliphatic Petroleum Distillates	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4439	Xylene Solvent	G	Aromatic hydrocarbon
4440	Stoddard Solvent	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4441	Aromatic 100	G	Aromatic hydrocarbon
4442	Aromatic 150	G	Aromatic hydrocarbon
4443	Naphtha	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4444	Naphtha	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4445	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4446	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4447	Xylene Solvent	G	Aromatic hydrocarbon
4448	Naphtha Solvent - Light	G	Aromatic hydrocarbon
4449	Aliphatic Petroleum Distillates	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4450	Naphtha	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons; Aromatic hydrocarbon
4451	Aromatic 100	G	Aromatic hydrocarbon
4452	Aromatic 150	G	Aromatic hydrocarbon
4453	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons

Profile Number	Name	Profile Type	Keyword
4454	Xylene Solvent	G	Aromatic hydrocarbon
4455	Naphtha	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4456	Aromatic 100	G	Aromatic hydrocarbon
4457	Aromatic 150	G	Aromatic hydrocarbon
4458	Paraffinic Petroleum Distillate	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4459	Xylene Solvent	G	Aromatic hydrocarbon
4460	Xylene Solvent	G	Aromatic hydrocarbon
4461	Aromatic 100	G	Aromatic hydrocarbon
4462	Mineral Spirits	G	Mineral Spirits; Stoddard Solvent; Petroleum Distillate; Naphtha; Aliphatic hydrocarbons
4469	Gasoline Headspace Vapor - Exxon Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4470	Gasoline Headspace Vapor - Exxon Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4471	Gasoline Headspace Vapor - Exxon Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4472	Gasoline Headspace Vapor - Texaco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4473	Gasoline Headspace Vapor - Texaco Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4474	Gasoline Headspace Vapor - Texaco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4475	Gasoline Headspace Vapor - Chevron Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4476	Gasoline Headspace Vapor - Chevron Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4477	Gasoline Headspace Vapor - Chevron Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4478	Gasoline Headspace Vapor - Conoco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4479	Gasoline Headspace Vapor - Conoco Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4480	Gasoline Headspace Vapor - Conoco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4481	Gasoline Headspace Vapor - Shell Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4482	Gasoline Headspace Vapor - Shell Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4483	Gasoline Headspace Vapor - Shell Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4484	Gasoline Headspace Vapor - Texaco Super - adjusted for oxygenates	G	Gasoline headspace vapor
4485	Gasoline Headspace Vapor - Texaco Plus - adjusted for oxygenates	G	Gasoline headspace vapor
4486	Gasoline Headspace Vapor - Texaco Regular - adjusted for oxygenates	G	Gasoline headspace vapor
4487	Gasoline Headspace Vapor - Shell Super - adjusted for oxygenates	G	Gasoline headspace vapor
4488	Gasoline Headspace Vapor - Shell Plus - adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
4489	Gasoline Headspace Vapor - Shell Regular - adjusted for oxygenates	G	Gasoline headspace vapor
4490	Gasoline Headspace Vapor - Arco Super - adjusted for oxygenates	G	Gasoline headspace vapor
4491	Gasoline Headspace Vapor - Arco Plus - adjusted for oxygenates	G	Gasoline headspace vapor
4492	Gasoline Headspace Vapor - Arco Regular - adjusted for oxygenates	G	Gasoline headspace vapor
4493	Gasoline Headspace Vapor - Chevron Super - adjusted for oxygenates	G	Gasoline headspace vapor
4494	Gasoline Headspace Vapor - Chevron Plus - adjusted for oxygenates	G	Gasoline headspace vapor
4495	Gasoline Headspace Vapor - Chevron Regular - adjusted for oxygenates	G	Gasoline headspace vapor
4496	Gasoline Headspace Vapor - 76 Super - adjusted for oxygenates	G	Gasoline headspace vapor
4497	Gasoline Headspace Vapor - 76 Plus - adjusted for oxygenates	G	Gasoline headspace vapor
4498	Gasoline Headspace Vapor - 76 Regular - adjusted for oxygenates	G	Gasoline headspace vapor
4499	Gasoline Headspace Vapor - Shell Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4500	Gasoline Headspace Vapor - Shell Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4501	Gasoline Headspace Vapor - Citgo Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4502	Gasoline Headspace Vapor - Citgo Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4503	Gasoline Headspace Vapor - Super America Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4504	Gasoline Headspace Vapor - Super America Grade 92 - adjusted for oxygenates	G	Gasoline headspace vapor
4505	Gasoline Headspace Vapor - Mobil Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4506	Gasoline Headspace Vapor - Mobil Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4507	Gasoline Headspace Vapor - Clark Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4508	Gasoline Headspace Vapor - Clark Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4509	Gasoline Headspace Vapor - Amoco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4510	Gasoline Headspace Vapor - Amoco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4511	Gasoline Headspace Vapor - Amoco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4512	Gasoline Headspace Vapor - Exxon Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4513	Gasoline Headspace Vapor - BP Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4514	Gasoline Headspace Vapor - Mapco #1 Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4515	Gasoline Headspace Vapor - Mapco #2 Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4516	Gasoline Headspace Vapor - Amoco Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4517	Gasoline Headspace Vapor - BP Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
4518	Gasoline Headspace Vapor - Exxon Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4519	Gasoline Headspace Vapor - Mapco #1 Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4520	Gasoline Headspace Vapor - Mapco #2 Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4521	Gasoline Headspace Vapor - Amoco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4522	Gasoline Headspace Vapor - BP Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4523	Gasoline Headspace Vapor - Exxon Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4524	Gasoline Headspace Vapor - Mapco #1 Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4525	Gasoline Headspace Vapor - Mapco #2 Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4526	Gasoline Headspace Vapor - Amoco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4527	Gasoline Headspace Vapor - Amoco Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4528	Gasoline Headspace Vapor - Amoco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4529	Gasoline Headspace Vapor - Exxon Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4530	Gasoline Headspace Vapor - Exxon Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4531	Gasoline Headspace Vapor - Exxon Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4532	Gasoline Headspace Vapor - Citgo Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4533	Gasoline Headspace Vapor - Citgo Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4534	Gasoline Headspace Vapor - Citgo Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4535	Gasoline - Shell Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4536	Gasoline - Citgo Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4537	Gasoline Headspace Vapor - Texaco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4538	Gasoline Headspace Vapor - Texaco Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4539	Gasoline Headspace Vapor - Texaco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4540	Gasoline Headspace Vapor - Circle K Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4541	Gasoline Headspace Vapor - Circle K Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4542	Gasoline Headspace Vapor - Circle K Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4543	Gasoline Headspace Vapor - Circle K Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4544	Gasoline Headspace Vapor - Amoco Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4545	Gasoline Headspace Vapor - Amoco Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4546	Gasoline Headspace Vapor - Amoco Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
4547	Gasoline Headspace Vapor - Circle K Diesel - adjusted for oxygenates	G	Gasoline headspace vapor
4548	Gasoline Headspace Vapor - Independent Diesel - adjusted for oxygenates	G	Gasoline headspace vapor
4549	Diesel Headspace Vapor - Super America Diesel - adjusted for oxygenates	G	Diesel fuel headspace vapor
4550	Diesel Headspace Vapor - Citgo Diesel - adjusted for oxygenates	G	Diesel fuel headspace vapor
4551	Diesel Headspace Vapor - Shell Diesel - adjusted for oxygenates	G	Diesel fuel headspace vapor
4552	Diesel Headspace Vapor - Citgo Diesel - adjusted for oxygenates	G	Diesel fuel headspace vapor
4553	Meat charbroiling	G	Meat charbroiling; natural gas-fired charbroiling; hamburger charbroiling
4555	Liquid Gasoline Composition	G	Liquid gasoline
4556	Gasoline Exhaust - Catalyst	G	gasoline vehicle exhaust
4557	Gasoline Exhaust - Noncatalyst	G	gasoline vehicle exhaust
4560	Gasoline Headspace Vapor - Shell Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4561	Gasoline Headspace Vapor - Citgo Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4562	Gasoline - Exxon Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4563	Gasoline - Exxon Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4564	Gasoline - Exxon Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4565	Gasoline - Texaco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4566	Gasoline - Texaco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4567	Gasoline - Texaco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4568	Gasoline - Chevron Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4569	Gasoline - Chevron Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4570	Gasoline - Chevron Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4571	Gasoline - Conoco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4572	Gasoline - Conoco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4573	Gasoline - Conoco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4574	Gasoline - Shell Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4575	Gasoline - Shell Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4576	Gasoline - Shell Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4577	Gasoline - Shell Super - adjusted for oxygenates	G	Liquid gasoline
4578	Gasoline - Shell Plus - adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
4579	Gasoline - Shell Regular - adjusted for oxygenates	G	Liquid gasoline
4580	Gasoline - Chevron Super - adjusted for oxygenates	G	Liquid gasoline
4581	Gasoline - Chevron Plus - adjusted for oxygenates	G	Liquid gasoline
4582	Gasoline - Chevron Regular - adjusted for oxygenates	G	Liquid gasoline
4583	Gasoline - 76 Super - adjusted for oxygenates	G	Liquid gasoline
4584	Gasoline - 76 Plus - adjusted for oxygenates	G	Liquid gasoline
4585	Gasoline - 76 Regular - adjusted for oxygenates	G	Liquid gasoline
4586	Gasoline - Texaco Super - adjusted for oxygenates	G	Liquid gasoline
4587	Gasoline - Texaco Plus - adjusted for oxygenates	G	Liquid gasoline
4588	Gasoline - Texaco Regular - adjusted for oxygenates	G	Liquid gasoline
4589	Gasoline - ARCO Super - adjusted for oxygenates	G	Liquid gasoline
4590	Gasoline - ARCO Plus - adjusted for oxygenates	G	Liquid gasoline
4591	Gasoline - ARCO Regular - adjusted for oxygenates	G	Liquid gasoline
4592	Gasoline - Amoco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4593	Gasoline - Mapco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4594	Gasoline - Citgo Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4595	Gasoline - BP Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4596	Gasoline - Exxon Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4597	Gasoline - Amoco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4598	Gasoline - Mapco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4599	Gasoline - Citgo Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4600	Gasoline - BP Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4601	Gasoline - Exxon Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4602	Gasoline - Amoco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4603	Gasoline - Mapco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4604	Gasoline - Citgo Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4605	Gasoline - BP Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4606	Gasoline - Exxon Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4607	Gasoline - Amoco Grade 93 - adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
4608	Gasoline - BP Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4609	Gasoline - Exxon Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4610	Gasoline - Mapco #1 Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4611	Gasoline - Mapco #2 Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4612	Gasoline - Amoco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4613	Gasoline - BP Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4614	Gasoline - Exxon Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4615	Gasoline - Mapco #1 Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4616	Gasoline - Mapco #2 Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4617	Gasoline - Amoco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4618	Gasoline - BP Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4619	Gasoline - Exxon Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4620	Gasoline - Mapco #1 Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4621	Gasoline - Mapco #2 Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4622	Gasoline - Amoco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4623	Gasoline - Amoco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4624	Gasoline - Amoco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4625	Gasoline - Exxon Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4626	Gasoline - Exxon Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4627	Gasoline - Exxon Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4628	Gasoline - Citgo Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4629	Gasoline - Citgo Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4630	Gasoline - Citgo Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4631	Gasoline - Texaco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4632	Gasoline - Texaco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4633	Gasoline - Texaco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4634	Gasoline -Circle K Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4635	Gasoline -Circle K Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4636	Gasoline -Circle K Grade 93 - adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
4637	Gasoline - Amoco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4638	Gasoline - Amoco Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4639	Gasoline - Amoco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4640	Fireplace wood combustion - eucalyptus wood	G	Vegetative Burning; Fireplace; Wood Smoke
4641	Fireplace wood combustion - oak wood	G	Vegetative Burning; Fireplace; Wood Smoke
4642	Fireplace wood combustion - pine wood	G	Vegetative Burning; Fireplace; Wood Smoke
4646	Gasoline - 1995	G	Liquid gasoline
4647	Gasoline - 1993	G	Liquid gasoline
4648	Gasoline Headspace Vapor - 1995	G	Gasoline headspace vapor
4649	Gasoline Headspace Vapor - 1993	G	Gasoline headspace vapor
4650	Cooking vegetables - Stir frying in soybean oil	G	Cooking vegetables; Stir frying
4651	Cooking vegetables - Stir frying in canola oil	G	Cooking vegetables; Stir frying
4652	Cooking potatoes - Deep frying in hydrogenated oil	G	Cooking potatoes; Deep frying
4659	Cigarette smoke	G	cigarette smoke
4661	Industrial surface coating operations - water based	G	Industrial Spray Painting Operations; Surface coating water-based
4662	Industrial surface coating operations - oil based	G	Industrial Spray Painting Operations; Surface coating oil-based
4673	Diesel composition	G	Diesel fuel
4674	Diesel Exhaust - Medium Duty Trucks	G	diesel truck exhaust; motor vehicles
4676	Gasoline - Amoco Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4677	Gasoline - Amoco Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4678	Gasoline - Citgo Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4679	Gasoline - Citgo Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4680	Gasoline - Clark Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4681	Gasoline - Clark Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4682	Gasoline - Mobile Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4683	Gasoline - Mobile Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4684	Gasoline - Shell Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4685	Gasoline - Shell Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4686	Gasoline - SuperAmerica Grade 87 - adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
4687	Gasoline - SuperAmerica Grade 92 - adjusted for oxygenates	G	Liquid gasoline
4688	Gasoline Headspace Vapor - BP Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4689	Gasoline Headspace Vapor - BP Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4690	Gasoline Headspace Vapor - BP Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4691	Gasoline Headspace Vapor - Mobile Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
4692	Gasoline Headspace Vapor - Mobile Grade 89 - adjusted for oxygenates	G	Gasoline headspace vapor
4693	Gasoline Headspace Vapor - Mobile Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
4694	Gasoline Headspace Vapor - Sunoco Gasohol - adjusted for oxygenates	G	Gasoline headspace vapor
4695	Gasoline - BP Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4696	Gasoline - BP Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4697	Gasoline - BP Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4698	Gasoline - Mobile Grade 87 - adjusted for oxygenates	G	Liquid gasoline
4699	Gasoline - Mobile Grade 89 - adjusted for oxygenates	G	Liquid gasoline
4700	Gasoline - Mobile Grade 93 - adjusted for oxygenates	G	Liquid gasoline
4701	Gasoline - Sunoco Gasohol - adjusted for oxygenates	G	Liquid gasoline
4702	Diesel Headspace Vapor - Shell Diesel - adjusted for oxygenates	G	Diesel fuel headspace vapor
4703	Diesel Headspace Vapor - Marathon Diesel - adjusted for oxygenates	G	Diesel fuel headspace vapor
4710	Olefins manufacturing (ethylene and propylene, SIC 2869)	G	Olefins manufacturing
4711	Olefins manufacturing (ethylene and propylene, SIC 2869)	G	Olefins manufacturing
4712	Olefins manufacturing (ethylene and propylene, SIC 2869)	G	Olefins manufacturing
4713	Petroleum Refining (SIC 2911)	G	Petroleum Refining
4714	Petroleum Refining (SIC 2911)	G	Petroleum Refining
4715	Petroleum Refining (SIC 2911)	G	Petroleum Refining
4716	Petroleum Refining (SIC 2911)	G	Petroleum Refining
4717	Petroleum Refining (SIC 2911)	G	Petroleum Refining
4730	External Combustion - Pulp and Paper Mills Kraft Process Recovery Boiler	G	External Combustion; Pulp and Paper Mills; Kraft Process Recovery Boiler
4731	External Combustion - Pulp and Paper Mills Kraft Process Recovery Boiler	G	External Combustion; Pulp and Paper Mills; Kraft Process Recovery Boiler
4732	External Combustion - Pulp and Paper Mills Kraft Process Recovery Boiler	G	External Combustion; Pulp and Paper Mills; Kraft Process Recovery Boiler
4738	Lawn Mowers - 4 stroke (non-oxygenated gasoline)	G	Lawn Mowers; Non-oxygenated Gasoline

Profile Number	Name	Profile Type	Keyword
4739	Lawn Mowers - 4 stroke (MTBE blended gasoline)	G	Lawn Mower; MTBE Blended Gasoline
4740	Diesel Exhaust - Bus at -10 oC, 4-stroke, oxidation catalyst	G	Diesel Exhaust; Diesel Bus; 4-stroke; Oxidation catalyst
4741	Diesel Exhaust - Bus at 20 oC, 4-stroke, oxidation catalyst	G	Diesel Exhaust; Diesel Bus; 4-stroke; Oxidation catalyst
4742	Diesel Exhaust - Bus at -10 oC, 2-stroke	G	Diesel Exhaust; Diesel Bus; 2-stroke
4743	Diesel Exhaust - Bus at 20 oC, 2-stroke	G	Diesel Exhaust; Diesel Bus; 2-stroke
4744	Diesel Exhaust - Bus at -10 oC, 2-stroke, oxidation catalyst	G	Diesel Exhaust; Diesel Bus; 2-stroke; Oxidation catalyst
4745	Diesel Exhaust - Bus at 20 oC, 2-stroke, oxidation catalyst	G	Diesel Exhaust; Diesel Bus; 2-stroke; Oxidation catalyst
4753	Diesel Exhaust - Light Duty Truck operated at 22.9 oC; Cold Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4754	Diesel Exhaust - Light Duty Truck operated at 22.9 oC; Hot Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4755	Diesel Exhaust - Light Duty Truck operated at 22.9 oC; Composite	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4756	Diesel Exhaust - Light Duty Truck operated at 22.6 oC; Cold Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4757	Diesel Exhaust - Light Duty Truck operated at 22.6 oC; Hot Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4758	Diesel Exhaust - Light Duty Truck operated at 22.6 oC; Composite	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4759	Biodiesel Exhaust - Light Duty Truck operated at 24.1 oC; Cold Start	G	Biodiesel Exhaust; 10% Biodiesel; Light Duty Truck; Oxidation Catalyst
4760	Biodiesel Exhaust - Light Duty Truck operated at 24.1 oC; Hot Start	G	Biodiesel Exhaust; 10% Biodiesel; Light Duty Truck; Oxidation Catalyst
4761	Biodiesel Exhaust - Light Duty Truck operated at 24.1 oC; Composite	G	Biodiesel Exhaust; 10% Biodiesel; Light Duty Truck; Oxidation Catalyst
4762	Biodiesel Exhaust - Light Duty Truck operated at 24.3 oC; Cold Start	G	Biodiesel Exhaust; 10% Biodiesel; Light Duty Truck; Oxidation Catalyst
4763	Biodiesel Exhaust - Light Duty Truck operated at 24.3 oC; Hot Start	G	Biodiesel Exhaust; 10% Biodiesel; Light Duty Truck; Oxidation Catalyst
4764	Biodiesel Exhaust - Light Duty Truck operated at 24.3 oC; Composite	G	Biodiesel Exhaust; 10% Biodiesel; Light Duty Truck; Oxidation Catalyst
4765	Biodiesel Exhaust - Light Duty Truck operated at 24.2 oC; Cold Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4766	Biodiesel Exhaust - Light Duty Truck operated at 24.2 oC; Hot Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4767	Biodiesel Exhaust - Light Duty Truck operated at 24.2 oC; Composite	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4768	Biodiesel Exhaust - Light Duty Truck operated at 24.1 oC; Cold Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4769	Biodiesel Exhaust - Light Duty Truck operated at 24.1 oC; Hot Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4770	Biodiesel Exhaust - Light Duty Truck operated at 24.1 oC; Composite	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4771	Biodiesel Exhaust - Light Duty Truck operated at 23.2 oC; Cold Start	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4772	Biodiesel Exhaust - Light Duty Truck operated at 23.2 oC; Hot Start	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4773	Biodiesel Exhaust - Light Duty Truck operated at 23.2 oC; Composite	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4774	Biodiesel Exhaust - Light Duty Truck operated at 24.8 oC; Cold Start	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst

Profile Number	Name	Profile Type	Keyword
4775	Biodiesel Exhaust - Light Duty Truck operated at 24.8 oC; Hot Start	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4776	Biodiesel Exhaust - Light Duty Truck operated at 24.8 oC; Composite	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4777	Biodiesel Exhaust - Light Duty Truck operated at 24.7 oC; Cold Start	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4778	Biodiesel Exhaust - Light Duty Truck operated at 24.7 oC; Hot Start	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4779	Biodiesel Exhaust - Light Duty Truck operated at 24.7 oC; Composite	G	Biodiesel Exhaust; 30% Biodiesel; Light Duty Truck; Oxidation Catalyst
4780	Diesel Exhaust - Light Duty Truck operated at 0.5 oC; Cold Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4781	Diesel Exhaust - Light Duty Truck operated at 0.5 oC; Hot Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4782	Diesel Exhaust - Light Duty Truck operated at 0.5 oC; Composite	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4783	Diesel Exhaust - Light Duty Truck operated at 0 oC; Hot Start	G	Diesel Exhaust; Light Duty Truck; Low Sulfur Diesel (<0.05%); Oxidation Catalyst
4784	Biodiesel Exhaust - Light Duty Truck operated at 0 oC; Cold Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4785	Biodiesel Exhaust - Light Duty Truck operated at 0 oC; Hot Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4786	Biodiesel Exhaust - Light Duty Truck operated at 0 oC; Composite	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4787	Biodiesel Exhaust - Light Duty Truck operated at 0 oC; Cold Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4788	Biodiesel Exhaust - Light Duty Truck operated at 0 oC; Hot Start	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4789	Biodiesel Exhaust - Light Duty Truck operated at 0 oC; Composite	G	Biodiesel Exhaust; 20% Biodiesel; Light Duty Truck; Oxidation Catalyst
4790	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP phase 1	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP phase 1
4791	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP phase 2	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP phase 2
4792	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP phase 3	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP phase 3
4793	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP composite	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP Composite
4794	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP phase 1	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP phase 1
4795	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP phase 2	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP phase 2
4796	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP phase 3	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP phase 3
4797	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP composite	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP Composite
4798	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP phase 1	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP phase 1
4799	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP phase 2	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP phase 2
4800	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP phase 3	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP phase 3
4801	Gasoline Exhaust - flexible fuel vehicle, reformulated gasoline, 2% oxygen, FTP composite	G	Gasoline Exhaust; Flexible Fuel Vehicle; Reformulated Gasoline 2% oxygen; FTP Composite

Profile Number	Name	Profile Type	Keyword
4802	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP phase 1	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP phase 1
4803	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP phase 2	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP phase 2
4804	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP phase 3	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP phase 3
4805	Gasoline Exhaust - flexible fuel vehicle, E85 gasoline, FTP composite	G	Gasoline Exhaust; Flexible Fuel Vehicle; E85 gasoline; FTP Composite
5295	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel	G	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel
5296	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	G	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
5297	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel - Diesel PM Filter	G	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel; Diesel PM Filter
5328	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 1
5329	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 2
5330	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 1
5331	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 2
5332	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle composite
5333	Gasoline Exhaust - Reformulated gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; US06 cycle
5334	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 1
5335	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 2
5336	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 1
5337	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 2
5338	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle composite
5339	Gasoline Exhaust - E10 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 gasoline; 20 oC; US06 cycle
5340	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 1
5341	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 2
5342	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 1
5343	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 2
5344	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle composite
5345	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; US06 cycle
5346	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 1
5347	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 2
5348	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 1

Profile Number	Name	Profile Type	Keyword
5349	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 2
5350	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle composite
5351	Gasoline Exhaust - E20 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E20 gasoline; 20 oC; US06 cycle
5352	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 1
5353	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 2
5354	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 1
5355	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 2
5356	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle composite
5357	Gasoline Exhaust - Reformulated gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; US06 cycle
5358	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 1
5359	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 2
5360	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 1
5361	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 2
5362	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle composite
5363	Gasoline Exhaust - E10 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 gasoline; 20 oC; US06 cycle
5364	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 1
5365	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 2
5366	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 1
5367	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 2
5368	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle composite
5369	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; US06 cycle
5370	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 1
5371	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 2
5372	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 1
5373	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 2
5374	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle composite
5375	Gasoline Exhaust - E20 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E20 gasoline; 20 oC; US06 cycle
5376	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 1
5377	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 2

Profile Number	Name	Profile Type	Keyword
5378	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 1
5379	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 2
5380	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle composite
5381	Gasoline Exhaust - Reformulated gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; US06 cycle
5382	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 1
5383	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 2
5384	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 1
5385	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 2
5386	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle composite
5387	Gasoline Exhaust - E10 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 gasoline; 20 oC; US06 cycle
5388	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 1
5389	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 2
5390	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 1
5391	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 2
5392	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle composite
5393	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; US06 cycle
5394	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 1
5395	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 2
5396	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 1
5397	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 2
5398	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle composite
5399	Gasoline Exhaust - E20 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E20 gasoline; 20 oC; US06 cycle
5400	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle cold start phase 1
5401	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle cold start phase 2
5402	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle hot start phase 1
5403	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle hot start phase 2
5404	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle composite
5405	Gasoline Exhaust - Reformulated gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; US06 cycle
5406	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle cold start phase 1

Profile Number	Name	Profile Type	Keyword
5407	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle cold start phase 2
5408	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle hot start phase 1
5409	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle hot start phase 2
5410	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle composite
5411	Gasoline Exhaust - E10 gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; E10 gasoline; -10 oC; US06 cycle
5412	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle cold start phase 1
5413	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle cold start phase 2
5414	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle hot start phase 1
5415	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle hot start phase 2
5416	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle composite
5417	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; US06 cycle
5418	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle cold start phase 1
5419	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle cold start phase 2
5420	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle hot start phase 1
5421	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle hot start phase 2
5422	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle composite
5423	Gasoline Exhaust - E-10 gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; E-10 gasoline; -10 oC; US06 cycle
5424	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 1
5425	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle cold start phase 2
5426	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 1
5427	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle hot start phase 2
5428	Gasoline Exhaust - Reformulated gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; FTP cycle composite
5429	Gasoline Exhaust - Reformulated gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; Reformulated gasoline; 20 oC; US06 cycle
5430	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 1
5431	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle cold start phase 2
5432	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 1
5433	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle hot start phase 2
5434	Gasoline Exhaust - E10 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 gasoline; 20 oC; FTP cycle composite

Profile Number	Name	Profile Type	Keyword
5435	Gasoline Exhaust - E10 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 gasoline; 20 oC; US06 cycle
5436	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 1
5437	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle cold start phase 2
5438	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 1
5439	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle hot start phase 2
5440	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; FTP cycle composite
5441	Gasoline Exhaust - E10 splash blend gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E10 splash blend gasoline; 20 oC; US06 cycle
5442	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 1
5443	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle cold start phase 2
5444	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 1
5445	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle hot start phase 2
5446	Gasoline Exhaust - E20 gasoline, 20 oC, FTP cycle composite	G	Gasoline Exhaust; E20 gasoline; 20 oC; FTP cycle composite
5447	Gasoline Exhaust - E20 gasoline, 20 oC, US06 cycle	G	Gasoline Exhaust; E20 gasoline; 20 oC; US06 cycle
5448	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle cold start phase 1
5449	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle cold start phase 2
5450	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle hot start phase 1
5451	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle hot start phase 2
5452	Gasoline Exhaust - Reformulated gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; FTP cycle composite
5453	Gasoline Exhaust - Reformulated gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; Reformulated gasoline; -10 oC; US06 cycle
5454	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle cold start phase 1
5455	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle cold start phase 2
5456	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle hot start phase 1
5457	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle hot start phase 2
5458	Gasoline Exhaust - E10 gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; E10 gasoline; -10 oC; FTP cycle composite
5459	Gasoline Exhaust - E10 gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; E10 gasoline; -10 oC; US06 cycle
5460	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle cold start phase 1
5461	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle cold start phase 2
5462	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle hot start phase 1

Profile Number	Name	Profile Type	Keyword
5463	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle hot start phase 2
5464	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; FTP cycle composite
5465	Gasoline Exhaust - E10 splash blend gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; E10 splash blend gasoline; -10 oC; US06 cycle
5466	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle cold start phase 1	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle cold start phase 1
5467	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle cold start phase 2	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle cold start phase 2
5468	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle hot start phase 1	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle hot start phase 1
5469	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle hot start phase 2	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle hot start phase 2
5470	Gasoline Exhaust - E-10 gasoline, -10 oC, FTP cycle composite	G	Gasoline Exhaust; E-10 gasoline; -10 oC; FTP cycle composite
5471	Gasoline Exhaust - E-10 gasoline, -10 oC, US06 cycle	G	Gasoline Exhaust; E-10 gasoline; -10 oC; US06 cycle
5472	Gasoline Vehicle - Diurnal evaporative - Reformulated gasoline	G	Gasoline Vehicle; Diurnal evaporative; Reformulated gasoline
5473	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5474	Gasoline Vehicle - Diurnal evaporative - E20 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E20 ethanol gasoline
5475	Gasoline Vehicle - Diurnal evaporative - E10 ethanol splash blend gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol splash blend gasoline
5476	Gasoline Vehicle - Hot soak - Reformulated gasoline	G	Gasoline Vehicle; Hot soak; Reformulated gasoline
5477	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5478	Gasoline Vehicle - Hot soak - E20 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E20 ethanol gasoline
5479	Gasoline Vehicle - Hot soak - E10 ethanol splash blend gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol splash blend gasoline
5480	Gasoline Vehicle - Hot soak - Reformulated gasoline	G	Gasoline Vehicle; Hot soak; Reformulated gasoline
5481	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5482	Gasoline Vehicle - Hot soak - E20 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E20 ethanol gasoline
5483	Gasoline Vehicle - Hot soak - E10 ethanol splash blend gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol splash blend gasoline
5484	Gasoline Vehicle - Diurnal evaporative - Reformulated gasoline	G	Gasoline Vehicle; Diurnal evaporative; Reformulated gasoline
5485	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5486	Gasoline Vehicle - Diurnal evaporative - E20 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E20 ethanol gasoline
5487	Gasoline Vehicle - Diurnal evaporative - E10 ethanol splash blend gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol splash blend gasoline
5488	Gasoline Vehicle - Hot soak - Reformulated gasoline	G	Gasoline Vehicle; Hot soak; Reformulated gasoline
5489	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5490	Gasoline Vehicle - Hot soak - E20 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E20 ethanol gasoline
5491	Gasoline Vehicle - Hot soak - E10 ethanol splash blend gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol splash blend gasoline

Profile Number	Name	Profile Type	Keyword
5492	Liquid Gasoline Composition - Reformulated gasoline	G	Liquid Gasoline Composition; Reformulated gasoline
5493	Liquid Gasoline Composition - E10 ethanol gasoline	G	Liquid Gasoline Composition; E10 ethanol gasoline
5494	Liquid Gasoline Composition - E20 ethanol gasoline	G	Liquid Gasoline Composition; E20 ethanol gasoline
5495	Liquid Gasoline Composition - E10 ethanol splash blend gasoline	G	Liquid Gasoline Composition; E10 ethanol splash blend gasoline
5496	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5497	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5498	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5499	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5500	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5501	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5502	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5503	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5504	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5505	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5506	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5507	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5508	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5509	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5510	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5511	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5512	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5513	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5514	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5515	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5516	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5517	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5518	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5519	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5520	Gasoline Vehicle - Hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline

Profile Number	Name	Profile Type	Keyword
5521	Gasoline Vehicle - Composite hot soak - E10 ethanol gasoline	G	Gasoline Vehicle; Hot soak; E10 ethanol gasoline
5522	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5523	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5524	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5525	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5526	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5527	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5528	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5529	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5530	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5531	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5532	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5533	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5534	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5535	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5536	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5537	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5538	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5539	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5540	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5541	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5542	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5543	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5544	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5545	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5546	Gasoline Vehicle - Diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5547	Gasoline Vehicle - Composite diurnal evaporative - E10 ethanol gasoline	G	Gasoline Vehicle; Diurnal evaporative; E10 ethanol gasoline
5548	Diesel Exhaust - Medium Duty Truck fueled with 2007 ultra-low sulfur diesel	G	Diesel Exhaust; Medium Duty Truck; 2007 Ultra-low Sulfur Diesel
5549	Diesel Exhaust - Medium Duty Truck fueled with 2007 ultra-low sulfur diesel	G	Diesel Exhaust; Medium Duty Truck; 2007 Ultra-low Sulfur Diesel

Profile Number	Name	Profile Type	Keyword
5550	Diesel Exhaust - Light Duty Truck fueled with 2007 ultra-low sulfur diesel	G	Diesel Exhaust; Light Duty Truck; 2007 Ultra-low Sulfur Diesel
5551	Diesel Exhaust - Light Duty Truck fueled with 2007 ultra-low sulfur diesel	G	Diesel Exhaust; Light Duty Truck; 2007 Ultra-low Sulfur Diesel
5552	Diesel Exhaust - Low Aromatic Diesel - Cold Start	G	Diesel Exhaust; Low Aromatic Diesel; Cold Start
5553	Diesel Exhaust - Low Aromatic Diesel - Hot Start	G	Diesel Exhaust; Low Aromatic Diesel; Hot Start
5554	Diesel Exhaust - Pre-1993 Diesel - Cold Start	G	Diesel Exhaust; Pre-1993 Diesel; Cold Start
5555	Diesel Exhaust - Pre-1993 Diesel - Hot Start	G	Diesel Exhaust; Pre-1993 Diesel; Hot Start
5556	Diesel Exhaust - Reformulated Diesel - Cold Start	G	Diesel Exhaust; Reformulated Diesel; Cold Start
5557	Diesel Exhaust - Reformulated Diesel - Hot Start	G	Diesel Exhaust; Reformulated Diesel; Hot Start
5558	Biomass Burning - Savanna & Grassland	G	Biomass Burning; Savanna & Grassland
5559	Biomass Burning - Tropical Forest	G	Biomass Burning; Tropical Forest
5560	Biomass Burning - Extratropical Forest	G	Biomass Burning; Extratropical Forest
5561	Biomass Burning - Biofuel Burning	G	Biomass Burning; Biofuel Burning
5562	Biomass Burning - Charcoal Making	G	Biomass Burning; Charcoal Making
5563	Biomass Burning - Charcoal Burning	G	Biomass Burning; Charcoal Burning
5564	Biomass Burning - Agricultural Residues	G	Biomass Burning; Agricultural Residues
5565	Aircraft Exhaust	G	Aircraft Exhaust; Jet Engine
5618	Light Duty Vehicle Exhaust - Gasoline - Test ID: S1-1	G	Gasoline Vehicle Exhaust
5619	Light Duty Vehicle Exhaust - Gasoline - Test ID: S1-2	G	Gasoline Vehicle Exhaust
5620	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-1	G	Gasoline Vehicle Exhaust
5621	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-2	G	Gasoline Vehicle Exhaust
5622	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-3	G	Gasoline Vehicle Exhaust
5623	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-4	G	Gasoline Vehicle Exhaust
5624	Light Duty Vehicle Exhaust - Gasoline - Test ID: S3-1	G	Gasoline Vehicle Exhaust
5625	Light Duty Vehicle Exhaust - Gasoline - Test ID: S3-2	G	Gasoline Vehicle Exhaust
5626	Light Duty Vehicle Exhaust - Gasoline - Test ID: S4-1	G	Gasoline Vehicle Exhaust
5627	Light Duty Vehicle Exhaust - Gasoline - Test ID: S4-2	G	Gasoline Vehicle Exhaust
5628	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-1	G	Gasoline Vehicle Exhaust
5629	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-2	G	Gasoline Vehicle Exhaust
5630	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-3	G	Gasoline Vehicle Exhaust

Profile Number	Name	Profile Type	Keyword
5631	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-4	G	Gasoline Vehicle Exhaust
5632	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-5	G	Gasoline Vehicle Exhaust
5633	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-1	G	Gasoline Vehicle Exhaust
5634	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-2	G	Gasoline Vehicle Exhaust
5635	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-3	G	Gasoline Vehicle Exhaust
5636	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-4	G	Gasoline Vehicle Exhaust
5637	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-1	G	Gasoline Vehicle Exhaust
5638	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-2	G	Gasoline Vehicle Exhaust
5639	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-3	G	Gasoline Vehicle Exhaust
5640	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-4	G	Gasoline Vehicle Exhaust
5641	Light Duty Vehicle Exhaust - Gasoline - Test ID: S8-1	G	Gasoline Vehicle Exhaust
5642	Light Duty Vehicle Exhaust - Gasoline - Test ID: S8-2	G	Gasoline Vehicle Exhaust
5643	Light Duty Vehicle Exhaust - Gasoline - Test ID: S8-3	G	Gasoline Vehicle Exhaust
5645	Residential Oil Boilers	G	Residential Oil Boilers, Combustion
5647	Residual Oil-Fired Power Plant	G	Residual Oil Boiler Combustion; Power Plant
5649	Kraft Process Recovery Boiler	G	Recovery Boiler; Pulp and paper facility
5650	Residential Wood Combustion	G	Residential Wood Combustion
5651	Landfill Gas - composite of extraction well gas	G	Landfill Gas; Extraction Well Gas
5652	Landfill Gas - gas collection systems	G	Landfill Gas; Flux Chamber Samples
5653	Landfill Gas - passive vents	G	Landfill Gas; Gas Collection Systems
5654	Landfill Gas - flux chamber samples	G	Landfill Gas; Passive Vents
5655	Gasoline - Mobile Grade 87 - adjusted for oxygenates	G	Liquid gasoline
5656	Gasoline - Exxon Grade 87 - adjusted for oxygenates	G	Liquid gasoline
5657	Gasoline - Shell Grade 87 - adjusted for oxygenates	G	Liquid gasoline
5658	Gasoline - Mobile Grade 93 - adjusted for oxygenates	G	Liquid gasoline
5659	Gasoline - Exxon Grade 93 - adjusted for oxygenates	G	Liquid gasoline
5660	Gasoline - Shell Grade 93 - adjusted for oxygenates	G	Liquid gasoline
5661	Gasoline - Mobile Gasohol 85 - adjusted for oxygenates	G	Liquid gasoline; Gasohol 85
5662	Gasoline Headspace Vapor - Mobile Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
5663	Gasoline Headspace Vapor - Exxon Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
5664	Gasoline Headspace Vapor - Shell Grade 87 - adjusted for oxygenates	G	Gasoline headspace vapor
5665	Gasoline Headspace Vapor - Mobile Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
5666	Gasoline Headspace Vapor - Exxon Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
5667	Gasoline Headspace Vapor - Shell Grade 93 - adjusted for oxygenates	G	Gasoline headspace vapor
5668	Gasoline Headspace Vapor - Mobile Gasohol 85 - adjusted for oxygenates	G	Gasoline headspace vapor; Gasohol 85
5677	Passenger ferry - four-stroke diesel engines	G	Passenger Ferry; Diesel Engine; Marine Vessel
5678	Passenger ferry - four-stroke diesel engines	G	Passenger Ferry; Diesel Engine; Marine Vessel
6000	Gasoline Headspace Vapors (Unburned Gasoline Summertime)	G	GASOLINE; GASOLINE HEADSPACE
6001	Non-Catalyst Gasoline Light Duty Vehicle Exhaust	G	NON-CATALYST VEHICLE EXHAUST; VEHICLES; GASOLINE COMBUSTION
6002	Surface Coating Operations (Industrial)	G	COATING; INDUSTRIAL
6003	Architectural Coatings (Solvent Coating and Thinning Solvent)	G	ARCHITECTURAL COATING; COATING; SOLVENT
6004	Whole Liquid Unburned Gasoline (Summer Blend)	G	GASOLINE - WHOLE; GASOLINE; GASOLINE - SUMMER
7000	Whole Gasoline: Service Station Profile	G	GASOLINE - WHOLE; GASOLINE; SERVICE STATION
7001	Whole Gasoline: Composite of Four Whole Gasoline Profiles	G	GASOLINE - WHOLE; GASOLINE; SERVICE STATION
7002	Whole Gasoline: Workplace Exposures Profile (Bulk Loading Facilities)	G	GASOLINE - WHOLE; GASOLINE; BULK LOADING FACILITIES
7003	Whole Gasoline: 1990 Atlanta Precursor Study: Weighted Average of Three Octane Grades	G	GASOLINE - WHOLE; GASOLINE; VEHICLES
7004	Whole Gasoline: 1990 Atlanta Precursor Study: 87 Octane Gasoline	G	GASOLINE - WHOLE; GASOLINE; GASOLINE - 87 OCTANE
7005	Whole Gasoline: 1990 Atlanta Precursor Study: 89 Octane Gasoline	G	GASOLINE - WHOLE; GASOLINE; GASOLINE - 89 OCTANE
7100	Particle Board & Fibreboard Mills	G	Pulp and paper facility
7101	Chemical Pulp Mills	G	Pulp and paper facility
7102	Chemical Pulp Mills	G	Pulp and paper facility
7103	Chemical Pulp Mills	G	Pulp and paper facility
7104	Waferboard Mills	G	Pulp and paper facility
7105	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7106	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7107	Petrochemical Mfg.	G	Petrochemical Mfg.
7108	Oilseed Processing	G	Oilseed Processing
7109	Oilseed Processing	G	Oilseed Processing

Profile Number	Name	Profile Type	Keyword
7110	Oilseed Processing	G	Oilseed Processing
7111	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7112	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7113	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7114	Forest Nurseries & Gathering Forest Products	G	Forest Nurseries & Gathering Forest Products
7115	Conventional Oil & Gas Extraction	G	Conventional Oil & Gas Extraction
7116	Petrochemical Mfg.	G	Petrochemical Mfg.
7117	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7118	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7119	Petroleum Refineries	G	Petroleum Refineries
7120	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7121	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7122	Petroleum Refineries	G	Petroleum Refineries
7123	Petrochemical Mfg.	G	Petrochemical Mfg.
7124	Petrochemical Mfg.	G	Petrochemical Mfg.
7125	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7126	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7127	Petrochemical Mfg.	G	Petrochemical Mfg.
7128	Chemical Fertilizer (except Potash) Mfg.	G	Chemical Fertilizer (except Potash) Mfg.
7129	Chemical Fertilizer (except Potash) Mfg.	G	Chemical Fertilizer (except Potash) Mfg.
7130	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7131	Petrochemical Mfg.	G	Petrochemical Mfg.
7132	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7133	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7134	Petrochemical Mfg.	G	Petrochemical Mfg.
7135	Petroleum Refineries	G	Petroleum Refineries
7136	Chemical Fertilizer (except Potash) Mfg.	G	Chemical Fertilizer (except Potash) Mfg.
7137	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7138	Paint & Coating Mfg.	G	Paint & Coating Mfg.

Profile Number	Name	Profile Type	Keyword
7139	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7140	Other Printing	G	Other Printing
7141	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7142	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7143	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7144	Petrochemical Mfg.	G	Petrochemical Mfg.
7145	Petrochemical Mfg.	G	Petrochemical Mfg.
7146	Petroleum Refineries	G	Petroleum Refineries
7147	Conventional Oil & Gas Extraction	G	Conventional Oil & Gas Extraction
7148	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7149	Chemical Fertilizer (except Potash) Mfg.	G	Chemical Fertilizer (except Potash) Mfg.
7150	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7151	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7152	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7153	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7154	Other Printing	G	Other Printing
7155	Non-Conventional Oil Extraction	G	Non-Conventional Oil Extraction
7156	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7157	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7158	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7159	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7160	Oilseed Processing	G	Oilseed Processing
7161	Oilseed Processing	G	Oilseed Processing
7162	Other Printing	G	Other Printing
7163	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7164	Petrochemical Mfg.	G	Petrochemical Mfg.
7165	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7166	Oilseed Processing	G	Oilseed Processing
7167	Other Electric Power Generation	G	Other Electric Power Generation

Profile Number	Name	Profile Type	Keyword
7168	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7169	Oilseed (exc. Soybean) Farming	G	Oilseed (exc. Soybean) Farming
7170	Oilseed Processing	G	Oilseed Processing
7171	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7172	Services to Oil & Gas Extraction	G	Services to Oil & Gas Extraction
7173	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7174	Other Warehousing & Storage	G	Other Warehousing & Storage
7175	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7176	Other Printing	G	Other Printing
7177	Oilseed Processing	G	Oilseed Processing
7178	Automobile & Light-Duty Motor Vehicle Mfg.	G	Automobile & Light-Duty Motor Vehicle Mfg.
7179	Conventional Oil & Gas Extraction	G	Conventional Oil & Gas Extraction
7180	Petroleum Product Whl.	G	Petroleum Product Whl.
7181	Other Electric Power Generation	G	Other Electric Power Generation
7182	Petrochemical Mfg.	G	Petrochemical Mfg.
7183	Services to Oil & Gas Extraction	G	Services to Oil & Gas Extraction
7184	Services to Oil & Gas Extraction	G	Services to Oil & Gas Extraction
7185	Conventional Oil & Gas Extraction	G	Conventional Oil & Gas Extraction
7186	Other Printing	G	Other Printing
7187	Other Printing	G	Other Printing
7188	Other Printing	G	Other Printing
7189	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7190	Plastics Bag Manufacturing	G	Plastics Bag Manufacturing
7191	Other Printing	G	Other Printing
7192	Other Printing	G	Other Printing
7193	Other Printing	G	Other Printing
7194	Other Printing	G	Other Printing
7195	Paint & Coating Mfg.	G	Paint & Coating Mfg.
7196	Other Electric Power Generation	G	Other Electric Power Generation

Profile Number	Name	Profile Type	Keyword
7197	Natural Gas Distribution	G	Natural Gas Distribution
7198	Services to Oil & Gas Extraction	G	Services to Oil & Gas Extraction
7199	Petrochemical Mfg.	G	Petrochemical Mfg.
8001	Solvent Utilization:1,2,4-Trichlorobenzene	G	SOLVENT; TRICHLOROBENZENE
8005	Solvent Utilization:1,2 Dichloroethane	G	DICHLOROETHANE; SOLVENT
8020	Solvent Utilization:2-Ethylhexanol	G	ETHYLHEXANOL; SOLVENT
8025	Solvent Utilization:Acetal & Other Aroma Chemicals	G	SOLVENT; ACETAL CHEMICALS
8035	Solvent Utilization:Acetonitrile	G	ACETONITRILE; SOLVENT
8040	Solvent Utilization:Amyl Alcohols (Mixed)	G	AMYL ALCOHOL; SOLVENT
8045	Solvent Utilization:Benzyl Alcohol	G	BENZYL ALCOHOL; SOLVENT
8050	Solvent Utilization:Buty Benzoate	G	BUTY BENZOATE; SOLVENT
8075	Solvent Utilization:Carbon Disulfide	G	CARBON DISULFIDE; SOLVENT
8085	Solvent Utilization:Chlorofluorocarbons: General	G	CHLOROFLUOROCARBONS; SOLVENT
8095	Solvent Utilization:Cresylic Acid	G	CRESYLIC ACID; SOLVENT
8105	Solvent Utilization:Decanol	G	DECANOL; SOLVENT
8110	Solvent Utilization:Diacetone Alcohol	G	DIACETONE ALCOHOL; SOLVENT
8115	Solvent Utilization:Diethylamine	G	DIETHYLAMINE; SOLVENT
8125	Solvent Utilization:Diethylene Glycol Monobutyl Ether	G	DIETHYLENE GLYCOL BUTYL ETHER; SOLVENT
8130	Solvent Utilization:Diethylene Glycol Monoethyl Ether	G	DIETHYLENE GLYCOL ETHYL ETHER; SOLVENT
8135	Solvent Utilization:Diethylene Glycol Monomethyl Ether	G	DIETHYLENE GLYCOL METHYL ETHER; SOLVENT
8140	Solvent Utilization:Dimethyl Acetamide	G	DIMETHYL ACETAMIDE; SOLVENT
8145	Solvent Utilization:Dimethylamine	G	DIMETHYLAMINE; SOLVENT
8160	Solvent Utilization:Dipropylene Glycol Monomethyl Ether	G	DIPROPYLENE GLYCOL METHYL ETHE; SOLVENT
8175	Solvent Utilization:Ethyl Chloride (Chloroethane)	G	ETHYL CHLORIDE; CHLOROETHANE; SOLVENT
8200	Solvent Utilization:Ethylene Glycol Monoethyl Ether (2-Ethoxyethanol)	G	ETHOXYETHANOL; 2-; ETHYLENE GLYCOL ETHYL ETHER; SOLVENT
8205	Solvent Utilization:Ethylene Glycol Monoethyl Ether Acetate	G	GLYCOL ETHYL ETHER ACETATE; SOLVENT
8210	Solvent Utilization:Ethylene Glycol Monomethyl Ether (2-Methoxyethanol)	G	ETHYLENE GLYCOL METHYL ETHER; METHOXYETHANOL; 2-; SOLVENT
8215	Solvent Utilization:Ethylene Glycol Monobutyl Ether (2-Butoxyethanol)	G	BUTOXYETHANOL; 2-; ETHYLENE GLYCOL BUTYL ETHER; SOLVENT
8220	Solvent Utilization:Formalin	G	FORMALIN; SOLVENT

Profile Number	Name	Profile Type	Keyword
8225	Solvent Utilization:Formic Acid	G	FORMIC ACID; SOLVENT
8235	Solvent Utilization:Glycol Ethers: All Types	G	GLYCOL ETHERS; SOLVENT
8245	Solvent Utilization:Isobutyl Acetate	G	ISOBUTYL ACETATE; SOLVENT
8265	Solvent Utilization:Methyl Chloride	G	METHYL CHLORIDE; SOLVENT
8280	Solvent Utilization:Methyl Isobutyl Carbinol	G	METHYL ISOBUTYL CARBINOL; SOLVENT
8290	Solvent Utilization:Methylamine	G	METHYLAMINE; SOLVENT
8305	Solvent Utilization:N-Methyl-2-Pyrrolidone	G	METHYL-2-PYRROLIDINONE; SOLVENT
8310	Solvent Utilization:N-Propanol	G	PROPANOL; SOLVENT
8315	Solvent Utilization:Naphthenic Acids	G	NAPHTHENIC ACIDS; SOLVENT
8325	Solvent Utilization:o-,m-,& p-Cresol	G	CRESOL; SOLVENT
8335	Solvent Utilization:Oxalic Acid	G	OXALIC ACID; SOLVENT
8340	Solvent Utilization:P-Dichlorobenzene	G	DICHLOROBENZENE; SOLVENT
8355	Solvent Utilization:Propylene Glycol Monomethyl Ether	G	PROPYLENE GLYCOL METHYL ETHER; SOLVENT
8360	Solvent Utilization:Propylene Glycol Monomethyl Ether Acetate	G	SOLVENT; GLYCOL MONOMETHYL ETHER ACETAT
8365	Solvent Utilization:Pyridine	G	PYRIDINE; SOLVENT
8375	Solvent Utilization:Tetrohydrofuran	G	SOLVENT; TETROHYDROFURAN
8395	Solvent Utilization:Triethylamine	G	SOLVENT; TRIETHYLAMINE
8400	Solvent Utilization:Triethylene Glycol	G	SOLVENT; TRIETHYLENE GLYCOL
8500	Consumer and Commercial Products: Comprehensive Consumer and Commercial Product Profile	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS
8501	Consumer and Commercial Products: Personal Care Products: All Personal Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS
8502	Consumer and Commercial Products: Personal Care Products: Hair Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; HAIR CARE PRODUCTS
8503	Consumer and Commercial Products: Personal Care Products: Deodorants and Antiperspirants	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; DEODORANTS; ANTIPERSPIRANTS
8504	Consumer and Commercial Products: Personal Care Products: Fragrance Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; FRAGRANCE PRODUCTS
8505	Consumer and Commercial Products: Personal Care Products: Powders	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; POWDERS (PERSONAL CARE)
8506	Consumer and Commercial Products: Personal Care Products: Nail Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; NAIL CARE PRODUCTS
8507	Consumer and Commercial Products: Personal Care Products: Facial and Body Treatments	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; FACIAL TREATMENTS
8508	Consumer and Commercial Products: Personal Care Products: Oral Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; ORAL CARE PRODUCTS

Profile Number	Name	Profile Type	Keyword
8509	Consumer and Commercial Products: Personal Care Products: Health Use Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS; HEALTH USE PRODUCTS
8510	Consumer and Commercial Products: Personal Care Products: Miscellaneous Personal Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; PERSONAL CARE PRODUCTS
8511	Consumer and Commercial Products: Household Products: All Household Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS
8512	Consumer and Commercial Products: Household Products: Hard Surface Cleaners	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS; CLEANER; HARD SURFACE
8513	Consumer and Commercial Products: Household Products: Laundry Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS; LAUNDRY PRODUCTS
8514	Consumer and Commercial Products: Household Products: Fabric and Carpet Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS; CARPET CARE PRODUCTS
8515	Consumer and Commercial Products: Household Products: Dishwashing Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS; DISHWASHING PRODUCTS
8516	Consumer and Commercial Products: Household Products: Waxes and Polishes	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS; WAXES; POLISHES
8517	Consumer and Commercial Products: Household Products: Air Fresheners	G	COMMERCIAL PRODUCTS; CONSUMER PRODUCTS; HOUSEHOLD PRODUCTS; AIR FRESHENERS
8518	Consumer and Commercial Products: Household Products: Shoe and Leather Care Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS; LEATHER CARE PRODUCTS; SHOE CARE PRODUCTS
8519	Consumer and Commercial Products: Household Products: Miscellaneous Household Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; HOUSEHOLD PRODUCTS
8520	Consumer and Commercial Products: Automotive Aftermarket Products: All Automotive Aftermarket Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; AUTOMOBILE PRODUCTS
8521	Consumer and Commercial Products: Automotive Aftermarket Products: Detailing Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; AUTOMOBILE PRODUCTS
8522	Consumer and Commercial Products: Automotive Aftermarket Products: Maintenance and Repair Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; AUTOMOBILE PRODUCTS
8523	Consumer and Commercial Products: Adhesives and Sealants: All Adhesives and Sealants	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; SEALANTS; ADHESIVE
8524	Consumer and Commercial Products: Adhesives and Sealants: Consumer Adhesives	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; ADHESIVE
8525	Consumer and Commercial Products: Adhesives and Sealants: Sealants	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; SEALANTS
8526	Consumer and Commercial Products: Fifra Related Products: All Fifra Related Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FIFRA RELATED PRODUCTS
8527	Consumer and Commercial Products: Fifra Related Products: Insecticides	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FIFRA RELATED PRODUCTS; INSECTICIDES
8528	Consumer and Commercial Products: Fifra Related Products: Fungicides and Nematides	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FIFRA RELATED PRODUCTS; FUNGICIDES; NEMATICIDES
8529	Consumer and Commercial Products: Fifra Related Products: Herbicides	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FIFRA RELATED PRODUCTS; HERBICIDES
8530	Consumer and Commercial Products: Fifra Related Products: Antimicrobial Agents	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FIFRA RELATED PRODUCTS; ANTIMICROBIAL AGENTS
8531	Consumer and Commercial Products: Fifra Related Products: Other FIFRA-Regulated Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FIFRA RELATED PRODUCTS

Profile Number	Name	Profile Type	Keyword
8532	Consumer and Commercial Products: Coatings and Related Products: All Coatings and Related Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; COATING
8533	Consumer and Commercial Products: Coatings and Related Products: Aerosol Spray Paints	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; COATING
8534	Consumer and Commercial Products: Coatings and Related Products: Coating-Related Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; COATING
8535	Consumer and Commercial Products: Miscellaneous Products: All Miscellaneous Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS
8536	Consumer and Commercial Products: Miscellaneous Products: Arts and Crafts Supplies	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; CRAFT SUPPLIES
8537	Consumer and Commercial Products: Miscellaneous Products: Non-Pesticidal Veterinary and Pet Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; VETERINARY (NON-PESTICIDAL); PET PRODUCTS
8538	Consumer and Commercial Products: Miscellaneous Products: Pressurized Food Products	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; FOOD
8539	Consumer and Commercial Products: Miscellaneous Products: Office Supplies	G	CONSUMER PRODUCTS; COMMERCIAL PRODUCTS; OFFICE SUPPLIES
8540	Gasoline Headspace Vapor - Exxon Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8541	Gasoline Headspace Vapor - Exxon Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8542	Gasoline Headspace Vapor - Exxon Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8543	Gasoline Headspace Vapor - Texaco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8544	Gasoline Headspace Vapor - Texaco Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8545	Gasoline Headspace Vapor - Texaco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8546	Gasoline Headspace Vapor - Chevron Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8547	Gasoline Headspace Vapor - Chevron Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8548	Gasoline Headspace Vapor - Chevron Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8549	Gasoline Headspace Vapor - Conoco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8550	Gasoline Headspace Vapor - Conoco Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8551	Gasoline Headspace Vapor - Conoco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8552	Gasoline Headspace Vapor - Shell Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8553	Gasoline Headspace Vapor - Shell Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8554	Gasoline Headspace Vapor - Shell Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8555	Gasoline Headspace Vapor - Texaco Super - not adjusted for oxygenates	G	Gasoline headspace vapor
8556	Gasoline Headspace Vapor - Texaco Plus - not adjusted for oxygenates	G	Gasoline headspace vapor
8557	Gasoline Headspace Vapor - Texaco Regular - not adjusted for oxygenates	G	Gasoline headspace vapor
8558	Gasoline Headspace Vapor - Shell Super - not adjusted for oxygenates	G	Gasoline headspace vapor
8559	Gasoline Headspace Vapor - Shell Plus - not adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
8560	Gasoline Headspace Vapor - Shell Regular - not adjusted for oxygenates	G	Gasoline headspace vapor
8561	Gasoline Headspace Vapor - Arco Super - not adjusted for oxygenates	G	Gasoline headspace vapor
8562	Gasoline Headspace Vapor - Arco Plus - not adjusted for oxygenates	G	Gasoline headspace vapor
8563	Gasoline Headspace Vapor - Arco Regular - not adjusted for oxygenates	G	Gasoline headspace vapor
8564	Gasoline Headspace Vapor - Chevron Super - not adjusted for oxygenates	G	Gasoline headspace vapor
8565	Gasoline Headspace Vapor - Chevron Plus - not adjusted for oxygenates	G	Gasoline headspace vapor
8566	Gasoline Headspace Vapor - Chevron Regular - not adjusted for oxygenates	G	Gasoline headspace vapor
8567	Gasoline Headspace Vapor - 76 Super - not adjusted for oxygenates	G	Gasoline headspace vapor
8568	Gasoline Headspace Vapor - 76 Plus - not adjusted for oxygenates	G	Gasoline headspace vapor
8569	Gasoline Headspace Vapor - 76 Regular - not adjusted for oxygenates	G	Gasoline headspace vapor
8570	Gasoline Headspace Vapor - Shell Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8571	Gasoline Headspace Vapor - Shell Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8572	Gasoline Headspace Vapor - Citgo Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8573	Gasoline Headspace Vapor - Citgo Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8574	Gasoline Headspace Vapor - Super America Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8575	Gasoline Headspace Vapor - Super America Grade 92 - not adjusted for oxygenates	G	Gasoline headspace vapor
8576	Gasoline Headspace Vapor - Mobil Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8577	Gasoline Headspace Vapor - Mobil Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8578	Gasoline Headspace Vapor - Clark Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8579	Gasoline Headspace Vapor - Clark Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8580	Gasoline Headspace Vapor - Amoco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8581	Gasoline Headspace Vapor - Amoco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8582	Gasoline Headspace Vapor - Amoco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8583	Gasoline Headspace Vapor - Exxon Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8584	Gasoline Headspace Vapor - BP Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8585	Gasoline Headspace Vapor - Mapco #1 Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8586	Gasoline Headspace Vapor - Mapco #2 Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8587	Gasoline Headspace Vapor - Amoco Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8588	Gasoline Headspace Vapor - BP Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
8589	Gasoline Headspace Vapor - Exxon Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8590	Gasoline Headspace Vapor - Mapco #1 Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8591	Gasoline Headspace Vapor - Mapco #2 Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8592	Gasoline Headspace Vapor - Amoco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8593	Gasoline Headspace Vapor - BP Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8594	Gasoline Headspace Vapor - Exxon Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8595	Gasoline Headspace Vapor - Mapco #1 Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8596	Gasoline Headspace Vapor - Mapco #2 Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8597	Gasoline Headspace Vapor - Amoco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8598	Gasoline Headspace Vapor - Amoco Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8599	Gasoline Headspace Vapor - Amoco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8600	Gasoline Headspace Vapor - Exxon Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8601	Gasoline Headspace Vapor - Exxon Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8602	Gasoline Headspace Vapor - Exxon Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8603	Gasoline Headspace Vapor - Citgo Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8604	Gasoline Headspace Vapor - Citgo Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8605	Gasoline Headspace Vapor - Citgo Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8606	Gasoline - Shell Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8607	Gasoline - Citgo Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8608	Gasoline Headspace Vapor - Texaco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8609	Gasoline Headspace Vapor - Texaco Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8610	Gasoline Headspace Vapor - Texaco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8611	Gasoline Headspace Vapor - Circle K Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8612	Gasoline Headspace Vapor - Circle K Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8613	Gasoline Headspace Vapor - Circle K Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8614	Gasoline Headspace Vapor - Circle K Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8615	Gasoline Headspace Vapor - Amoco Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8616	Gasoline Headspace Vapor - Amoco Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8617	Gasoline Headspace Vapor - Amoco Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor

Profile Number	Name	Profile Type	Keyword
8618	Gasoline Headspace Vapor - Circle K Diesel - not adjusted for oxygenates	G	Gasoline headspace vapor
8619	Gasoline Headspace Vapor - Independent Diesel - not adjusted for oxygenates	G	Gasoline headspace vapor
8620	Diesel Headspace Vapor - Super America Diesel - not adjusted for oxygenates	G	Diesel fuel headspace vapor
8621	Diesel Headspace Vapor - Citgo Diesel - not adjusted for oxygenates	G	Diesel fuel headspace vapor
8622	Diesel Headspace Vapor - Shell Diesel - not adjusted for oxygenates	G	Diesel fuel headspace vapor
8623	Diesel Headspace Vapor - Citgo Diesel - not adjusted for oxygenates	G	Diesel fuel headspace vapor
8624	Gasoline Headspace Vapor - Shell Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8625	Gasoline Headspace Vapor - Citgo Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8626	Gasoline - Exxon Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8627	Gasoline - Exxon Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8628	Gasoline - Exxon Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8629	Gasoline - Texaco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8630	Gasoline - Texaco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8631	Gasoline - Texaco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8632	Gasoline - Chevron Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8633	Gasoline - Chevron Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8634	Gasoline - Chevron Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8635	Gasoline - Conoco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8636	Gasoline - Conoco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8637	Gasoline - Conoco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8638	Gasoline - Shell Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8639	Gasoline - Shell Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8640	Gasoline - Shell Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8641	Gasoline - Shell Super - not adjusted for oxygenates	G	Liquid gasoline
8642	Gasoline - Shell Plus - not adjusted for oxygenates	G	Liquid gasoline
8643	Gasoline - Shell Regular - not adjusted for oxygenates	G	Liquid gasoline
8644	Gasoline - Chevron Super - not adjusted for oxygenates	G	Liquid gasoline
8645	Gasoline - Chevron Plus - not adjusted for oxygenates	G	Liquid gasoline
8646	Gasoline - Chevron Regular - not adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
8647	Gasoline - 76 Super - not adjusted for oxygenates	G	Liquid gasoline
8648	Gasoline - 76 Plus - not adjusted for oxygenates	G	Liquid gasoline
8649	Gasoline - 76 Regular - not adjusted for oxygenates	G	Liquid gasoline
8650	Gasoline - Texaco Super - not adjusted for oxygenates	G	Liquid gasoline
8651	Gasoline - Texaco Plus - not adjusted for oxygenates	G	Liquid gasoline
8652	Gasoline - Texaco Regular - not adjusted for oxygenates	G	Liquid gasoline
8653	Gasoline - ARCO Super - not adjusted for oxygenates	G	Liquid gasoline
8654	Gasoline - ARCO Plus - not adjusted for oxygenates	G	Liquid gasoline
8655	Gasoline - ARCO Regular - not adjusted for oxygenates	G	Liquid gasoline
8656	Gasoline - Amoco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8657	Gasoline - Mapco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8658	Gasoline - Citgo Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8659	Gasoline - BP Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8660	Gasoline - Exxon Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8661	Gasoline - Amoco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8662	Gasoline - Mapco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8663	Gasoline - Citgo Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8664	Gasoline - BP Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8665	Gasoline - Exxon Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8666	Gasoline - Amoco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8667	Gasoline - Mapco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8668	Gasoline - Citgo Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8669	Gasoline - BP Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8670	Gasoline - Exxon Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8671	Gasoline - Amoco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8672	Gasoline - BP Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8673	Gasoline - Exxon Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8674	Gasoline - Mapco #1 Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8675	Gasoline - Mapco #2 Grade 93 - not adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
8676	Gasoline - Amoco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8677	Gasoline - BP Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8678	Gasoline - Exxon Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8679	Gasoline - Mapco #1 Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8680	Gasoline - Mapco #2 Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8681	Gasoline - Amoco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8682	Gasoline - BP Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8683	Gasoline - Exxon Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8684	Gasoline - Mapco #1 Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8685	Gasoline - Mapco #2 Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8686	Gasoline - Texaco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8687	Gasoline - Texaco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8688	Gasoline - Texaco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8689	Gasoline -Circle K Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8690	Gasoline -Circle K Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8691	Gasoline -Circle K Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8692	Gasoline - Amoco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8693	Gasoline - Amoco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8694	Gasoline - Amoco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8695	Gasoline - Amoco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8696	Gasoline - Amoco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8697	Gasoline - Citgo Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8698	Gasoline - Citgo Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8699	Gasoline - Clark Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8700	Gasoline - Clark Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8701	Gasoline - Mobile Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8702	Gasoline - Mobile Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8703	Gasoline - Shell Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8704	Gasoline - Shell Grade 93 - not adjusted for oxygenates	G	Liquid gasoline

Profile Number	Name	Profile Type	Keyword
8705	Gasoline - SuperAmerica Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8706	Gasoline - SuperAmerica Grade 92 - not adjusted for oxygenates	G	Liquid gasoline
8707	Gasoline - Amoco Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8708	Gasoline - Amoco Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8709	Gasoline - Amoco Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8710	Gasoline - Exxon Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8711	Gasoline - Exxon Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8712	Gasoline - Exxon Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8713	Gasoline - Citgo Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8714	Gasoline - Citgo Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8715	Gasoline - Citgo Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8716	Gasoline Headspace Vapor - BP Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8717	Gasoline Headspace Vapor - BP Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8718	Gasoline Headspace Vapor - BP Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8719	Gasoline Headspace Vapor - Mobile Grade 87 - not adjusted for oxygenates	G	Gasoline headspace vapor
8720	Gasoline Headspace Vapor - Mobile Grade 89 - not adjusted for oxygenates	G	Gasoline headspace vapor
8721	Gasoline Headspace Vapor - Mobile Grade 93 - not adjusted for oxygenates	G	Gasoline headspace vapor
8722	Gasoline Headspace Vapor - Sunoco Gasohol - not adjusted for oxygenates	G	Gasoline headspace vapor
8723	Gasoline - BP Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8724	Gasoline - BP Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8725	Gasoline - BP Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8726	Gasoline - Mobile Grade 87 - not adjusted for oxygenates	G	Liquid gasoline
8727	Gasoline - Mobile Grade 89 - not adjusted for oxygenates	G	Liquid gasoline
8728	Gasoline - Mobile Grade 93 - not adjusted for oxygenates	G	Liquid gasoline
8729	Gasoline - Sunoco Gasohol - not adjusted for oxygenates	G	Liquid gasoline
8730	Diesel Headspace Vapor - Shell Diesel - not adjusted for oxygenates	G	Diesel fuel headspace vapor
8731	Diesel Headspace Vapor - Marathon Diesel - not adjusted for oxygenates	G	Diesel fuel headspace vapor
8732	Composite Profile - MTBE Blended Gasoline	G	Composite Profile; MTBE Gasoline
8733	Composite Profile - Ethanol Blended Gasoline	G	Composite Profile; Ethanol Gasoline

Profile Number	Name	Profile Type	Keyword
8734	Composite Profile - Non-oxygenated Gasoline	G	Composite Profile; Non-Oxygenated Gasoline
8735	Composite Profile - MTBE Blended Gasoline Headspace Vapor	G	Composite Profile; MTBE Gasoline headspace vapor
8736	Composite Profile - Ethanol Blended Gasoline Headspace Vapor	G	Composite Profile; Ethanol Gasoline headspace vapor
8737	Composite Profile - Non-oxygenated Gasoline Headspace Vapor	G	Composite Profile; Non-Oxygenated Gasoline headspace vapor
8743	Composite Profile - Forest Fires	G	Biomass open burning; Foliar fuels; Wild fires; Prescribed burning; Forest fires
8744	Composite Profile - Architectural Coatings: Solvent Borne and water borne	G	Architectural Coatings
8745	Composite Profile - Degreasing: Cold Cleaning (Batch, Conveyor, Spray Gun)	G	Degreasing
8746	Composite Profile - Straw Burning	G	Agricultural Burning; Prescribed Burning
8748	Composite Profile - Overall Liquid Gasoline (MTBE, Ethanol, and Non-Oxygenated)	G	Composite Profile; Overall Liquid Gasoline
8749	Composite Profile - Overall Gasoline headspace vapor (MTBE, Ethanol, and Non-Oxygenated)	G	Composite Profile; Overall Gasoline headspace vapor
8750	Gasoline Exhaust - Reformulated gasoline	G	Gasoline Exhaust; Reformulated gasoline
8750a	Gasoline Exhaust - Reformulated gasoline	G	Gasoline Exhaust; Reformulated gasoline
8751	Gasoline Exhaust - E10 ethanol gasoline	G	Gasoline Exhaust; E10 ethanol gasoline
8751a	Gasoline Exhaust - E10 ethanol gasoline	G	Gasoline Exhaust; E10 ethanol gasoline
8752	Gasoline Exhaust - E85 ethanol gasoline	G	Gasoline Exhaust; E85 ethanol gasoline
8753	Gasoline Vehicle - Evaporative emission - Reformulated gasoline	G	Gasoline Vehicle; Evaporative emission; Reformulated gasoline
8754	Gasoline Vehicle - Evaporative emission - E10 ethanol gasoline	G	Gasoline Vehicle; Evaporative emission; E10 ethanol gasoline
8755	Gasoline Vehicle - Evaporative emission - E85 ethanol gasoline	G	Gasoline Vehicle; Evaporative emission; E85 ethanol gasoline
8756	Gasoline Exhaust - Tier 2 light-duty vehicles using 0% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust
8757	Gasoline Exhaust - Tier 2 light-duty vehicles using 10% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; 10% Ethanol
8758	Gasoline Exhaust - Tier 2 light-duty vehicles using 15% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; 15% Ethanol
8759	Gasoline Exhaust - Cold Start - Tier 2 light-duty vehicles using 0% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; Cold Start Exhaust
8760	Gasoline Exhaust - Cold Start - Tier 2 light-duty vehicles using 10% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; Cold Start Exhaust; 10% Ethanol
8761	Gasoline Exhaust - Cold Start - Tier 2 light-duty vehicles using 15% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; Cold Start Exhaust; 15% Ethanol
8762	Gasoline Headspace Vapor using 0% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; Headspace Vapor
8763	Gasoline Headspace Vapor using 10% Ethanol - Composite Profile	G	Gasoline Vehicle Exhaust; Headspace Vapor; 10% Ethanol
8764	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 7 RVP - Composite Profile	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 7 RVP

Profile Number	Name	Profile Type	Keyword
8765	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 9 RVP - Composite Profile	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 9 RVP
8766	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol - Combined - Composite Profile	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol
8767	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 7 RVP - Composite Profile	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 7 RVP
8768	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 10 RVP - Composite Profile	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 10 RVP
8769	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol - Combined - Composite Profile	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol
8770	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 15% Ethanol - Combined	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 15% Ethanol
8771	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 7 RVP	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 7 RVP
8772	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 9 RVP	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 10 RVP
8773	Diurnal Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol - Combined	G	Diurnal Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol
8774	Diesel Exhaust Emissions from Pre-2007 Model Year Heavy-Duty Diesel Trucks	G	Diesel Exhaust; Heavy-heavy duty truck; pre-2007 model year
8775	Diesel Exhaust Emissions from 2007 Model Year Heavy-Duty Diesel Engines with Controls	G	Diesel Exhaust; Heavy-heavy duty truck; 2007 model year; Ultra-low sulfur diesel
8776	Dry Mill Fuel Ethanol Production - whole facility	G	Fuel ethanol production
8777	Dry Mill Fuel Ethanol Production - cooling cyclone	G	Fuel ethanol production; cooling cyclone
8778	Dry Mill Fuel Ethanol Production - distillation scrubber	G	Fuel ethanol production; distillation scrubber
8779	Dry Mill Fuel Ethanol Production - fermentation bypass	G	Fuel ethanol production; fermentation bypass
8780	Dry Mill Fuel Ethanol Production - fermentation scrubber	G	Fuel ethanol production; fermentation scrubber
8781	Dry Mill Fuel Ethanol Production - fluid bed cooler	G	Fuel ethanol production; fluid bed cooler
8782	Dry Mill Fuel Ethanol Production - thermal oxidizer	G	Fuel ethanol production; thermal oxidizer
8783	Pulp and Paper Mills - Kraft Mill Bleach Plants	G	Pulp and Paper Mills; Kraft Mill Bleach Plants
8784	Pulp and Paper Mills - Kraft Oxygen Delignification System Vents	G	Pulp and Paper Mills; Kraft Oxygen Delignification System Vents
8785	Pulp and Paper Mills - Pulp Knotters	G	Pulp and Paper Mills; Pulp Knotters
8786	Pulp and Paper Mills - Pulp Screens	G	Pulp and Paper Mills; Pulp Screens
8787	Pulp and Paper Mills - Vacuum Drum Type Brownstock Washers	G	Pulp and Paper Mills; Vacuum Drum Type Brownstock Washers
8788	Pulp and Paper Mills - “Other” Brownstock Washers	G	Pulp and Paper Mills; “Other” Brownstock Washers
8789	Pulp and Paper Mills - Kraft Pulp Deckers	G	Pulp and Paper Mills; Kraft Pulp Deckers
8790	Pulp and Paper Mills - Batch Kraft Digester Relief Gases	G	Pulp and Paper Mills; Batch Kraft Digester Relief Gases
8791	Pulp and Paper Mills - Continuous Kraft Digester Relief Gases	G	Pulp and Paper Mills; Continuous Kraft Digester Relief Gases

Profile Number	Name	Profile Type	Keyword
8792	Pulp and Paper Mills - Batch Kraft Digester Blow Gases	G	Pulp and Paper Mills; Batch Kraft Digester Blow Gases
8793	Pulp and Paper Mills - Continuous Kraft Digester Blow Gases	G	Pulp and Paper Mills; Continuous Kraft Digester Blow Gases
8794	Pulp and Paper Mills - Batch Digester Kraft Pulp Mill Evaporator Gases	G	Pulp and Paper Mills; Batch Digester Kraft Pulp Mill Evaporator Gases
8795	Pulp and Paper Mills - Continuous Digester Kraft Pulp Mill Evaporator Gases	G	Pulp and Paper Mills; Continuous Digester Kraft Pulp Mill Evaporator Gases
8796	Pulp and Paper Mills - Kraft Pulp Mill Stripper Gases	G	Pulp and Paper Mills; Kraft Pulp Mill Stripper Gases
8797	Pulp and Paper Mills - Kraft Pulp Mill LVHC NCGs - Batch Digester and Evaporator Gases Only	G	Pulp and Paper Mills; Kraft Pulp Mill LVHC NCGs; Batch Digester and Evaporator Gases Only
8798	Pulp and Paper Mills - Kraft Pulp Mill LVHC NCGs - Continuous Digester and Evaporator Gases Only	G	Pulp and Paper Mills; Kraft Pulp Mill LVHC NCGs; Continuous Digester and Evaporator Gases Only
8799	Pulp and Paper Mills - Kraft Batch Digester Fill Exhaust Gases	G	Pulp and Paper Mills; Kraft Batch Digester Fill Exhaust Gases
8800	Pulp and Paper Mills - Kraft NCG Thermal Oxidizers	G	Pulp and Paper Mills; Kraft NCG Thermal Oxidizers
8801	Pulp and Paper Mills - Weak Black Liquor Storage Tanks	G	Pulp and Paper Mills; Weak Black Liquor Storage Tanks
8802	Pulp and Paper Mills - Strong Black Liquor Storage Tanks	G	Pulp and Paper Mills; Strong Black Liquor Storage Tanks
8803	Pulp and Paper Mills - White and Green Liquor Storage Tanks	G	Pulp and Paper Mills; White and Green Liquor Storage Tanks
8804	Pulp and Paper Mills - Unbleached Kraft Pulp Storage Tanks	G	Pulp and Paper Mills; Unbleached Kraft Pulp Storage Tanks
8805	Pulp and Paper Mills - Kraft Black Liquor Oxidation Tank Vents	G	Pulp and Paper Mills; Kraft Black Liquor Oxidation Tank Vents
8806	Pulp and Paper Mills - Kraft DCE Recovery Furnaces	G	Pulp and Paper Mills; Kraft DCE Recovery Furnaces
8807	Pulp and Paper Mills - Kraft NDCE Recovery Furnaces	G	Pulp and Paper Mills; Kraft NDCE Recovery Furnaces
8808	Pulp and Paper Mills - Sulfite Recovery Furnaces	G	Pulp and Paper Mills; Sulfite Recovery Furnaces
8809	Pulp and Paper Mills - Kraft Lime Kilns	G	Pulp and Paper Mills; Kraft Lime Kilns
8810	Pulp and Paper Mills - Kraft Smelt Dissolving Tanks	G	Pulp and Paper Mills; Kraft Smelt Dissolving Tanks
8811	Pulp and Paper Mills - Kraft Tall Oil Reactors	G	Pulp and Paper Mills; Kraft Tall Oil Reactors
8812	Pulp and Paper Mills - Kraft Paper Machines and Pulp Dryers - Unbleached Linerboard Paper Machine	G	Pulp and Paper Mills; Kraft Paper Machines and Pulp Dryers; Unbleached Linerboard Paper Machine
8813	Pulp and Paper Mills - Kraft Paper Machines and Pulp Dryers - Bleached Paper Machine & Pulp Dryer	G	Pulp and Paper Mills; Kraft Paper Machines and Pulp Dryers; Bleached Paper Machine & Pulp Dryer
8814	Pulp and Paper Mills - Wood-Fired Boilers	G	Pulp and Paper Mills; Wood-Fired Boilers
8815	Pulp and Paper Mills - Secondary Fiber Furnish Paper Machines	G	Pulp and Paper Mills; Secondary Fiber Furnish Paper Machines
8816	Pulp and Paper Mills - Virgin Mechanical and Chemical Pulp Furnish Paper Machines	G	Pulp and Paper Mills; Virgin Mechanical and Chemical Pulp Furnish Paper Machines
8817	Pulp and Paper Mills - Deinking (with Bleaching) Operations	G	Pulp and Paper Mills; Deinking (with Bleaching) Operations
8818	Pulp and Paper Mills - Mechanical Pulping Source Emissions - Thermomechanical Pulping	G	Pulp and Paper Mills; Mechanical Pulping Source Emissions; Thermomechanical Pulping
8819	Pulp and Paper Mills - Mechanical Pulping Source Emissions - Pressurized Groundwood	G	Pulp and Paper Mills; Mechanical Pulping Source Emissions; Pressurized Groundwood

Profile Number	Name	Profile Type	Keyword
8820	Pulp and Paper Mills - Mechanical Pulping Source Emissions - Stone Groundwood	G	Pulp and Paper Mills; Mechanical Pulping Source Emissions; Stone Groundwood
8827	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 7 RVP	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 7 RVP
8828	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 9 RVP	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 9 RVP
8829	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol - Combined	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol
8830	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 7 RVP	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 7 RVP
8831	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 9 RVP	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 9 RVP
8832	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol - Combined	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol
8833	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 7 RVP	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 7 RVP
8834	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol at 9 RVP	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol at 9 RVP
8835	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 20% Ethanol - Combined	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 20% Ethanol
8836	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 7 RVP	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 7 RVP
8837	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 9 RVP	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 9 RVP
8838	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol - Combined	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol
8839	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 7 RVP	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 7 RVP
8840	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 10 RVP	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 9 RVP
8841	86°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol - Combined	G	86°F Static Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol
8842	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 7 RVP	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 7 RVP
8843	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 9 RVP	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 9 RVP
8844	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol - Combined	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol
8845	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 7 RVP	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 7 RVP
8846	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 10 RVP	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 9 RVP
8847	105°F Static Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol - Combined	G	105°F Static Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol
8848	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 7 RVP	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 7 RVP

Profile Number	Name	Profile Type	Keyword
8849	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol at 9 RVP	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol at 9 RVP
8850	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 0% Ethanol - Combined	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 0% Ethanol
8851	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 7 RVP	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 7 RVP
8852	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol at 10 RVP	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol at 9 RVP
8853	Dynamic Permeation Evaporative Emissions from Gasoline Vehicles using 10% Ethanol - Combined	G	Dynamic Permeation Evaporative Emission; Gasoline Vehicle; 10% Ethanol
8854	Gasoline Exhaust - Tier 2 light-duty vehicles using 20% Ethanol - Composite Profile	G	Gasoline Exhaust; Tier 2 light-duty vehicle; 20% Ethanol
8855	Gasoline Exhaust - Tier 2 light-duty vehicles using 85% Ethanol - Composite Profile	G	Gasoline Exhaust; Tier 2 light-duty vehicle; 85% Ethanol
8856	Liquefied Petroleum Gas (LPG) Composition	G	Liquefied Petroleum Gas; LPG
8857	Light Duty Vehicle Exhaust - Liquefied Petroleum Gas (LPG) - Test ID 1	G	Light Duty Vehicle Exhaust; Liquefied Petroleum Gas; LPG
8858	Light Duty Vehicle Exhaust - Liquefied Petroleum Gas (LPG) - Test ID 2	G	Light Duty Vehicle Exhaust; Liquefied Petroleum Gas; LPG
8859	Light Duty Vehicle Exhaust - Liquefied Petroleum Gas (LPG) - Test ID 3	G	Light Duty Vehicle Exhaust; Liquefied Petroleum Gas; LPG
8860	Light Duty Vehicle Exhaust - Liquefied Petroleum Gas (LPG) - Average	G	Light Duty Vehicle Exhaust; Liquefied Petroleum Gas; LPG
8861	Olefins manufacturing (ethylene and propylene, SIC 2869) - Composite Profile	G	Olefins manufacturing
8862	Petroleum Refining (SIC 2911) - Composite Profile	G	Petroleum Refining
8863	Gasoline Headspace Vapor - 0% Ethanol (E0), 35% Aromatics	G	Gasoline Headspace Vapor; 0% Ethanol; 35% Aromatics
8864	Gasoline Headspace Vapor - 10% Ethanol (E10), 35% Aromatics	G	Gasoline Headspace Vapor; 10% Ethanol; 35% Aromatics
8865	Gasoline Headspace Vapor - 15% Ethanol (E15), 35% Aromatics	G	Gasoline Headspace Vapor; 15% Ethanol; 35% Aromatics
8866	Gasoline Headspace Vapor - 0% Ethanol (E0), 15% Aromatics	G	Gasoline Headspace Vapor; 0% Ethanol; 15% Aromatics
8867	Gasoline Headspace Vapor - 10% Ethanol (E10), 15% Aromatics	G	Gasoline Headspace Vapor; 10% Ethanol; 15% Aromatics
8868	Gasoline Headspace Vapor - 15% Ethanol (E15), 15% Aromatics	G	Gasoline Headspace Vapor; 15% Ethanol; 15% Aromatics
8869	Gasoline Headspace Vapor - 0% Ethanol (E0) Combined - EPAct/V2/E-89 Program	G	Gasoline Headspace Vapor; 0% Ethanol
8870	Gasoline Headspace Vapor - 10% Ethanol (E10) Combined - EPAct/V2/E-89 Program	G	Gasoline Headspace Vapor; 10% Ethanol
8871	Gasoline Headspace Vapor - 15% Ethanol (E15) Combined - EPAct/V2/E-89 Program	G	Gasoline Headspace Vapor; 15% Ethanol
8872	Gasoline Vehicle - Evaporative emission - E15 ethanol gasoline - Calculated	G	Evaporative Emissions; Flexible-Fuel; Gasoline Vehicles; 15% Ethanol Gasoline
8876	Aircraft Exhaust - ground idle - 4% rated thrust	G	Aircraft Exhaust; Jet Engine Exhaust
8877	Aircraft Exhaust - 85% rated thrust	G	Aircraft Exhaust; Jet Engine Exhaust
8878	Dairies - Silage	G	Dairies; Silage

Profile Number	Name	Profile Type	Keyword
8879	Dairies - Total Mixed Rations	G	Dairies; Total Mixed Rations
8880	Dairies - Lagoons	G	Dairies; Lagoons
8881	Dairies - Flushing Lanes	G	Dairies; Flushing Lanes
8882	Dairies - Open Lots	G	Dairies; Open Lots
8883	Dairies - Bedding	G	Dairies; Bedding
8884	Gasoline - 0% Ethanol (E0), 35% Aromatics	G	Gasoline; 0% Ethanol, 35% Aromatics
8885	Gasoline - 10% Ethanol (E10), 35% Aromatics	G	Gasoline; 10% Ethanol; 35% Aromatics
8886	Gasoline - 15% Ethanol (E15), 35% Aromatics	G	Gasoline; 15% Ethanol; 35% Aromatics
8887	Gasoline - 0% Ethanol (E0), 15% Aromatics	G	Gasoline; 0% Ethanol; 15% Aromatics
8888	Gasoline - 10% Ethanol (E10), 15% Aromatics	G	Gasoline; 10% Ethanol; 15% Aromatics
8889	Gasoline - 15% Ethanol (E15), 15% Aromatics	G	Gasoline; 15% Ethanol; 15% Aromatics
8890	Dairies - Silage - Corn	G	Dairies; Silage
8891	Dairies - Silage - Alfalfa	G	Dairies; Silage
8892	Dairies - Silage - Cereal	G	Dairies; Silage
8893	Dairies - Silage - High Moisture Ground Corn	G	Dairies; Silage
8894	Dairies - Silage - Total Mixed Ration	G	Dairies; Silage
8895	Dairies - Silage - Almond Hulls	G	Dairies; Silage
8896	Dairies - Silage - Almond Shells	G	Dairies; Silage
8897	Dairies - Cows and Waste	G	Dairies; Cows and Waste
8904	Gasoline Exhaust - E00 gasoline, summer grade, LA92 cycle composite	G	Gasoline Exhaust; E00 gasoline; summer grade; LA92 cycle composite
8905	Gasoline Exhaust - E10 gasoline, summer grade, LA92 cycle composite	G	Gasoline Exhaust; E10 gasoline; summer grade; LA92 cycle composite
8906	Gasoline Exhaust - E85 gasoline, summer grade, LA92 cycle composite	G	Gasoline Exhaust; E85 gasoline; summer grade; LA92 cycle composite
8907	Gasoline Exhaust - E00 gasoline, winter grade, LA92 cycle composite	G	Gasoline Exhaust; E00 gasoline; winter grade; LA92 cycle composite
8908	Gasoline Exhaust - E10 gasoline, winter grade, LA92 cycle composite	G	Gasoline Exhaust; E10 gasoline; winter grade; LA92 cycle composite
8909	Gasoline Exhaust - E85 gasoline, winter grade, LA92 cycle composite	G	Gasoline Exhaust; E85 gasoline; winter grade; LA92 cycle composite
8910	Gasoline Exhaust - E00 gasoline, summer grade, LA92 cycle - hot start and stabilized exhaust	G	Gasoline Exhaust; E00 gasoline; summer grade; LA92 cycle; hot start and stabilized exhaust
8911	Gasoline Exhaust - E10 gasoline, summer grade, LA92 cycle - hot start and stabilized exhaust	G	Gasoline Exhaust; E10 gasoline; summer grade; LA92 cycle; hot start and stabilized exhaust
8912	Gasoline Exhaust - E85 gasoline, summer grade, LA92 cycle - hot start and stabilized exhaust	G	Gasoline Exhaust; E85 gasoline; summer grade; LA92 cycle; hot start and stabilized exhaust

Profile Number	Name	Profile Type	Keyword
8913	Gasoline Exhaust - E00 gasoline, winter grade, LA92 cycle - hot start and stabilized exhaust	G	Gasoline Exhaust; E00 gasoline; winter grade; LA92 cycle; hot start and stabilized exhaust
8914	Gasoline Exhaust - E10 gasoline, winter grade, LA92 cycle - hot start and stabilized exhaust	G	Gasoline Exhaust; E10 gasoline; winter grade; LA92 cycle; hot start and stabilized exhaust
8915	Gasoline Exhaust - E85 gasoline, winter grade, LA92 cycle - hot start and stabilized exhaust	G	Gasoline Exhaust; E85 gasoline; winter grade; LA92 cycle; hot start and stabilized exhaust
8916	Gasoline Exhaust - E00 gasoline, summer grade, LA92 cycle - stabilized exhaust	G	Gasoline Exhaust; E00 gasoline; summer grade; LA92 cycle; stabilized exhaust
8917	Gasoline Exhaust - E10 gasoline, summer grade, LA92 cycle - stabilized exhaust	G	Gasoline Exhaust; E10 gasoline; summer grade; LA92 cycle; stabilized exhaust
8918	Gasoline Exhaust - E85 gasoline, summer grade, LA92 cycle - stabilized exhaust	G	Gasoline Exhaust; E85 gasoline; summer grade; LA92 cycle; stabilized exhaust
8919	Gasoline Exhaust - E00 gasoline, winter grade, LA92 cycle - stabilized exhaust	G	Gasoline Exhaust; E00 gasoline; winter grade; LA92 cycle; stabilized exhaust
8920	Gasoline Exhaust - E10 gasoline, winter grade, LA92 cycle - stabilized exhaust	G	Gasoline Exhaust; E10 gasoline; winter grade; LA92 cycle; stabilized exhaust
8921	Gasoline Exhaust - E85 gasoline, winter grade, LA92 cycle - stabilized exhaust	G	Gasoline Exhaust; E85 gasoline; winter grade; LA92 cycle; stabilized exhaust
8922	Gasoline Exhaust - E00 gasoline, summer grade, LA92 cycle - cold start	G	Gasoline Exhaust; E00 gasoline; summer grade; LA92 cycle; cold start
8923	Gasoline Exhaust - E10 gasoline, summer grade, LA92 cycle - cold start	G	Gasoline Exhaust; E10 gasoline; summer grade; LA92 cycle; cold start
8924	Gasoline Exhaust - E85 gasoline, summer grade, LA92 cycle - cold start	G	Gasoline Exhaust; E85 gasoline; summer grade; LA92 cycle; cold start
8925	Gasoline Exhaust - E00 gasoline, winter grade, LA92 cycle - cold start	G	Gasoline Exhaust; E00 gasoline; winter grade; LA92 cycle; cold start
8926	Gasoline Exhaust - E10 gasoline, winter grade, LA92 cycle - cold start	G	Gasoline Exhaust; E10 gasoline; winter grade; LA92 cycle; cold start
8927	Gasoline Exhaust - E85 gasoline, winter grade, LA92 cycle - cold start	G	Gasoline Exhaust; E85 gasoline; winter grade; LA92 cycle; cold start
8933	Green Waste Composting	G	Green Waste Composting
8934	Evaporative Emissions from Flexible-Fuel Gasoline Vehicles using 85% Ethanol	G	Evaporative Emissions; Flexible-Fuel; Gasoline Vehicles; 85% Ethanol Gasoline
8937	Open Burning - Military Waste	G	Open Burning; Military Waste
8949	Natural Gas Production	G	Natural Gas Production
8950	Natural Gas Transmission	G	Natural Gas Transmission
8951	Natural Gas Extraction Wells	G	Natural Gas Extraction Wells
8952	Oil Extraction Wells	G	Oil Extraction Wells
8953	Oil Field - Gage Tank	G	Oil Field; Gage Tank
8954	Oil Field - Well	G	Oil Field; Well
8955	Oil Field - Well	G	Oil Field; Well
8956	Oil Field - Shipping Tank	G	Oil Field; Shipping Tank
8957	Oil Field - Surge Tank	G	Oil Field; Surge Tank
8958	Oil Field - Well	G	Oil Field; Well
8959	Oil Field - Tank	G	Oil Field; Tank

Profile Number	Name	Profile Type	Keyword
8960	Oil Field - Compressor - Vapor Recovery	G	Oil Field; Compressor; Vapor Recovery
8961	Oil Field - Separator	G	Oil Field; Separator
8962	Oil Field - Tank	G	Oil Field; Tank
8963	Oil Field - Separator	G	Oil Field; Separator
8964	Oil Field - Tank	G	Oil Field; Tank
8965	Oil Field - Tank	G	Oil Field; Tank
8966	Oil Field - Separator	G	Oil Field; Separator
8967	Oil Field - Tank	G	Oil Field; Tank
8968	Oil Field - Well	G	Oil Field; Well
8969	Oil Field - Tank	G	Oil Field; Tank
8970	Oil Field - Well	G	Oil Field; Well
8971	Oil Field - Tank	G	Oil Field; Tank
8972	Oil Field - Dehydration Tank	G	Oil Field; Dehydration Tank
8973	Oil Field - Tank	G	Oil Field; Tank
8974	Oil Field - Tank	G	Oil Field; Tank
8975	Oil Field - Well	G	Oil Field; Well
8976	Oil Field - Well	G	Oil Field; Well
8977	Oil Field - Vapor Recovery	G	Oil Field; Vapor Recovery
8978	Oil Field - Sump, inlet end	G	Oil Field; Sump, inlet end
8979	Oil Field - Sump, outlet end	G	Oil Field; Sump, outlet end
8980	Oil Field - Tank	G	Oil Field; Tank
8981	Oil Field - Well	G	Oil Field; Well
8982	Oil Field - Vapor Recovery	G	Oil Field; Vapor Recovery
8983	Oil Field - Vapor Recovery	G	Oil Field; Vapor Recovery
8984	Oil Field - Sump	G	Oil Field; Sump
8985	Oil Field - Tank	G	Oil Field; Tank
8986	Oil Field - Tank	G	Oil Field; Tank
8987	Oil Field - Well	G	Oil Field; Well
8988	Oil Field - Tank	G	Oil Field; Tank

Profile Number	Name	Profile Type	Keyword
8989	Oil Field - Tank	G	Oil Field; Tank
8990	Oil Field - Tank	G	Oil Field; Tank
8991	Oil Field - Vapor Recovery	G	Oil Field; Vapor Recovery

Table A-2. Summary of PM Profiles Included in the SPECIATE 4.4 Database

Profile Number	Name	Profile Type	Keyword
0000010	Overall Composite	P	OVERALL AVERAGE
000002.5	Overall Composite	P	OVERALL AVERAGE
0000030	Overall Composite	P	OVERALL AVERAGE
00000C	Overall Composite	P	OVERALL AVERAGE
1120110	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112012.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120130	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11201C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120210	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112022.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120230	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11202C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120310	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112032.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120330	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11203C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120410	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112042.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120430	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11204C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120510	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112052.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120530	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11205C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120610	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112062.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120630	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11206C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION

Profile Number	Name	Profile Type	Keyword
1120710	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112072.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120730	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11207C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120810	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112082.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120830	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11208C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120910	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112092.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1120930	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11209C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121010	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112102.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121030	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11210C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121110	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112112.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121130	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11211C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121210	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112122.5	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121230	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11212C	Coal-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121310	External Combustion - Coal-Fired Composite	P	COAL COMBUSTION
112132.5	External Combustion - Coal-Fired Composite	P	COAL COMBUSTION
1121330	External Combustion - Coal-Fired Composite	P	COAL COMBUSTION
11213C	External Combustion - Coal-Fired Composite	P	COAL COMBUSTION
1121410	Uncontrolled Coal-Fired Power Plant Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION

Profile Number	Name	Profile Type	Keyword
112142.5	Uncontrolled Coal-Fired Power Plant Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121430	Uncontrolled Coal-Fired Power Plant Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11214C	Uncontrolled Coal-Fired Power Plant Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121510	Coal-Fired Power Plant/esp Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
112152.5	Coal-Fired Power Plant/esp Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1121530	Coal-Fired Power Plant/esp Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11215C	Coal-Fired Power Plant/esp Composite	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1130110	Coal- And Refuse Derived Fuel (RDF)-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; RDF COMBUSTION
113012.5	Coal- And Refuse Derived Fuel (RDF)-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; RDF COMBUSTION
1130130	Coal- And Refuse Derived Fuel (RDF)-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; RDF COMBUSTION
11301C	Coal- And Refuse Derived Fuel (RDF)-Fired Power Plant	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; RDF COMBUSTION
1150110	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115012.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150130	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11501C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150210	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115022.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150230	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11502C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150310	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115032.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150330	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11503C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150410	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115042.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150430	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11504C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION

Profile Number	Name	Profile Type	Keyword
1150510	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115052.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150530	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11505C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150610	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115062.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150630	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11506C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150710	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115072.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150730	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11507C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150810	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115082.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150830	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11508C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150910	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115092.5	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1150930	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11509C	Oil-Fired Power Plant	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1151010	Oil-Fired Power Plant Composite	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
115102.5	Oil-Fired Power Plant Composite	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1151030	Oil-Fired Power Plant Composite	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
11510C	Oil-Fired Power Plant Composite	P	OIL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION
1180110	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
118012.5	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
1180130	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
11801C	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
1220110	External Combustion Boiler - Coal-Slurry Fired	P	BOILER; COAL-SLURRY COMBUSTION

Profile Number	Name	Profile Type	Keyword
122012.5	External Combustion Boiler - Coal-Slurry Fired	P	BOILER; COAL-SLURRY COMBUSTION
1220130	External Combustion Boiler - Coal-Slurry Fired	P	BOILER; COAL-SLURRY COMBUSTION
12201C	External Combustion Boiler - Coal-Slurry Fired	P	BOILER; COAL-SLURRY COMBUSTION
1230110	External Combustion - Kerosene-Fired Boiler Composite	P	BOILER; KEROSENE COMBUSTION
123012.5	External Combustion - Kerosene-Fired Boiler Composite	P	BOILER; KEROSENE COMBUSTION
1230130	External Combustion - Kerosene-Fired Boiler Composite	P	BOILER; KEROSENE COMBUSTION
12301C	External Combustion - Kerosene-Fired Boiler Composite	P	BOILER; KEROSENE COMBUSTION
1270410	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
127042.5	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
1270430	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
12704C	Wood-Fired Boiler	P	BOILER; WOOD COMBUSTION
1270510	External Combustion - Wood-Fired Boiler Composite	P	BOILER; WOOD COMBUSTION
127052.5	External Combustion - Wood-Fired Boiler Composite	P	BOILER; WOOD COMBUSTION
1270530	External Combustion - Wood-Fired Boiler Composite	P	BOILER; WOOD COMBUSTION
12705C	External Combustion - Wood-Fired Boiler Composite	P	BOILER; WOOD COMBUSTION
1270610	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
127062.5	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
1270630	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
12706C	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
1270710	Hogged Fuel Boiler / Dutch Oven	P	BOILER; HOGGED FUEL COMBUSTION; DUTCH OVEN; INDUSTRIAL
127072.5	Hogged Fuel Boiler / Dutch Oven	P	BOILER; HOGGED FUEL COMBUSTION; DUTCH OVEN; INDUSTRIAL
1270730	Hogged Fuel Boiler / Dutch Oven	P	BOILER; HOGGED FUEL COMBUSTION; DUTCH OVEN; INDUSTRIAL
12707C	Hogged Fuel Boiler / Dutch Oven	P	BOILER; HOGGED FUEL COMBUSTION; DUTCH OVEN; INDUSTRIAL
1270810	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
127082.5	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
1270830	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
12708C	Hogged Fuel Boiler / Plywood Manufacturing	P	BOILER; HOGGED FUEL COMBUSTION; PLYWOOD MANUFACTURING; INDUSTRIAL
1270910	Hogged Fuel Boiler / Stoker Boiler	P	BOILER; HOGGED FUEL COMBUSTION; STOKER BOILER; INDUSTRIAL
127092.5	Hogged Fuel Boiler / Stoker Boiler	P	BOILER; HOGGED FUEL COMBUSTION; STOKER BOILER; INDUSTRIAL
1270930	Hogged Fuel Boiler / Stoker Boiler	P	BOILER; HOGGED FUEL COMBUSTION; STOKER BOILER; INDUSTRIAL
12709C	Hogged Fuel Boiler / Stoker Boiler	P	BOILER; HOGGED FUEL COMBUSTION; STOKER BOILER; INDUSTRIAL
1271010	Boiler - #2 Fuel Oil Fired	P	BOILER; FUEL OIL COMBUSTION
127102.5	Boiler - #2 Fuel Oil Fired	P	BOILER; FUEL OIL COMBUSTION
1271030	Boiler - #2 Fuel Oil Fired	P	BOILER; FUEL OIL COMBUSTION
12710C	Boiler - #2 Fuel Oil Fired	P	BOILER; FUEL OIL COMBUSTION
1350110	Residual Oil Combustion	P	BOILER; RESIDUAL OIL COMBUSTION
135012.5	Residual Oil Combustion	P	BOILER; RESIDUAL OIL COMBUSTION
1350130	Residual Oil Combustion	P	BOILER; RESIDUAL OIL COMBUSTION
13501C	Residual Oil Combustion	P	BOILER; RESIDUAL OIL COMBUSTION
1350210	External Combustion - Heavy Oil-Fired Boiler Composite	P	BOILER; HEAVY OIL COMBUSTION
135022.5	External Combustion - Heavy Oil-Fired Boiler Composite	P	BOILER; HEAVY OIL COMBUSTION
1350230	External Combustion - Heavy Oil-Fired Boiler Composite	P	BOILER; HEAVY OIL COMBUSTION
13502C	External Combustion - Heavy Oil-Fired Boiler Composite	P	BOILER; HEAVY OIL COMBUSTION
1350310	External Combustion - Indonesian Oil-Fired Boiler Composite	P	BOILER; OIL COMBUSTION
135032.5	External Combustion - Indonesian Oil-Fired Boiler Composite	P	BOILER; OIL COMBUSTION
1350330	External Combustion - Indonesian Oil-Fired Boiler Composite	P	BOILER; OIL COMBUSTION
13503C	External Combustion - Indonesian Oil-Fired Boiler Composite	P	BOILER; OIL COMBUSTION
1350410	Oil-Fired Boiler	P	BOILER; OIL COMBUSTION
135042.5	Oil-Fired Boiler	P	BOILER; OIL COMBUSTION
1350430	Oil-Fired Boiler	P	BOILER; OIL COMBUSTION
13504C	Oil-Fired Boiler	P	BOILER; OIL COMBUSTION
1350510	Residual Oil-Fired Boiler / Petroleum Refinery	P	BOILER; RESIDUAL OIL COMBUSTION; REFINERY; INDUSTRIAL
135052.5	Residual Oil-Fired Boiler / Petroleum Refinery	P	BOILER; RESIDUAL OIL COMBUSTION; REFINERY; INDUSTRIAL
1350530	Residual Oil-Fired Boiler / Petroleum Refinery	P	BOILER; RESIDUAL OIL COMBUSTION; REFINERY; INDUSTRIAL
13505C	Residual Oil-Fired Boiler / Petroleum Refinery	P	BOILER; RESIDUAL OIL COMBUSTION; REFINERY; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
1410110	External Combustion - Waste Oil-Fired Boiler	P	BOILER; WASTE OIL COMBUSTION
141012.5	External Combustion - Waste Oil-Fired Boiler	P	BOILER; WASTE OIL COMBUSTION
1410130	External Combustion - Waste Oil-Fired Boiler	P	BOILER; WASTE OIL COMBUSTION
14101C	External Combustion - Waste Oil-Fired Boiler	P	BOILER; WASTE OIL COMBUSTION
1410210	External Combustion - Liquid Waste-Fired Boiler	P	BOILER; LIQUID WASTE COMBUSTION
141022.5	External Combustion - Liquid Waste-Fired Boiler	P	BOILER; LIQUID WASTE COMBUSTION
1410230	External Combustion - Liquid Waste-Fired Boiler	P	BOILER; LIQUID WASTE COMBUSTION
14102C	External Combustion - Liquid Waste-Fired Boiler	P	BOILER; LIQUID WASTE COMBUSTION
1510110	External Combustion - Solid Waste-Fired Boiler	P	BOILER; SOLID WASTE COMBUSTION
151012.5	External Combustion - Solid Waste-Fired Boiler	P	BOILER; SOLID WASTE COMBUSTION
1510130	External Combustion - Solid Waste-Fired Boiler	P	BOILER; SOLID WASTE COMBUSTION
15101C	External Combustion - Solid Waste-Fired Boiler	P	BOILER; SOLID WASTE COMBUSTION
1600010	Meat Cooking - Charbroiling	P	MEAT COOKING; CHARBROILING
160002.5	Meat Cooking - Charbroiling	P	MEAT COOKING; CHARBROILING
1600030	Meat Cooking - Charbroiling	P	MEAT COOKING; CHARBROILING
16000C	Meat Cooking - Charbroiling	P	MEAT COOKING; CHARBROILING
1600110	Meat Cooking - Frying	P	MEAT COOKING; FRYING
160012.5	Meat Cooking - Frying	P	MEAT COOKING; FRYING
1600130	Meat Cooking - Frying	P	MEAT COOKING; FRYING
16001C	Meat Cooking - Frying	P	MEAT COOKING; FRYING
1710510	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
171052.5	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710530	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
17105C	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710610	Municipal Incinerator Composite	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
171062.5	Municipal Incinerator Composite	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710630	Municipal Incinerator Composite	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
17106C	Municipal Incinerator Composite	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710710	Municipal Incinerator (East Chicago, IN)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION

Profile Number	Name	Profile Type	Keyword
171072.5	Municipal Incinerator (East Chicago, IN)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710730	Municipal Incinerator (East Chicago, IN)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
17107C	Municipal Incinerator (East Chicago, IN)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710810	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
171082.5	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710830	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
17108C	Municipal Incinerator (Philadelphia)	P	INCINERATOR; MUNICIPAL WASTE INCINERATION
1710910	Car Shredder	P	CAR SHREDDER; INDUSTRIAL
171092.5	Car Shredder	P	CAR SHREDDER; INDUSTRIAL
1710930	Car Shredder	P	CAR SHREDDER; INDUSTRIAL
17109C	Car Shredder	P	CAR SHREDDER; INDUSTRIAL
1712010	Sewage Sludge Incineration - Composite	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
171202.5	Sewage Sludge Incineration - Composite	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712030	Sewage Sludge Incineration - Composite	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
17120C	Sewage Sludge Incineration - Composite	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712110	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
171212.5	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712130	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
17121C	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712210	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
171222.5	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712230	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
17122C	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712310	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
171232.5	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712330	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
17123C	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1712410	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
171242.5	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION

Profile Number	Name	Profile Type	Keyword
1712430	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
17124C	Sewage Sludge Incineration	P	INCINERATOR; SEWAGE SLUDGE INCINERATION
1800010	Cigarette Smoke	P	CIGARETTE SMOKE
180002.5	Cigarette Smoke	P	CIGARETTE SMOKE
1800030	Cigarette Smoke	P	CIGARETTE SMOKE
18000C	Cigarette Smoke	P	CIGARETTE SMOKE
1910110	Scrap Copper Incinerator	P	COPPER; INCINERATOR; SCRAP COPPER INCINERATION; INDUSTRIAL
191012.5	Scrap Copper Incinerator	P	COPPER; INCINERATOR; SCRAP COPPER INCINERATION; INDUSTRIAL
1910130	Scrap Copper Incinerator	P	COPPER; INCINERATOR; SCRAP COPPER INCINERATION; INDUSTRIAL
19101C	Scrap Copper Incinerator	P	COPPER; INCINERATOR; SCRAP COPPER INCINERATION; INDUSTRIAL
2010110	Aluminum Foundry-Reverboratory Furnace	P	ALUMINUM FOUNDRY; FOUNDRY; ALUMINUM; REVERBERATORY FURNACE; FURNACE; INDUSTRIAL
201012.5	Aluminum Foundry-Reverboratory Furnace	P	ALUMINUM FOUNDRY; FOUNDRY; ALUMINUM; REVERBERATORY FURNACE; FURNACE; INDUSTRIAL
2010130	Aluminum Foundry-Reverboratory Furnace	P	ALUMINUM FOUNDRY; FOUNDRY; ALUMINUM; REVERBERATORY FURNACE; FURNACE; INDUSTRIAL
20101C	Aluminum Foundry-Reverboratory Furnace	P	ALUMINUM FOUNDRY; FOUNDRY; ALUMINUM; REVERBERATORY FURNACE; FURNACE; INDUSTRIAL
2010210	Secondary Aluminum Plant - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
201022.5	Secondary Aluminum Plant - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
2010230	Secondary Aluminum Plant - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
20102C	Secondary Aluminum Plant - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
2010310	Secondary Aluminum - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
201032.5	Secondary Aluminum - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
2010330	Secondary Aluminum - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
20103C	Secondary Aluminum - Dross Recovery Furnace	P	ALUMINUM; FURNACE; DROSS RECOVERY FURNACE; SECONDARY ALUMINUM; INDUSTRIAL
2040110	Secondary Lead Smelter - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; SECONDARY LEAD; SMELTER; SECONDARY LEAD SMELTER; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
204012.5	Secondary Lead Smelter - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; SECONDARY LEAD; SMELTER; SECONDARY LEAD SMELTER; INDUSTRIAL
2040130	Secondary Lead Smelter - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; SECONDARY LEAD; SMELTER; SECONDARY LEAD SMELTER; INDUSTRIAL
20401C	Secondary Lead Smelter - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; SECONDARY LEAD; SMELTER; SECONDARY LEAD SMELTER; INDUSTRIAL
2040210	Secondary Lead - Sanitary Baghouse	P	LEAD; SECONDARY LEAD; INDUSTRIAL
204022.5	Secondary Lead - Sanitary Baghouse	P	LEAD; SECONDARY LEAD; INDUSTRIAL
2040230	Secondary Lead - Sanitary Baghouse	P	LEAD; SECONDARY LEAD; INDUSTRIAL
20402C	Secondary Lead - Sanitary Baghouse	P	LEAD; SECONDARY LEAD; INDUSTRIAL
2040310	Secondary Lead - Reverberatory Furnace	P	LEAD; SECONDARY LEAD; INDUSTRIAL; FURNACE; REVERBERATORY FURNACE
204032.5	Secondary Lead - Reverberatory Furnace	P	LEAD; SECONDARY LEAD; INDUSTRIAL; FURNACE; REVERBERATORY FURNACE
2040330	Secondary Lead - Reverberatory Furnace	P	LEAD; SECONDARY LEAD; INDUSTRIAL; FURNACE; REVERBERATORY FURNACE
20403C	Secondary Lead - Reverberatory Furnace	P	LEAD; SECONDARY LEAD; INDUSTRIAL; FURNACE; REVERBERATORY FURNACE
2040410	Secondary Lead - Melting Pot Fugitives	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
204042.5	Secondary Lead - Melting Pot Fugitives	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
2040430	Secondary Lead - Melting Pot Fugitives	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
20404C	Secondary Lead - Melting Pot Fugitives	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
2040510	Secondary Lead - Melting Pot Stack	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
204052.5	Secondary Lead - Melting Pot Stack	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
2040530	Secondary Lead - Melting Pot Stack	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
20405C	Secondary Lead - Melting Pot Stack	P	LEAD; SECONDARY LEAD; MELTING POT; INDUSTRIAL
2040610	Secondary Lead - Yard Dust	P	LEAD; SECONDARY LEAD; YARD DUST; INDUSTRIAL
204062.5	Secondary Lead - Yard Dust	P	LEAD; SECONDARY LEAD; YARD DUST; INDUSTRIAL
2040630	Secondary Lead - Yard Dust	P	LEAD; SECONDARY LEAD; YARD DUST; INDUSTRIAL
20406C	Secondary Lead - Yard Dust	P	LEAD; SECONDARY LEAD; YARD DUST; INDUSTRIAL
2050110	Zinc Oxide Kiln	P	KILN; ZINC OXIDE; INDUSTRIAL
205012.5	Zinc Oxide Kiln	P	KILN; ZINC OXIDE; INDUSTRIAL
2050130	Zinc Oxide Kiln	P	KILN; ZINC OXIDE; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
20501C	Zinc Oxide Kiln	P	KILN; ZINC OXIDE; INDUSTRIAL
2050210	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
205022.5	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
2050230	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
20502C	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
2050310	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
205032.5	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
2050330	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
20503C	Antimony Oxide Plant - Antimony Roasting	P	ANTIMONY OXIDE; ANTIMONY ROASTING; INDUSTRIAL
2110110	Limestone Dust	P	LIMESTONE
211012.5	Limestone Dust	P	LIMESTONE
2110130	Limestone Dust	P	LIMESTONE
21101C	Limestone Dust	P	LIMESTONE
2110210	Primary Lead Smelting - Ore Concentrate	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
211022.5	Primary Lead Smelting - Ore Concentrate	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2110230	Primary Lead Smelting - Ore Concentrate	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
21102C	Primary Lead Smelting - Ore Concentrate	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2110310	Primary Lead Smelting - Ore Concentrate Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
211032.5	Primary Lead Smelting - Ore Concentrate Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2110330	Primary Lead Smelting - Ore Concentrate Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
21103C	Primary Lead Smelting - Ore Concentrate Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2115010	Primary Lead Smelting Materials Handling - Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
211502.5	Primary Lead Smelting Materials Handling - Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
2115030	Primary Lead Smelting Materials Handling - Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
21150C	Primary Lead Smelting Materials Handling - Composite	P	LEAD ORE CONCENTRATE; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
2120310	Coke Dust	P	COKE; COKE DUST; INDUSTRIAL
212032.5	Coke Dust	P	COKE; COKE DUST; INDUSTRIAL
2120330	Coke Dust	P	COKE; COKE DUST; INDUSTRIAL
21203C	Coke Dust	P	COKE; COKE DUST; INDUSTRIAL
2120410	Coal Dust	P	COAL DUST; INDUSTRIAL
212042.5	Coal Dust	P	COAL DUST; INDUSTRIAL
2120430	Coal Dust	P	COAL DUST; INDUSTRIAL
21204C	Coal Dust	P	COAL DUST; INDUSTRIAL
2120510	Primary Lead Smelting - Speiss Fugitive Dust	P	SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
212052.5	Primary Lead Smelting - Speiss Fugitive Dust	P	SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
2120530	Primary Lead Smelting - Speiss Fugitive Dust	P	SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
21205C	Primary Lead Smelting - Speiss Fugitive Dust	P	SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
2120610	Primary Lead Smelting - Soda Flux Fugitive Dust	P	PRIMARY LEAD; LEAD; SODA FLUX; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
212062.5	Primary Lead Smelting - Soda Flux Fugitive Dust	P	PRIMARY LEAD; LEAD; SODA FLUX; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2120630	Primary Lead Smelting - Soda Flux Fugitive Dust	P	PRIMARY LEAD; LEAD; SODA FLUX; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
21206C	Primary Lead Smelting - Soda Flux Fugitive Dust	P	PRIMARY LEAD; LEAD; SODA FLUX; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2130110	Copper Ore Crushing	P	COPPER; COPPER ORE CRUSHING; COPPER ORE; INDUSTRIAL
213012.5	Copper Ore Crushing	P	COPPER; COPPER ORE CRUSHING; COPPER ORE; INDUSTRIAL
2130130	Copper Ore Crushing	P	COPPER; COPPER ORE CRUSHING; COPPER ORE; INDUSTRIAL
21301C	Copper Ore Crushing	P	COPPER; COPPER ORE CRUSHING; COPPER ORE; INDUSTRIAL
2130210	Copper Ore Mill Wastepile	P	COPPER; COPPER ORE MILL; INDUSTRIAL
213022.5	Copper Ore Mill Wastepile	P	COPPER; COPPER ORE MILL; INDUSTRIAL
2130230	Copper Ore Mill Wastepile	P	COPPER; COPPER ORE MILL; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
21302C	Copper Ore Mill Wastepile	P	COPPER; COPPER ORE MILL; INDUSTRIAL
2130310	Copper Ore Concentrate	P	COPPER; COPPER ORE; INDUSTRIAL
213032.5	Copper Ore Concentrate	P	COPPER; COPPER ORE; INDUSTRIAL
2130330	Copper Ore Concentrate	P	COPPER; COPPER ORE; INDUSTRIAL
21303C	Copper Ore Concentrate	P	COPPER; COPPER ORE; INDUSTRIAL
2130410	Copper Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL
213042.5	Copper Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL
2130430	Copper Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL
21304C	Copper Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL
2132010	Copper Ore - Composite	P	COPPER; COPPER ORE; INDUSTRIAL
213202.5	Copper Ore - Composite	P	COPPER; COPPER ORE; INDUSTRIAL
2132030	Copper Ore - Composite	P	COPPER; COPPER ORE; INDUSTRIAL
21320C	Copper Ore - Composite	P	COPPER; COPPER ORE; INDUSTRIAL
2134010	Composite Of Copper Ore Concentrate And Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL; COPPER ORE
213402.5	Composite Of Copper Ore Concentrate And Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL; COPPER ORE
2134030	Composite Of Copper Ore Concentrate And Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL; COPPER ORE
21340C	Composite Of Copper Ore Concentrate And Mining Waste	P	COPPER; MINING; COPPER MINING; COPPER MINING WASTE; INDUSTRIAL; COPPER ORE
2140110	Feed And Grain Handling Dust	P	INDUSTRIAL; FEED; MINING
214012.5	Feed And Grain Handling Dust	P	INDUSTRIAL; FEED; MINING
2140130	Feed And Grain Handling Dust	P	INDUSTRIAL; FEED; MINING
21401C	Feed And Grain Handling Dust	P	INDUSTRIAL; FEED; MINING
2150110	Primary Lead Smelting - Slag Dust	P	LEAD; PRIMARY LEAD; SLAG DUST; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
215012.5	Primary Lead Smelting - Slag Dust	P	LEAD; PRIMARY LEAD; SLAG DUST; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2150130	Primary Lead Smelting - Slag Dust	P	LEAD; PRIMARY LEAD; SLAG DUST; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
21501C	Primary Lead Smelting - Slag Dust	P	LEAD; PRIMARY LEAD; SLAG DUST; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2210110	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
221012.5	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2210130	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
22101C	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
2210210	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
221022.5	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
2210230	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
22102C	Particle Board Dryer	P	DRYER; PARTICLE BOARD; WOOD; PARTICLE BOARD DRYER; INDUSTRIAL
2210310	Particleboard Dryer / Direct - Fired	P	DRYER; WOOD COMBUSTION; PARTICLE BOARD DRYER; INDUSTRIAL
221032.5	Particleboard Dryer / Direct - Fired	P	DRYER; WOOD COMBUSTION; PARTICLE BOARD DRYER; INDUSTRIAL
2210330	Particleboard Dryer / Direct - Fired	P	DRYER; WOOD COMBUSTION; PARTICLE BOARD DRYER; INDUSTRIAL
22103C	Particleboard Dryer / Direct - Fired	P	DRYER; WOOD COMBUSTION; PARTICLE BOARD DRYER; INDUSTRIAL
2220110	Wood Products - Sander dust	P	WOOD; SANDERDUST; INDUSTRIAL
222012.5	Wood Products - Sander dust	P	WOOD; SANDERDUST; INDUSTRIAL
2220130	Wood Products - Sander dust	P	WOOD; SANDERDUST; INDUSTRIAL
22201C	Wood Products - Sander dust	P	WOOD; SANDERDUST; INDUSTRIAL
2220210	Sawdust	P	SAWDUST; WOOD; INDUSTRIAL
222022.5	Sawdust	P	SAWDUST; WOOD; INDUSTRIAL
2220230	Sawdust	P	SAWDUST; WOOD; INDUSTRIAL
22202C	Sawdust	P	SAWDUST; WOOD; INDUSTRIAL
2220310	Wood Sander Dust	P	SANDER; WOOD; INDUSTRIAL
222032.5	Wood Sander Dust	P	SANDER; WOOD; INDUSTRIAL
2220330	Wood Sander Dust	P	SANDER; WOOD; INDUSTRIAL
22203C	Wood Sander Dust	P	SANDER; WOOD; INDUSTRIAL
2230110	Veneer Dryer	P	DRYER; VENEER DRYER; INDUSTRIAL
223012.5	Veneer Dryer	P	DRYER; VENEER DRYER; INDUSTRIAL
2230130	Veneer Dryer	P	DRYER; VENEER DRYER; INDUSTRIAL
22301C	Veneer Dryer	P	DRYER; VENEER DRYER; INDUSTRIAL
2230210	Veneer Dryer / Steam - Heated	P	DRYER; VENEER DRYER; INDUSTRIAL
223022.5	Veneer Dryer / Steam - Heated	P	DRYER; VENEER DRYER; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2230230	Veneer Dryer / Steam - Heated	P	DRYER; VENEER DRYER; INDUSTRIAL
22302C	Veneer Dryer / Steam - Heated	P	DRYER; VENEER DRYER; INDUSTRIAL
2230310	Veneer Dryer / Wood - Fired	P	DRYER; VENEER DRYER; INDUSTRIAL; WOOD COMBUSTION; SANDER
223032.5	Veneer Dryer / Wood - Fired	P	DRYER; VENEER DRYER; INDUSTRIAL; WOOD COMBUSTION; SANDER
2230330	Veneer Dryer / Wood - Fired	P	DRYER; VENEER DRYER; INDUSTRIAL; WOOD COMBUSTION; SANDER
22303C	Veneer Dryer / Wood - Fired	P	DRYER; VENEER DRYER; INDUSTRIAL; WOOD COMBUSTION; SANDER
2310310	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
231032.5	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
2310330	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
23103C	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
2310410	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
231042.5	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
2310430	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
23104C	Kraft Recovery Furnace	P	FURNACE; KRAFT RECOVERY FURNACE; INDUSTRIAL
2320210	Lime Kiln	P	KILN; LIME; LIME KILN; INDUSTRIAL
232022.5	Lime Kiln	P	KILN; LIME; LIME KILN; INDUSTRIAL
2320230	Lime Kiln	P	KILN; LIME; LIME KILN; INDUSTRIAL
23202C	Lime Kiln	P	KILN; LIME; LIME KILN; INDUSTRIAL
2410110	Sulfite Recovery Boiler	P	BOILER; SULFITE; SULFITE RECOVERY BOILER; INDUSTRIAL
241012.5	Sulfite Recovery Boiler	P	BOILER; SULFITE; SULFITE RECOVERY BOILER; INDUSTRIAL
2410130	Sulfite Recovery Boiler	P	BOILER; SULFITE; SULFITE RECOVERY BOILER; INDUSTRIAL
24101C	Sulfite Recovery Boiler	P	BOILER; SULFITE; SULFITE RECOVERY BOILER; INDUSTRIAL
2520110	Calcium Carbide Furnace	P	CALCIUM CARBIDE; CALCIUM CARBIDE FURNACE; FURNACE; INDUSTRIAL
252012.5	Calcium Carbide Furnace	P	CALCIUM CARBIDE; CALCIUM CARBIDE FURNACE; FURNACE; INDUSTRIAL
2520130	Calcium Carbide Furnace	P	CALCIUM CARBIDE; CALCIUM CARBIDE FURNACE; FURNACE; INDUSTRIAL
25201C	Calcium Carbide Furnace	P	CALCIUM CARBIDE; CALCIUM CARBIDE FURNACE; FURNACE; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2530210	Charcoal Manufacturing	P	CHARCOAL; CHARCOAL MANUFACTURING; INDUSTRIAL
253022.5	Charcoal Manufacturing	P	CHARCOAL; CHARCOAL MANUFACTURING; INDUSTRIAL
2530230	Charcoal Manufacturing	P	CHARCOAL; CHARCOAL MANUFACTURING; INDUSTRIAL
25302C	Charcoal Manufacturing	P	CHARCOAL; CHARCOAL MANUFACTURING; INDUSTRIAL
2540110	Silica Manufacturing	P	SILICA; SILICA MANUFACTURING; INDUSTRIAL
254012.5	Silica Manufacturing	P	SILICA; SILICA MANUFACTURING; INDUSTRIAL
2540130	Silica Manufacturing	P	SILICA; SILICA MANUFACTURING; INDUSTRIAL
25401C	Silica Manufacturing	P	SILICA; SILICA MANUFACTURING; INDUSTRIAL
2540210	Asphalt Roofing Manufacturing	P	ASPHALT; ASPHALT ROOFING; ASPHALT ROOFING MANUFACTURING; INDUTRIAL
254022.5	Asphalt Roofing Manufacturing	P	ASPHALT; ASPHALT ROOFING; ASPHALT ROOFING MANUFACTURING; INDUTRIAL
2540230	Asphalt Roofing Manufacturing	P	ASPHALT; ASPHALT ROOFING; ASPHALT ROOFING MANUFACTURING; INDUTRIAL
25402C	Asphalt Roofing Manufacturing	P	ASPHALT; ASPHALT ROOFING; ASPHALT ROOFING MANUFACTURING; INDUTRIAL
2540310	Paint Spray Booth	P	PAINT; SPRAY BOOTH; SURFACE COATING; INDUSTRIAL
254032.5	Paint Spray Booth	P	PAINT; SPRAY BOOTH; SURFACE COATING; INDUSTRIAL
2540330	Paint Spray Booth	P	PAINT; SPRAY BOOTH; SURFACE COATING; INDUSTRIAL
25403C	Paint Spray Booth	P	PAINT; SPRAY BOOTH; SURFACE COATING; INDUSTRIAL
2540410	Urea Fertilizer Production	P	FERTILIZER; FERTILIZER PRODUCTION; UREA; UREA FERTILIZER PRODUCTION; UREA FERTILIZER; INDUSTRIAL
254042.5	Urea Fertilizer Production	P	FERTILIZER; FERTILIZER PRODUCTION; UREA; UREA FERTILIZER PRODUCTION; UREA FERTILIZER; INDUSTRIAL
2540430	Urea Fertilizer Production	P	FERTILIZER; FERTILIZER PRODUCTION; UREA; UREA FERTILIZER PRODUCTION; UREA FERTILIZER; INDUSTRIAL
25404C	Urea Fertilizer Production	P	FERTILIZER; FERTILIZER PRODUCTION; UREA; UREA FERTILIZER PRODUCTION; UREA FERTILIZER; INDUSTRIAL
2540510	Boric Acid Manufacturing	P	BORIC ACID; BORIC ACID MANUFACTURING; INDUSTRIAL
254052.5	Boric Acid Manufacturing	P	BORIC ACID; BORIC ACID MANUFACTURING; INDUSTRIAL
2540530	Boric Acid Manufacturing	P	BORIC ACID; BORIC ACID MANUFACTURING; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
25405C	Boric Acid Manufacturing	P	BORIC ACID; BORIC ACID MANUFACTURING; INDUSTRIAL
2540610	Carborundum Manufacturing	P	CARBORUNDUM; CARBORUNDUM MANUFACTURING; INDUSTRIAL
254062.5	Carborundum Manufacturing	P	CARBORUNDUM; CARBORUNDUM MANUFACTURING; INDUSTRIAL
2540630	Carborundum Manufacturing	P	CARBORUNDUM; CARBORUNDUM MANUFACTURING; INDUSTRIAL
25406C	Carborundum Manufacturing	P	CARBORUNDUM; CARBORUNDUM MANUFACTURING; INDUSTRIAL
2540710	Phosphorous Plant Plume	P	PHOSPHOROUS; PHOSPHOROUS MANUFACTURING; INDUSTRIAL
254072.5	Phosphorous Plant Plume	P	PHOSPHOROUS; PHOSPHOROUS MANUFACTURING; INDUSTRIAL
2540730	Phosphorous Plant Plume	P	PHOSPHOROUS; PHOSPHOROUS MANUFACTURING; INDUSTRIAL
25407C	Phosphorous Plant Plume	P	PHOSPHOROUS; PHOSPHOROUS MANUFACTURING; INDUSTRIAL
2540810	Fertilizer Production - Phosphate Rock Dust	P	FERTILIZER PRODUCTION; FERTILIZER; PHOSPHATE; PHOSPHATE ROCK; INDUSTRIAL
254082.5	Fertilizer Production - Phosphate Rock Dust	P	FERTILIZER PRODUCTION; FERTILIZER; PHOSPHATE; PHOSPHATE ROCK; INDUSTRIAL
2540830	Fertilizer Production - Phosphate Rock Dust	P	FERTILIZER PRODUCTION; FERTILIZER; PHOSPHATE; PHOSPHATE ROCK; INDUSTRIAL
25408C	Fertilizer Production - Phosphate Rock Dust	P	FERTILIZER PRODUCTION; FERTILIZER; PHOSPHATE; PHOSPHATE ROCK; INDUSTRIAL
2540910	Ammonium Nitrate - Prill Tower	P	AMMONIUM NITRATE; PRILL TOWER; INDUSTRIAL
254092.5	Ammonium Nitrate - Prill Tower	P	AMMONIUM NITRATE; PRILL TOWER; INDUSTRIAL
2540930	Ammonium Nitrate - Prill Tower	P	AMMONIUM NITRATE; PRILL TOWER; INDUSTRIAL
25409C	Ammonium Nitrate - Prill Tower	P	AMMONIUM NITRATE; PRILL TOWER; INDUSTRIAL
2541010	Ammonium Sulfate Production	P	AMMONIUM SULFATE; AMMONIUM SULFATE PRODUCTION; INDUSTRIAL
254102.5	Ammonium Sulfate Production	P	AMMONIUM SULFATE; AMMONIUM SULFATE PRODUCTION; INDUSTRIAL
2541030	Ammonium Sulfate Production	P	AMMONIUM SULFATE; AMMONIUM SULFATE PRODUCTION; INDUSTRIAL
25410C	Ammonium Sulfate Production	P	AMMONIUM SULFATE; AMMONIUM SULFATE PRODUCTION; INDUSTRIAL
2541110	Diammonium Phosphate Plant	P	DIAMMONIUM PHOSPHATE; DIAMMONIUM PHOSPHATE PRODUCTION; INDUSTRIAL
254112.5	Diammonium Phosphate Plant	P	DIAMMONIUM PHOSPHATE; DIAMMONIUM PHOSPHATE PRODUCTION; INDUSTRIAL
2541130	Diammonium Phosphate Plant	P	DIAMMONIUM PHOSPHATE; DIAMMONIUM PHOSPHATE PRODUCTION; INDUSTRIAL
25411C	Diammonium Phosphate Plant	P	DIAMMONIUM PHOSPHATE; DIAMMONIUM PHOSPHATE PRODUCTION; INDUSTRIAL
2541210	Superphosphate Plant	P	FERTILIZER; SUPERPHOSPHATE; SUPERPHOSPHATE PLANT; INDUSTRIAL
254122.5	Superphosphate Plant	P	FERTILIZER; SUPERPHOSPHATE; SUPERPHOSPHATE PLANT; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2541230	Superphosphate Plant	P	FERTILIZER; SUPERPHOSPHATE; SUPERPHOSPHATE PLANT; INDUSTRIAL
25412C	Superphosphate Plant	P	FERTILIZER; SUPERPHOSPHATE; SUPERPHOSPHATE PLANT; INDUSTRIAL
2541310	Superphosphate Granulation	P	SUPERPHOSPHATE; INDUSTRIAL
254132.5	Superphosphate Granulation	P	SUPERPHOSPHATE; INDUSTRIAL
2541330	Superphosphate Granulation	P	SUPERPHOSPHATE; INDUSTRIAL
25413C	Superphosphate Granulation	P	SUPERPHOSPHATE; INDUSTRIAL
2541410	Sodium Tripolyphosphate - Cyclone Dust	P	SODIUM TRIPOLYPHOSPHATE; INDUSTRIAL
254142.5	Sodium Tripolyphosphate - Cyclone Dust	P	SODIUM TRIPOLYPHOSPHATE; INDUSTRIAL
2541430	Sodium Tripolyphosphate - Cyclone Dust	P	SODIUM TRIPOLYPHOSPHATE; INDUSTRIAL
25414C	Sodium Tripolyphosphate - Cyclone Dust	P	SODIUM TRIPOLYPHOSPHATE; INDUSTRIAL
2541510	Npk Fertilizer	P	FERTILIZER; NPK; NPK FERTILIZER; INDUSTRIAL
254152.5	Npk Fertilizer	P	FERTILIZER; NPK; NPK FERTILIZER; INDUSTRIAL
2541530	Npk Fertilizer	P	FERTILIZER; NPK; NPK FERTILIZER; INDUSTRIAL
25415C	Npk Fertilizer	P	FERTILIZER; NPK; NPK FERTILIZER; INDUSTRIAL
2541610	Phosphoric Acid Plant	P	PHOSPHORIC ACID; PHOSPHORIC ACID PLANT; INDUSTRIAL
254162.5	Phosphoric Acid Plant	P	PHOSPHORIC ACID; PHOSPHORIC ACID PLANT; INDUSTRIAL
2541630	Phosphoric Acid Plant	P	PHOSPHORIC ACID; PHOSPHORIC ACID PLANT; INDUSTRIAL
25416C	Phosphoric Acid Plant	P	PHOSPHORIC ACID; PHOSPHORIC ACID PLANT; INDUSTRIAL
2541710	Monoammonium Phosphate Dryer	P	DRYER; MONOAMMONIUM PHOSPHATE; MONOAMMONIUM PHOSPHATE DRYER; INDUSTRIAL
254172.5	Monoammonium Phosphate Dryer	P	DRYER; MONOAMMONIUM PHOSPHATE; MONOAMMONIUM PHOSPHATE DRYER; INDUSTRIAL
2541730	Monoammonium Phosphate Dryer	P	DRYER; MONOAMMONIUM PHOSPHATE; MONOAMMONIUM PHOSPHATE DRYER; INDUSTRIAL
25417C	Monoammonium Phosphate Dryer	P	DRYER; MONOAMMONIUM PHOSPHATE; MONOAMMONIUM PHOSPHATE DRYER; INDUSTRIAL
2541810	Phosphate Fertilizer Calciner	P	PHOSPHATE FERTILIZER CALCINER; FERTILIZER; PHOSPHATE FERTILIZER; INDUSTRIAL
254182.5	Phosphate Fertilizer Calciner	P	PHOSPHATE FERTILIZER CALCINER; FERTILIZER; PHOSPHATE FERTILIZER; INDUSTRIAL
2541830	Phosphate Fertilizer Calciner	P	PHOSPHATE FERTILIZER CALCINER; FERTILIZER; PHOSPHATE FERTILIZER; INDUSTRIAL
25418C	Phosphate Fertilizer Calciner	P	PHOSPHATE FERTILIZER CALCINER; FERTILIZER; PHOSPHATE FERTILIZER; INDUSTRIAL
2541910	Triple Super Phosphate Stack	P	PHOSPHATE; SUPERPHOSPHATE; TRIPLE; SUPERPHOSPHATE; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
254192.5	Triple Super Phosphate Stack	P	PHOSPHATE; SUPERPHOSPHATE; TRIPLE; SUPERPHOSPHATE; INDUSTRIAL
2541930	Triple Super Phosphate Stack	P	PHOSPHATE; SUPERPHOSPHATE; TRIPLE; SUPERPHOSPHATE; INDUSTRIAL
25419C	Triple Super Phosphate Stack	P	PHOSPHATE; SUPERPHOSPHATE; TRIPLE; SUPERPHOSPHATE; INDUSTRIAL
2542010	Slag Loadout Fugitives - Elemental Phosphorus Plant	P	SLAG; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; INDUSTRIAL
254202.5	Slag Loadout Fugitives - Elemental Phosphorus Plant	P	SLAG; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; INDUSTRIAL
2542030	Slag Loadout Fugitives - Elemental Phosphorus Plant	P	SLAG; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; INDUSTRIAL
25420C	Slag Loadout Fugitives - Elemental Phosphorus Plant	P	SLAG; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; INDUSTRIAL
2542110	Calciner - Elemental Phosphorus Plant	P	INDUSTRIAL; ELEMENTAL PHOSPHOROUS; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; CALCINER
254212.5	Calciner - Elemental Phosphorus Plant	P	INDUSTRIAL; ELEMENTAL PHOSPHOROUS; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; CALCINER
2542130	Calciner - Elemental Phosphorus Plant	P	INDUSTRIAL; ELEMENTAL PHOSPHOROUS; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; CALCINER
25421C	Calciner - Elemental Phosphorus Plant	P	INDUSTRIAL; ELEMENTAL PHOSPHOROUS; PHOSPHOROUS; ELEMENTAL PHOSPHOROUS PLANT; CALCINER
2542210	Furnace Tapping - Elemental Phosphorus Plant	P	ELEMENTAL PHOSPHORUS; PHOSPHORUS; FURNACE; ELEMENTAL PHOSPHORUS PLANT; INDUSTRIAL
254222.5	Furnace Tapping - Elemental Phosphorus Plant	P	ELEMENTAL PHOSPHORUS; PHOSPHORUS; FURNACE; ELEMENTAL PHOSPHORUS PLANT; INDUSTRIAL
2542230	Furnace Tapping - Elemental Phosphorus Plant	P	ELEMENTAL PHOSPHORUS; PHOSPHORUS; FURNACE; ELEMENTAL PHOSPHORUS PLANT; INDUSTRIAL
25422C	Furnace Tapping - Elemental Phosphorus Plant	P	ELEMENTAL PHOSPHORUS; PHOSPHORUS; FURNACE; ELEMENTAL PHOSPHORUS PLANT; INDUSTRIAL
2550010	Tar Pot	P	TAR POT; ROOFING; ASPHALT ROOFING; ASPHALT
255002.5	Tar Pot	P	TAR POT; ROOFING; ASPHALT ROOFING; ASPHALT
2550030	Tar Pot	P	TAR POT; ROOFING; ASPHALT ROOFING; ASPHALT
25500C	Tar Pot	P	TAR POT; ROOFING; ASPHALT ROOFING; ASPHALT
2570110	Metal Fabrication - Galvanizing (ZnO)	P	METAL FABRICATION; GALVANIZING; ZINC OXIDE; INDUSTRIAL
257012.5	Metal Fabrication - Galvanizing (ZnO)	P	METAL FABRICATION; GALVANIZING; ZINC OXIDE; INDUSTRIAL
2570130	Metal Fabrication - Galvanizing (ZnO)	P	METAL FABRICATION; GALVANIZING; ZINC OXIDE; INDUSTRIAL
25701C	Metal Fabrication - Galvanizing (ZnO)	P	METAL FABRICATION; GALVANIZING; ZINC OXIDE; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2570210	Metal Fabrication - Sandblasting	P	METAL FABRICATION; SANDBLASTING; INDUSTRIAL
257022.5	Metal Fabrication - Sandblasting	P	METAL FABRICATION; SANDBLASTING; INDUSTRIAL
2570230	Metal Fabrication - Sandblasting	P	METAL FABRICATION; SANDBLASTING; INDUSTRIAL
25702C	Metal Fabrication - Sandblasting	P	METAL FABRICATION; SANDBLASTING; INDUSTRIAL
2570310	Metal Fabrication - Welding	P	METAL FABRICATION; WELDING; INDUSTRIAL
257032.5	Metal Fabrication - Welding	P	METAL FABRICATION; WELDING; INDUSTRIAL
2570330	Metal Fabrication - Welding	P	METAL FABRICATION; WELDING; INDUSTRIAL
25703C	Metal Fabrication - Welding	P	METAL FABRICATION; WELDING; INDUSTRIAL
2610110	Refinery Process Heaters (Gas)	P	HEATERS; PROCESS HEATERS; REFINERY; NATURAL GAS COMBUSTION; INDUSTRIAL
261012.5	Refinery Process Heaters (Gas)	P	HEATERS; PROCESS HEATERS; REFINERY; NATURAL GAS COMBUSTION; INDUSTRIAL
2610130	Refinery Process Heaters (Gas)	P	HEATERS; PROCESS HEATERS; REFINERY; NATURAL GAS COMBUSTION; INDUSTRIAL
26101C	Refinery Process Heaters (Gas)	P	HEATERS; PROCESS HEATERS; REFINERY; NATURAL GAS COMBUSTION; INDUSTRIAL
2620210	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
262022.5	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620230	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
26202C	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620310	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
262032.5	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620330	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
26203C	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620410	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
262042.5	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620430	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
26204C	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620510	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
262052.5	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620530	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
26205C	Petroleum Refinery Catalytic Cracker	P	CATALYTIC CRACKER; REFINERY; INDUSTRIAL
2620610	Coke Calciner	P	CALCINER; COKE; COKE CALCINER; INDUSTRIAL
262062.5	Coke Calciner	P	CALCINER; COKE; COKE CALCINER; INDUSTRIAL
2620630	Coke Calciner	P	CALCINER; COKE; COKE CALCINER; INDUSTRIAL
26206C	Coke Calciner	P	CALCINER; COKE; COKE CALCINER; INDUSTRIAL
2620710	Green Coke Dust	P	COKE; GREEN COKE; INDUSTRIAL
262072.5	Green Coke Dust	P	COKE; GREEN COKE; INDUSTRIAL
2620730	Green Coke Dust	P	COKE; GREEN COKE; INDUSTRIAL
26207C	Green Coke Dust	P	COKE; GREEN COKE; INDUSTRIAL
2620810	Coke Cooler	P	COKE; COKE COOLER; INDUSTRIAL
262082.5	Coke Cooler	P	COKE; COKE COOLER; INDUSTRIAL
2620830	Coke Cooler	P	COKE; COKE COOLER; INDUSTRIAL
26208C	Coke Cooler	P	COKE; COKE COOLER; INDUSTRIAL
2620910	Catalytic Cracker Composite	P	CATALYTIC CRACKER; INDUSTRIAL
262092.5	Catalytic Cracker Composite	P	CATALYTIC CRACKER; INDUSTRIAL
2620930	Catalytic Cracker Composite	P	CATALYTIC CRACKER; INDUSTRIAL
26209C	Catalytic Cracker Composite	P	CATALYTIC CRACKER; INDUSTRIAL
2710210	Glass Furnace	P	FURNACE; GLASS; GLASS FURNACE; INDUSTRIAL
271022.5	Glass Furnace	P	FURNACE; GLASS; GLASS FURNACE; INDUSTRIAL
2710230	Glass Furnace	P	FURNACE; GLASS; GLASS FURNACE; INDUSTRIAL
27102C	Glass Furnace	P	FURNACE; GLASS; GLASS FURNACE; INDUSTRIAL
2720110	Cement Kiln (Gas-Fired)	P	CEMENT; NATURAL GAS COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
272012.5	Cement Kiln (Gas-Fired)	P	CEMENT; NATURAL GAS COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
2720130	Cement Kiln (Gas-Fired)	P	CEMENT; NATURAL GAS COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
27201C	Cement Kiln (Gas-Fired)	P	CEMENT; NATURAL GAS COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
2720310	Cement Kiln (Coal-Fired)	P	CEMENT; COAL COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
272032.5	Cement Kiln (Coal-Fired)	P	CEMENT; COAL COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
2720330	Cement Kiln (Coal-Fired)	P	CEMENT; COAL COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
27203C	Cement Kiln (Coal-Fired)	P	CEMENT; COAL COMBUSTION; KILN; CEMENT KILN; INDUSTRIAL
2720410	Portland Cement Dust	P	CEMENT; PORTLAND CEMENT; INDUSTRIAL
272042.5	Portland Cement Dust	P	CEMENT; PORTLAND CEMENT; INDUSTRIAL
2720430	Portland Cement Dust	P	CEMENT; PORTLAND CEMENT; INDUSTRIAL
27204C	Portland Cement Dust	P	CEMENT; PORTLAND CEMENT; INDUSTRIAL
2720510	Cement Ball Mill	P	CEMENT BALL MILL; CEMENT; INDUSTRIAL
272052.5	Cement Ball Mill	P	CEMENT BALL MILL; CEMENT; INDUSTRIAL
2720530	Cement Ball Mill	P	CEMENT BALL MILL; CEMENT; INDUSTRIAL
27205C	Cement Ball Mill	P	CEMENT BALL MILL; CEMENT; INDUSTRIAL
2750110	Gypsum Calciner	P	CALCINER; GYPSUM; GYPSUM CALCINER; INDUSTRAIL
275012.5	Gypsum Calciner	P	CALCINER; GYPSUM; GYPSUM CALCINER; INDUSTRAIL
2750130	Gypsum Calciner	P	CALCINER; GYPSUM; GYPSUM CALCINER; INDUSTRAIL
27501C	Gypsum Calciner	P	CALCINER; GYPSUM; GYPSUM CALCINER; INDUSTRAIL
2750210	Gypsum Handling	P	INDUSTRIAL; GYPSUM
275022.5	Gypsum Handling	P	INDUSTRIAL; GYPSUM
2750230	Gypsum Handling	P	INDUSTRIAL; GYPSUM
27502C	Gypsum Handling	P	INDUSTRIAL; GYPSUM

Profile Number	Name	Profile Type	Keyword
2750310	Gypsum Kiln	P	INDUSTRIAL; KILN; GYPSUM
275032.5	Gypsum Kiln	P	INDUSTRIAL; KILN; GYPSUM
2750330	Gypsum Kiln	P	INDUSTRIAL; KILN; GYPSUM
27503C	Gypsum Kiln	P	INDUSTRIAL; KILN; GYPSUM
2750410	Gypsum Pile Dust	P	INDUSTRIAL; GYPSUM
275042.5	Gypsum Pile Dust	P	INDUSTRIAL; GYPSUM
2750430	Gypsum Pile Dust	P	INDUSTRIAL; GYPSUM
27504C	Gypsum Pile Dust	P	INDUSTRIAL; GYPSUM
2760110	Lime Handling	P	LIME; INDUSTRIAL
276012.5	Lime Handling	P	LIME; INDUSTRIAL
2760130	Lime Handling	P	LIME; INDUSTRIAL
27601C	Lime Handling	P	LIME; INDUSTRIAL
2760210	Lime Kiln	P	KILN; LIME; INDUSTRIAL
276022.5	Lime Kiln	P	KILN; LIME; INDUSTRIAL
2760230	Lime Kiln	P	KILN; LIME; INDUSTRIAL
27602C	Lime Kiln	P	KILN; LIME; INDUSTRIAL
2820110	Cast Iron Induction Furnace	P	CAST IRON; FURNACE; CAST IRON INDUCTION FURNACE; INDUCTION FURNACE; INDUSTRIAL
282012.5	Cast Iron Induction Furnace	P	CAST IRON; FURNACE; CAST IRON INDUCTION FURNACE; INDUCTION FURNACE; INDUSTRIAL
2820130	Cast Iron Induction Furnace	P	CAST IRON; FURNACE; CAST IRON INDUCTION FURNACE; INDUCTION FURNACE; INDUSTRIAL
28201C	Cast Iron Induction Furnace	P	CAST IRON; FURNACE; CAST IRON INDUCTION FURNACE; INDUCTION FURNACE; INDUSTRIAL
2820210	Cast Iron Cupola	P	CAST IRON; CUPOLA; INDUSTRIAL
282022.5	Cast Iron Cupola	P	CAST IRON; CUPOLA; INDUSTRIAL
2820230	Cast Iron Cupola	P	CAST IRON; CUPOLA; INDUSTRIAL
28202C	Cast Iron Cupola	P	CAST IRON; CUPOLA; INDUSTRIAL
2830110	Steel Production - Steel Sinter Plant	P	STEEL PRODUCTION; STEEL SINTER PLANT; STEEL; INDUSTRIAL
283012.5	Steel Production - Steel Sinter Plant	P	STEEL PRODUCTION; STEEL SINTER PLANT; STEEL; INDUSTRIAL
2830130	Steel Production - Steel Sinter Plant	P	STEEL PRODUCTION; STEEL SINTER PLANT; STEEL; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
28301C	Steel Production - Steel Sinter Plant	P	STEEL PRODUCTION; STEEL SINTER PLANT; STEEL; INDUSTRIAL
2830210	Steel Production - Open Hearth Furnace	P	STEEL PRODUCTION; FURNACE; OPEN HEARTH FURNACE; STEEL; INDUSTRIAL
283022.5	Steel Production - Open Hearth Furnace	P	STEEL PRODUCTION; FURNACE; OPEN HEARTH FURNACE; STEEL; INDUSTRIAL
2830230	Steel Production - Open Hearth Furnace	P	STEEL PRODUCTION; FURNACE; OPEN HEARTH FURNACE; STEEL; INDUSTRIAL
28302C	Steel Production - Open Hearth Furnace	P	STEEL PRODUCTION; FURNACE; OPEN HEARTH FURNACE; STEEL; INDUSTRIAL
2830310	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
283032.5	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
2830330	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
28303C	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
2830410	Iron Ore Dust - Sinter	P	IRON ORE; SINTER; INDUSTRIAL
283042.5	Iron Ore Dust - Sinter	P	IRON ORE; SINTER; INDUSTRIAL
2830430	Iron Ore Dust - Sinter	P	IRON ORE; SINTER; INDUSTRIAL
28304C	Iron Ore Dust - Sinter	P	IRON ORE; SINTER; INDUSTRIAL
2830510	Steel Electric Arc Furnace	P	STEEL ELECTRIC ARC FURNACE; ELECTRIC ARC FURNACE; FURNACE; STEEL; INDUSTRIAL
283052.5	Steel Electric Arc Furnace	P	STEEL ELECTRIC ARC FURNACE; ELECTRIC ARC FURNACE; FURNACE; STEEL; INDUSTRIAL
2830530	Steel Electric Arc Furnace	P	STEEL ELECTRIC ARC FURNACE; ELECTRIC ARC FURNACE; FURNACE; STEEL; INDUSTRIAL
28305C	Steel Electric Arc Furnace	P	STEEL ELECTRIC ARC FURNACE; ELECTRIC ARC FURNACE; FURNACE; STEEL; INDUSTRIAL
2830610	Steel Desulfurization Baghouse Dust	P	STEEL DESULFURIZATION; STEEL; INDUSTRIAL
283062.5	Steel Desulfurization Baghouse Dust	P	STEEL DESULFURIZATION; STEEL; INDUSTRIAL
2830630	Steel Desulfurization Baghouse Dust	P	STEEL DESULFURIZATION; STEEL; INDUSTRIAL
28306C	Steel Desulfurization Baghouse Dust	P	STEEL DESULFURIZATION; STEEL; INDUSTRIAL
2830710	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
283072.5	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
2830730	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL
28307C	Steel Production - Basic Oxygen Furnace	P	STEEL PRODUCTION; FURNACE; BASIC OXYGEN FURNACE; STEEL; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2840110	Ferromanganese Furnace	P	FERROMANGANESE; FURNACE; FERROMANGANESE FURNACE; INDUSTRIAL
284012.5	Ferromanganese Furnace	P	FERROMANGANESE; FURNACE; FERROMANGANESE FURNACE; INDUSTRIAL
2840130	Ferromanganese Furnace	P	FERROMANGANESE; FURNACE; FERROMANGANESE FURNACE; INDUSTRIAL
28401C	Ferromanganese Furnace	P	FERROMANGANESE; FURNACE; FERROMANGANESE FURNACE; INDUSTRIAL
2860110	Steel Foundry - Steel Heat Treating (Salt Quench)	P	SALT QUENCH; FOUNDRY; STEEL; STEEL FOUNDRY; STEEL HEAT TREATING; INDUSTRIAL
286012.5	Steel Foundry - Steel Heat Treating (Salt Quench)	P	SALT QUENCH; FOUNDRY; STEEL; STEEL FOUNDRY; STEEL HEAT TREATING; INDUSTRIAL
2860130	Steel Foundry - Steel Heat Treating (Salt Quench)	P	SALT QUENCH; FOUNDRY; STEEL; STEEL FOUNDRY; STEEL HEAT TREATING; INDUSTRIAL
28601C	Steel Foundry - Steel Heat Treating (Salt Quench)	P	SALT QUENCH; FOUNDRY; STEEL; STEEL FOUNDRY; STEEL HEAT TREATING; INDUSTRIAL
2910110	Aluminum Processing	P	ALUMINUM; ALUMINUM PROCESSING; INDUSTRAIL
291012.5	Aluminum Processing	P	ALUMINUM; ALUMINUM PROCESSING; INDUSTRAIL
2910130	Aluminum Processing	P	ALUMINUM; ALUMINUM PROCESSING; INDUSTRAIL
29101C	Aluminum Processing	P	ALUMINUM; ALUMINUM PROCESSING; INDUSTRAIL
2910210	Aluminum Reduction Potline	P	ALUMINUM; ALUMINUM REDUCTION POTLINE; INDUSTRAIL
291022.5	Aluminum Reduction Potline	P	ALUMINUM; ALUMINUM REDUCTION POTLINE; INDUSTRAIL
2910230	Aluminum Reduction Potline	P	ALUMINUM; ALUMINUM REDUCTION POTLINE; INDUSTRAIL
29102C	Aluminum Reduction Potline	P	ALUMINUM; ALUMINUM REDUCTION POTLINE; INDUSTRAIL
2920110	Copper Oxide Kiln	P	KILN; COPPER OXIDE; COPPER OXIDE KILN; INDUSTRIAL
292012.5	Copper Oxide Kiln	P	KILN; COPPER OXIDE; COPPER OXIDE KILN; INDUSTRIAL
2920130	Copper Oxide Kiln	P	KILN; COPPER OXIDE; COPPER OXIDE KILN; INDUSTRIAL
29201C	Copper Oxide Kiln	P	KILN; COPPER OXIDE; COPPER OXIDE KILN; INDUSTRIAL
2920210	Primary Copper Smelter	P	COPPER; PRIMARY COPPER; SMELTER; PRIMARY COPPER SMELTER; INDUSTRIAL
292022.5	Primary Copper Smelter	P	COPPER; PRIMARY COPPER; SMELTER; PRIMARY COPPER SMELTER; INDUSTRIAL
2920230	Primary Copper Smelter	P	COPPER; PRIMARY COPPER; SMELTER; PRIMARY COPPER SMELTER; INDUSTRIAL
29202C	Primary Copper Smelter	P	COPPER; PRIMARY COPPER; SMELTER; PRIMARY COPPER SMELTER; INDUSTRIAL
2920310	Primary Copper Reverberatory Furnace - Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; REVERBERATORY FURNACE; INDUSTRIAL
292032.5	Primary Copper Reverberatory Furnace - Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; REVERBERATORY FURNACE; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2920330	Primary Copper Reverberatory Furnace - Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; REVERBERATORY FURNACE; INDUSTRIAL
29203C	Primary Copper Reverberatory Furnace - Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; REVERBERATORY FURNACE; INDUSTRIAL
2920410	Primary Copper Reverberatory Furnace - Slag Skim & Pour	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
292042.5	Primary Copper Reverberatory Furnace - Slag Skim & Pour	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
2920430	Primary Copper Reverberatory Furnace - Slag Skim & Pour	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
29204C	Primary Copper Reverberatory Furnace - Slag Skim & Pour	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
2920510	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
292052.5	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
2920530	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
29205C	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
2920610	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
292062.5	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
2920630	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
29206C	Primary Copper Converter - Secondary Hood	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; INDUSTRIAL
2920710	Primary Copper Flash Furnace - Matte & Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER FLASH FURNACE; INDUSTRIAL
292072.5	Primary Copper Flash Furnace - Matte & Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER FLASH FURNACE; INDUSTRIAL
2920730	Primary Copper Flash Furnace - Matte & Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER FLASH FURNACE; INDUSTRIAL
29207C	Primary Copper Flash Furnace - Matte & Slag Tap	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; SLAG; PRIMARY COPPER FLASH FURNACE; INDUSTRIAL
2920810	Primary Copper - Process Stack	P	COPPER; PRIMARY COPPER; INDUSTRIAL
292082.5	Primary Copper - Process Stack	P	COPPER; PRIMARY COPPER; INDUSTRIAL
2920830	Primary Copper - Process Stack	P	COPPER; PRIMARY COPPER; INDUSTRIAL
29208C	Primary Copper - Process Stack	P	COPPER; PRIMARY COPPER; INDUSTRIAL
2920910	Primary Copper Roaster	P	COPPER; PRIMARY COPPER; ROASTER; PRIMARY COPPER ROASTER; INDUSTRIAL
292092.5	Primary Copper Roaster	P	COPPER; PRIMARY COPPER; ROASTER; PRIMARY COPPER ROASTER; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2920930	Primary Copper Roaster	P	COPPER; PRIMARY COPPER; ROASTER; PRIMARY COPPER ROASTER; INDUSTRIAL
29209C	Primary Copper Roaster	P	COPPER; PRIMARY COPPER; ROASTER; PRIMARY COPPER ROASTER; INDUSTRIAL
2921010	Primary Copper Reverberatory Furnace Fugitives Composite	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; REVERBERATORY FURNACE; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
292102.5	Primary Copper Reverberatory Furnace Fugitives Composite	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; REVERBERATORY FURNACE; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
2921030	Primary Copper Reverberatory Furnace Fugitives Composite	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; REVERBERATORY FURNACE; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
29210C	Primary Copper Reverberatory Furnace Fugitives Composite	P	COPPER; FLASH FURNACE; FURNACE; PRIMARY COPPER; REVERBERATORY FURNACE; PRIMARY COPPER REVERB FURNACE; INDUSTRIAL
2921110	Primary Copper Converter - Secondary Hood Composite	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; CONVERTER; INDUSTRIAL
292112.5	Primary Copper Converter - Secondary Hood Composite	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; CONVERTER; INDUSTRIAL
2921130	Primary Copper Converter - Secondary Hood Composite	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; CONVERTER; INDUSTRIAL
29211C	Primary Copper Converter - Secondary Hood Composite	P	COPPER; PRIMARY COPPER CONVERTER; PRIMARY COPPER; CONVERTER; INDUSTRIAL
2930110	Primary Lead Smelting - Slag Pouring	P	LEAD; PRIMARY LEAD; SLAG; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
293012.5	Primary Lead Smelting - Slag Pouring	P	LEAD; PRIMARY LEAD; SLAG; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930130	Primary Lead Smelting - Slag Pouring	P	LEAD; PRIMARY LEAD; SLAG; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
29301C	Primary Lead Smelting - Slag Pouring	P	LEAD; PRIMARY LEAD; SLAG; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930210	Primary Lead Smelting - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
293022.5	Primary Lead Smelting - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930230	Primary Lead Smelting - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
29302C	Primary Lead Smelting - Blast Furnace	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930310	Primary Lead Smelting - Zinc Fuming	P	ZINC FUMING; LEAD; SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
293032.5	Primary Lead Smelting - Zinc Fuming	P	ZINC FUMING; LEAD; SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2930330	Primary Lead Smelting - Zinc Fuming	P	ZINC FUMING; LEAD; SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
29303C	Primary Lead Smelting - Zinc Fuming	P	ZINC FUMING; LEAD; SMELTER; PRIMARY LEAD; PRIMARY LEAD SMELTING; INDUSTRIAL
2930410	Primary Lead Smelting - Sintering	P	SINTERING; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
293042.5	Primary Lead Smelting - Sintering	P	SINTERING; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2930430	Primary Lead Smelting - Sintering	P	SINTERING; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
29304C	Primary Lead Smelting - Sintering	P	SINTERING; LEAD; PRIMARY LEAD; PRIMARY LEAD SMELTING; SMELTER; INDUSTRIAL
2930510	Primary Lead Smelting - Blast Furnace Upset	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
293052.5	Primary Lead Smelting - Blast Furnace Upset	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930530	Primary Lead Smelting - Blast Furnace Upset	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
29305C	Primary Lead Smelting - Blast Furnace Upset	P	BLAST FURNACE; FURNACE; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930610	Primary Lead Smelting-Zinc Baghouse	P	ZINC; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
293062.5	Primary Lead Smelting-Zinc Baghouse	P	ZINC; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930630	Primary Lead Smelting-Zinc Baghouse	P	ZINC; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
29306C	Primary Lead Smelting-Zinc Baghouse	P	ZINC; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2930710	Primary Lead Smelting-Dross Reverberatory Furnace	P	FURNACE; LEAD; PRIMARY LEAD; REVERBERATORY FURNACE; SMELTER; PRIMARY LEAD SMELTING; DROSS REVERBERATORY FURNACE; INDUSTRIAL
293072.5	Primary Lead Smelting-Dross Reverberatory Furnace	P	FURNACE; LEAD; PRIMARY LEAD; REVERBERATORY FURNACE; SMELTER; PRIMARY LEAD SMELTING; DROSS REVERBERATORY FURNACE; INDUSTRIAL
2930730	Primary Lead Smelting-Dross Reverberatory Furnace	P	FURNACE; LEAD; PRIMARY LEAD; REVERBERATORY FURNACE; SMELTER; PRIMARY LEAD SMELTING; DROSS REVERBERATORY FURNACE; INDUSTRIAL
29307C	Primary Lead Smelting-Dross Reverberatory Furnace	P	FURNACE; LEAD; PRIMARY LEAD; REVERBERATORY FURNACE; SMELTER; PRIMARY LEAD SMELTING; DROSS REVERBERATORY FURNACE; INDUSTRIAL
2930910	Primary Lead Smelting-Sinter Production	P	SINTER; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
293092.5	Primary Lead Smelting-Sinter Production	P	SINTER; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
2930930	Primary Lead Smelting-Sinter Production	P	SINTER; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
29309C	Primary Lead Smelting-Sinter Production	P	SINTER; LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2931010	Primary Lead - Dross Building	P	DROSS BUILDING; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
293102.5	Primary Lead - Dross Building	P	DROSS BUILDING; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
2931030	Primary Lead - Dross Building	P	DROSS BUILDING; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
29310C	Primary Lead - Dross Building	P	DROSS BUILDING; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
2931110	Primary Lead - Slag Pour	P	SLAG; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
293112.5	Primary Lead - Slag Pour	P	SLAG; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
2931130	Primary Lead - Slag Pour	P	SLAG; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
29311C	Primary Lead - Slag Pour	P	SLAG; LEAD; PRIMARY LEAD; SMELTER; INDUSTRIAL
2933010	Primary Lead Smelting - Composite	P	LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
293302.5	Primary Lead Smelting - Composite	P	LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2933030	Primary Lead Smelting - Composite	P	LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
29330C	Primary Lead Smelting - Composite	P	LEAD; PRIMARY LEAD; SMELTER; PRIMARY LEAD SMELTING; INDUSTRIAL
2950110	Secondary Copper Pyrometal - Cathode Charge	P	CATHODE CHARGE; COPPER; SECONDARY PYROMETAL; INDUSTRIAL
295012.5	Secondary Copper Pyrometal - Cathode Charge	P	CATHODE CHARGE; COPPER; SECONDARY PYROMETAL; INDUSTRIAL
2950130	Secondary Copper Pyrometal - Cathode Charge	P	CATHODE CHARGE; COPPER; SECONDARY PYROMETAL; INDUSTRIAL
29501C	Secondary Copper Pyrometal - Cathode Charge	P	CATHODE CHARGE; COPPER; SECONDARY PYROMETAL; INDUSTRIAL
2950210	Secondary Copper Pyrometal - Regular Charge	P	SMELTER; COPPER; SECONDARY COPPER PYROMETAL; INDUSTRIAL; SECONDARY COPPER
295022.5	Secondary Copper Pyrometal - Regular Charge	P	SMELTER; COPPER; SECONDARY COPPER PYROMETAL; INDUSTRIAL; SECONDARY COPPER
2950230	Secondary Copper Pyrometal - Regular Charge	P	SMELTER; COPPER; SECONDARY COPPER PYROMETAL; INDUSTRIAL; SECONDARY COPPER
29502C	Secondary Copper Pyrometal - Regular Charge	P	SMELTER; COPPER; SECONDARY COPPER PYROMETAL; INDUSTRIAL; SECONDARY COPPER
3110110	Light Duty Vehicles-Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES

Profile Number	Name	Profile Type	Keyword
311012.5	Light Duty Vehicles-Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110130	Light Duty Vehicles-Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31101C	Light Duty Vehicles-Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110210	Heavy Duty Vehicles - Leaded	P	GASOLINE COMBUSTION; LEADED GASOLINE COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
311022.5	Heavy Duty Vehicles - Leaded	P	GASOLINE COMBUSTION; LEADED GASOLINE COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3110230	Heavy Duty Vehicles - Leaded	P	GASOLINE COMBUSTION; LEADED GASOLINE COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
31102C	Heavy Duty Vehicles - Leaded	P	GASOLINE COMBUSTION; LEADED GASOLINE COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3110310	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
311032.5	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110330	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31103C	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110410	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
311042.5	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110430	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31104C	Light Duty Vehicles - Leaded	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110510	Light Duty Vehicles - Leaded Composite	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
311052.5	Light Duty Vehicles - Leaded Composite	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110530	Light Duty Vehicles - Leaded Composite	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31105C	Light Duty Vehicles - Leaded Composite	P	LIGHT DUTY VEHICLES; LEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3110610	Light Duty Vehicle - Leaded	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES

Profile Number	Name	Profile Type	Keyword
311062.5	Light Duty Vehicle - Leaded	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3110630	Light Duty Vehicle - Leaded	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
31106C	Light Duty Vehicle - Leaded	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3110710	Light Duty Vehicle - With Catalyst	P	GASOLINE COMBUSTION; CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
311072.5	Light Duty Vehicle - With Catalyst	P	GASOLINE COMBUSTION; CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
3110730	Light Duty Vehicle - With Catalyst	P	GASOLINE COMBUSTION; CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
31107C	Light Duty Vehicle - With Catalyst	P	GASOLINE COMBUSTION; CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
3110810	Light Duty Vehicle - Non-Catalyst	P	GASOLINE COMBUSTION; NON-CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
311082.5	Light Duty Vehicle - Non-Catalyst	P	GASOLINE COMBUSTION; NON-CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
3110830	Light Duty Vehicle - Non-Catalyst	P	GASOLINE COMBUSTION; NON-CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
31108C	Light Duty Vehicle - Non-Catalyst	P	GASOLINE COMBUSTION; NON-CATALYST VEHICLES; LIGHT DUTY VEHICLES; VEHICLES
3120110	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
312012.5	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3120130	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31201C	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3120210	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
312022.5	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3120230	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31202C	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3120310	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
312032.5	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES

Profile Number	Name	Profile Type	Keyword
3120330	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
31203C	Light Duty Vehicles - Unleaded	P	LIGHT DUTY VEHICLES; UNLEADED GASOLINE COMBUSTION; GASOLINE COMBUSTION; VEHICLES
3123010	Light Duty Vehicles - Composite	P	LIGHT DUTY VEHICLES; VEHICLES
312302.5	Light Duty Vehicles - Composite	P	LIGHT DUTY VEHICLES; VEHICLES
3123030	Light Duty Vehicles - Composite	P	LIGHT DUTY VEHICLES; VEHICLES
31230C	Light Duty Vehicles - Composite	P	LIGHT DUTY VEHICLES; VEHICLES
3156	Tire Wear	P	Tire Wear
3157	Brake Wear	P	Brake Wear
3158	Motor Vehicle Exhaust - Gasoline	P	Motor Vehicle; Gasoline
3190	Coal Combustion	P	Coal Combustion; Utility
3191	Coal Combustion	P	Coal Combustion; Utility
3192	Coal Combustion	P	Coal Combustion; Utility
3193	Coal Combustion	P	Coal Combustion; Utility
3194	Coal Combustion	P	Coal Combustion; Utility
3195	Gas Combustion	P	Gas Combustion; Utility
3196	Agriculture Soil	P	Geological; Agriculture
3197	Paved Road	P	Geological; Paved Road
3198	Highway Road Dust	P	Geological; Tunnel
3199	Highway Road Dust	P	Geological; Tunnel
3200	Highway Road Dust	P	Geological; Highway
3201	Paved Road Dust	P	Geological; Paved Road
3202	Road Sanding	P	Geological; Road Sanding
3203	Paved Road Dust	P	Geological; Paved Road

Profile Number	Name	Profile Type	Keyword
3204	Unpaved Road Dust	P	Geological; Unpaved Road
3205	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3206	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3207	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3208	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3209	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3210	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3210110	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
321012.5	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210130	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
32101C	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210210	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
321022.5	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210230	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
32102C	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210310	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
321032.5	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210330	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
32103C	Light Duty Vehicles - Diesel	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210410	Light Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES

Profile Number	Name	Profile Type	Keyword
321042.5	Light Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3210430	Light Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
32104C	Light Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; LIGHT DUTY VEHICLES; VEHICLES
3211	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3212	Motor Vehicle Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3213	Gasoline Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3214	Gasoline Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3215	Gasoline Exhaust	P	Motor Vehicle; Dynamometer; Gasoline and Diesel
3216	Gasoline Exhaust	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3217	Gasoline Exhaust	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3218	Gasoline Exhaust	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3219	Diesel Exhaust	P	Motor Vehicle; Dynamometer; Diesel
3220	Diesel Exhaust	P	Motor Vehicle; Dynamometer; Diesel
3220210	Heavy Duty Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
322022.5	Heavy Duty Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220230	Heavy Duty Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
32202C	Heavy Duty Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220310	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
322032.5	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220330	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
32203C	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220410	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES

Profile Number	Name	Profile Type	Keyword
322042.5	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220430	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
32204C	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220510	Diesel Vehicles - Las Vegas Valley (1987)	P	DIESEL COMBUSTION; VEHICLES
322052.5	Diesel Vehicles - Las Vegas Valley (1987)	P	DIESEL COMBUSTION; VEHICLES
3220530	Diesel Vehicles - Las Vegas Valley (1987)	P	DIESEL COMBUSTION; VEHICLES
32205C	Diesel Vehicles - Las Vegas Valley (1987)	P	DIESEL COMBUSTION; VEHICLES
3220610	Heavy Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
322062.5	Heavy Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220630	Heavy Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
32206C	Heavy Duty Vehicles - Diesel Composite	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220710	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
322072.5	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220730	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
32207C	Heavy Duty Vehicles - Diesel	P	DIESEL COMBUSTION; VEHICLES; HEAVY DUTY VEHICLES
3220810	Heavy Duty Diesel Trucks	P	DIESEL COMBUSTION; HEAVY DUTY VEHICLES
322082.5	Heavy Duty Diesel Trucks	P	DIESEL COMBUSTION; HEAVY DUTY VEHICLES
3220830	Heavy Duty Diesel Trucks	P	DIESEL COMBUSTION; HEAVY DUTY VEHICLES
32208C	Heavy Duty Diesel Trucks	P	DIESEL COMBUSTION; HEAVY DUTY VEHICLES
3221	Diesel Exhaust	P	Motor Vehicle; Dynamometer; Diesel
3222	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3223	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3224	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3225	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3226	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3227	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3228	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3229	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline
3230	Gasoline Exhaust - Unleaded	P	Motor Vehicle; Dynamometer; Leaded Gasoline

Profile Number	Name	Profile Type	Keyword
3231	Refinery	P	Refinery; Catalytic Cracker
3232	Residential Wood Burning	P	Vegetative Burning; Fireplace
3233	Residential Wood Burning	P	Vegetative Burning; Fireplace
3234	Residential Wood Burning	P	Vegetative Burning; Fireplace
3235	Residential Wood Burning	P	Vegetative Burning; Fireplace
3236	Residential Wood Burning	P	Vegetative Burning; Woodstove
3237	Residential Wood Burning	P	Vegetative Burning; Fireplace
3238	Residential Wood Burning	P	Vegetative Burning; Woodstove
3239	Residential Wood Burning	P	Vegetative Burning; Woodstove
3240	Residential Wood Burning	P	Vegetative Burning; Woodstove
3241	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3242	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3243	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3244	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3245	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3246	Residential Wood Burning	P	Vegetative Burning; Fireplace
3247	Residential Wood Burning	P	Vegetative Burning; Fireplace
3248	Residential Wood Burning	P	Vegetative Burning; Fireplace
3249	Residential Wood Burning	P	Vegetative Burning; Fireplace
3250	Residential Wood Burning	P	Vegetative Burning; Fireplace
3251	Oil Combustion	P	Oil Combustion; Crude Oil
3252	Oil Combustion	P	Oil Combustion; Crude Oil
3253	Oil Combustion	P	Oil Combustion; Crude Oil
3254	Oil Combustion	P	Oil Combustion; Crude Oil
3255	Oil Combustion	P	Oil Combustion; Crude Oil
3256	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3257	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3258	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3259	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture

Profile Number	Name	Profile Type	Keyword
3260	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3261	Freeway Road Dust	P	Geological; Freeway Construction
3262	Freeway Road Dust	P	Geological; Freeway Construction
3263	Freeway Road Dust	P	Geological; Freeway Construction
3264	Freeway Road Dust	P	Geological; Freeway Construction
3265	Freeway Road Dust	P	Geological; Freeway Construction
3266	Diesel Exhaust	P	Motor Vehicle; Diesel
3267	Diesel Exhaust	P	Motor Vehicle; Diesel
3268	Diesel Exhaust	P	Motor Vehicle; Diesel
3270	Diesel Exhaust	P	Motor Vehicle; Diesel
3271	Residential Wood Burning	P	Vegetative Burning; Woodstove
3272	Residential Wood Burning	P	Vegetative Burning; Woodstove
3273	Residential Wood Burning	P	Vegetative Burning; Woodstove
3275	Residential Wood Burning	P	Vegetative Burning; Woodstove
3276	Residential Wood Burning	P	Vegetative Burning; Fireplace
3277	Residential Wood Burning	P	Vegetative Burning; Fireplace
3278	Residential Wood Burning	P	Vegetative Burning; Fireplace
3280	Residential Wood Burning	P	Vegetative Burning; Fireplace
3281	Tire Burning	P	Incinerator; Tire Burning
3282	Tire Burning	P	Incinerator; Tire Burning
3283	Tire Burning	P	Incinerator; Tire Burning
3284	Tire Burning	P	Incinerator; Tire Burning
3285	Tire Burning	P	Incinerator; Tire Burning
3286	Incinerator	P	Incinerator
3287	Incinerator	P	Incinerator
3288	Incinerator	P	Incinerator
3290	Incinerator	P	Incinerator
3291	Oil Combustion	P	Oil Combustion; Cruel Oil
3292	Oil Combustion	P	Oil Combustion; Cruel Oil

Profile Number	Name	Profile Type	Keyword
3293	Oil Combustion	P	Oil Combustion; Cruel Oil
3295	Oil Combustion	P	Oil Combustion; Cruel Oil
3296	Agriculture Soil	P	Geological; Agriculture
3297	Agriculture Soil	P	Geological; Agriculture
3298	Agriculture Soil	P	Geological; Agriculture
3299	Agriculture Soil	P	Geological; Agriculture
3300	Agriculture Soil	P	Geological; Agriculture
3300110	Leaded/unleaded Gasoline Composite - 1977	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; VEHICLES
330012.5	Leaded/unleaded Gasoline Composite - 1977	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; VEHICLES
3300130	Leaded/unleaded Gasoline Composite - 1977	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; VEHICLES
33001C	Leaded/unleaded Gasoline Composite - 1977	P	GASOLINE COMBUSTION; LEADED/UNLEADED GASOLINE COMBUSTION; VEHICLES
3300210	Transportation Composite - Medford, OR (1980)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; DIESEL COMBUSTION; LEADED/UNLEADED COMBUSTION; TIRE WEAR; ROADWAY
330022.5	Transportation Composite - Medford, OR (1980)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; DIESEL COMBUSTION; LEADED/UNLEADED COMBUSTION; TIRE WEAR; ROADWAY
3300230	Transportation Composite - Medford, OR (1980)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; DIESEL COMBUSTION; LEADED/UNLEADED COMBUSTION; TIRE WEAR; ROADWAY
33002C	Transportation Composite - Medford, OR (1980)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; DIESEL COMBUSTION; LEADED/UNLEADED COMBUSTION; TIRE WEAR; ROADWAY
3300310	Transportation Composite - Portland, OR (1979)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; LEADED/UNLEADED COMBUSTION;
330032.5	Transportation Composite - Portland, OR (1979)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; LEADED/UNLEADED COMBUSTION;
3300330	Transportation Composite - Portland, OR (1979)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; LEADED/UNLEADED COMBUSTION;
33003C	Transportation Composite - Portland, OR (1979)	P	TRANSPORTATION COMPOSITE; VEHICLES; GASOLINE COMBUSTION; LEADED/UNLEADED COMBUSTION;
3300410	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES
330042.5	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES
3300430	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES
33004C	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES
3300510	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES

Profile Number	Name	Profile Type	Keyword
330052.5	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300530	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
33005C	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300610	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
330062.5	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300630	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
33006C	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300710	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
330072.5	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300730	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
33007C	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300810	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES; ASBESTOS BRAKES
330082.5	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES; ASBESTOS BRAKES
3300830	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES; ASBESTOS BRAKES
33008C	Transportation Composite	P	TRANSPORTATION COMPOSITE; TIRE WEAR; VEHICLES; ASBESTOS BRAKES
3300910	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
330092.5	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3300930	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
33009C	Transportation Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3301	Agriculture Soil	P	Geological; Agriculture
3301010	Gasoline Vehicles - Las Vegas Valley (1987)	P	GASOLINE COMBUSTION; VEHICLES
330102.5	Gasoline Vehicles - Las Vegas Valley (1987)	P	GASOLINE COMBUSTION; VEHICLES
3301030	Gasoline Vehicles - Las Vegas Valley (1987)	P	GASOLINE COMBUSTION; VEHICLES
33010C	Gasoline Vehicles - Las Vegas Valley (1987)	P	GASOLINE COMBUSTION; VEHICLES
3301110	Highway Vehicles - Composite	P	VEHICLES
330112.5	Highway Vehicles - Composite	P	VEHICLES
3301130	Highway Vehicles - Composite	P	VEHICLES

Profile Number	Name	Profile Type	Keyword
33011C	Highway Vehicles - Composite	P	VEHICLES
3302	Paved Road Dust	P	Geological; Paved Road
3302010	Transportation - Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
330202.5	Transportation - Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3302030	Transportation - Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
33020C	Transportation - Composite	P	TRANSPORTATION COMPOSITE; VEHICLES
3303	Paved Road Dust	P	Geological; Paved Road
3304	Paved Road Dust	P	Geological; Paved Road
3305	Paved Road Dust	P	Geological; Paved Road
3306	Agriculture Soil	P	Geological; Agriculture
3307	Agriculture Soil	P	Geological; Agriculture
3308	Agriculture Soil	P	Geological; Agriculture
3309	Agriculture Soil	P	Geological; Agriculture
3310	Agriculture Soil	P	Geological; Agriculture
3311	Agriculture Soil	P	Geological; Agriculture
3312	Agriculture Soil	P	Geological; Agriculture
3313	Agriculture Soil	P	Geological; Agriculture
3314	Agriculture Soil	P	Geological; Agriculture
3315	Agriculture Soil	P	Geological; Agriculture
3316	Sand and Gravel	P	Geological
3317	Sand and Gravel	P	Geological
3318	Sand and Gravel	P	Geological
3319	Sand and Gravel	P	Geological
3320	Sand and Gravel	P	Geological
3321	Unpaved Road Dust	P	Geological; Unpaved Road
3322	Unpaved Road Dust	P	Geological; Unpaved Road

Profile Number	Name	Profile Type	Keyword
3323	Unpaved Road Dust	P	Geological; Unpaved Road
3324	Unpaved Road Dust	P	Geological; Unpaved Road
3325	Unpaved Road Dust	P	Geological; Unpaved Road
3326	Paved Road Dust	P	Geological; Paved Road
3327	Paved Road Dust	P	Geological; Paved Road
3328	Paved Road Dust	P	Geological; Paved Road
3329	Paved Road Dust	P	Geological; Paved Road
3330	Paved Road Dust	P	Geological; Paved Road
3331	Agriculture Soil	P	Geological; Agriculture
3332	Agriculture Soil	P	Geological; Agriculture
3333	Agriculture Soil	P	Geological; Agriculture
3334	Agriculture Soil	P	Geological; Agriculture
3335	Agriculture Soil	P	Geological; Agriculture
3336	Agriculture Soil	P	Geological; Agriculture
3337	Agriculture Soil	P	Geological; Agriculture
3338	Agriculture Soil	P	Geological; Agriculture
3339	Agriculture Soil	P	Geological; Agriculture
3340	Agriculture Soil	P	Geological; Agriculture
3341	Unpaved Road Dust	P	Geological; Unpaved Road
3342	Unpaved Road Dust	P	Geological; Unpaved Road
3343	Unpaved Road Dust	P	Geological; Unpaved Road
3344	Unpaved Road Dust	P	Geological; Unpaved Road
3345	Unpaved Road Dust	P	Geological; Unpaved Road
3346	Paved Road Dust	P	Geological; Paved Road
3347	Paved Road Dust	P	Geological; Paved Road
3348	Paved Road Dust	P	Geological; Paved Road
3349	Paved Road Dust	P	Geological; Paved Road
3350	Paved Road Dust	P	Geological; Paved Road
3351	Unpaved Road Dust	P	Geological; Unpaved Road

Profile Number	Name	Profile Type	Keyword
3352	Unpaved Road Dust	P	Geological; Unpaved Road
3353	Unpaved Road Dust	P	Geological; Unpaved Road
3354	Unpaved Road Dust	P	Geological; Unpaved Road
3355	Unpaved Road Dust	P	Geological; Unpaved Road
3356	Agriculture Soil	P	Geological; Agriculture
3357	Agriculture Soil	P	Geological; Agriculture
3358	Agriculture Soil	P	Geological; Agriculture
3359	Agriculture Soil	P	Geological; Agriculture
3360	Agriculture Soil	P	Geological; Agriculture
3361	Agriculture Soil	P	Geological; Agriculture
3362	Agriculture Soil	P	Geological; Agriculture
3363	Agriculture Soil	P	Geological; Agriculture
3364	Agriculture Soil	P	Geological; Agriculture
3365	Agriculture Soil	P	Geological; Agriculture
3366	Unpaved Road Dust	P	Geological; Unpaved Road
3367	Unpaved Road Dust	P	Geological; Unpaved Road
3368	Unpaved Road Dust	P	Geological; Unpaved Road
3369	Unpaved Road Dust	P	Geological; Unpaved Road
3370	Unpaved Road Dust	P	Geological; Unpaved Road
3371	Unpaved Road Dust	P	Geological; Unpaved Road
3372	Unpaved Road Dust	P	Geological; Unpaved Road
3373	Unpaved Road Dust	P	Geological; Unpaved Road
3374	Unpaved Road Dust	P	Geological; Unpaved Road
3375	Unpaved Road Dust	P	Geological; Unpaved Road
3376	Unpaved Road Dust	P	Geological; Unpaved Road
3377	Unpaved Road Dust	P	Geological; Unpaved Road
3378	Unpaved Road Dust	P	Geological; Unpaved Road
3379	Unpaved Road Dust	P	Geological; Unpaved Road
3380	Unpaved Road Dust	P	Geological; Unpaved Road

Profile Number	Name	Profile Type	Keyword
3381	Paved Road Dust	P	Geological; Paved Road
3382	Paved Road Dust	P	Geological; Paved Road
3383	Paved Road Dust	P	Geological; Paved Road
3384	Paved Road Dust	P	Geological; Paved Road
3385	Paved Road Dust	P	Geological; Paved Road
3386	Paved Road Dust	P	Geological; Paved Road
3387	Paved Road Dust	P	Geological; Paved Road
3388	Paved Road Dust	P	Geological; Paved Road
3389	Paved Road Dust	P	Geological; Paved Road
3390	Paved Road Dust	P	Geological; Paved Road
3391	Agriculture Soil	P	Geological; Agriculture
3392	Agriculture Soil	P	Geological; Agriculture
3393	Agriculture Soil	P	Geological; Agriculture
3394	Agriculture Soil	P	Geological; Agriculture
3395	Agriculture Soil	P	Geological; Agriculture
3396	Desert Soil	P	Geological; Desert
3397	Desert Soil	P	Geological; Desert
3398	Desert Soil	P	Geological; Desert
3399	Desert Soil	P	Geological; Desert
3400	Desert Soil	P	Geological; Desert
3400110	Jet Aircraft	P	AIRCRAFT; JET AIRCRAFT
340012.5	Jet Aircraft	P	AIRCRAFT; JET AIRCRAFT
3400130	Jet Aircraft	P	AIRCRAFT; JET AIRCRAFT
34001C	Jet Aircraft	P	AIRCRAFT; JET AIRCRAFT
3400210	Tire Wear	P	VEHICLES; TIRE WEAR
340022.5	Tire Wear	P	VEHICLES; TIRE WEAR
3400230	Tire Wear	P	VEHICLES; TIRE WEAR
34002C	Tire Wear	P	VEHICLES; TIRE WEAR
3400310	Tire Wear	P	VEHICLES; TIRE WEAR

Profile Number	Name	Profile Type	Keyword
340032.5	Tire Wear	P	VEHICLES; TIRE WEAR
3400330	Tire Wear	P	VEHICLES; TIRE WEAR
34003C	Tire Wear	P	VEHICLES; TIRE WEAR
3400410	Brake Lining, Asbestos	P	ASBESTOS BRAKES; BRAKE LINING; VEHICLES
340042.5	Brake Lining, Asbestos	P	ASBESTOS BRAKES; BRAKE LINING; VEHICLES
3400430	Brake Lining, Asbestos	P	ASBESTOS BRAKES; BRAKE LINING; VEHICLES
34004C	Brake Lining, Asbestos	P	ASBESTOS BRAKES; BRAKE LINING; VEHICLES
3400510	Motor Oil	P	MOTOR OIL; VEHICLES
340052.5	Motor Oil	P	MOTOR OIL; VEHICLES
3400530	Motor Oil	P	MOTOR OIL; VEHICLES
34005C	Motor Oil	P	MOTOR OIL; VEHICLES
3400610	Semimetal Disk Brake Pads	P	BRAKE PADS; SEMIMETAL BRAKE PADS; VEHICLES
340062.5	Semimetal Disk Brake Pads	P	BRAKE PADS; SEMIMETAL BRAKE PADS; VEHICLES
3400630	Semimetal Disk Brake Pads	P	BRAKE PADS; SEMIMETAL BRAKE PADS; VEHICLES
34006C	Semimetal Disk Brake Pads	P	BRAKE PADS; SEMIMETAL BRAKE PADS; VEHICLES
3400710	Organometallic Brake Dust	P	BRAKE PADS; ORGANOMETALLIC BRAKE PADS; VEHICLES
340072.5	Organometallic Brake Dust	P	BRAKE PADS; ORGANOMETALLIC BRAKE PADS; VEHICLES
3400730	Organometallic Brake Dust	P	BRAKE PADS; ORGANOMETALLIC BRAKE PADS; VEHICLES
34007C	Organometallic Brake Dust	P	BRAKE PADS; ORGANOMETALLIC BRAKE PADS; VEHICLES
3400810	Tire Wear	P	VEHICLES; TIRE WEAR
340082.5	Tire Wear	P	VEHICLES; TIRE WEAR
3400830	Tire Wear	P	VEHICLES; TIRE WEAR
34008C	Tire Wear	P	VEHICLES; TIRE WEAR
3401	Desert Soil	P	Geological; Desert
3402	Desert Soil	P	Geological; Desert
3403	Desert Soil	P	Geological; Desert
3404	Desert Soil	P	Geological; Desert
3405	Desert Soil	P	Geological; Desert
3406	Desert Soil	P	Geological; Desert

Profile Number	Name	Profile Type	Keyword
3407	Desert Soil	P	Geological; Desert
3408	Desert Soil	P	Geological; Desert
3409	Desert Soil	P	Geological; Desert
3410	Desert Soil	P	Geological; Desert
3411	Desert Soil	P	Geological; Desert
3412	Desert Soil	P	Geological; Desert
3413	Desert Soil	P	Geological; Desert
3414	Desert Soil	P	Geological; Desert
3415	Desert Soil	P	Geological; Desert
3416	Volcanic Soil	P	Geological; Volcanic
3417	Volcanic Soil	P	Geological; Volcanic
3418	Volcanic Soil	P	Geological; Volcanic
3419	Volcanic Soil	P	Geological; Volcanic
3420	Volcanic Soil	P	Geological; Volcanic
3421	Paved Road Dust	P	Geological; Paved Road
3422	Paved Road Dust	P	Geological; Paved Road
3423	Paved Road Dust	P	Geological; Paved Road
3424	Paved Road Dust	P	Geological; Paved Road
3425	Paved Road Dust	P	Geological; Paved Road
3426	Agriculture Soil	P	Geological; Agriculture
3427	Agriculture Soil	P	Geological; Agriculture
3428	Agriculture Soil	P	Geological; Agriculture
3429	Agriculture Soil	P	Geological; Agriculture
3430	Agriculture Soil	P	Geological; Agriculture
3431	Paved Road Dust	P	Geological; Paved Road
3432	Paved Road Dust	P	Geological; Paved Road
3433	Paved Road Dust	P	Geological; Paved Road
3434	Paved Road Dust	P	Geological; Paved Road
3435	Paved Road Dust	P	Geological; Paved Road

Profile Number	Name	Profile Type	Keyword
3436	Unpaved Road Dust	P	Geological; Unpaved Road
3437	Unpaved Road Dust	P	Geological; Unpaved Road
3438	Unpaved Road Dust	P	Geological; Unpaved Road
3439	Unpaved Road Dust	P	Geological; Unpaved Road
3440	Unpaved Road Dust	P	Geological; Unpaved Road
3441	Agriculture Soil	P	Geological; Agriculture
3442	Agriculture Soil	P	Geological; Agriculture
3443	Agriculture Soil	P	Geological; Agriculture
3444	Agriculture Soil	P	Geological; Agriculture
3445	Agriculture Soil	P	Geological; Agriculture
3446	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3447	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3448	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3449	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3450	Agriculture Vegetative Burning	P	Geological; Agriculture
3451	Agriculture Vegetative Burning	P	Geological; Agriculture
3452	Agriculture Vegetative Burning	P	Geological; Agriculture
3453	Agriculture Vegetative Burning	P	Geological; Agriculture
3454	Agriculture Vegetative Burning	P	Geological; Agriculture
3455	Agriculture Vegetative Burning	P	Geological; Agriculture
3456	Dairy Soil	P	Geological; Dairy
3457	Dairy Soil	P	Geological; Dairy
3458	Dairy Soil	P	Geological; Dairy
3459	Dairy Soil	P	Geological; Dairy
3460	Dairy Soil	P	Geological; Dairy
3461	Diesel Exhaust	P	Motor Vehicle; Diesel
3462	Diesel Exhaust	P	Motor Vehicle; Diesel
3463	Diesel Exhaust	P	Motor Vehicle; Diesel
3465	Diesel Exhaust	P	Motor Vehicle; Diesel

Profile Number	Name	Profile Type	Keyword
3466	Gold Quarry Soil	P	Geological; Gold Quarry
3467	Gold Quarry Soil	P	Geological; Gold Quarry
3468	Gold Quarry Soil	P	Geological; Gold Quarry
3469	Gold Quarry Soil	P	Geological; Gold Quarry
3470	Gold Quarry Soil	P	Geological; Gold Quarry
3471	Gold Quarry Soil	P	Geological; Gold Quarry
3472	Gold Quarry Soil	P	Geological; Gold Quarry
3473	Gold Quarry Soil	P	Geological; Gold Quarry
3474	Gold Quarry Soil	P	Geological; Gold Quarry
3475	Gold Quarry Soil	P	Geological; Gold Quarry
3476	Local Soil	P	Geological
3477	Local Soil	P	Geological
3478	Local Soil	P	Geological
3479	Local Soil	P	Geological
3480	Local Soil	P	Geological
3481	Paved Road Dust	P	Geological; Paved Road
3482	Local Soil	P	Geological; Construction
3483	Local Soil	P	Geological
3484	Paved Road Dust	P	Geological; Paved Road
3485	Local Soil	P	Geological
3486	Local Soil	P	Geological
3487	Agriculture Soil	P	Geological; Agriculture
3488	Agriculture Soil	P	Geological; Agriculture
3489	Agriculture Soil	P	Geological; Agriculture
3490	Construction Dust	P	Geological; Construction
3491	Construction Dust	P	Geological; Construction
3492	Construction Dust	P	Geological; Construction
3493	Desert Soil	P	Geological; Desert
3494	Desert Soil	P	Geological; Desert

Profile Number	Name	Profile Type	Keyword
3495	Desert Soil	P	Geological; Desert
3496	Agriculture Soil	P	Geological; Agriculture
3497	Agriculture Soil	P	Geological; Agriculture
3498	Agriculture Soil	P	Geological; Agriculture
3499	Paved Road Dust	P	Geological; Paved Road
3500	Paved Road Dust	P	Geological; Paved Road
3501	Paved Road Dust	P	Geological; Paved Road
3502	Paved Road Dust	P	Geological; Paved Road
3503	Paved Road Dust	P	Geological; Paved Road
3504	Paved Road Dust	P	Geological; Paved Road
3505	Unpaved Road Dust	P	Geological; Unpaved Road
3506	Unpaved Road Dust	P	Geological; Unpaved Road
3507	Unpaved Road Dust	P	Geological; Unpaved Road
3508	Unpaved Road Dust	P	Geological; Unpaved Road
3509	Unpaved Road Dust	P	Geological; Unpaved Road
3510	Unpaved Road Dust	P	Geological; Unpaved Road
3511	Desert Soil	P	Geological; Desert
3512	Desert Soil	P	Geological; Desert
3513	Desert Soil	P	Geological; Desert
3514	Unpaved Road Dust	P	Geological; Unpaved Road
3515	Unpaved Road Dust	P	Geological; Unpaved Road
3516	Unpaved Road Dust	P	Geological; Unpaved Road
3517	Gasoline Exhaust	P	Motor Vehicle; Gasoline
3518	Diesel Exhaust	P	Motor Vehicle; Diesel
3519	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3520	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3521	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3522	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3523	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
3524	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3525	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3526	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3527	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3528	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3529	Regional Background	P	Regional Background; Non Smelter
3530	Regional Background	P	Regional Background; Smelter
3531	Unpaved Road Dust	P	Geological; Unpaved Road; Steel
3532	Unpaved Road Dust	P	Geological; Unpaved Road; Steel
3533	Unpaved Road Dust	P	Geological; Unpaved Road; Steel
3534	Unpaved Road Dust	P	Geological; Unpaved Road
3535	Unpaved Road Dust	P	Geological; Unpaved Road
3536	Unpaved Road Dust	P	Geological; Unpaved Road
3537	Mill Soil	P	Geological; Mill
3538	Mill Soil	P	Geological; Mill
3539	Mill Soil	P	Geological; Mill
3540	Paved Road Dust	P	Geological; Paved Road
3541	Paved Road Dust	P	Geological; Paved Road
3542	Paved Road Dust	P	Geological; Paved Road
3543	Roof Dust	P	Geological; Roof
3544	Roof Dust	P	Geological; Roof
3545	Roof Dust	P	Geological; Roof
3546	Industrial Soil	P	Geological; Steel
3547	Industrial Soil	P	Geological; Steel
3548	Industrial Soil	P	Geological; Steel
3549	Local Soil	P	Geological
3550	Local Soil	P	Geological
3551	Local Soil	P	Geological
3552	Local Soil	P	Geological

Profile Number	Name	Profile Type	Keyword
3553	Local Soil	P	Geological
3554	Local Soil	P	Geological
3555	Local Soil	P	Geological
3556	Local Soil	P	Geological
3557	Local Soil	P	Geological
3558	Paved Road Dust	P	Geological
3559	Paved Road Dust	P	Geological
3560	Local Soil	P	Geological
3561	Paved Road Dust	P	Geological; Paved Road
3562	Paved Road Dust	P	Geological; Paved Road
3563	Local Soil	P	Geological
3564	Local Soil	P	Geological
3565	Paved Road Dust - Highway	P	Geological; Highway
3566	Paved Road Dust - Highway	P	Geological; Highway
3567	Paved Road Dust	P	Geological; Paved Road
3568	Paved Road Dust	P	Geological; Paved Road
3569	Local Soil	P	Geological
3570	Local Soil	P	Geological
3571	Local Soil	P	Geological
3572	Local Soil	P	Geological
3573	Paved Road Dust	P	Geological; Paved Road
3574	Local Soil	P	Geological
3575	Paved Road Dust	P	Geological; Paved Road
3576	Local Soil	P	Geological
3577	Local Soil	P	Geological
3578	Local Soil	P	Geological
3579	Local Soil	P	Geological
3580	Local Soil	P	Geological
3581	Local Soil	P	Geological

Profile Number	Name	Profile Type	Keyword
3582	Local Soil	P	Geological
3583	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3584	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3585	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3586	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3587	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3588	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3589	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3590	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3591	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3592	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3593	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3594	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3595	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3596	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3597	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3598	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3599	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3600	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3601	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3602	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3603	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3604	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3605	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3606	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3607	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3608	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3609	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3610	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
3611	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3612	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3613	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3614	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3615	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3616	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3617	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3618	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3619	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3620	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3621	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3622	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3623	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3624	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3625	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3627	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3628	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3630	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3631	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3633	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3639	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3640	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3642	Agriculture Vegetative Burning	P	Vegetative Burning; Agriculture
3643	Cooking	P	Cooking; Charbroil
3644	Cooking	P	Cooking; Charbroil
3645	Manure Combustion	P	Manure Combustion; Utility
3646	Manure Combustion	P	Manure Combustion; Utility
3647	Manure Combustion	P	Manure Combustion; Utility
3648	Manure Combustion	P	Manure Combustion; Utility

Profile Number	Name	Profile Type	Keyword
3649	Manure Combustion	P	Manure Combustion; Utility
3650	Fly Ash	P	Fly Ash; Utility
3651	Fly Ash	P	Fly Ash; Utility
3652	Oil Combustion	P	Oil Combustion; Glass
3653	Fly Ash	P	Fly Ash; Glass
3654	Fly Ash	P	Fly Ash; Utility
3655	Fly Ash	P	Fly Ash; Utility
3656	Fly Ash	P	Fly Ash; Lime
3657	Fly Ash	P	Fly Ash
3658	Unpaved Road Dust	P	Geological; Unpaved Road
3659	Local Soil	P	Geological
3660	Local Soil	P	Geological
3661	Paved Road Dust	P	Geological; Tunnel; Paved Road
3662	Paved Road Dust	P	Geological; Tunnel; Paved Road
3663	Fly Ash	P	Geological; Fly Ash
3664	Cement	P	Geological; Cement
3665	Sand	P	Geological
3666	Paved Road Dust	P	Geological; Paved Road
3667	Paved Road Dust	P	Geological; Paved Road
3668	Unpaved Road Dust	P	Geological; Unpaved Road
3669	Unpaved Road Dust	P	Geological; Unpaved Road
3670	Local Soil	P	Geological
3671	Local Soil	P	Geological
3672	Unpaved Road Dust	P	Geological; Unpaved Road
3673	Unpaved Road Dust	P	Geological; Unpaved Road
3674	Local Soil	P	Geological
3675	Unpaved Road Dust	P	Geological; Unpaved Road
3676	Unpaved Road Dust	P	Geological; Unpaved Road
3677	Cement	P	Geological; Cement

Profile Number	Name	Profile Type	Keyword
3678	Local Soil	P	Geological
3679	Unpaved Road Dust	P	Geological; Unpaved Road
3680	Paved Road Dust	P	Geological; Paved Road
3681	Local Soil	P	Geological
3682	Local Soil	P	Geological
3683	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3684	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3685	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3686	Coal Combustion	P	Coal Combustion; Utility
3687	Coal Combustion	P	Coal Combustion; Utility
3688	Coal Combustion	P	Coal Combustion; Utility
3689	Coal Combustion	P	Coal Combustion; Utility
3690	Coal Combustion	P	Coal Combustion; Utility
3691	Coal Combustion	P	Coal Combustion; Utility
3692	Coal Combustion	P	Coal Combustion; Utility
3693	Coal Combustion	P	Coal Combustion; Utility
3694	Coal Combustion	P	Coal Combustion; Utility
3695	Coal Combustion	P	Coal Combustion; Utility
3696	Coal Combustion	P	Coal Combustion; Utility
3697	Coal Combustion	P	Coal Combustion; Utility
3698	Coal Combustion	P	Coal Combustion; Utility
3699	Coal Combustion	P	Coal Combustion; Utility
3700	Coal Combustion	P	Coal Combustion; Utility
3701	Coal Combustion	P	Coal Combustion; Utility
3702	Local Soil	P	Geological
3703	Local Soil	P	Geological
3704	Unpaved Road Dust	P	Geological; Unpaved Road
3705	Paved Road Dust	P	Geological; Paved Road
3706	Paved Road Dust	P	Geological; Paved Road

Profile Number	Name	Profile Type	Keyword
3707	Paved Road Dust	P	Geological; Paved Road
3708	Paved Road Dust	P	Geological; Paved Road
3709	Local Soil	P	Geological
3710	Local Soil	P	Geological
3711	Unpaved Road Dust	P	Geological; Unpaved Road
3712	Local Soil	P	Geological
3713	Paved Road Dust	P	Geological
3714	Paved Road Dust	P	Geological; Paved Road
3715	Paved Road Dust	P	Geological; Paved Road
3716	Paved Road Dust	P	Geological; Paved Road
3717	Local Soil	P	Geological
3718	Paved Road Dust	P	Geological; Paved Road
3719	Unpaved Road Dust	P	Geological; Unpaved Road
3720	Geothermal Background	P	Background; Geothermal
3721	Geothermal Background	P	Background; Geothermal
3722	Geothermal Background	P	Background; Geothermal
3723	Geothermal Background	P	Background; Geothermal
3724	Geothermal Background	P	Background; Geothermal
3725	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3726	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3727	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3728	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3729	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3730	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3731	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3732	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3733	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3734	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3735	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
3736	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3737	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3738	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3739	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3740	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3741	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3742	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3754	Regional Background	P	Regional Background
3755	Regional Background	P	Regional Background
3756	Regional Background	P	Regional Background
3757	Residential Coal Combustion	P	Coal Combustion; Residential
3758	Residential Coal Combustion	P	Coal Combustion; Residential
3759	Residential Coal Combustion	P	Coal Combustion; Residential
3760	Residential Coal Combustion	P	Coal Combustion; Residential
3761	Residential Coal Combustion	P	Coal Combustion; Residential
3762	Forest Fire	P	Vegetative Burning; Forest Fire
3763	Forest Fire	P	Vegetative Burning; Forest Fire
3764	Forest Fire	P	Vegetative Burning; Forest Fire
3765	Forest Fire	P	Vegetative Burning; Forest Fire
3766	Forest Fire	P	Vegetative Burning; Forest Fire
3767	Residential Wood Burning	P	Vegetative Burning; Fireplace
3768	Residential Wood Burning	P	Vegetative Burning; Fireplace
3769	Residential Wood Burning	P	Vegetative Burning; Woodstove
3770	Residential Wood Burning	P	Vegetative Burning
3771	Construction Dust	P	Geological; Construction
3772	Construction Dust	P	Geological; Construction
3773	Construction Dust	P	Geological; Construction
3774	Construction Dust	P	Geological; Construction
3775	Construction Dust	P	Geological; Construction

Profile Number	Name	Profile Type	Keyword
3776	Construction Dust	P	Geological; Construction
3777	Desert Soil	P	Geological; Desert
3778	Local Soil	P	Geological
3779	Paved Road Dust	P	Geological; Paved Road
3780	Paved Road Dust	P	Geological; Paved Road
3781	Paved Road Dust	P	Geological; Paved Road
3782	Paved Road Dust	P	Geological; Paved Road
3783	Paved Road Dust	P	Geological; Paved Road
3784	Paved Road Dust	P	Geological; Paved Road
3785	Paved Road Dust	P	Geological; Paved Road
3786	Paved Road Dust	P	Geological; Paved Road
3787	Paved Road Dust	P	Geological; Paved Road
3788	Paved Road Dust	P	Geological; Paved Road
3789	Paved Road Dust	P	Geological; Paved Road
3790	Desert Soil	P	Geological; Desert
3791	Desert Soil	P	Geological; Desert
3792	Desert Soil	P	Geological; Desert
3793	Desert Soil	P	Geological; Desert
3794	Desert Soil	P	Geological; Desert
3795	Desert Soil	P	Geological; Desert
3796	Unpaved Road Dust	P	Geological; Unpaved Road
3797	Unpaved Road Dust	P	Geological; Unpaved Road
3798	Unpaved Road Dust	P	Geological; Unpaved Road
3799	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3800	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3801	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3802	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3803	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3804	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
3805	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3806	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3807	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3808	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3809	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3810	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3811	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3812	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3813	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3814	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3815	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3816	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3817	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3818	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3819	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3820	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3821	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3822	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3823	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3824	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3825	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
3826	Residential Wood Burning	P	Vegetative Burning; Fireplace
3827	Residential Wood Burning	P	Vegetative Burning; Fireplace
3828	Residential Wood Burning	P	Vegetative Burning; Fireplace
3829	Residential Wood Burning	P	Vegetative Burning; Fireplace
3830	Residential Wood Burning	P	Vegetative Burning; Fireplace
3831	Residential Wood Burning	P	Vegetative Burning; Fireplace
3832	Residential Wood Burning	P	Vegetative Burning; Fireplace
3833	Residential Wood Burning	P	Vegetative Burning; Fireplace

Profile Number	Name	Profile Type	Keyword
3834	Residential Wood Burning	P	Vegetative Burning; Fireplace
3835	Residential Wood Burning	P	Vegetative Burning; Fireplace
3836	Residential Wood Burning	P	Vegetative Burning; Fireplace
3837	Residential Wood Burning	P	Vegetative Burning; Fireplace
3838	Residential Wood Burning	P	Vegetative Burning; Fireplace
3839	Residential Wood Burning	P	Vegetative Burning; Fireplace
3840	Residential Wood Burning	P	Vegetative Burning; Fireplace
3841	Residential Wood Burning	P	Vegetative Burning; Fireplace
3842	Residential Wood Burning	P	Vegetative Burning; Fireplace
3843	Residential Wood Burning	P	Vegetative Burning; Fireplace
3844	Residential Wood Burning	P	Vegetative Burning; Fireplace
3845	Residential Wood Burning	P	Vegetative Burning; Fireplace
3846	Residential Wood Burning	P	Vegetative Burning; Fireplace
3847	Residential Wood Burning	P	Vegetative Burning; Fireplace
3848	Residential Wood Burning	P	Vegetative Burning; Fireplace
3849	Residential Wood Burning	P	Vegetative Burning; Fireplace
3850	Residential Wood Burning	P	Vegetative Burning; Fireplace
3851	Residential Wood Burning	P	Vegetative Burning; Fireplace
3852	Residential Wood Burning	P	Vegetative Burning; Woodstove
3853	Residential Wood Burning	P	Vegetative Burning; Woodstove
3854	Residential Wood Burning	P	Vegetative Burning; Woodstove
3855	Residential Wood Burning	P	Vegetative Burning; Woodstove
3856	Residential Wood Burning	P	Vegetative Burning; Woodstove
3857	Gasoline Exhaust	P	Motor Vehicle; Gasoline
3858	Diesel Exhaust	P	Motor Vehicle; Diesel
3859	Diesel Exhaust	P	Motor Vehicle; Diesel
3860	Helicopter Exhaust	P	Aircraft; Helicopter
3861	Aircraft Exhaust	P	Aircraft
3862	Oil Combustion	P	Oil Combustion; Diesel

Profile Number	Name	Profile Type	Keyword
3863	Oil Combustion	P	Oil Combustion; Diesel
3864	Oil Combustion	P	Oil Combustion; Diesel
3865	Local Soil	P	Geological
3866	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3867	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3868	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3869	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3870	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3871	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3872	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3873	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3874	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3875	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3876	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3877	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3878	Diesel Exhaust	P	Motor Vehicle; Dynamometer; Diesel
3879	Diesel Exhaust	P	Motor Vehicle; Dynamometer; Diesel
3880	Diesel Exhaust	P	Motor Vehicle; Dynamometer; Diesel
3881	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3882	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3883	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3884	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3885	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3886	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3887	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3888	Gasoline Exhaust - Winter, low emitter	P	Motor Vehicle; Dynamometer; Gasoline
3889	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3890	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3891	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline

Profile Number	Name	Profile Type	Keyword
3892	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3893	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3894	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3895	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3896	Gasoline Exhaust - Winter, high emitter	P	Motor Vehicle; Dynamometer; Gasoline
3897	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3898	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3899	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3900	Gasoline Exhaust - Winter, non-smoker	P	Motor Vehicle; Dynamometer; Gasoline
3901	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3902	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3903	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3904	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3905	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3906	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3907	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3908	Gasoline Exhaust - Winter, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3909	Diesel Exhaust	P	Motor Vehicle; Diesel
3910	Diesel Exhaust	P	Motor Vehicle; Diesel
3911	Diesel Exhaust	P	Motor Vehicle; Diesel
3912	Diesel Exhaust	P	Motor Vehicle; Diesel
3913	Diesel Exhaust	P	Motor Vehicle; Diesel
3914	Diesel Exhaust	P	Motor Vehicle; Diesel
3915	Cooking	P	Cooking
3916	Cooking	P	Cooking; Hamburger
3917	Cooking	P	Cooking; Hamburger
3918	Cooking	P	Cooking; Chicken
3919	Cooking	P	Cooking; Steak
3920	Residential Wood Burning	P	Vegetative Burning; Fireplace

Profile Number	Name	Profile Type	Keyword
3921	Residential Wood Burning	P	Vegetative Burning; Fireplace
3922	Residential Wood Burning	P	Vegetative Burning; Fireplace
3923	Residential Wood Burning	P	Vegetative Burning; Fireplace
3924	Residential Wood Burning	P	Vegetative Burning; Fireplace
3925	Residential Wood Burning	P	Vegetative Burning; Fireplace
3926	Residential Wood Burning	P	Vegetative Burning; Fireplace
3927	Residential Wood Burning	P	Vegetative Burning; Fireplace
3928	Residential Wood Burning	P	Vegetative Burning; Fireplace
3929	Residential Wood Burning	P	Vegetative Burning; Fireplace
3930	Residential Wood Burning	P	Vegetative Burning; Fireplace
3931	Residential Wood Burning	P	Vegetative Burning; Fireplace
3932	Residential Wood Burning	P	Vegetative Burning; Fireplace
3933	Residential Wood Burning	P	Vegetative Burning; Fireplace
3934	Residential Wood Burning	P	Vegetative Burning; Fireplace
3935	Residential Wood Burning	P	Vegetative Burning; Fireplace
3936	Residential Wood Burning	P	Vegetative Burning; Fireplace
3937	Residential Wood Burning	P	Vegetative Burning; Fireplace
3938	Paved Road Dust	P	Geological; Paved Road
3939	Paved Road Dust	P	Geological; Paved Road
3940	Paved Road Dust	P	Geological; Paved Road
3941	Paved Road Dust	P	Geological; Paved Road
3942	Paved Road Dust	P	Geological; Paved Road
3943	Paved Road Dust	P	Geological; Paved Road
3944	Gasoline Exhaust - Summer, low-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3945	Gasoline Exhaust - Summer, low-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3946	Gasoline Exhaust - Summer, low-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3947	Gasoline Exhaust - Summer, low-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3948	Gasoline Exhaust - Summer, medium-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3949	Gasoline Exhaust - Summer, medium-emitter	P	Motor Vehicle; Dynamometer; Gasoline

Profile Number	Name	Profile Type	Keyword
3950	Gasoline Exhaust - Summer, medium-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3951	Gasoline Exhaust - Summer, medium-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3952	Gasoline Exhaust - Summer, high-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3953	Gasoline Exhaust - Summer, high-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3954	Gasoline Exhaust - Summer, high-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3955	Gasoline Exhaust - Summer, high-emitter	P	Motor Vehicle; Dynamometer; Gasoline
3956	Gasoline Exhaust - Summer, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3957	Gasoline Exhaust - Summer, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3958	Gasoline Exhaust - Summer, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3959	Gasoline Exhaust - Summer, smoker	P	Motor Vehicle; Dynamometer; Gasoline
3960	Diesel Exhaust	P	Motor Vehicle; Diesel
3961	Diesel Exhaust	P	Motor Vehicle; Diesel
3962	Diesel Exhaust	P	Motor Vehicle; Diesel
3963	Diesel Exhaust	P	Motor Vehicle; Diesel
3964	Oil Refinery Deposition	P	Geological; Oil Refinery
3965	Oil Refinery Deposition	P	Geological; Oil Refinery
3966	Unpaved Road Dust	P	Geological; Unpaved Road
3967	Unpaved Road Dust	P	Geological; Unpaved Road
3968	Unpaved Road Dust	P	Geological; Unpaved Road
3969	Unpaved Road Dust	P	Geological; Unpaved Road
3970	Paved Road Dust	P	Geological; Paved Road
3971	Paved Road Dust	P	Geological; Paved Road
3972	Local Soil	P	Geological
3973	Local Soil	P	Geological
3974	Paved Road Dust	P	Geological; Paved Road
3975	Paved Road Dust	P	Geological; Paved Road
3976	Paved Road Dust	P	Geological; Paved Road
3977	Paved Road Dust	P	Geological; Paved Road
3978	Industrial Dust	P	Geological; Refuse-Derived Fuel

Profile Number	Name	Profile Type	Keyword
3979	Industrial Dust	P	Geological; Refuse-Derived Fuel
3980	Salting Material	P	Geological; Salting
3981	Salting Material	P	Geological; Salting
3982	Forest Soil	P	Geological; Forest
3984	Fly Ash	P	Geological; Fly Ash
3985	Fly Ash	P	Geological; Fly Ash
3986	Industrial Fly Ash	P	Fly Ash; Utility
3987	Industrial Fly Ash	P	Fly Ash; Utility
3988	Industrial Soil	P	Geological; Steel
3989	Industrial Soil	P	Geological; Steel
3990	Industrial Soil	P	Geological; Steel
3991	Industrial Soil	P	Geological; Steel
3992	Industrial Soil	P	Geological; Steel
3993	Industrial Soil	P	Geological; Steel
3994	Local Soil	P	Geological
3995	Local Soil	P	Geological
3996	Industrial Soil	P	Geological; Steel
3997	Industrial Soil	P	Geological; Steel
3998	Lime Kiln	P	Lime Kiln
3999	Lime Kiln	P	Lime Kiln
4000	Gasoline Exhaust - Leaded	P	Motor Vehicle; Leaded Gasoline
4001	Gasoline Exhaust - Leaded	P	Motor Vehicle; Leaded Gasoline
4002	Paper Waste Burning	P	Paper Waste Burning
4003	Paper Waste Burning	P	Paper Waste Burning
4004	Residential Coal Combustion	P	Coal Combustion; Residential
4005	Residential Coal Combustion	P	Coal Combustion; Residential
4006	Residential Coal Combustion	P	Coal Combustion; Residential
4007	Residential Coal Combustion	P	Coal Combustion; Residential
4008	Residential Coal Combustion	P	Coal Combustion; Residential

Profile Number	Name	Profile Type	Keyword
4009	Residential Coal Combustion	P	Coal Combustion; Residential
4010	Residential Coal Combustion	P	Coal Combustion; Residential
4011	Residential Coal Combustion	P	Coal Combustion; Residential
4012	Forest Fire	P	Vegetative Burning; Forest Fire
4013	Forest Fire	P	Vegetative Burning; Forest Fire
4014	Diesel Exhaust	P	Motor Vehicle; Diesel
4015	Diesel Exhaust	P	Motor Vehicle; Diesel
4016	Diesel Exhaust	P	Motor Vehicle; Diesel
4017	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4018	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4019	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4020	Cooking	P	Cooking
4021	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4022	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4023	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4024	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4026	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4027	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4028	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4029	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4030	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4031	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4032	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4033	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4034	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4035	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4036	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4037	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4038	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
4039	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4040	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4041	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4042	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4043	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4044	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4045	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4046	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4047	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4048	Cooking	P	Cooking; Chicken
4049	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4050	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4051	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4052	Cooking	P	Cooking
4053	Diesel Exhaust	P	Motor Vehicle; Diesel
4054	Diesel Exhaust	P	Motor Vehicle; Diesel
4055	Diesel Exhaust	P	Motor Vehicle; Diesel
4056	Diesel Exhaust	P	Motor Vehicle; Diesel
4057	Diesel Exhaust	P	Motor Vehicle; Diesel
4058	Diesel Exhaust	P	Motor Vehicle; Diesel
4059	Diesel Exhaust	P	Motor Vehicle; Diesel
4060	Diesel Exhaust	P	Motor Vehicle; Diesel
4061	Diesel Exhaust	P	Motor Vehicle; Diesel
4062	Diesel Exhaust	P	Motor Vehicle; Diesel
4063	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4064	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4065	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4066	Paved Road Dust	P	Geological; Paved Road
4067	Paved Road Dust	P	Geological; Paved Road

Profile Number	Name	Profile Type	Keyword
4068	Unpaved Road Dust	P	Geological; Unpaved Road
4069	Unpaved Road Dust	P	Geological; Unpaved Road
4070	Agriculture Soil	P	Geological; Agriculture
4071	Agriculture Soil	P	Geological; Agriculture
4072	Farm Soil	P	Geological; Grain Storage
4073	Farm Soil	P	Geological; Grain Storage
4074	Local Soil	P	Geological
4075	Local Soil	P	Geological
4076	Marble	P	Geological; Marble
4077	Marble	P	Geological; Marble
4078	Fly Ash	P	Geological; Fly Ash
4079	Fly Ash	P	Geological; Fly Ash
4080	Landfill Material	P	Geological
4081	Landfill Material	P	Geological
4082	Asphalt	P	Geological; Asphalt
4083	Asphalt	P	Geological; Asphalt
4084	Cement	P	Geological; Cement
4085	Cement	P	Geological; Cement
4086	Cement	P	Geological; Cement
4087	Cement	P	Geological; Cement
4088	Volcanic Soil	P	Geological; volcanic
4089	Volcanic Soil	P	Geological; volcanic
4090	Unpaved Park Dust	P	Geological; Unpaved
4091	Unpaved Park Dust	P	Geological; Unpaved
4092	Unpaved Park Dust	P	Geological; Unpaved
4093	Unpaved Park Dust	P	Geological; Unpaved
4094	Unpaved Park Dust	P	Geological; Unpaved
4095	Unpaved Park Dust	P	Geological; Unpaved
4096	Unpaved Park Dust	P	Geological

Profile Number	Name	Profile Type	Keyword
4097	Unpaved Park Dust	P	Geological
4098	Unpaved Park Dust	P	Geological
4099	Unpaved Park Dust	P	Geological
4100	Paved Road Dust	P	Geological; Paved Road
4101	Paved Road Dust	P	Geological; Paved Road
4102	Paved Road Dust	P	Geological; Paved Road
4103	Paved Road Dust	P	Geological; Paved Road
4104	Paved Road Dust	P	Geological; Paved Road
4105	Paved Road Dust	P	Geological; Paved Road
4106	Road Dirt	P	Geological
4107	Road Dirt	P	Geological
4108	Cooking	P	Cooking; Pork
4109	Cooking	P	Cooking; Pork
4110	Cooking	P	Cooking
4110110	Paved Road Dust Missoula, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
411012.5	Paved Road Dust Missoula, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
4110130	Paved Road Dust Missoula, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
41101C	Paved Road Dust Missoula, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
4110210	Paved Road Dust - Juneau, Alaska	P	ROADWAY; PAVED ROAD; VEHICLES
411022.5	Paved Road Dust - Juneau, Alaska	P	ROADWAY; PAVED ROAD; VEHICLES
4110230	Paved Road Dust - Juneau, Alaska	P	ROADWAY; PAVED ROAD; VEHICLES
41102C	Paved Road Dust - Juneau, Alaska	P	ROADWAY; PAVED ROAD; VEHICLES
4110310	Paved Road Dust - Lewiston, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
411032.5	Paved Road Dust - Lewiston, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4110330	Paved Road Dust - Lewiston, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
41103C	Paved Road Dust - Lewiston, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4110410	Paved Road Dust - Butte, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
411042.5	Paved Road Dust - Butte, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
4110430	Paved Road Dust - Butte, Montana	P	ROADWAY; PAVED ROAD; VEHICLES

Profile Number	Name	Profile Type	Keyword
41104C	Paved Road Dust - Butte, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
4110510	Paved Road Dust - East Helena, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
411052.5	Paved Road Dust - East Helena, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
4110530	Paved Road Dust - East Helena, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
41105C	Paved Road Dust - East Helena, Montana	P	ROADWAY; PAVED ROAD; VEHICLES
4110610	Paved Road Dust - Medford Or	P	ROADWAY; PAVED ROAD; VEHICLES
411062.5	Paved Road Dust - Medford Or	P	ROADWAY; PAVED ROAD; VEHICLES
4110630	Paved Road Dust - Medford Or	P	ROADWAY; PAVED ROAD; VEHICLES
41106C	Paved Road Dust - Medford Or	P	ROADWAY; PAVED ROAD; VEHICLES
4110710	Paved Road Dust - Portland, OR	P	ROADWAY; PAVED ROAD; VEHICLES
411072.5	Paved Road Dust - Portland, OR	P	ROADWAY; PAVED ROAD; VEHICLES
4110730	Paved Road Dust - Portland, OR	P	ROADWAY; PAVED ROAD; VEHICLES
41107C	Paved Road Dust - Portland, OR	P	ROADWAY; PAVED ROAD; VEHICLES
4110910	Paved Road Dust - Alabama	P	ROADWAY; PAVED ROAD; VEHICLES
411092.5	Paved Road Dust - Alabama	P	ROADWAY; PAVED ROAD; VEHICLES
4110930	Paved Road Dust - Alabama	P	ROADWAY; PAVED ROAD; VEHICLES
41109C	Paved Road Dust - Alabama	P	ROADWAY; PAVED ROAD; VEHICLES
4111	Cooking	P	Cooking
4111010	Paved Road Dust - Spokane, WA	P	ROADWAY; PAVED ROAD; VEHICLES
411102.5	Paved Road Dust - Spokane, WA	P	ROADWAY; PAVED ROAD; VEHICLES
4111030	Paved Road Dust - Spokane, WA	P	ROADWAY; PAVED ROAD; VEHICLES
41110C	Paved Road Dust - Spokane, WA	P	ROADWAY; PAVED ROAD; VEHICLES
4111110	Paved Road Dust - Pasadena Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
411112.5	Paved Road Dust - Pasadena Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111130	Paved Road Dust - Pasadena Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
41111C	Paved Road Dust - Pasadena Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111210	Paved Road Dust - Artesia Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
411122.5	Paved Road Dust - Artesia Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111230	Paved Road Dust - Artesia Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES

Profile Number	Name	Profile Type	Keyword
41112C	Paved Road Dust - Artesia Freeway (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111310	Paved Road Dust - Long Beach Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
411132.5	Paved Road Dust - Long Beach Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111330	Paved Road Dust - Long Beach Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
41113C	Paved Road Dust - Long Beach Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111410	Paved Road Dust - Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411142.5	Paved Road Dust - Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111430	Paved Road Dust - Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41114C	Paved Road Dust - Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111510	Paved Road Dust - La Cienega Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
411152.5	Paved Road Dust - La Cienega Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111530	Paved Road Dust - La Cienega Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
41115C	Paved Road Dust - La Cienega Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111610	Paved Road Dust - Hawthorne, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411162.5	Paved Road Dust - Hawthorne, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111630	Paved Road Dust - Hawthorne, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41116C	Paved Road Dust - Hawthorne, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111710	Paved Road Dust - Victory Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
411172.5	Paved Road Dust - Victory Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111730	Paved Road Dust - Victory Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
41117C	Paved Road Dust - Victory Blvd. (CA)	P	ROADWAY; PAVED ROAD; VEHICLES
4111810	Paved Road Dust - Burbank, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411182.5	Paved Road Dust - Burbank, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111830	Paved Road Dust - Burbank, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41118C	Paved Road Dust - Burbank, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111910	Paved Road Dust - North Main St., Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411192.5	Paved Road Dust - North Main St., Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4111930	Paved Road Dust - North Main St., Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41119C	Paved Road Dust - North Main St., Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES

Profile Number	Name	Profile Type	Keyword
4112	Agriculture Soil	P	Geological; Agriculture
4112010	Paved Road Dust - Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411202.5	Paved Road Dust - Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112030	Paved Road Dust - Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41120C	Paved Road Dust - Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112110	Paved Road Dust - South Harbor Blvd., Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411212.5	Paved Road Dust - South Harbor Blvd., Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112130	Paved Road Dust - South Harbor Blvd., Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41121C	Paved Road Dust - South Harbor Blvd., Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112210	Paved Road Dust - Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411222.5	Paved Road Dust - Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112230	Paved Road Dust - Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41122C	Paved Road Dust - Anaheim, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112310	Paved Road Dust - Riverside, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411232.5	Paved Road Dust - Riverside, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112330	Paved Road Dust - Riverside, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41123C	Paved Road Dust - Riverside, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112410	Paved Road Dust - Sepulveda Tunnel, Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411242.5	Paved Road Dust - Sepulveda Tunnel, Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4112430	Paved Road Dust - Sepulveda Tunnel, Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41124C	Paved Road Dust - Sepulveda Tunnel, Los Angeles, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4113	Agriculture Soil	P	Geological; Agriculture
4113010	Paved Road Dust - Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411302.5	Paved Road Dust - Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113030	Paved Road Dust - Composite	P	ROADWAY; PAVED ROAD; VEHICLES
41130C	Paved Road Dust - Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113110	Paved Road Dust - Freeway Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411312.5	Paved Road Dust - Freeway Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113130	Paved Road Dust - Freeway Composite	P	ROADWAY; PAVED ROAD; VEHICLES

Profile Number	Name	Profile Type	Keyword
41131C	Paved Road Dust - Freeway Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113210	Paved Road Dust - Composite-Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
411322.5	Paved Road Dust - Composite-Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4113230	Paved Road Dust - Composite-Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
41132C	Paved Road Dust - Composite-Long Beach, CA	P	ROADWAY; PAVED ROAD; VEHICLES
4113310	Paved Road Dust - Hawthorne Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411332.5	Paved Road Dust - Hawthorne Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113330	Paved Road Dust - Hawthorne Composite	P	ROADWAY; PAVED ROAD; VEHICLES
41133C	Paved Road Dust - Hawthorne Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113410	Paved Road Dust - Burbank Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411342.5	Paved Road Dust - Burbank Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113430	Paved Road Dust - Burbank Composite	P	ROADWAY; PAVED ROAD; VEHICLES
41134C	Paved Road Dust - Burbank Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113510	Paved Road Dust - Los Angeles Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411352.5	Paved Road Dust - Los Angeles Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113530	Paved Road Dust - Los Angeles Composite	P	ROADWAY; PAVED ROAD; VEHICLES
41135C	Paved Road Dust - Los Angeles Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113610	Paved Road Dust - Anaheim Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411362.5	Paved Road Dust - Anaheim Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113630	Paved Road Dust - Anaheim Composite	P	ROADWAY; PAVED ROAD; VEHICLES
41136C	Paved Road Dust - Anaheim Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113710	Paved Road Dust - Scab Composite	P	ROADWAY; PAVED ROAD; VEHICLES
411372.5	Paved Road Dust - Scab Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113730	Paved Road Dust - Scab Composite	P	ROADWAY; PAVED ROAD; VEHICLES
41137C	Paved Road Dust - Scab Composite	P	ROADWAY; PAVED ROAD; VEHICLES
4113810	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
411382.5	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4113830	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
41138C	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES

Profile Number	Name	Profile Type	Keyword
4113910	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
411392.5	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4113930	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
41139C	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4114	Agriculture Soil	P	Geological; Agriculture
4114010	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
411402.5	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4114030	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
41140C	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4114110	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
411412.5	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4114130	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
41141C	Paved Road Dust - Pocatello, Idaho	P	ROADWAY; PAVED ROAD; VEHICLES
4114210	Paved Road Dust - Pasadena CA	P	ROADWAY; PAVED ROAD; VEHICLES
411422.5	Paved Road Dust - Pasadena CA	P	ROADWAY; PAVED ROAD; VEHICLES
4114230	Paved Road Dust - Pasadena CA	P	ROADWAY; PAVED ROAD; VEHICLES
41142C	Paved Road Dust - Pasadena CA	P	ROADWAY; PAVED ROAD; VEHICLES
4115	Agriculture Soil	P	Geological; Agriculture
4116	Agriculture Soil	P	Geological; Agriculture
4117	Agriculture Soil	P	Geological; Agriculture
4118	Agriculture Soil	P	Geological; Agriculture
4119	Agriculture Soil	P	Geological; Agriculture
4120	Agriculture Soil	P	Geological; Agriculture
4120110	Unpaved Road Dust (Copper Mine)	P	COPPER MINING; ROADWAY; UNPAVED ROAD; VEHICLES
412012.5	Unpaved Road Dust (Copper Mine)	P	COPPER MINING; ROADWAY; UNPAVED ROAD; VEHICLES
4120130	Unpaved Road Dust (Copper Mine)	P	COPPER MINING; ROADWAY; UNPAVED ROAD; VEHICLES
41201C	Unpaved Road Dust (Copper Mine)	P	COPPER MINING; ROADWAY; UNPAVED ROAD; VEHICLES
4120310	Unpaved Road Dust - Haul Road	P	ROADWAY; UNPAVED ROAD; VEHICLES
412032.5	Unpaved Road Dust - Haul Road	P	ROADWAY; UNPAVED ROAD; VEHICLES

Profile Number	Name	Profile Type	Keyword
4120330	Unpaved Road Dust - Haul Road	P	ROADWAY; UNPAVED ROAD; VEHICLES
41203C	Unpaved Road Dust - Haul Road	P	ROADWAY; UNPAVED ROAD; VEHICLES
4120410	Unpaved Road Dust - East Helena, Montana	P	ROADWAY; UNPAVED ROAD; VEHICLES
412042.5	Unpaved Road Dust - East Helena, Montana	P	ROADWAY; UNPAVED ROAD; VEHICLES
4120430	Unpaved Road Dust - East Helena, Montana	P	ROADWAY; UNPAVED ROAD; VEHICLES
41204C	Unpaved Road Dust - East Helena, Montana	P	ROADWAY; UNPAVED ROAD; VEHICLES
4120510	Unpaved Road Dust - Riverside, CA	P	ROADWAY; UNPAVED ROAD; VEHICLES
412052.5	Unpaved Road Dust - Riverside, CA	P	ROADWAY; UNPAVED ROAD; VEHICLES
4120530	Unpaved Road Dust - Riverside, CA	P	ROADWAY; UNPAVED ROAD; VEHICLES
41205C	Unpaved Road Dust - Riverside, CA	P	ROADWAY; UNPAVED ROAD; VEHICLES
4120610	Ore And Road Dust Fugitives - Pocatello, Idaho	P	ROADWAY; ORE DUST; VEHICLES
412062.5	Ore And Road Dust Fugitives - Pocatello, Idaho	P	ROADWAY; ORE DUST; VEHICLES
4120630	Ore And Road Dust Fugitives - Pocatello, Idaho	P	ROADWAY; ORE DUST; VEHICLES
41206C	Ore And Road Dust Fugitives - Pocatello, Idaho	P	ROADWAY; ORE DUST; VEHICLES
4120710	Unpaved Road Dust - Pocatello, Idaho	P	ROADWAY; UNPAVED ROAD; VEHICLES
412072.5	Unpaved Road Dust - Pocatello, Idaho	P	ROADWAY; UNPAVED ROAD; VEHICLES
4120730	Unpaved Road Dust - Pocatello, Idaho	P	ROADWAY; UNPAVED ROAD; VEHICLES
41207C	Unpaved Road Dust - Pocatello, Idaho	P	ROADWAY; UNPAVED ROAD; VEHICLES
4121	Agriculture Soil	P	Geological; Agriculture
4122	Agriculture Soil	P	Geological; Agriculture
4122010	Unpaved Road Dust - Composite	P	ROADWAY; UNPAVED ROAD; VEHICLES
412202.5	Unpaved Road Dust - Composite	P	ROADWAY; UNPAVED ROAD; VEHICLES
4122030	Unpaved Road Dust - Composite	P	ROADWAY; UNPAVED ROAD; VEHICLES
41220C	Unpaved Road Dust - Composite	P	ROADWAY; UNPAVED ROAD; VEHICLES
4123	Agriculture Soil	P	Geological; Agriculture
4124	Agriculture Soil	P	Geological; Agriculture
4125	Agriculture Soil	P	Geological; Agriculture
4126	Agriculture Soil	P	Geological; Agriculture
4127	Agriculture Soil	P	Geological; Agriculture

Profile Number	Name	Profile Type	Keyword
4128	Agriculture Soil	P	Geological; Agriculture
4129	Agriculture Soil	P	Geological; Agriculture
4130	Agriculture Soil	P	Geological; Agriculture
4130110	Soil Dust - Des Moines, IA	P	SOIL DUST
413012.5	Soil Dust - Des Moines, IA	P	SOIL DUST
4130130	Soil Dust - Des Moines, IA	P	SOIL DUST
41301C	Soil Dust - Des Moines, IA	P	SOIL DUST
4130210	Soil Dust - Seattle, WA	P	SOIL DUST
413022.5	Soil Dust - Seattle, WA	P	SOIL DUST
4130230	Soil Dust - Seattle, WA	P	SOIL DUST
41302C	Soil Dust - Seattle, WA	P	SOIL DUST
4130310	Soil Dust - Visalia, CA	P	SOIL DUST
413032.5	Soil Dust - Visalia, CA	P	SOIL DUST
4130330	Soil Dust - Visalia, CA	P	SOIL DUST
41303C	Soil Dust - Visalia, CA	P	SOIL DUST
4130410	Soil Dust - South Bend, Indiana	P	SOIL DUST
413042.5	Soil Dust - South Bend, Indiana	P	SOIL DUST
4130430	Soil Dust - South Bend, Indiana	P	SOIL DUST
41304C	Soil Dust - South Bend, Indiana	P	SOIL DUST
4130510	Soil Dust - Houston, TX	P	SOIL DUST
413052.5	Soil Dust - Houston, TX	P	SOIL DUST
4130530	Soil Dust - Houston, TX	P	SOIL DUST
41305C	Soil Dust - Houston, TX	P	SOIL DUST
4130610	Soil Dust - East Helena, Montana	P	SOIL DUST
413062.5	Soil Dust - East Helena, Montana	P	SOIL DUST
4130630	Soil Dust - East Helena, Montana	P	SOIL DUST
41306C	Soil Dust - East Helena, Montana	P	SOIL DUST
4130710	Soil Dust - Idaho	P	SOIL DUST
413072.5	Soil Dust - Idaho	P	SOIL DUST

Profile Number	Name	Profile Type	Keyword
4130730	Soil Dust - Idaho	P	SOIL DUST
41307C	Soil Dust - Idaho	P	SOIL DUST
4130810	Soil Dust - Creston, Iowa	P	SOIL DUST
413082.5	Soil Dust - Creston, Iowa	P	SOIL DUST
4130830	Soil Dust - Creston, Iowa	P	SOIL DUST
41308C	Soil Dust - Creston, Iowa	P	SOIL DUST
4130910	Soil Dust - Council Bluffs, Iowa	P	SOIL DUST
413092.5	Soil Dust - Council Bluffs, Iowa	P	SOIL DUST
4130930	Soil Dust - Council Bluffs, Iowa	P	SOIL DUST
41309C	Soil Dust - Council Bluffs, Iowa	P	SOIL DUST
4131	Agriculture Soil	P	Geological; Agriculture
4131010	Soil Dust - Sioux City, Iowa	P	SOIL DUST
413102.5	Soil Dust - Sioux City, Iowa	P	SOIL DUST
4131030	Soil Dust - Sioux City, Iowa	P	SOIL DUST
41310C	Soil Dust - Sioux City, Iowa	P	SOIL DUST
4131110	Soil Dust - Cedar Rapids, Iowa	P	SOIL DUST
413112.5	Soil Dust - Cedar Rapids, Iowa	P	SOIL DUST
4131130	Soil Dust - Cedar Rapids, Iowa	P	SOIL DUST
41311C	Soil Dust - Cedar Rapids, Iowa	P	SOIL DUST
4131210	Soil Dust - Davenport, Iowa	P	SOIL DUST
413122.5	Soil Dust - Davenport, Iowa	P	SOIL DUST
4131230	Soil Dust - Davenport, Iowa	P	SOIL DUST
41312C	Soil Dust - Davenport, Iowa	P	SOIL DUST
4131310	Soil Dust - Spokane, WA	P	SOIL DUST
413132.5	Soil Dust - Spokane, WA	P	SOIL DUST
4131330	Soil Dust - Spokane, WA	P	SOIL DUST
41313C	Soil Dust - Spokane, WA	P	SOIL DUST
4131410	Soil Dust - Boise, Idaho	P	SOIL DUST
413142.5	Soil Dust - Boise, Idaho	P	SOIL DUST

Profile Number	Name	Profile Type	Keyword
4131430	Soil Dust - Boise, Idaho	P	SOIL DUST
41314C	Soil Dust - Boise, Idaho	P	SOIL DUST
4131510	Soil Dust - Bakersfield, CA	P	SOIL DUST
413152.5	Soil Dust - Bakersfield, CA	P	SOIL DUST
4131530	Soil Dust - Bakersfield, CA	P	SOIL DUST
41315C	Soil Dust - Bakersfield, CA	P	SOIL DUST
4131610	Soil Dust - Pasadena, CA	P	SOIL DUST
413162.5	Soil Dust - Pasadena, CA	P	SOIL DUST
4131630	Soil Dust - Pasadena, CA	P	SOIL DUST
41316C	Soil Dust - Pasadena, CA	P	SOIL DUST
4131810	Soil Dust - Medford, OR	P	SOIL DUST
413182.5	Soil Dust - Medford, OR	P	SOIL DUST
4131830	Soil Dust - Medford, OR	P	SOIL DUST
41318C	Soil Dust - Medford, OR	P	SOIL DUST
4131910	Soil Dust - Portland OR	P	SOIL DUST
413192.5	Soil Dust - Portland OR	P	SOIL DUST
4131930	Soil Dust - Portland OR	P	SOIL DUST
41319C	Soil Dust - Portland OR	P	SOIL DUST
4132	Dairy Soil	P	Geological; Dairy
4132010	Soil Dust - Alabama	P	SOIL DUST
413202.5	Soil Dust - Alabama	P	SOIL DUST
4132030	Soil Dust - Alabama	P	SOIL DUST
41320C	Soil Dust - Alabama	P	SOIL DUST
4132110	Soil Dust - Laurel Md	P	SOIL DUST
413212.5	Soil Dust - Laurel Md	P	SOIL DUST
4132130	Soil Dust - Laurel Md	P	SOIL DUST
41321C	Soil Dust - Laurel Md	P	SOIL DUST
4132210	Soil Dust - Washington, D.C. Area	P	SOIL DUST
413222.5	Soil Dust - Washington, D.C. Area	P	SOIL DUST

Profile Number	Name	Profile Type	Keyword
4132230	Soil Dust - Washington, D.C. Area	P	SOIL DUST
41322C	Soil Dust - Washington, D.C. Area	P	SOIL DUST
4132310	Soil Dust - Riverside, CA	P	SOIL DUST
413232.5	Soil Dust - Riverside, CA	P	SOIL DUST
4132330	Soil Dust - Riverside, CA	P	SOIL DUST
41323C	Soil Dust - Riverside, CA	P	SOIL DUST
4132410	Soil Dust - Hawthorne, CA	P	SOIL DUST
413242.5	Soil Dust - Hawthorne, CA	P	SOIL DUST
4132430	Soil Dust - Hawthorne, CA	P	SOIL DUST
41324C	Soil Dust - Hawthorne, CA	P	SOIL DUST
4132510	Soil Dust - Medford, Oregon	P	SOIL DUST
413252.5	Soil Dust - Medford, Oregon	P	SOIL DUST
4132530	Soil Dust - Medford, Oregon	P	SOIL DUST
41325C	Soil Dust - Medford, Oregon	P	SOIL DUST
4132610	Soil Dust - Bend, Oregon	P	SOIL DUST
413262.5	Soil Dust - Bend, Oregon	P	SOIL DUST
4132630	Soil Dust - Bend, Oregon	P	SOIL DUST
41326C	Soil Dust - Bend, Oregon	P	SOIL DUST
4132710	Soil Dust - Klamath Falls, Oregon	P	SOIL DUST
413272.5	Soil Dust - Klamath Falls, Oregon	P	SOIL DUST
4132730	Soil Dust - Klamath Falls, Oregon	P	SOIL DUST
41327C	Soil Dust - Klamath Falls, Oregon	P	SOIL DUST
4132810	Soil Dust - Grant's Pass, Oregon	P	SOIL DUST
413282.5	Soil Dust - Grant's Pass, Oregon	P	SOIL DUST
4132830	Soil Dust - Grant's Pass, Oregon	P	SOIL DUST
41328C	Soil Dust - Grant's Pass, Oregon	P	SOIL DUST
4132910	Soil Dust - Eugene, Oregon	P	SOIL DUST
413292.5	Soil Dust - Eugene, Oregon	P	SOIL DUST
4132930	Soil Dust - Eugene, Oregon	P	SOIL DUST

Profile Number	Name	Profile Type	Keyword
41329C	Soil Dust - Eugene, Oregon	P	SOIL DUST
4133	Dairy Soil	P	Geological; Dairy
4133010	Soil Dust - Lagrande, Oregon	P	SOIL DUST
413302.5	Soil Dust - Lagrande, Oregon	P	SOIL DUST
4133030	Soil Dust - Lagrande, Oregon	P	SOIL DUST
41330C	Soil Dust - Lagrande, Oregon	P	SOIL DUST
4133110	Soil Dust - Springfield, Oregon	P	SOIL DUST
413312.5	Soil Dust - Springfield, Oregon	P	SOIL DUST
4133130	Soil Dust - Springfield, Oregon	P	SOIL DUST
41331C	Soil Dust - Springfield, Oregon	P	SOIL DUST
4134	Feedlot Soil	P	Geological; Feedlot
4135	Feedlot Soil	P	Geological; Feedlot
4135010	Soil Dust - Composite	P	SOIL DUST
413502.5	Soil Dust - Composite	P	SOIL DUST
4135030	Soil Dust - Composite	P	SOIL DUST
41350C	Soil Dust - Composite	P	SOIL DUST
4135110	Soil Dust - Scab Composite	P	SOIL DUST
413512.5	Soil Dust - Scab Composite	P	SOIL DUST
4135130	Soil Dust - Scab Composite	P	SOIL DUST
41351C	Soil Dust - Scab Composite	P	SOIL DUST
4135210	Soil Dust - Pocatello, Idaho	P	SOIL DUST
413522.5	Soil Dust - Pocatello, Idaho	P	SOIL DUST
4135230	Soil Dust - Pocatello, Idaho	P	SOIL DUST
41352C	Soil Dust - Pocatello, Idaho	P	SOIL DUST
4135310	Soil Dust - Oregon Composite	P	SOIL DUST
413532.5	Soil Dust - Oregon Composite	P	SOIL DUST
4135330	Soil Dust - Oregon Composite	P	SOIL DUST
41353C	Soil Dust - Oregon Composite	P	SOIL DUST
4136	Salting Material	P	Geological; Salting

Profile Number	Name	Profile Type	Keyword
4137	Salting Material	P	Geological; Salting
4138	Agriculture Soil	P	Geological; Agriculture
4139	Agriculture Soil	P	Geological; Agriculture
4140	Agriculture Soil	P	Geological; Agriculture
4140110	Road Sand And Salt Mixture	P	ROADWAY; ROAD SAND; ROAD SALT; VEHICLES
414012.5	Road Sand And Salt Mixture	P	ROADWAY; ROAD SAND; ROAD SALT; VEHICLES
4140130	Road Sand And Salt Mixture	P	ROADWAY; ROAD SAND; ROAD SALT; VEHICLES
41401C	Road Sand And Salt Mixture	P	ROADWAY; ROAD SAND; ROAD SALT; VEHICLES
4141	Agriculture Soil	P	Geological; Agriculture
4142	Agriculture Soil	P	Geological; Agriculture
4143	Agriculture Soil	P	Geological; Agriculture
4144	Agriculture Soil	P	Geological; Agriculture
4145	Agriculture Soil	P	Geological; Agriculture
4146	Agriculture Soil	P	Geological; Agriculture
4147	Agriculture Soil	P	Geological; Agriculture
4148	Agriculture Soil	P	Geological; Agriculture
4149	Unpaved Road Dust	P	Geological; Unpaved Road
4150	Unpaved Road Dust	P	Geological; Unpaved Road
4150010	Vegetative Detritus	P	VEGITATIVE DETRITUS
415002.5	Vegetative Detritus	P	VEGITATIVE DETRITUS
4150030	Vegetative Detritus	P	VEGITATIVE DETRITUS
41500C	Vegetative Detritus	P	VEGITATIVE DETRITUS
4151	Unpaved Road Dust	P	Geological; Unpaved Road
4152	Unpaved Road Dust	P	Geological; Unpaved Road
4153	Unpaved Road Dust	P	Geological; Unpaved Road
4154	Unpaved Road Dust	P	Geological; Unpaved Road
4155	Paved Road Dust	P	Geological; Paved Road
4156	Paved Road Dust	P	Geological; Paved Road
4157	Paved Road Dust	P	Geological; Paved Road

Profile Number	Name	Profile Type	Keyword
4158	Construction Dust	P	Geological; Construction
4159	Construction Dust	P	Geological; Construction
4160	Staging Area Soil	P	Geological; Staging
4161	Agriculture Soil	P	Geological; Agriculture
4162	Agriculture Soil	P	Geological; Agriculture
4163	Agriculture Soil	P	Geological; Agriculture
4164	Agriculture Soil	P	Geological; Agriculture
4165	Agriculture Soil	P	Geological; Agriculture
4166	Agriculture Soil	P	Geological; Agriculture
4167	Agriculture Soil	P	Geological; Agriculture
4168	Paved Road Dust	P	Geological; Paved Road
4169	Unpaved Road Dust	P	Geological; Unpaved Road
4170	Unpaved Road Dust	P	Geological; Unpaved Road
4171	Agriculture Soil	P	Geological; Agriculture
4172	Agriculture Soil	P	Geological; Agriculture
4173	Agriculture Soil	P	Geological; Agriculture
4174	Agriculture Soil	P	Geological; Agriculture
4175	Agriculture Soil	P	Geological; Agriculture
4176	Dairy Soil	P	Geological; Dairy
4177	Feedlot Soil	P	Geological; Feedlot
4178	Paved Road Dust	P	Geological; Paved Road
4179	Unpaved Road Dust	P	Geological; Unpaved Road
4180	Agriculture Soil	P	Geological; Agriculture
4181	Dairy Soil	P	Geological; Dairy
4182	Salting Material	P	Geological; Salting
4183	Construction Dust	P	Geological; Construction
4202	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline
4203	Diesel Exhaust	P	Motor Vehicle; Diesel
4204	Paved Road Dust	P	Geological; Paved Road

Profile Number	Name	Profile Type	Keyword
4205	Paved Road Dust	P	Geological; Paved Road
4206	Paved Road Dust	P	Geological; Paved Road
4207	Paved Road Dust	P	Geological; Paved Road
4208	Paved Road Dust	P	Geological; Paved Road
4209	Paved Road Dust	P	Geological; Paved Road
4210	Paved Road Dust	P	Geological; Paved Road
4210110	Wood Stoves - Pine Fuel	P	PINE COMBUSTION; WOOD COMBUSTION; WOOD STOVE
421012.5	Wood Stoves - Pine Fuel	P	PINE COMBUSTION; WOOD COMBUSTION; WOOD STOVE
4210130	Wood Stoves - Pine Fuel	P	PINE COMBUSTION; WOOD COMBUSTION; WOOD STOVE
42101C	Wood Stoves - Pine Fuel	P	PINE COMBUSTION; WOOD COMBUSTION; WOOD STOVE
4210210	Wood Stoves - Average, All Fuels	P	WOOD STOVE; WOOD COMBUSTION
421022.5	Wood Stoves - Average, All Fuels	P	WOOD STOVE; WOOD COMBUSTION
4210230	Wood Stoves - Average, All Fuels	P	WOOD STOVE; WOOD COMBUSTION
42102C	Wood Stoves - Average, All Fuels	P	WOOD STOVE; WOOD COMBUSTION
4210310	Wood Stoves - Oak Fuel	P	OAK COMBUSTION; WOOD COMBUSTION; WOOD STOVE
421032.5	Wood Stoves - Oak Fuel	P	OAK COMBUSTION; WOOD COMBUSTION; WOOD STOVE
4210330	Wood Stoves - Oak Fuel	P	OAK COMBUSTION; WOOD COMBUSTION; WOOD STOVE
42103C	Wood Stoves - Oak Fuel	P	OAK COMBUSTION; WOOD COMBUSTION; WOOD STOVE
4210410	Residential Woodstove - Medford, Oregon	P	WOOD COMBUSTION; WOOD STOVE
421042.5	Residential Woodstove - Medford, Oregon	P	WOOD COMBUSTION; WOOD STOVE
4210430	Residential Woodstove - Medford, Oregon	P	WOOD COMBUSTION; WOOD STOVE
42104C	Residential Woodstove - Medford, Oregon	P	WOOD COMBUSTION; WOOD STOVE
4210510	Residential Woodstove - Pocatello, Idaho	P	WOOD COMBUSTION; WOOD STOVE
421052.5	Residential Woodstove - Pocatello, Idaho	P	WOOD COMBUSTION; WOOD STOVE
4210530	Residential Woodstove - Pocatello, Idaho	P	WOOD COMBUSTION; WOOD STOVE
42105C	Residential Woodstove - Pocatello, Idaho	P	WOOD COMBUSTION; WOOD STOVE
4210610	Residential Woodstove - Portland / Seattle	P	WOOD COMBUSTION; WOOD STOVE
421062.5	Residential Woodstove - Portland / Seattle	P	WOOD COMBUSTION; WOOD STOVE
4210630	Residential Woodstove - Portland / Seattle	P	WOOD COMBUSTION; WOOD STOVE

Profile Number	Name	Profile Type	Keyword
42106C	Residential Woodstove - Portland / Seattle	P	WOOD COMBUSTION; WOOD STOVE
4210710	Natural Gas Home Appliances	P	NATURAL GAS COMBUSTION; NATURAL GAS HOME APPLIANCE
421072.5	Natural Gas Home Appliances	P	NATURAL GAS COMBUSTION; NATURAL GAS HOME APPLIANCE
4210730	Natural Gas Home Appliances	P	NATURAL GAS COMBUSTION; NATURAL GAS HOME APPLIANCE
42107C	Natural Gas Home Appliances	P	NATURAL GAS COMBUSTION; NATURAL GAS HOME APPLIANCE
4211	Paved Road Dust	P	Geological; Paved Road
4212	Paved Road Dust	P	Geological; Paved Road
4213	Paved Road Dust	P	Geological; Paved Road
4214	Paved Road Dust	P	Geological; Paved Road
4215	Paved Road Dust	P	Geological; Paved Road
4216	Unpaved Road Dust	P	Geological; Unpaved Road
4217	Unpaved Road Dust	P	Geological; Unpaved Road
4218	Unpaved Road Dust	P	Geological; Unpaved Road
4219	Unpaved Road Dust	P	Geological; Unpaved Road
4220	Unpaved Road Dust	P	Geological; Unpaved Road
4220110	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
422012.5	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
4220130	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
42201C	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
4220210	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
422022.5	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
4220230	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
42202C	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
4220310	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
422032.5	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
4220330	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
42203C	Fireplaces - Softwoods	P	FIREPLACES; SOFTWOOD COMBUSTION; WOOD COMBUSTION
4220410	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
422042.5	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION

Profile Number	Name	Profile Type	Keyword
4220430	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
42204C	Fireplaces - Hardwoods	P	FIREPLACES; HARDWOOD COMBUSTION; WOOD COMBUSTION
4220510	Fireplaces - Synthetic Logs	P	FIREPLACES; SYNTHETIC LOGS COMBUSTION; WOOD COMBUSTION
422052.5	Fireplaces - Synthetic Logs	P	FIREPLACES; SYNTHETIC LOGS COMBUSTION; WOOD COMBUSTION
4220530	Fireplaces - Synthetic Logs	P	FIREPLACES; SYNTHETIC LOGS COMBUSTION; WOOD COMBUSTION
42205C	Fireplaces - Synthetic Logs	P	FIREPLACES; SYNTHETIC LOGS COMBUSTION; WOOD COMBUSTION
4221	Unpaved Road Dust	P	Geological; Unpaved Road
4222	Local Soil	P	Geological
4223	Local Soil	P	Geological
4224	Local Soil	P	Geological
4225	Local Soil	P	Geological
4226	Local Soil	P	Geological
4227	Local Soil	P	Geological
4228	Local Soil	P	Geological
4229	Local Soil	P	Geological
4230	Local Soil	P	Geological
4230110	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
423012.5	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
4230130	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
42301C	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
4230210	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
423022.5	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
4230230	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
42302C	Slash Burning	P	WOOD COMBUSTION; SLASH BURNING
4230310	Residential Wood Combustion - Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
423032.5	Residential Wood Combustion - Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4230330	Residential Wood Combustion - Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
42303C	Residential Wood Combustion - Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4230410	Agricultural Field Burning	P	FIELD BURNING

Profile Number	Name	Profile Type	Keyword
423042.5	Agricultural Field Burning	P	FIELD BURNING
4230430	Agricultural Field Burning	P	FIELD BURNING
42304C	Agricultural Field Burning	P	FIELD BURNING
4230510	Slash Burning (Conifer-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
423052.5	Slash Burning (Conifer-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230530	Slash Burning (Conifer-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
42305C	Slash Burning (Conifer-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230610	Slash Burning (Conifer-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
423062.5	Slash Burning (Conifer-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230630	Slash Burning (Conifer-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
42306C	Slash Burning (Conifer-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230710	Slash Burning (Hardwood-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
423072.5	Slash Burning (Hardwood-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230730	Slash Burning (Hardwood-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
42307C	Slash Burning (Hardwood-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230810	Slash Burning (Hardwood-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
423082.5	Slash Burning (Hardwood-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230830	Slash Burning (Hardwood-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
42308C	Slash Burning (Hardwood-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230910	Slash Burning (Ponderosa Pine-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
423092.5	Slash Burning (Ponderosa Pine-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4230930	Slash Burning (Ponderosa Pine-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
42309C	Slash Burning (Ponderosa Pine-Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231	Local Soil	P	Geological
4231010	Slash Burning (Ponderosa Pine-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
423102.5	Slash Burning (Ponderosa Pine-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231030	Slash Burning (Ponderosa Pine-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
42310C	Slash Burning (Ponderosa Pine-Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231110	Slash Burning (Tractor-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING

Profile Number	Name	Profile Type	Keyword
423112.5	Slash Burning (Tractor-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231130	Slash Burning (Tractor-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
42311C	Slash Burning (Tractor-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231210	Slash Burning (Tractor-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
423122.5	Slash Burning (Tractor-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231230	Slash Burning (Tractor-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
42312C	Slash Burning (Tractor-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231310	Slash Burning (Crane-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
423132.5	Slash Burning (Crane-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231330	Slash Burning (Crane-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
42313C	Slash Burning (Crane-Piled; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231410	Slash Burning (Crane-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
423142.5	Slash Burning (Crane-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231430	Slash Burning (Crane-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
42314C	Slash Burning (Crane-Piled; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231510	Slash Burning (Chaparral; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
423152.5	Slash Burning (Chaparral; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231530	Slash Burning (Chaparral; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
42315C	Slash Burning (Chaparral; Flaming Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231610	Slash Burning (Chaparral; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
423162.5	Slash Burning (Chaparral; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231630	Slash Burning (Chaparral; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
42316C	Slash Burning (Chaparral; Smoldering Phase)	P	WOOD COMBUSTION; SLASH BURNING
4231710	Wood Combustion - Las Vegas Valley (1987)	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
423172.5	Wood Combustion - Las Vegas Valley (1987)	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4231730	Wood Combustion - Las Vegas Valley (1987)	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
42317C	Wood Combustion - Las Vegas Valley (1987)	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4231810	Residential Wood Combustion	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
423182.5	Residential Wood Combustion	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES

Profile Number	Name	Profile Type	Keyword
4231830	Residential Wood Combustion	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
42318C	Residential Wood Combustion	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4231910	Residential Wood Combustion Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
423192.5	Residential Wood Combustion Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4231930	Residential Wood Combustion Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
42319C	Residential Wood Combustion Composite	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4232	Local Soil	P	Geological
4232010	Field Burning - Composite	P	FIELD BURNING
423202.5	Field Burning - Composite	P	FIELD BURNING
4232030	Field Burning - Composite	P	FIELD BURNING
42320C	Field Burning - Composite	P	FIELD BURNING
4232110	Forest Prescribed Burning - Broadcast Conifer	P	WOOD COMBUSTION; PRESCRIBED BURN
423212.5	Forest Prescribed Burning - Broadcast Conifer	P	WOOD COMBUSTION; PRESCRIBED BURN
4232130	Forest Prescribed Burning - Broadcast Conifer	P	WOOD COMBUSTION; PRESCRIBED BURN
42321C	Forest Prescribed Burning - Broadcast Conifer	P	WOOD COMBUSTION; PRESCRIBED BURN
4232210	Field Burning - Annual Rye Grass	P	FIELD BURNING
423222.5	Field Burning - Annual Rye Grass	P	FIELD BURNING
4232230	Field Burning - Annual Rye Grass	P	FIELD BURNING
42322C	Field Burning - Annual Rye Grass	P	FIELD BURNING
4232310	Field Burning - Perenial Rye Grass	P	FIELD BURNING
423232.5	Field Burning - Perenial Rye Grass	P	FIELD BURNING
4232330	Field Burning - Perenial Rye Grass	P	FIELD BURNING
42323C	Field Burning - Perenial Rye Grass	P	FIELD BURNING
4232410	Field Burning - Fescue	P	FIELD BURNING
423242.5	Field Burning - Fescue	P	FIELD BURNING
4232430	Field Burning - Fescue	P	FIELD BURNING
42324C	Field Burning - Fescue	P	FIELD BURNING
4233	Local Soil	P	Geological
4233010	Composite of Residential Wood Burning Sources	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES

Profile Number	Name	Profile Type	Keyword
423302.5	Composite of Residential Wood Burning Sources	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4233030	Composite of Residential Wood Burning Sources	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
42330C	Composite of Residential Wood Burning Sources	P	WOOD COMBUSTION; WOOD STOVE; FIREPLACES
4233110	Residential Woodstove Composite	P	WOOD COMBUSTION; WOOD STOVE
423312.5	Residential Woodstove Composite	P	WOOD COMBUSTION; WOOD STOVE
4233130	Residential Woodstove Composite	P	WOOD COMBUSTION; WOOD STOVE
42331C	Residential Woodstove Composite	P	WOOD COMBUSTION; WOOD STOVE
4234	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4235	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4236	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4237	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4238	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4239	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4240	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4241	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4242	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4243	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4244	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4245	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4246	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4247	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4248	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4249	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4250	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4251	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4252	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4253	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4254	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4255	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
4256	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4257	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4258	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4259	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4260	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4261	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4262	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4263	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4264	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4265	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4266	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4267	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4268	Vegetative Burning	P	Vegetative Burning; Open Fire
4269	Vegetative Burning	P	Vegetative Burning; Open Fire
4270	Vegetative Burning	P	Vegetative Burning; Open Fire
4271	Vegetative Burning	P	Vegetative Burning; Open Fire
4272	Vegetative Burning	P	Vegetative Burning; Open Fire
4273	Vegetative Burning	P	Vegetative Burning; Open Fire
4274	Vegetative Burning	P	Vegetative Burning; Open Fire
4275	Vegetative Burning	P	Vegetative Burning; Open Fire
4276	Vegetative Burning	P	Vegetative Burning; Open Fire
4277	Vegetative Burning	P	Vegetative Burning; Open Fire
4278	Vegetative Burning	P	Vegetative Burning; Open Fire
4279	Vegetative Burning	P	Vegetative Burning; Open Fire
4280	Vegetative Burning	P	Vegetative Burning; Open Fire
4281	Vegetative Burning	P	Vegetative Burning; Open Fire
4282	Vegetative Burning	P	Vegetative Burning; Open Fire
4283	Vegetative Burning	P	Vegetative Burning; Open Fire
4284	Vegetative Burning	P	Vegetative Burning; Open Fire

Profile Number	Name	Profile Type	Keyword
4285	Vegetative Burning	P	Vegetative Burning; Open Fire
4287	Vegetative Burning	P	Vegetative Burning; Open Fire
4288	Vegetative Burning	P	Vegetative Burning; Open Fire
4289	Coal Combustion	P	Coal Combustion; Utility
4290	Coal Combustion	P	Coal Combustion; Utility
4291	Coal Combustion	P	Coal Combustion; Utility
4292	Coal Combustion	P	Coal Combustion; Utility
4293	Coal Combustion	P	Coal Combustion; Utility
4294	Coal Combustion	P	Coal Combustion; Utility
4295	Coal Combustion	P	Coal Combustion; Utility
4296	Coal Combustion	P	Coal Combustion; Utility
4297	Coal Combustion	P	Coal Combustion; Utility
4298	Coal Combustion	P	Coal Combustion; Utility
4299	Coal Combustion	P	Coal Combustion; Utility
4300	Coal Combustion	P	Coal Combustion; Utility
4301	Coal Combustion	P	Coal Combustion; Utility
4302	Coal Combustion	P	Coal Combustion; Utility
4303	Coal Combustion	P	Coal Combustion; Utility
4304	Coal Combustion	P	Coal Combustion; Utility
4305	Coal Combustion	P	Coal Combustion; Utility
4306	Coal Combustion	P	Coal Combustion; Utility
4307	Coal Combustion	P	Coal Combustion; Utility
4308	Coal Combustion	P	Coal Combustion; Utility
4309	Coal Combustion	P	Coal Combustion; Utility
4310	Coal Combustion	P	Coal Combustion; Utility
4310110	Marine Aerosol	P	MARINE AEROSOL
431012.5	Marine Aerosol	P	MARINE AEROSOL
4310130	Marine Aerosol	P	MARINE AEROSOL
43101C	Marine Aerosol	P	MARINE AEROSOL

Profile Number	Name	Profile Type	Keyword
4311	Coal Combustion	P	Coal Combustion; Utility
4312	Coal Combustion	P	Coal Combustion; Utility
4313	Coal Combustion	P	Coal Combustion; Utility
4314	Coal Combustion	P	Coal Combustion; Utility
4315	Fly Ash	P	Fly Ash; Utility
4316	Fly Ash	P	Fly Ash; Utility
4317	Fly Ash	P	Fly Ash; Utility
4318	Oil Catalytic Cracker	P	Catalytic Cracker; Oil
4319	Oil Catalytic Cracker	P	Catalytic Cracker; Oil
4320	Oil Catalytic Cracker	P	Catalytic Cracker; Oil
4320110	Residential Space Heating - Coal	P	COAL COMBUSTION; SPACE HEATING
432012.5	Residential Space Heating - Coal	P	COAL COMBUSTION; SPACE HEATING
4320130	Residential Space Heating - Coal	P	COAL COMBUSTION; SPACE HEATING
43201C	Residential Space Heating - Coal	P	COAL COMBUSTION; SPACE HEATING
4321	Oil Catalytic Cracker	P	Catalytic Cracker; Oil
4322	Oil Catalytic Cracker	P	Catalytic Cracker; Oil
4323	Cement Kiln	P	Cement Kiln
4324	Cement Kiln	P	Cement Kiln
4325	Cement Kiln	P	Cement Kiln
4326	Cement Kiln	P	Cement Kiln
4327	Cement Kiln	P	Cement Kiln
4328	Cement Kiln	P	Cement Kiln
4329	Cement Kiln	P	Cement Kiln
4330	Cement Kiln	P	Cement Kiln
4330110	Volcanic Ash	P	VOLCANIC ASH
433012.5	Volcanic Ash	P	VOLCANIC ASH
4330130	Volcanic Ash	P	VOLCANIC ASH
43301C	Volcanic Ash	P	VOLCANIC ASH
4330210	Orchard Heating - Smudge Pots	P	ORCHARD HEATING; SMUDGE POTS

Profile Number	Name	Profile Type	Keyword
433022.5	Orchard Heating - Smudge Pots	P	ORCHARD HEATING; SMUDGE POTS
4330230	Orchard Heating - Smudge Pots	P	ORCHARD HEATING; SMUDGE POTS
43302C	Orchard Heating - Smudge Pots	P	ORCHARD HEATING; SMUDGE POTS
4330310	Coal-Fired Power Utility Fly Ash (Srm 1633)	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; FLY ASH
433032.5	Coal-Fired Power Utility Fly Ash (Srm 1633)	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; FLY ASH
4330330	Coal-Fired Power Utility Fly Ash (Srm 1633)	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; FLY ASH
43303C	Coal-Fired Power Utility Fly Ash (Srm 1633)	P	COAL COMBUSTION; UTILITY; POWER PLANT; ELECTRIC GENERATION; FLY ASH
4330410	Limestone, Crustal	P	CRUSTAL; LIMESTONE; CRUSTAL
433042.5	Limestone, Crustal	P	CRUSTAL; LIMESTONE; CRUSTAL
4330430	Limestone, Crustal	P	CRUSTAL; LIMESTONE; CRUSTAL
43304C	Limestone, Crustal	P	CRUSTAL; LIMESTONE; CRUSTAL
4330510	Shale, Crustal	P	CRUSTAL; SHALE; CRUSTAL
433052.5	Shale, Crustal	P	CRUSTAL; SHALE; CRUSTAL
4330530	Shale, Crustal	P	CRUSTAL; SHALE; CRUSTAL
43305C	Shale, Crustal	P	CRUSTAL; SHALE; CRUSTAL
4330610	Sandstone, Crustal	P	CRUSTAL; SANDSTONE; CRUSTAL
433062.5	Sandstone, Crustal	P	CRUSTAL; SANDSTONE; CRUSTAL
4330630	Sandstone, Crustal	P	CRUSTAL; SANDSTONE; CRUSTAL
43306C	Sandstone, Crustal	P	CRUSTAL; SANDSTONE; CRUSTAL
4330710	Sediment, Crustal	P	CRUSTAL; SEDIMENT; CRUSTAL
433072.5	Sediment, Crustal	P	CRUSTAL; SEDIMENT; CRUSTAL
4330730	Sediment, Crustal	P	CRUSTAL; SEDIMENT; CRUSTAL
43307C	Sediment, Crustal	P	CRUSTAL; SEDIMENT; CRUSTAL
4330810	Igneous Rock	P	IGNEOUS ROCK
433082.5	Igneous Rock	P	IGNEOUS ROCK
4330830	Igneous Rock	P	IGNEOUS ROCK

Profile Number	Name	Profile Type	Keyword
43308C	Igneous Rock	P	IGNEOUS ROCK
4330910	Earth's Crust	P	CRUSTAL
433092.5	Earth's Crust	P	CRUSTAL
4330930	Earth's Crust	P	CRUSTAL
43309C	Earth's Crust	P	CRUSTAL
4331	Cement Kiln	P	Cement Kiln
4332	Cement Kiln	P	Cement Kiln
4333	Cement Kiln	P	Cement Kiln
4334	Cooking	P	Cooking; Chicken
4335	Cooking	P	Cooking; Chicken
4336	Cooking	P	Cooking; Chicken
4337	Cooking	P	Cooking; Chicken
4338	Cooking	P	Cooking; Chicken
4339	Cooking	P	Cooking; Chicken
4340	Cooking	P	Cooking; Chicken
4341	Cooking	P	Cooking; Chicken
4342	Cooking	P	Cooking; Chicken
4343	Cooking	P	Cooking; Hamburger
4344	Cooking	P	Cooking; Hamburger
4345	Cooking	P	Cooking; Steak
4346	Paved Road Dust	P	Geological; Paved Road
4347	Paved Road Dust	P	Geological; Paved Road
4348	Unpaved Road Dust	P	Geological; Unpaved Road
4349	Unpaved Road Dust	P	Geological; Unpaved Road
4350	Local Soil	P	Geological
4351	Local Soil	P	Geological
4352	Local Soil	P	Geological
4353	Local Soil	P	Geological
4354	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel

Profile Number	Name	Profile Type	Keyword
4355	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4356	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4357	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4358	Motor Vehicle Exhaust	P	Motor Vehicle; Gasoline and Diesel
4359	Vegetative Burning	P	Vegetative Burning; Open Fire
4360	Vegetative Burning	P	Vegetative Burning; Open Fire
4361	Vegetative Burning	P	Vegetative Burning; Open Fire
4362	Vegetative Burning	P	Vegetative Burning; Open Fire
4363	Vegetative Burning	P	Vegetative Burning; Open Fire
4364	Vegetative Burning	P	Vegetative Burning; Open Fire
4365	Vegetative Burning	P	Vegetative Burning; Open Fire
4366	Vegetative Burning	P	Vegetative Burning; Open Fire
4367	Coal Combustion	P	Coal Combustion; Utility
4368	Coal Combustion	P	Coal Combustion; Utility
4369	Coal Combustion	P	Coal Combustion; Utility
4370	Coal Combustion	P	Coal Combustion; Utility
4371	Coal Combustion	P	Coal Combustion; Utility
4373	Coal Combustion	P	Coal Combustion; Utility
4374	Fly Ash	P	Fly Ash; Utility
4375	Oil Catalytic Cracker	P	Catalytic Cracker; Oil
4376	Cement Kiln	P	Cement Kiln
4377	Cement Kiln	P	Cement Kiln
4378	Cement Kiln	P	Cement Kiln
4379	Cooking	P	Cooking; Chicken
4380	Cooking	P	Cooking; Chicken
4381	Cooking	P	Cooking; Chicken
4382	Cooking	P	Cooking; Hamburger
4383	Cooking	P	Cooking; Hamburger
4384	Residential Wood Burning	P	Vegetative Burning; Fireplace

Profile Number	Name	Profile Type	Keyword
4385	Residential Wood Burning	P	Vegetative Burning; Fireplace
4386	Residential Wood Burning	P	Vegetative Burning; Fireplace
4387	Residential Wood Burning	P	Vegetative Burning; Fireplace
4388	Residential Wood Burning	P	Vegetative Burning; Fireplace
4389	Residential Wood Burning	P	Vegetative Burning; Fireplace
4390	Residential Vegetative Burning	P	Vegetative Burning; Fireplace
4391	Residential Vegetative Burning	P	Vegetative Burning; Fireplace
4392	Residential Vegetative Burning	P	Vegetative Burning; Fireplace
4393	Residential Wood Burning	P	Vegetative Burning; Fireplace
4394	Oil Refinery	P	Oil Refinery; Natural Gas
4395	Oil Refinery	P	Oil Refinery; Natural Gas
4396	Oil Refinery	P	Oil Refinery; Natural Gas
4397	Oil Refinery	P	Oil Refinery; Natural Gas
4398	Oil Refinery	P	Oil Refinery; Natural Gas
4399	Oil Refinery	P	Oil Refinery
4400	Oil Refinery	P	Oil Refinery
4401	Oil Refinery	P	Oil Refinery
4402	Oil Refinery	P	Oil Refinery
4403	Oil Refinery	P	Oil Refinery
4404	Oil Refinery	P	Oil Refinery
4405	Oil Refinery	P	Oil Refinery
4406	Oil Refinery	P	Oil Refinery
4407	Oil Refinery	P	Oil Refinery
4408	Oil Refinery	P	Oil Refinery
4409	Oil Refinery	P	Oil Refinery
4410	Oil Refinery	P	Oil Refinery
4410110	Excavation - El Segundo, CA	P	EXCAVATION; SOIL DUST
441012.5	Excavation - El Segundo, CA	P	EXCAVATION; SOIL DUST
4410130	Excavation - El Segundo, CA	P	EXCAVATION; SOIL DUST

Profile Number	Name	Profile Type	Keyword
44101C	Excavation - El Segundo, CA	P	EXCAVATION; SOIL DUST
4410210	Excavation - Haul Road	P	EXCAVATION; SOIL DUST
441022.5	Excavation - Haul Road	P	EXCAVATION; SOIL DUST
4410230	Excavation - Haul Road	P	EXCAVATION; SOIL DUST
44102C	Excavation - Haul Road	P	EXCAVATION; SOIL DUST
4410310	Excavation - Rock Crushing	P	ROCK CRUSHING; SOIL DUST; EXCAVATION
441032.5	Excavation - Rock Crushing	P	ROCK CRUSHING; SOIL DUST; EXCAVATION
4410330	Excavation - Rock Crushing	P	ROCK CRUSHING; SOIL DUST; EXCAVATION
44103C	Excavation - Rock Crushing	P	ROCK CRUSHING; SOIL DUST; EXCAVATION
4410410	Soil Dust - Sandblasting & Plastering	P	PLASTERING; SANDBLASTING; SOIL DUST
441042.5	Soil Dust - Sandblasting & Plastering	P	PLASTERING; SANDBLASTING; SOIL DUST
4410430	Soil Dust - Sandblasting & Plastering	P	PLASTERING; SANDBLASTING; SOIL DUST
44104C	Soil Dust - Sandblasting & Plastering	P	PLASTERING; SANDBLASTING; SOIL DUST
4411	Oil Refinery	P	Oil Refinery
4412	Oil Refinery	P	Oil Refinery; Natural Gas
4413	Oil Refinery	P	Oil Refinery; Natural Gas
4414	Oil Refinery	P	Oil Refinery; Natural Gas
4415	Oil Refinery	P	Oil Refinery; Natural Gas
4463	Forest Fire	P	Biomass open burning; Foliar fuels; Wild fires; Prescribed forest fires
4464	Forest Fire	P	Biomass open burning; Foliar fuels; Wild fires; Prescribed forest fires
4465	Forest Fire	P	Biomass open burning; Foliar fuels; Wild fires; Prescribed forest fires
4466	Forest Fire	P	Biomass open burning; Foliar fuels; Wild fires; Prescribed forest fires
4467	Forest Fire	P	Biomass open burning; Foliar fuels; Wild fires; Prescribed forest fires
4468	Forest Fire	P	Biomass open burning; Foliar fuels; Wild fires; Prescribed forest fires
4554	Meat charbroiling emissions	P	Meat charbroiling; natural gas-fired charbroiling; hamburger charbroiling
4558	Vehicle exhaust - gasoline - Catalyst	P	gasoline vehicle exhaust
4559	Vehicle exhaust - gasoline - Noncatalyst	P	gasoline vehicle exhaust
4643	Residential Wood Combustion	P	Vegetative Burning; Fireplace; Wood Smoke
4644	Residential Wood Combustion	P	Vegetative Burning; Fireplace; Wood Smoke

Profile Number	Name	Profile Type	Keyword
4645	Residential Wood Combustion	P	Vegetative Burning; Fireplace; Wood Smoke
4653	Cooking vegetables - Stir frying in soybean oil	P	Cooking vegetables; Stir frying
4654	Cooking vegetables - Stir frying in canola oil	P	Cooking vegetables; Stir frying
4655	Cooking potatoes - Deep frying in hydrogenated oil	P	Cooking potatoes; Deep frying
4656	Paved road dust fine particulate matters - Long Beach	P	road dust fine particles
4657	Paved road dust fine particulate matters - Central Los Angel	P	road dust fine particles
4658	Paved road dust fine particulate matters - Roubidoux	P	road dust fine particles
4660	Cigarette Smoke	P	cigarette smoke
4663	Industrial surface coating operations - water based	P	Industrial Spray Painting Operations; Surface coating water-based
4664	Industrial surface coating operations - oil based	P	Industrial Spray Painting Operations; Surface coating oil-based
4675	Medium duty trucks - diesel	P	diesel truck exhaust; motor vehicles
4704	Wood-fired Industrial Boiler - NWWAS	P	Wood-Fired Industrial Boiler
4705	Wood-fired Industrial Boiler - sampled without denuder	P	Wood-Fired Industrial Boiler
4706	Food & Ag - Drying (Rice Dryer)	P	Food & Ag - Drying; Rice Dryer
4707	Steel Abrasive Blasting	P	Steel cleaning; Abrasive Blasting
4708	Fiberglass Manufacture	P	Fiberglass Wool Manufacturing
4709	Wood Operation - Resawing	P	Wood Operation; Resawing
4718	Iron and Steel Manufacturing	P	Iron and Steel Manufacturing
4719	Iron and Steel Manufacturing	P	Iron and Steel Manufacturing
4720	Iron and Steel Manufacturing	P	Iron and Steel Manufacturing
4721	Iron and Steel Manufacturing	P	Iron and Steel Manufacturing
4722	Iron and Steel Manufacturing	P	Iron and Steel Manufacturing
4733	External Combustion - Pulp and Paper Mills Kraft Precess Recovery Boiler	P	External Combustion; Pulp and Paper Mills; Kraft Precess Recovery Boiler
4734	External Combustion - Pulp and Paper Mills Kraft Process Recovery Boiler	P	External Combustion; Pulp and Paper Mills; Kraft Process Recovery Boiler
4735	External Combustion - Pulp and Paper Mills Kraft Process Recovery Boiler	P	External Combustion; Pulp and Paper Mills; Kraft Process Recovery Boiler
4736	Distillate Oil Combustion	P	Distillate Oil Combustion
4737	Residual Oil Combustion	P	Residual Oil Combustion
4746	Diesel Exhaust - Bus at -10 oC, 4-stroke, oxidation catalyst	P	Diesel Exhaust; Diesel Bus; 4-stroke; Oxidation catalyst
4747	Diesel Exhaust - Bus at 20 oC, 4-stroke, oxidation catalyst	P	Diesel Exhaust; Diesel Bus; 4-stroke; Oxidation catalyst

Profile Number	Name	Profile Type	Keyword
4748	Diesel Exhaust - Bus at -10 oC, 2-stroke	P	Diesel Exhaust; Diesel Bus; 2-stroke
4749	Diesel Exhaust - Bus at 20 oC, 2-stroke	P	Diesel Exhaust; Diesel Bus; 2-stroke
4750	Diesel Exhaust - Bus at -10 oC, 2-stroke, oxidation catalyst	P	Diesel Exhaust; Diesel Bus; 2-stroke; Oxidation catalyst
4751	Diesel Exhaust - Bus at 20 oC, 2-stroke, oxidation catalyst	P	Diesel Exhaust; Diesel Bus; 2-stroke; Oxidation catalyst
4840	Agricultural Burning - Rice Straw	P	Agricultural Burning; Rice Straw
4841	Agricultural Burning - Wheat Straw	P	Agricultural Burning; Wheat Straw
4842	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4843	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4844	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4845	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4846	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4847	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4848	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4849	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4850	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4851	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4852	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4853	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4854	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4855	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4856	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4857	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4858	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4859	Diesel Exhaust - Transit Bus	P	Diesel Exhaust; Transit Bus; Diesel PM; Heavy Duty Vehicle
4860	Diesel Exhaust - Transit Bus	P	Diesel Exhaust; Transit Bus; Diesel PM; Heavy Duty Vehicle
4861	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4862	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4863	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4864	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle

Profile Number	Name	Profile Type	Keyword
4865	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4866	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4867	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4868	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4869	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4870	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4871	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4872	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4873	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4874	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4875	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4876	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4877	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4878	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4879	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4880	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4881	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4882	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4883	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4884	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4885	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4886	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4887	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4888	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4889	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4890	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4891	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4892	Diesel Exhaust - Transit Bus	P	Diesel Exhaust; Transit Bus; Diesel PM; Heavy Duty Vehicle
4893	Diesel Exhaust - Transit Bus	P	Diesel Exhaust; Transit Bus; Diesel PM; Heavy Duty Vehicle

Profile Number	Name	Profile Type	Keyword
4894	Diesel Exhaust	P	Diesel Exhaust; Diesel PM; Heavy Duty Vehicle
4895	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4896	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4897	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4898	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4899	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4900	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4901	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4902	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4903	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4904	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4905	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4906	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4907	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4908	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4909	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4910	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4911	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4912	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4913	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4914	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4915	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4916	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4917	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4918	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4919	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4920	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4921	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4922	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM

Profile Number	Name	Profile Type	Keyword
4923	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4924	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4925	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4926	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4927	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4928	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4929	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4930	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4931	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4932	Light Duty Vehicle Exhaust - Gasoline	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
4933	Light Duty Vehicle Exhaust - Gasoline; intermittent smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Intermittent Smoker
4934	Light Duty Vehicle Exhaust - Gasoline; light smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Light Smoker
4935	Light Duty Vehicle Exhaust - Gasoline; intermittent smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Intermittent Smoker
4936	Light Duty Vehicle Exhaust - Gasoline; light smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Light Smoker
4937	Light Duty Vehicle Exhaust - Gasoline; heavy smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Heavy Smoker
4938	Light Duty Vehicle Exhaust - Gasoline; intermittent smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Intermittent Smoker
4939	Light Duty Vehicle Exhaust - Gasoline; light smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Light Smoker
4940	Light Duty Vehicle Exhaust - Gasoline; intermittent smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Intermittent Smoker
4941	Light Duty Vehicle Exhaust - Gasoline; light smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Light Smoker
4942	Light Duty Vehicle Exhaust - Gasoline; heavy smoker	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM; Heavy Smoker
4943	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4944	Diesel Exhaust - Heavy-heavy duty truck - CARB CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CREEP
4945	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
4946	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4947	Diesel Exhaust - Heavy-heavy duty truck - CARB LONG IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB LONG IDLE
4948	Diesel Exhaust - Heavy-heavy duty truck - CARB LONG CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB LONG CREEP
4949	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4950	Diesel Exhaust - Heavy-heavy duty truck - CARB CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CREEP
4951	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT

Profile Number	Name	Profile Type	Keyword
4952	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4953	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	P	Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
4954	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	P	Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
4955	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	P	Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
4956	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	P	Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
4957	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
4958	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4959	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED IDLE
4960	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED CREEP
4961	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
4962	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4963	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED IDLE
4964	Diesel Exhaust - Heavy-heavy duty truck - CARB CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CREEP
4965	Diesel Exhaust - Heavy-heavy duty truck - CARB UDDS	P	Diesel Exhaust; Heavy-heavy duty truck; CARB UDDS
4966	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
4967	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4968	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED CREEP
4969	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
4970	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4971	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED CREEP	P	Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED CREEP
4972	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4973	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4974	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4975	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4976	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4977	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE

Profile Number	Name	Profile Type	Keyword
4978	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4979	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4980	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4981	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
4982	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4983	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4984	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4985	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4986	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4987	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4988	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4989	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4990	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4991	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4992	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4993	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	P	Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
4994	Diesel Exhaust - Medium-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Medium-heavy duty truck; CARB TRANSIENT
4995	Diesel Exhaust - Medium-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Medium-heavy duty truck; CARB TRANSIENT
4996	Diesel Exhaust - Medium-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Medium-heavy duty truck; CARB CRUISE
4997	Diesel Exhaust - Medium-heavy duty truck - CARB CRUISE	P	Diesel Exhaust; Medium-heavy duty truck; CARB CRUISE
4998	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
4999	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5000	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5001	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5002	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5003	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5004	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5005	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5006	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT

Profile Number	Name	Profile Type	Keyword
5007	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	P	Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
5008	Brake Wear - semimetallic (steel fiber)	P	Brake Wear; Motor Vehicle
5009	Brake Wear - potassium titanate, aramid, and copper fiber	P	Brake Wear; Motor Vehicle
5010	Brake Wear - aramid, mineral, and copper fiber	P	Brake Wear; Motor Vehicle
5011	Brake Wear - semimetallic, (steel fiber)	P	Brake Wear; Motor Vehicle
5012	Brake Wear - semimetallic, (steel fiber)	P	Brake Wear; Motor Vehicle
5013	Brake Wear - potassium titanate, aramid, and copper fiber	P	Brake Wear; Motor Vehicle
5014	Brake Wear - non-asbestos organic	P	Brake Wear; Motor Vehicle
5015	Brake Wear - semimetallic	P	Brake Wear; Motor Vehicle
5016	Brake Wear - low metallic	P	Brake Wear; Motor Vehicle
5017	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5018	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5019	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5020	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5021	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5022	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5023	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5024	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5025	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5026	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5027	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5028	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5029	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5030	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5031	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5032	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5033	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5034	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln
5035	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln

Profile Number	Name	Profile Type	Keyword
5036	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln
5037	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln
5038	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln
5039	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5040	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5041	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5042	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5043	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5045	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5046	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln
5047	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5048	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5049	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5050	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5051	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5052	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5053	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5055	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5056	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5057	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5058	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5059	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5060	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5061	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5062	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5063	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5064	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5065	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5066	Hazardous Waste Incineration - Light Weight Aggregate Kiln	P	Hazardous Waste Incineration; Light Weight Aggregate Kiln

Profile Number	Name	Profile Type	Keyword
5067	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5068	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5069	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5070	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5071	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5072	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5073	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5074	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5075	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5077	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5078	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5079	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5081	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5082	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5083	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5084	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5085	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5086	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5087	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5088	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5089	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5090	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5091	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5092	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5093	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5094	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5095	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5096	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5097	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler

Profile Number	Name	Profile Type	Keyword
5098	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5099	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5100	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5101	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5102	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5103	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5104	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5105	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5106	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5107	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5108	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5109	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5110	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5111	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5112	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5113	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5114	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5115	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5116	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5117	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5118	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5119	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5120	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5121	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5122	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5123	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5124	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5125	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5126	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler

Profile Number	Name	Profile Type	Keyword
5127	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5128	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5129	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5130	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5131	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5132	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5133	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5135	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5136	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5137	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5138	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5139	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5140	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5141	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5142	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5143	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5144	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5145	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5146	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5147	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5148	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5149	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5150	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5151	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5152	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5153	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5154	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5155	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5156	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace

Profile Number	Name	Profile Type	Keyword
5157	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5159	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5160	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5161	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5162	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5163	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5164	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5165	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5166	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5167	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5168	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5169	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5170	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5171	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5172	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5173	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5174	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5175	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5176	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5177	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5178	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5180	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5181	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5182	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5183	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5184	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5185	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5186	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5187	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler

Profile Number	Name	Profile Type	Keyword
5188	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5189	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5190	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5191	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5192	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5193	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5194	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5195	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5196	Hazardous Waste Incineration - HCl Production Furnace	P	Hazardous Waste Incineration; HCl Production Furnace
5197	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5198	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5199	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5200	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5201	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5202	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5203	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5204	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5206	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5207	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5208	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5209	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5210	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5211	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5212	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5213	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5214	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5215	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5216	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5217	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator

Profile Number	Name	Profile Type	Keyword
5218	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5219	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5220	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5221	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5222	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5223	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5224	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5225	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5226	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5227	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5228	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5229	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5230	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5231	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5232	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5233	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5234	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5235	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5236	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5237	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5238	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5239	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5240	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5241	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5242	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5243	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln
5244	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5245	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5246	Hazardous Waste Incineration - Cement Kiln	P	Hazardous Waste Incineration; Cement Kiln

Profile Number	Name	Profile Type	Keyword
5247	Hazardous Waste Incineration - Incinerator	P	Hazardous Waste Incineration; Incinerator
5248	Hazardous Waste Incineration - Solid Fuel Boiler	P	Hazardous Waste Incineration; Solid Fuel Boiler
5249	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5250	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5251	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5252	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5253	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5254	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5255	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5256	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5257	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5258	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5259	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5260	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5261	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5262	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5263	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5264	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5265	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5266	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5267	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5268	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5269	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5270	Hazardous Waste Incineration - Liquid Fuel Boiler	P	Hazardous Waste Incineration; Liquid Fuel Boiler
5292	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel

Profile Number	Name	Profile Type	Keyword
5293	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
5294	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel - Diesel PM Filter	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel; Diesel PM Filter
5298	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel
5299	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel
5300	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel
5301	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
5302	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
5303	Diesel Exhaust - Light-heavy-duty Diesel Van - 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Van; 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel
5304	Diesel Exhaust - Light-heavy-duty Diesel Van - 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Van; 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel
5305	Diesel Exhaust - Light-heavy-duty Diesel Van - 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Van; 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel
5306	Diesel Exhaust - Light-heavy-duty Diesel Van - Low Sulfur Diesel (EC-D)	P	Diesel Exhaust; Light-heavy-duty Diesel Van; Low Sulfur Diesel (EC-D)
5307	Diesel Exhaust - Light-heavy-duty Diesel Van - California Reformulated Diesel 2	P	Diesel Exhaust; Light-heavy-duty Diesel Van; California Reformulated Diesel 2
5308	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel
5309	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel
5310	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel
5311	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
5312	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
5313	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel
5314	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel
5315	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel
5316	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)

Profile Number	Name	Profile Type	Keyword
5317	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
5318	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2/ 20% WorldEnergy Biodiesel
5319	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% SoyGold Biodiesel
5320	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; 80% California Reformulated Diesel 2 / 20% OxyG Biodiesel
5321	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
5322	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	P	Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
5323	Aircraft Exhaust	P	Aircraft Exhaust
5324	Aircraft Exhaust	P	Aircraft Exhaust
5325	Aircraft Exhaust	P	Aircraft Exhaust
5326	Aircraft Exhaust	P	Aircraft Exhaust
5327	Aircraft Exhaust	P	Aircraft Exhaust
5566	Light Duty Vehicle Exhaust - Gasoline - Test ID: S1-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5567	Light Duty Vehicle Exhaust - Gasoline - Test ID: S1-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5568	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5569	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5570	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5571	Light Duty Vehicle Exhaust - Gasoline - Test ID: S2-4	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5572	Light Duty Vehicle Exhaust - Gasoline - Test ID: S3-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5573	Light Duty Vehicle Exhaust - Gasoline - Test ID: S3-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5574	Light Duty Vehicle Exhaust - Gasoline - Test ID: S4-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5575	Light Duty Vehicle Exhaust - Gasoline - Test ID: S4-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5576	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5577	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5578	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5579	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-4	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5580	Light Duty Vehicle Exhaust - Gasoline - Test ID: S5-5	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5581	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5582	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM

Profile Number	Name	Profile Type	Keyword
5583	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5584	Light Duty Vehicle Exhaust - Gasoline - Test ID: S6-4	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5585	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5586	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5587	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5588	Light Duty Vehicle Exhaust - Gasoline - Test ID: S7-4	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5589	Light Duty Vehicle Exhaust - Gasoline - Test ID: S8-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5590	Light Duty Vehicle Exhaust - Gasoline - Test ID: S8-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5591	Light Duty Vehicle Exhaust - Gasoline - Test ID: S8-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5592	Light Duty Vehicle Exhaust - Gasoline - Test ID: W1-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5593	Light Duty Vehicle Exhaust - Gasoline - Test ID: W1-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5594	Light Duty Vehicle Exhaust - Gasoline - Test ID: W1-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5595	Light Duty Vehicle Exhaust - Gasoline - Test ID: W2-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5596	Light Duty Vehicle Exhaust - Gasoline - Test ID: W2-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5597	Light Duty Vehicle Exhaust - Gasoline - Test ID: W2-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5598	Light Duty Vehicle Exhaust - Gasoline - Test ID: W3-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5599	Light Duty Vehicle Exhaust - Gasoline - Test ID: W3-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5600	Light Duty Vehicle Exhaust - Gasoline - Test ID: W3-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5601	Light Duty Vehicle Exhaust - Gasoline - Test ID: W4-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5602	Light Duty Vehicle Exhaust - Gasoline - Test ID: W4-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5603	Light Duty Vehicle Exhaust - Gasoline - Test ID: W4-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5604	Light Duty Vehicle Exhaust - Gasoline - Test ID: W5-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5605	Light Duty Vehicle Exhaust - Gasoline - Test ID: W5-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5606	Light Duty Vehicle Exhaust - Gasoline - Test ID: W5-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5607	Light Duty Vehicle Exhaust - Gasoline - Test ID: W6-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5608	Light Duty Vehicle Exhaust - Gasoline - Test ID: W6-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5609	Light Duty Vehicle Exhaust - Gasoline - Test ID: W6-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5610	Light Duty Vehicle Exhaust - Gasoline - Test ID: W6-4	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5611	Light Duty Vehicle Exhaust - Gasoline - Test ID: W7-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM

Profile Number	Name	Profile Type	Keyword
5612	Light Duty Vehicle Exhaust - Gasoline - Test ID: W7-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5613	Light Duty Vehicle Exhaust - Gasoline - Test ID: W7-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5614	Light Duty Vehicle Exhaust - Gasoline - Test ID: W7-4	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5615	Light Duty Vehicle Exhaust - Gasoline - Test ID: W8-1	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5616	Light Duty Vehicle Exhaust - Gasoline - Test ID: W8-2	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5617	Light Duty Vehicle Exhaust - Gasoline - Test ID: W8-3	P	Gasoline Vehicle Exhaust; Gasoline Vehicle PM
5644	Residential Oil Boilers	P	Residential Oil Boilers, Combustion
5646	Residual Oil-Fired Power Plant	P	Residual Oil Boiler Combustion; Power Plant
5648	Kraft Process Recovery Boiler	P	Recovery Boiler; Pulp and paper facility
5669	Gas-Fired Boilers	P	Gas-Fired Boilers; Natural gas; Refinery process gas
5670	Gas-Fired Process Heaters	P	Gas-Fired Process Heaters; Natural gas; Refinery process gas
5671	Gas-Fired Combined Cycle and Cogeneration Plants	P	Gas-Fired Combined Cycle and Cogeneration Plants; Natural gas; Refinery process gas
5672	Oil-Fired Boilers	P	Oil-Fired Boilers; No.6 oil
5673	Diesel Engines	P	Diesel Engines
5674	Marine Vessel - Main Engine - Heavy Fuel Oil	P	Marine Vessel; Main Engine; Heavy Fuel Oil
5675	Marine Vessel - Auxiliary Engine - Marine Gas Oil	P	Marine Vessel; Auxiliary Engine; Marine Gas Oil
5676	Marine Vessel - Auxiliary Boiler - Heavy Fuel Oil	P	Marine Vessel; Auxiliary Boiler; Heavy Fuel Oil
5679	Diesel Exhaust - Heavy-heavy duty truck - 2007 model year	P	Diesel Exhaust; Heavy-heavy duty truck; 2007 model year; Ultra-low sulfur diesel
5680	Diesel Exhaust - Heavy-heavy duty truck - 2007 model year	P	Diesel Exhaust; Heavy-heavy duty truck; 2007 model year; Ultra-low sulfur diesel
5681	Marine Vessel - Main Propulsion Engine - Heavy Fuel Oil	P	Marine Vessel; Main Engine; Heavy Fuel Oil
5682	Bituminous Coal-Fired Power Plant	P	Coal Combustion; Power Plant; Bituminous Coal
5683	Construction Dust	P	Construction Dust; Mud/Dirt Carryout
8821	Pulp and Paper Mills - Kraft DCE Recovery Furnaces	P	Pulp and Paper Mills; Kraft DCE Recovery Furnaces
8822	Pulp and Paper Mills - Kraft NDCE Recovery Furnaces	P	Pulp and Paper Mills; Kraft NDCE Recovery Furnaces
8823	Pulp and Paper Mills - Sulfite Recovery Furnaces	P	Pulp and Paper Mills; Sulfite Recovery Furnaces
8824	Pulp and Paper Mills - Kraft Lime Kilns with ESPs	P	Pulp and Paper Mills; Kraft Lime Kilns with ESPs
8825	Pulp and Paper Mills - Kraft Lime Kilns with Wet Scrubbers	P	Pulp and Paper Mills; Kraft Lime Kilns with Wet Scrubbers
8826	Pulp and Paper Mills - Kraft Smelt Dissolving Tanks	P	Pulp and Paper Mills; Kraft Smelt Dissolving Tanks
8873	Aircraft Exhaust	P	Aircraft Exhaust; Jet Engine Exhaust

Profile Number	Name	Profile Type	Keyword
8874	Aircraft Exhaust	P	Aircraft Exhaust; Jet Engine Exhaust
8875	Aircraft Exhaust	P	Aircraft Exhaust; Jet Engine Exhaust
8898	Outdoor Wood-fired Boiler - Red Oak	P	Outdoor Wood-fired Boiler; Red Oak
8899	Outdoor Wood-fired Boiler - Pine	P	Outdoor Wood-fired Boiler; Pine
8900	Outdoor Wood-fired Boiler - Red Oak with Supplementary Refuse	P	Outdoor Wood-fired Boiler; Red Oak with Supplementary Refuse
8901	Outdoor Wood-fired Boiler - Red Oak	P	Outdoor Wood-fired Boiler; Red Oak
8902	Outdoor Wood-fired Boiler - Hardwood Pellets from Sawdust	P	Outdoor Wood-fired Boiler; Hardwood Pellets from Sawdust
8903	Outdoor Wood-fired Boiler - Red Oak	P	Outdoor Wood-fired Boiler; Red Oak
8928	Gasoline Exhaust SVOC - LA92 UDC cycle cold start (phase 1)	P	SVOC; Gasoline Exhaust; LA92 UDC cycle; cold start (phase 1)
8929	Gasoline Exhaust SVOC - LA92 UDC cycle hot stabilized running (Phase 2)	P	SVOC; Gasoline Exhaust; LA92 UDC cycle; hot stabilized running (Phase 2)
8930	Gasoline Exhaust SVOC - LA92 UDC cycle warm start (phase 3)	P	SVOC; Gasoline Exhaust; LA92 UDC cycle; warm start (phase 3)
8931	Gasoline Exhaust SVOC - LA92 UDC cycle, summer condition	P	SVOC; Gasoline Exhaust; LA92 UDC cycle; summer condition
8932	Gasoline Exhaust SVOC - LA92 UDC cycle, winter condition	P	SVOC; Gasoline Exhaust; LA92 UDC cycle; winter condition
8938	Coal Combustion - Fly Ash - Subbituminous Coal - Ultrafine	P	Coal Combustion; Fly Ash; Subbituminous Coal
8939	Coal Combustion - Fly Ash - Subbituminous Coal - Fine	P	Coal Combustion; Fly Ash; Subbituminous Coal
8940	Coal Combustion - Fly Ash - Subbituminous Coal - Coarse	P	Coal Combustion; Fly Ash; Subbituminous Coal
8941	Coal Combustion - Fly Ash - Bituminous Coal - Fine	P	Coal Combustion; Fly Ash; Bituminous Coal
8942	Coal Combustion - Fly Ash - Bituminous Coal - Coarse	P	Coal Combustion; Fly Ash; Bituminous Coal
8943	Agricultural Burning - Rice Straw	P	Agricultural Burning; Rice Straw
8944	Agricultural Burning - Rice Straw	P	Agricultural Burning; Rice Straw
8945	Iron and steel facility - Coke Making	P	Iron and steel facility; Coke Making
8946	Iron and steel facility - Sintering	P	Iron and steel facility; Sintering
8947	Iron and steel facility - Cold Forming	P	Iron and steel facility; Cold Forming
8948	Iron and steel facility - Hot Forming	P	Iron and steel facility; Hot Forming
8992	Light-duty Gasoline Vehicles Exhaust - Start	P	Gasoline Vehicles Exhaust; Start
8993	Light-duty Gasoline Vehicles Exhaust - Hot Stabilized Running	P	Gasoline Vehicles Exhaust; Hot Stabilized Running
8994	Conventional Diesel Exhaust - Idle Cycle	P	Conventional Diesel Exhaust; Idle
8995	Conventional Diesel Exhaust - Transient Cycle	P	Conventional Diesel Exhaust; Hot Stabilized Running
8996	Diesel Exhaust - Heavy-heavy duty truck - 2007 model year with NCOM	P	2007 to 2009 Heavy-Duty Diesel Exhaust

Profile Number	Name	Profile Type	Keyword
9000110	Solid Waste - Average	P	SOLID WASTE
900012.5	Solid Waste - Average	P	SOLID WASTE
9000130	Solid Waste - Average	P	SOLID WASTE
90001C	Solid Waste - Average	P	SOLID WASTE
9000210	Chemical Manufacturing - Average	P	INDUSTRIAL; CHEMICAL MANUFACTURING
900022.5	Chemical Manufacturing - Average	P	INDUSTRIAL; CHEMICAL MANUFACTURING
9000230	Chemical Manufacturing - Average	P	INDUSTRIAL; CHEMICAL MANUFACTURING
90002C	Chemical Manufacturing - Average	P	INDUSTRIAL; CHEMICAL MANUFACTURING
9000310	Food And Agriculture - Average	P	FOOD AND AGRICULTURE; INDUSTRIAL
900032.5	Food And Agriculture - Average	P	FOOD AND AGRICULTURE; INDUSTRIAL
9000330	Food And Agriculture - Average	P	FOOD AND AGRICULTURE; INDUSTRIAL
90003C	Food And Agriculture - Average	P	FOOD AND AGRICULTURE; INDUSTRIAL
9000410	Steel Production - Average	P	STEEL; STEEL PRODUCTION; INDUSTRIAL
900042.5	Steel Production - Average	P	STEEL; STEEL PRODUCTION; INDUSTRIAL
9000430	Steel Production - Average	P	STEEL; STEEL PRODUCTION; INDUSTRIAL
90004C	Steel Production - Average	P	STEEL; STEEL PRODUCTION; INDUSTRIAL
9000510	Lead Smelters - Average	P	LEAD; SMELTER; LEAD SMELTER; INDUSTRIAL
900052.5	Lead Smelters - Average	P	LEAD; SMELTER; LEAD SMELTER; INDUSTRIAL
9000530	Lead Smelters - Average	P	LEAD; SMELTER; LEAD SMELTER; INDUSTRIAL
90005C	Lead Smelters - Average	P	LEAD; SMELTER; LEAD SMELTER; INDUSTRIAL
9000610	Metal Mining - General Processes - Average	P	METAL; MINING; METAL MINING
900062.5	Metal Mining - General Processes - Average	P	METAL; MINING; METAL MINING
9000630	Metal Mining - General Processes - Average	P	METAL; MINING; METAL MINING
90006C	Metal Mining - General Processes - Average	P	METAL; MINING; METAL MINING
9000710	Primary Metal Production - Average	P	METAL; PRIMARY METAL; PRIMARY METAL PRODUCTION; INDUSTRIAL
900072.5	Primary Metal Production - Average	P	METAL; PRIMARY METAL; PRIMARY METAL PRODUCTION; INDUSTRIAL
9000730	Primary Metal Production - Average	P	METAL; PRIMARY METAL; PRIMARY METAL PRODUCTION; INDUSTRIAL
90007C	Primary Metal Production - Average	P	METAL; PRIMARY METAL; PRIMARY METAL PRODUCTION; INDUSTRIAL
9000810	Secondary Metal Production - Average	P	METAL; SECONDARY METAL; SECONDARY METAL PRODUCTION; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
900082.5	Secondary Metal Production - Average	P	METAL; SECONDARY METAL; SECONDARY METAL PRODUCTION; INDUSTRIAL
9000830	Secondary Metal Production - Average	P	METAL; SECONDARY METAL; SECONDARY METAL PRODUCTION; INDUSTRIAL
90008C	Secondary Metal Production - Average	P	METAL; SECONDARY METAL; SECONDARY METAL PRODUCTION; INDUSTRIAL
9000910	Secondary Aluminum - Average	P	ALUMINUM; SECONDARY ALUMINUM; INDUSTRIAL
900092.5	Secondary Aluminum - Average	P	ALUMINUM; SECONDARY ALUMINUM; INDUSTRIAL
9000930	Secondary Aluminum - Average	P	ALUMINUM; SECONDARY ALUMINUM; INDUSTRIAL
90009C	Secondary Aluminum - Average	P	ALUMINUM; SECONDARY ALUMINUM; INDUSTRIAL
9001010	Gray Iron Foundries - Average	P	GRAY IRON; FOUNDRY; GRAY IRON FOUNDRY; INDUSTRIAL
900102.5	Gray Iron Foundries - Average	P	GRAY IRON; FOUNDRY; GRAY IRON FOUNDRY; INDUSTRIAL
9001030	Gray Iron Foundries - Average	P	GRAY IRON; FOUNDRY; GRAY IRON FOUNDRY; INDUSTRIAL
90010C	Gray Iron Foundries - Average	P	GRAY IRON; FOUNDRY; GRAY IRON FOUNDRY; INDUSTRIAL
9001110	Steel Foundry - General	P	FOUNDRY; STEEL; STEEL FOUNDRY; INDUSTRIAL
900112.5	Steel Foundry - General	P	FOUNDRY; STEEL; STEEL FOUNDRY; INDUSTRIAL
9001130	Steel Foundry - General	P	FOUNDRY; STEEL; STEEL FOUNDRY; INDUSTRIAL
90011C	Steel Foundry - General	P	FOUNDRY; STEEL; STEEL FOUNDRY; INDUSTRIAL
9001210	Clay And Fly Ash Sintering - Average	P	CLAY AND FLY ASH SINTERING; CLAY; FLY ASH; SINTERING; INDUSTRIAL
900122.5	Clay And Fly Ash Sintering - Average	P	CLAY AND FLY ASH SINTERING; CLAY; FLY ASH; SINTERING; INDUSTRIAL
9001230	Clay And Fly Ash Sintering - Average	P	CLAY AND FLY ASH SINTERING; CLAY; FLY ASH; SINTERING; INDUSTRIAL
90012C	Clay And Fly Ash Sintering - Average	P	CLAY AND FLY ASH SINTERING; CLAY; FLY ASH; SINTERING; INDUSTRIAL
9001310	Mineral Products - Average	P	MINERAL PRODUCTS; INDUSTRIAL
900132.5	Mineral Products - Average	P	MINERAL PRODUCTS; INDUSTRIAL
9001330	Mineral Products - Average	P	MINERAL PRODUCTS; INDUSTRIAL
90013C	Mineral Products - Average	P	MINERAL PRODUCTS; INDUSTRIAL
9001410	Petroleum Industry - Average	P	PETROLEUM INDUSTRY; INDUSTRUAL
900142.5	Petroleum Industry - Average	P	PETROLEUM INDUSTRY; INDUSTRUAL
9001430	Petroleum Industry - Average	P	PETROLEUM INDUSTRY; INDUSTRUAL
90014C	Petroleum Industry - Average	P	PETROLEUM INDUSTRY; INDUSTRUAL
9001510	Pulp And Paper Industry	P	PULP AND PAPER INDUSTRY; PULP AND PAPER; INDUSTRIAL
900152.5	Pulp And Paper Industry	P	PULP AND PAPER INDUSTRY; PULP AND PAPER; INDUSTRIAL

Profile Number	Name	Profile Type	Keyword
9001530	Pulp And Paper Industry	P	PULP AND PAPER INDUSTRY; PULP AND PAPER; INDUSTRIAL
90015C	Pulp And Paper Industry	P	PULP AND PAPER INDUSTRY; PULP AND PAPER; INDUSTRIAL
9001610	Industrial Manufacturing - Average	P	INDUSTRIAL
900162.5	Industrial Manufacturing - Average	P	INDUSTRIAL
9001630	Industrial Manufacturing - Average	P	INDUSTRIAL
90016C	Industrial Manufacturing - Average	P	INDUSTRIAL
91000	Draft Agricultural Burning - Composite	P	Agricultural Burning; PM Composite
91001	Draft Agricultural Soil - Composite	P	Agricultural Soil; PM Composite
91002	Draft Brake Lining Dust - Composite	P	Brake Lining Dust; PM Composite
91003	Draft Catalytic Cracking - Composite	P	Catalytic Cracking; PM Composite
91004	Draft Cement Production - Composite	P	Cement Production; PM Composite
91005	Draft Charbroiling - Composite	P	Charbroiling; PM Composite
91006	Draft Cigarette Smoke - Composite	P	Cigarette Smoke; PM Composite
91007	Draft Construction Dust - Composite	P	Construction Dust; PM Composite
91008	Draft Copper Production - Composite	P	Copper Production; PM Composite
91009	Draft Crustal Material - Composite	P	Crustal Material; PM Composite
91011	Draft Electric Arc Furnace - Composite	P	Electric Arc Furnace; PM Composite
91012	Draft Ferromanganese Furnace - Composite	P	Ferromanganese Furnace; PM Composite
91013	Draft Fly Ash - Composite	P	Fly Ash; PM Composite
91014	Draft Food & Ag - Handling - Composite	P	Food & Ag; PM Handling; PM Composite
91015	Draft Industrial Soil - Composite	P	Industrial Soil; PM Composite
91016	Draft Inorganic Fertilizer - Composite	P	Inorganic Fertilizer; PM Composite
91017	Draft LDDV Exhaust - Composite	P	LDDV Exhaust; PM Composite
91018	Draft Lime Kiln - Composite	P	Lime Kiln; PM Composite
91019	Draft Limestone Dust - Composite	P	Limestone Dust; PM Composite
91020	Draft Natural Gas Combustion - Composite	P	Natural Gas Combustion; PM Composite
91021	Draft Non-catalyst Gasoline Exhaust - Composite	P	Non-catalyst Gasoline Exhaust; PM Composite
91022	Draft Onroad Gasoline Exhaust - Composite	P	Onroad Gasoline Exhaust; PM Composite
91023	Draft Paved Road Dust - Composite	P	Paved Road Dust; PM Composite

Profile Number	Name	Profile Type	Keyword
91024	Draft Phosphate Manuf - Composite	P	Phosphate Manuf; PM Composite
91025	Draft PMSO2ControlledLigniteCombustion - Composite	P	PMSO2ControlledLigniteCombustion; PM Composite
91026	Draft Prescribed Burning - Composite	P	Prescribed Burning; PM Composite
91027	Draft Process Gas Combustion - Composite	P	Process Gas Combustion; PM Composite
91028	Draft Residential Coal Combustion - Composite	P	Residential Coal Combustion; PM Composite
91029	Draft Residential Wood Combustion: Eucalyptus - Composite	P	Residential Wood Combustion: Eucalyptus; PM Composite
91030	Draft Residential Wood Combustion: Hard - Composite	P	Residential Wood Combustion: Hard; PM Composite
91031	Draft Residential Wood Combustion: HardSoft - Composite	P	Residential Wood Combustion: HardSoft; PM Composite
91032	Draft Residential Wood Combustion: HardSoftN/A - Composite	P	Residential Wood Combustion: HardSoftN/A; PM Composite
91033	Draft Residential Wood Combustion: Soft - Composite	P	Residential Wood Combustion: Soft; PM Composite
91035	Draft Sand & Gravel - Composite	P	Sand & Gravel; PM Composite
91036	Draft Sandblast - Composite	P	Sandblast; PM Composite
91037	Draft Secondary Aluminum - Composite	P	Secondary Aluminum; PM Composite
91038	Draft Sintering Furnace - Composite	P	Sintering Furnace; PM Composite
91039	Draft Slash Burning - Composite	P	Slash Burning; PM Composite
91040	Draft Solid Waste Combustion - Composite	P	Solid Waste Combustion; PM Composite
91041	Draft SubBituminousCombustion - Composite	P	SubBituminous Coal Combustion; PM Composite
91042	Draft Surface Coating - Composite	P	Surface Coating; PM Composite
91043	Draft Tire Dust - Composite	P	Tire Dust; PM Composite
91044	Draft Unpaved Road Dust - Composite	P	Unpaved Road Dust; PM Composite
91045	Draft Wildfires - Composite	P	Wildfires; PM Composite
91046	Draft Wood Product Drying - Composite	P	Wood Product Drying; PM Composite
91047	Draft Wood Product Sawing - Composite	P	Wood Product Sawing; PM Composite
91048	Draft Bituminous Coal Combustion - Composite	P	Coal Combustion; Utility
91100	Unpaved Road Dust - Composite	P	Unpaved Road Dust; Inventory speciation
91101	Agricultural Soil - Composite	P	Agricultural Soil; Inventory speciation
91102	Wildfires - Composite	P	Wildfires; Inventory speciation
91103	Agricultural Burning - Composite	P	Agricultural Burning; Inventory speciation
91104	Bituminous Combustion - Composite	P	Bituminous Coal Combustion; Inventory speciation

Profile Number	Name	Profile Type	Keyword
91105	Residential Wood Combustion - Composite	P	Residential Wood Combustion; Inventory speciation
91106	HDDV Exhaust - Composite	P	HDDV Exhaust; Inventory speciation
91107	Construction Dust - Composite	P	Construction Dust; Inventory speciation
91108	Paved Road Dust - Composite	P	Paved Road Dust; Inventory speciation
91109	Prescribed Burning - Composite	P	Prescribed Burning; Inventory speciation
91110	Sub-Bituminous Combustion - Composite	P	Sub-Bituminous Coal Combustion; Inventory speciation
91111	Sand & Gravel - Composite	P	Sand & Gravel; Inventory speciation
91112	Natural Gas Combustion - Composite	P	Natural Gas Combustion; Inventory speciation
91113	Nonroad Gasoline Exhaust - Composite	P	Nonroad Gasoline Exhaust; Inventory speciation
91114	Wood Fired Boiler - Composite	P	Wood Fired Boiler; Inventory speciation
91115	Distillate Oil Combustion - Composite	P	Distillate Oil Combustion; Inventory speciation
91116	Charbroiling - Composite	P	Charbroiling; Inventory speciation
91117	Residual Oil Combustion - Composite	P	Residual Oil Combustion; Inventory speciation
91118	Dairy Soil - Composite	P	Dairy Soil; Inventory speciation
91119	Kraft Recovery Furnace - Composite	P	Kraft Recovery Furnace; Inventory speciation
91120	Mineral Products - Avg - Composite	P	Mineral Products - Avg; Inventory speciation
91121	Industrial Manufacturing - Avg - Composite	P	Industrial Manufacturing - Avg; Inventory speciation
91122	Onroad Gasoline Exhaust - Composite	P	Onroad Gasoline Exhaust; Inventory speciation
91123	Heat Treating - Composite	P	Heat Treating; Inventory speciation
91124	Chemical Manufacturing - Avg - Composite	P	Chemical Manufacturing - Avg; Inventory speciation
91125	Lignite Combustion - Composite	P	Lignite Combustion; Inventory speciation
91126	Solid Waste Combustion - Composite	P	Solid Waste Combustion; Inventory speciation
91127	Cement Production - Composite	P	Cement Production; Inventory speciation
91128	Wood Products - Drying - Composite	P	Wood Products; Drying; Inventory speciation
91129	Surface Coating - Composite	P	Surface Coating; Inventory speciation
91130	Food & Ag - Handling - Composite	P	Food & Ag; Handling; Inventory speciation
91131	Wood Products-Sawing - Composite	P	Wood Products-Sawing; Inventory speciation
91132	Aluminum Processing - Composite	P	Aluminum Processing; Inventory speciation
91133	Open Hearth Furnace - Composite	P	Open Hearth Furnace; Inventory speciation

Profile Number	Name	Profile Type	Keyword
91134	Brake Lining Dust - Composite	P	Brake Lining Dust; Inventory speciation
91135	Meat Frying - Composite	P	Meat Frying; Inventory speciation
91136	Process Gas Combustion - Composite	P	Process Gas Combustion; Inventory speciation
91137	Aluminum Production - Composite	P	Aluminum Production; Inventory speciation
91138	Lime Kiln - Composite	P	Lime Kiln; Inventory speciation
91139	Sintering Furnace - Composite	P	Sintering Furnace; Inventory speciation
91140	Charcoal Manufacturing - Composite	P	Charcoal Manufacturing; Inventory speciation
91141	Catalytic Cracking - Composite	P	Catalytic Cracking; Inventory speciation
91142	Fiberglass Manufacturing - Composite	P	Fiberglass Manufacturing; Inventory speciation
91143	Glass Furnace - Composite	P	Glass Furnace; Inventory speciation
91144	Pulp & Paper Mills - Composite	P	Pulp & Paper Mills; Inventory speciation
91145	Petroleum Industry - Avg - Composite	P	Petroleum Industry - Avg; Inventory speciation
91146	Slash Burning - Composite	P	Slash Burning; Inventory speciation
91147	Misc. Sources - Composite	P	Misc. Sources; Inventory speciation
91148	Asphalt Roofing - Composite	P	Asphalt Roofing; Inventory speciation
91149	Inorganic Chemical Manufacturing - Composite	P	Inorganic Chemical Manufacturing; Inventory speciation
91150	Tire Dust - Composite	P	Tire Dust; Inventory speciation
91151	Ferromanganese Furnace - Composite	P	Ferromanganese Furnace; Inventory speciation
91152	Wood Products - Sanding - Composite	P	Wood Products; Sanding; Inventory speciation
91153	Electric Arc Furnace - Composite	P	Electric Arc Furnace; Inventory speciation
91154	Food & Ag-Drying - Composite	P	Food & Ag-Drying; Inventory speciation
91155	Residential Coal Combustion - Composite	P	Residential Coal Combustion; Inventory speciation
91156	Residential Natural Gas Combustion - Composite	P	Residential Natural Gas Combustion; Inventory speciation
91157	Cast Iron Cupola - Composite	P	Cast Iron Cupola; Inventory speciation
91158	Copper Processing - Composite	P	Copper Processing; Inventory speciation
91159	Asphalt Manufacturing - Composite	P	Asphalt Manufacturing; Inventory speciation
91160	Fly Ash - Composite	P	Fly Ash; Inventory speciation
91161	Sandblast - Composite	P	Sandblast; Inventory speciation
91162	LDDV Exhaust - Composite	P	LDDV Exhaust; Inventory speciation

Profile Number	Name	Profile Type	Keyword
91163	Ammonium Nitrate Production - Composite	P	Ammonium Nitrate Production; Inventory speciation
91164	Limestone Dust - Composite	P	Limestone Dust; Inventory speciation
91165	Phosphate Manufacturing - Composite	P	Phosphate Manufacturing; Inventory speciation
91166	Gypsum Manufacturing - Composite	P	Gypsum Manufacturing; Inventory speciation
91167	Urea Fertilizer - Composite	P	Urea Fertilizer; Inventory speciation
91168	Lead Processing - Composite	P	Lead Processing; Inventory speciation
91169	Crustal Material - Composite	P	Crustal Material; Inventory speciation
91170	Copper Production - Composite	P	Copper Production; Inventory speciation
91171	Brick Grinding and Screening - Composite	P	Brick Grinding and Screening; Inventory speciation
91172	Calcium Carbide Furnace - Composite	P	Calcium Carbide Furnace; Inventory speciation
91173	Coke Calciner - Composite	P	Coke Calciner; Inventory speciation
91174	Industrial Soil - Composite	P	Industrial Soil; Inventory speciation
91175	Potato Deep Frying - Composite	P	Potato Deep Frying; Inventory speciation
91176	Sea Salt - Composite	P	Sea Salt; Inventory speciation
91177	Sludge Combustion - Composite	P	Sludge Combustion; Inventory speciation
91178	Lead Production - Composite	P	Lead Production; Inventory speciation
91179	Steel Desulfurization - Composite	P	Steel Desulfurization; Inventory speciation
91180	Auto Body Shredding - Composite	P	Auto Body Shredding; Inventory speciation
91181	Ammonium Sulfate Production - Composite	P	Ammonium Sulfate Production; Inventory speciation
91182	Inorganic Fertilizer - Composite	P	Inorganic Fertilizer; Inventory speciation
91183	Boric Acid Manufacturing - Composite	P	Boric Acid Manufacturing; Inventory speciation
92000	Draft Agricultural Burning - Simplified	P	Agricultural Burning; PM Simplified
92001	Draft Agricultural Soil - Simplified	P	Agricultural Soil; PM Simplified
92002	Draft Aluminum Production - Simplified	P	Aluminum Production; PM Simplified
92003	Draft Ammonium Nitrate Production - Simplified	P	Ammonium Nitrate Production; PM Simplified
92004	Draft Ammonium Sulfate Production - Simplified	P	Ammonium Sulfate Production; PM Simplified
92005	Draft Asphalt Manufacturing - Simplified	P	Asphalt Manufacturing; PM Simplified
92006	Draft Asphalt Roofing - Simplified	P	Asphalt Roofing; PM Simplified
92007	Draft Auto Body Shredding - Simplified	P	Auto Body Shredding; PM Simplified

Profile Number	Name	Profile Type	Keyword
92008	Draft Boric Acid Manufacturing - Simplified	P	Boric Acid Manufacturing; PM Simplified
92009	Draft Brake Lining Dust - Simplified	P	Brake Lining Dust; PM Simplified
92010	Draft Brick Grinding and Screening - Simplified	P	Brick Grinding and Screening; PM Simplified
92011	Draft Calcium Carbide Furnace - Simplified	P	Calcium Carbide Furnace; PM Simplified
92012	Draft Cast Iron Cupola - Simplified	P	Cast Iron Cupola; PM Simplified
92013	Draft Catalytic Cracking - Simplified	P	Catalytic Cracking; PM Simplified
92014	Draft Cement Production - Simplified	P	Cement Production; PM Simplified
92015	Draft Charbroiling - Simplified	P	Charbroiling; PM Simplified
92016	Draft Charcoal Manufacturing - Simplified	P	Charcoal Manufacturing; PM Simplified
92017	Draft Chem Manuf - Avg - Simplified	P	Chem Manuf; PM Avg; PM Simplified
92018	Draft Cigarette Smoke - Simplified	P	Cigarette Smoke; PM Simplified
92019	Draft Coke Calciner - Simplified	P	Coke Calciner; PM Simplified
92020	Draft Construction Dust - Simplified	P	Construction Dust; PM Simplified
92021	Draft Copper Production - Simplified	P	Copper Production; PM Simplified
92022	Draft Crustal Material - Simplified	P	Crustal Material; PM Simplified
92023	Draft Dairy Soil - Simplified	P	Dairy Soil; PM Simplified
92025	Draft Distillate Oil Combustion - Simplified	P	Distillate Oil Combustion; PM Simplified
92026	Draft Electric Arc Furnace - Simplified	P	Electric Arc Furnace; PM Simplified
92027	Draft Ferromanganese Furnace - Simplified	P	Ferromanganese Furnace; PM Simplified
92028	Draft Fiberglass Manufacture - Simplified	P	Fiberglass Manufacture; PM Simplified
92029	Draft Fly Ash - Simplified	P	Fly Ash; PM Simplified
92030	Draft Food & Ag - Handling - Simplified	P	Food & Ag; PM Handling; PM Simplified
92031	Draft Food & Ag - Drying - Simplified	P	Food & Ag; PM Drying; PM Simplified
92032	Draft Geothermal Background - Simplified	P	Geothermal Background; PM Simplified
92033	Draft Glass Furnace - Simplified	P	Glass Furnace; PM Simplified
92034	Draft Gypsum Manufacture - Simplified	P	Gypsum Manufacture; PM Simplified
92035	Draft HDDV Exhaust - Simplified	P	HDDV Exhaust; PM Simplified
92036	Draft Heat Treating - Simplified	P	Heat Treating; PM Simplified
92037	Draft Ind Manuf - Avg. - Simplified	P	Ind Manuf; PM Avg.; PM Simplified

Profile Number	Name	Profile Type	Keyword
92038	Draft Industrial Soil - Simplified	P	Industrial Soil; PM Simplified
92039	Draft Inorganic Chemical Manufacture - Simplified	P	Inorganic Chemical Manufacture; PM Simplified
92040	Draft Inorganic Fertilizer - Simplified	P	Inorganic Fertilizer; PM Simplified
92041	Draft Kraft Recovery Furnace - Simplified	P	Kraft Recovery Furnace; PM Simplified
92042	Draft LDDV Exhaust - Simplified	P	LDDV Exhaust; PM Simplified
92043	Draft Lead Production - Simplified	P	Lead Production; PM Simplified
92044	Draft Lime Kiln - Simplified	P	Lime Kiln; PM Simplified
92045	Draft Limestone Dust - Simplified	P	Limestone Dust; PM Simplified
92046	Draft Meat Frying - Simplified	P	Meat Frying; PM Simplified
92047	Draft Mineral Products - Avg - Simplified	P	Mineral Products; PM Avg; PM Simplified
92048	Draft Natural Gas Combustion - Simplified	P	Natural Gas Combustion; PM Simplified
92049	Draft Non-catalyst Gasoline Exhaust - Simplified	P	Non-catalyst Gasoline Exhaust; PM Simplified
92050	Draft Onroad Gasoline Exhaust - Simplified	P	Onroad Gasoline Exhaust; PM Simplified
92051	Draft Open Hearth Furnace - Simplified	P	Open Hearth Furnace; PM Simplified
92052	Draft Overall Average/Default - Simplified	P	Overall Average/Default; PM Simplified
92053	Draft Paved Road Dust - Simplified	P	Paved Road Dust; PM Simplified
92054	Draft Petroleum Ind - Avg - Simplified	P	Petroleum Ind; PM Avg; PM Simplified
92055	Draft Phosphate Manuf - Simplified	P	Phosphate Manuf; PM Simplified
92056	Draft PMControlledLigniteCombustion - Simplified	P	PMControlledLigniteCombustion; PM Simplified
92057	Draft PMSO2ControlledLigniteCombustion - Simplified	P	PMSO2ControlledLigniteCombustion; PM Simplified
92058	Draft Potato Deep-Frying - Simplified	P	Potato Deep-Frying; PM Simplified
92059	Draft Prescribed Burning - Simplified	P	Prescribed Burning; PM Simplified
92060	Draft Process Gas Combustion - Simplified	P	Process Gas Combustion; PM Simplified
92061	Draft Pulp & Paper -Avg. - Simplified	P	Pulp & Paper -Avg.; PM Simplified
92062	Draft Residential Coal Combustion - Simplified	P	Residential Coal Combustion; PM Simplified
92063	Draft Residential Natural Gas Combustion - Simplified	P	Residential Natural Gas Combustion; PM Simplified
92064	Draft Residential Wood Combustion: Almond - Simplified	P	Residential Wood Combustion: Almond; PM Simplified
92065	Draft Residential Wood Combustion: Cedar - Simplified	P	Residential Wood Combustion: Cedar; PM Simplified
92066	Draft Residential Wood Combustion: Eucalyptus - Simplified	P	Residential Wood Combustion: Eucalyptus; PM Simplified

Profile Number	Name	Profile Type	Keyword
92067	Draft Residential Wood Combustion: Hard - Simplified	P	Residential Wood Combustion: Hard; PM Simplified
92068	Draft Residential Wood Combustion: HardSoft - Simplified	P	Residential Wood Combustion: HardSoft; PM Simplified
92069	Draft Residential Wood Combustion: HardSoftN/A - Simplified	P	Residential Wood Combustion: HardSoftN/A; PM Simplified
92070	Draft Residential Wood Combustion: Soft - Simplified	P	Residential Wood Combustion: Soft; PM Simplified
92071	Draft Residential Wood Combustion: Synthetic - Simplified	P	Residential Wood Combustion: Synthetic; PM Simplified
92072	Draft Residual Oil Combustion - Simplified	P	Residual Oil Combustion; PM Simplified
92073	Draft Sand & Gravel - Simplified	P	Sand & Gravel; PM Simplified
92074	Draft Sandblast - Simplified	P	Sandblast; PM Simplified
92075	Draft Sea Salt - Simplified	P	Sea Salt; PM Simplified
92076	Draft Secondary Aluminum - Simplified	P	Secondary Aluminum; PM Simplified
92077	Draft Secondary Copper - Simplified	P	Secondary Copper; PM Simplified
92078	Draft Secondary Lead - Simplified	P	Secondary Lead; PM Simplified
92079	Draft Sintering Furnace - Simplified	P	Sintering Furnace; PM Simplified
92080	Draft Slash Burning - Simplified	P	Slash Burning; PM Simplified
92081	Draft Sludge Combustion - Simplified	P	Sludge Combustion; PM Simplified
92082	Draft Solid Waste Combustion - Simplified	P	Solid Waste Combustion; PM Simplified
92083	Draft Steel Desulfurization - Simplified	P	Steel Desulfurization; PM Simplified
92084	Draft SubBituminousCombustion - Simplified	P	SubBituminous Coal Combustion; PM Simplified
92085	Draft Surface Coating - Simplified	P	Surface Coating; PM Simplified
92086	Draft Tire Burning - Simplified	P	Tire Burning; PM Simplified
92087	Draft Tire Dust - Simplified	P	Tire Dust; PM Simplified
92088	Draft Unpaved Road Dust - Simplified	P	Unpaved Road Dust; PM Simplified
92089	Draft Urea Fertilizer - Simplified	P	Urea Fertilizer; PM Simplified
92090	Draft Wildfires - Simplified	P	Wildfires; PM Simplified
92091	Draft Wood Fired Boiler - Simplified	P	Wood Fired Boiler; PM Simplified
92092	Draft Wood Product Drying - Simplified	P	Wood Product Drying; PM Simplified
92093	Draft Wood Product Sanding - Simplified	P	Wood Product Sanding; PM Simplified
92094	Draft Wood Product Sawing - Simplified	P	Wood Product Sawing; PM Simplified
92095	Draft Bituminous Coal Combustion - Simplified	P	Coal Combustion; Utility

Profile Number	Name	Profile Type	Keyword
92100	Unpaved Road Dust - Simplified	P	Unpaved Road Dust
92101	Agricultural Soil - Simplified	P	Agricultural Soil
92102	Wildfires - Simplified	P	Wildfires
92103	Agricultural Burning - Simplified	P	Agricultural Burning
92104	Bituminous Coal Combustion - Simplified	P	Bituminous Coal Combustion
92105	Residential Wood Combustion - Simplified	P	Residential Wood Combustion
92106	HDDV Exhaust - Simplified	P	HDDV Exhaust
92107	Construction Dust - Simplified	P	Construction Dust
92108	Paved Road Dust - Simplified	P	Paved Road Dust
92109	Prescribed Burning - Simplified	P	Prescribed Burning
92110	Sub-Bituminous Combustion - Simplified	P	Sub-Bituminous Coal Combustion
92111	Sand & Gravel - Simplified	P	Sand & Gravel
92112	Natural Gas Combustion - Simplified	P	Natural Gas Combustion
92113	Nonroad Gasoline Exhaust - Simplified	P	Nonroad Gasoline Exhaust
92114	Wood Fired Boiler - Simplified	P	Wood Fired Boiler
92115	Distillate Oil Combustion - Simplified	P	Distillate Oil Combustion
92116	Charbroiling - Simplified	P	Charbroiling
92117	Residual Oil Combustion - Simplified	P	Residual Oil Combustion
92118	Dairy Soil - Simplified	P	Dairy Soil
92119	Kraft Recovery Furnace - Simplified	P	Kraft Recovery Furnace
92120	Mineral Products - Avg - Simplified	P	Mineral Products - Avg
92121	Industrial Manufacturing - Avg - Simplified	P	Industrial Manufacturing - Avg
92122	Onroad Gasoline Exhaust - Simplified	P	Onroad Gasoline Exhaust
92123	Heat Treating - Simplified	P	Heat Treating
92124	Chemical Manufacturing - Avg - Simplified	P	Chemical Manufacturing - Avg
92125	Lignite Combustion - Simplified	P	Lignite Combustion
92126	Solid Waste Combustion - Simplified	P	Solid Waste Combustion
92127	Cement Production - Simplified	P	Cement Production
92128	Wood Products - Drying - Simplified	P	Wood Products - Drying

Profile Number	Name	Profile Type	Keyword
92129	Surface Coating - Simplified	P	Surface Coating
92130	Food & Ag - Handling - Simplified	P	Food & Ag - Handling
92131	Wood Products - Sawing - Simplified	P	Wood Products-Sawing
92132	Aluminum Processing - Simplified	P	Aluminum Processing
92133	Open Hearth Furnace - Simplified	P	Open Hearth Furnace
92134	Brake Lining Dust - Simplified	P	Brake Lining Dust
92135	Meat Frying - Simplified	P	Meat Frying
92136	Process Gas Combustion - Simplified	P	Process Gas Combustion
92137	Aluminum Production - Simplified	P	Aluminum Production
92138	Lime Kiln - Simplified	P	Lime Kiln
92139	Sintering Furnace - Simplified	P	Sintering Furnace
92140	Charcoal Manufacturing - Simplified	P	Charcoal Manufacturing
92141	Catalytic Cracking - Simplified	P	Catalytic Cracking
92142	Fiberglass Manufacturing - Simplified	P	Fiberglass Manufacturing
92143	Glass Furnace - Simplified	P	Glass Furnace
92144	Pulp & Paper Mills - Simplified	P	Pulp & Paper Mills
92145	Petroleum Industry - Avg - Simplified	P	Petroleum Industry - Avg
92146	Slash Burning - Simplified	P	Slash Burning
92147	Misc. Sources - Simplified	P	Misc. Sources
92148	Asphalt Roofing - Simplified	P	Asphalt Roofing
92149	Inorganic Chemical Manufacturing - Simplified	P	Inorganic Chemical Manufacturing
92150	Tire Dust - Simplified	P	Tire Dust
92151	Ferromanganese Furnace - Simplified	P	Ferromanganese Furnace
92152	Wood Products - Sanding - Simplified	P	Wood Products - Sanding
92153	Electric Arc Furnace - Simplified	P	Electric Arc Furnace
92154	Food & Ag-Drying - Simplified	P	Food & Ag-Drying
92155	Residential Coal Combustion - Simplified	P	Residential Coal Combustion
92156	Residential Natural Gas Combustion - Simplified	P	Residential Natural Gas Combustion
92157	Cast Iron Cupola - Simplified	P	Cast Iron Cupola

Profile Number	Name	Profile Type	Keyword
92158	Copper Processing - Simplified	P	Copper Processing
92159	Asphalt Manufacturing - Simplified	P	Asphalt Manufacturing
92160	Fly Ash - Simplified	P	Fly Ash
92161	Sandblast - Simplified	P	Sandblast
92162	LDDV Exhaust - Simplified	P	LDDV Exhaust
92163	Ammonium Nitrate Production - Simplified	P	Ammonium Nitrate Production
92164	Limestone Dust - Simplified	P	Limestone Dust
92165	Phosphate Manufacturing - Simplified	P	Phosphate Manufacturing
92166	Gypsum Manufacturing - Simplified	P	Gypsum Manufacturing
92167	Urea Fertilizer - Simplified	P	Urea Fertilizer
92168	Lead Processing - Simplified	P	Lead Processing
92169	Crustal Material - Simplified	P	Crustal Material
92170	Copper Production - Simplified	P	Copper Production
92171	Brick Grinding and Screening - Simplified	P	Brick Grinding and Screening
92172	Calcium Carbide Furnace - Simplified	P	Calcium Carbide Furnace
92173	Coke Calciner - Simplified	P	Coke Calciner
92174	Industrial Soil - Simplified	P	Industrial Soil
92175	Potato Deep Frying - Simplified	P	Potato Deep Frying
92176	Sea Salt - Simplified	P	Sea Salt
92177	Sludge Combustion - Simplified	P	Sludge Combustion
92178	Lead Production - Simplified	P	Lead Production
92179	Steel Desulfurization - Simplified	P	Steel Desulfurization
92180	Auto Body Shredding - Simplified	P	Auto Body Shredding
92181	Ammonium Sulfate Production - Simplified	P	Ammonium Sulfate Production
92182	Inorganic Fertilizer - Simplified	P	Inorganic Fertilizer
92183	Boric Acid Manufacturing - Simplified	P	Boric Acid Manufacturing
92200	Marine Vessel - Main Engine - Heavy Fuel Oil - Simplified	P	Marine Vessel; Main Engine; Heavy Fuel Oil

Table A-3. Summary of Other Gases Profiles Included in the SPECIATE 4.4 Database

Profile Number	Name	Profile Type	Keyword
5271	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5272	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5273	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5274	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5275	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5276	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5277	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5278	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5279	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5280	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5281	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5282	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5283	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5284	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5285	Gasoline Vehicle	Other gases	Gasoline Vehicle; Speciated Mercury
5286	Diesel Vehicle	Other gases	Diesel Vehicle; Speciated Mercury
5287	Diesel Vehicle	Other gases	Diesel Vehicle; Speciated Mercury
5288	Diesel Vehicle	Other gases	Diesel Vehicle; Speciated Mercury
5289	Nonroad Gasoline Vehicle	Other gases	Nonroad Gasoline Vehicle; Speciated Mercury
5290	Nonroad Diesel Vehicle (aircraft, locomotive)	Other gases	Nonroad Diesel Vehicle (aircraft; locomotive); Speciated Mercury
5291	Nonroad Marine using Bunker Fuel	Other gases	Nonroad Marine using Bunker Fuel; Speciated Mercury
6100	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6101	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6102	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6103	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6104	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6105	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6106	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation

Profile Number	Name	Profile Type	Keyword
6107	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6108	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6109	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6110	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6111	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6112	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6113	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6114	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6115	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6116	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6117	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6118	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6119	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6120	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6121	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6122	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6123	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6124	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6125	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6126	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6127	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6128	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6129	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6130	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6131	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6132	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6133	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6134	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6135	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation

Profile Number	Name	Profile Type	Keyword
6136	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6137	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6138	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6139	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6140	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6141	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6142	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6143	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6144	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6145	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6146	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6147	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6148	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6149	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6150	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6151	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6152	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6153	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6154	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6155	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6156	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6157	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6158	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6159	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6160	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6161	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6162	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6163	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6164	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation

Profile Number	Name	Profile Type	Keyword
6165	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6166	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6167	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6169	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6170	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6171	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6173	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6174	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6175	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6176	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6177	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6178	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6179	Coal-Fired Power Plant	Other gases	Power Plant; Coal-Fired; Mercury Speciation
6180	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6181	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6182	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6183	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6184	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6185	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6186	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6187	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6188	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6189	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6190	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6191	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6192	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6193	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6194	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6195	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2

Profile Number	Name	Profile Type	Keyword
6196	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6197	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6198	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6199	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6200	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6201	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6202	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6203	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6204	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6205	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6206	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6207	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6208	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6209	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6210	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6211	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6212	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6213	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6214	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6215	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6216	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6217	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6218	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6219	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6220	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6221	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6222	Aircraft Exhaust	Other gases	Aircraft Exhaust; NO/NO2
6223	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6224	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2

Profile Number	Name	Profile Type	Keyword
6225	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6226	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6227	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6228	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6229	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6230	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6231	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6232	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6233	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6234	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6235	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6236	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6237	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6238	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6239	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6240	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6241	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6242	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6243	Diesel Exhaust	Other gases	Diesel Exhaust; Heavy-heavy duty truck; NO/NO2
6244	Diesel Generator Exhaust	Other gases	Diesel Generator Exhaust; NO/NO2
6245	Diesel Generator Exhaust	Other gases	Diesel Generator Exhaust; NO/NO2
6246	Diesel Generator Exhaust	Other gases	Diesel Generator Exhaust; NO/NO2
6247	Diesel Generator Exhaust	Other gases	Diesel Generator Exhaust; NO/NO2
6248	Diesel Generator Exhaust	Other gases	Diesel Generator Exhaust; NO/NO2
6249	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6250	Diesel Exhaust - Heavy-heavy duty truck - CARB CREEP	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CREEP
6251	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6252	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6253	Diesel Exhaust - Heavy-heavy duty truck - CARB LONG IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB LONG IDLE

Profile Number	Name	Profile Type	Keyword
6254	Diesel Exhaust - Heavy-heavy duty truck - CARB LONG CREEP	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB LONG CREEP
6255	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6256	Diesel Exhaust - Heavy-heavy duty truck - CARB CREEP	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CREEP
6257	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6258	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6259	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
6260	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
6261	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
6262	Diesel Exhaust - Heavy-heavy duty truck - CARB Urban Driving Dynamometer Schedule	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB Urban Driving Dynamometer Schedule
6263	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6264	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6265	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED IDLE
6266	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED CREEP	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED CREEP
6267	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6268	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6269	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED IDLE
6270	Diesel Exhaust - Heavy-heavy duty truck - CARB CREEP	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CREEP
6271	Diesel Exhaust - Heavy-heavy duty truck - CARB UDDS	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB UDDS
6272	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6273	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6274	Diesel Exhaust - Heavy-heavy duty truck - CARB EXTENDED CREEP	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB EXTENDED CREEP
6275	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6276	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6277	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6278	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6279	Diesel Exhaust - Heavy-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB CRUISE
6280	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6281	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE

Profile Number	Name	Profile Type	Keyword
6282	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6283	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6284	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6285	Diesel Exhaust - Heavy-heavy duty truck - CARB IDLE	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB IDLE
6286	Diesel Exhaust - Medium-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Medium-heavy duty truck; CARB TRANSIENT
6287	Diesel Exhaust - Medium-heavy duty truck - CARB CRUISE	Other gases	SVOC; Diesel Exhaust; Medium-heavy duty truck; CARB CRUISE
6288	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6289	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6290	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6291	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6292	Diesel Exhaust - Heavy-heavy duty truck - CARB TRANSIENT	Other gases	SVOC; Diesel Exhaust; Heavy-heavy duty truck; CARB TRANSIENT
6293	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel
6294	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
6295	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel - Diesel PM Filter	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel; Diesel PM Filter
6296	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
6297	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
6298	Diesel Exhaust - Light-heavy-duty Diesel Van - Low Sulfur Diesel (EC-D)	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Van; Low Sulfur Diesel (EC-D)
6299	Diesel Exhaust - Light-heavy-duty Diesel Van - California Reformulated Diesel 2	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Van; California Reformulated Diesel 2
6300	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
6301	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
6302	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
6303	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
6304	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - Low Sulfur Diesel (EC-D)	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; Low Sulfur Diesel (EC-D)
6305	Diesel Exhaust - Light-heavy-duty Diesel Pickup Truck - California Reformulated Diesel 2	Other gases	SVOC; Diesel Exhaust; Light-heavy-duty Diesel Pickup Truck; California Reformulated Diesel 2
6306	Aircraft Exhaust	Other gases	SVOC; Aircraft Exhaust
6307	Aircraft Exhaust	Other gases	SVOC; Aircraft Exhaust

Profile Number	Name	Profile Type	Keyword
6308	Aircraft Exhaust	Other gases	SVOC; Aircraft Exhaust
6309	Aircraft Exhaust	Other gases	SVOC; Aircraft Exhaust
6310	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6311	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6312	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6313	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6314	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6315	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6316	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6317	NO/NO2/HONO - Aircraft Exhaust	Other gases	Aircraft Exhaust, NO/NO2/HONO
6318	Bituminous Coal-Fired Power Plant	Other gases	Coal Combustion; Power Plant; Bituminous Coal
6319	Coal Combustion - Power Plants	Other gases	Coal Combustion; Power Plants; Speciated Mercury
6320	Coal Combustion - Residential Heat	Other gases	Coal Combustion; Residential Heat; Speciated Mercury
6321	Oil Combustion	Other gases	Oil Combustion; Speciated Mercury
6322	Cement Production	Other gases	Cement Production; Speciated Mercury
6323	Non-Ferrous Metals - Lead	Other gases	Non-Ferrous Metals; Lead; Speciated Mercury
6324	Non-Ferrous Metals - Zinc	Other gases	Non-Ferrous Metals; Zinc; Speciated Mercury
6325	Pig and Iron	Other gases	Pig and Iron; Speciated Mercury
6326	Caustic Soda	Other gases	Caustic Soda; Speciated Mercury
6327	Waste Disposal	Other gases	Waste Disposal; Speciated Mercury
8935	Diesel Exhaust - Heavy-heavy duty truck - 2004 model year	Other gases	Diesel Exhaust; Heavy-heavy duty truck; 2004 model year
8936	Diesel Exhaust - Heavy-heavy duty truck - 2007 model year	Other gases	Diesel Exhaust; Heavy-heavy duty truck; 2007 model year

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APPENDIX B. Protocol for Expansion of SPECIATE Database

MEMORANDUM

Date: May 30, 2005

To: Lee Beck, U.S. Environmental Protection Agency, Office of Research and Development

From: Y. Hsu and S. Roe, E.H. Pechan & Associates, Inc.

Subject: Protocol for Expansion of the SPECIATE Database
EPA Contract No. 68-D-00-265, WA No. 4-46

This memorandum is intended to guide profile data collectors on how to collect and present source profile data to maximize their utility to SPECIATE users, to assist future SPECIATE managers in assessing whether the data should be incorporated, and to facilitate the process for preparing profiles in SPECIATE format.

Background

In order to ensure that future profile development meets the needs of the SPECIATE user community, the Workgroup has prepared several recommendations for speciation profile developers based on recent SPECIATE database updates and previous guidance from EPA (EPA, 2002) and other scientists (Watson and Chow, 2002). For this discussion, SPECIATE users are defined as individuals who: (1) conduct regional haze, $PM_{2.5}$, and ozone modeling; (2) prepare speciated emissions inventories; (3) use the Chemical Mass Balance or other receptor models; (4) and/or verify profiles derived from ambient monitoring measurements by multivariate receptor models such as UNMIX.

Speciation Data Collection

Profiles are defined as the weight percent of chemical species that make up a source-specific emission stream. Volatile organic compound (VOC) profiles should include the weight percent of each of the species present. When all organic gas species are present (e.g. methane, carbonyls, hydrocarbons), these profiles are referred to as total organic gas (TOG) profiles. At a minimum, these profiles should include the 56 Photochemical Assessment Monitoring Station (PAMS) species, as well as any other species that are available.

Particulate matter (PM) profiles should include the weight percent for each of the species present. Minimum data requirements are for the major elements reported by the IMPROVE and $PM_{2.5}$ Speciation Trends networks, water-soluble ions (sulfates and nitrates at a minimum, plus ammonium, potassium, sodium, chloride, fluoride, phosphate, calcium, and magnesium, if available), and carbon fractions [Total Carbon (TC), Organic Carbon (OC), and Elemental Carbon (EC)], preferably with other fractions that are defined by the method, such as the eight

IMPROVE carbon fractions and carbonate carbon). Organic fractions, isotopic abundances, organic compounds, and single particle properties should be included, where they are reported and well-defined. Test results from dilution sampling trains are recommended for use in SPECIATE, since these results come closest to representing the composition of emissions in the ambient air.

Profile data must contain information on the chemical abundance of each species noted above. These data can be defined as the fraction of mass emissions of PM/VOC/TOG or the mass emission rate of each species (e.g. lb/ton, g/VMT, etc.). In addition to the estimate of central tendency for each species (e.g. mean, median), an estimate of the variability of each species should also be provided (e.g. standard deviation). Priority should be given to profiles that express the mean and standard deviation of individual test profiles for representative samples. If statistics other than the mean and standard deviation are provided, the method used to estimate central tendency and variability should be described.

Available information on the analytical uncertainty for individual test profiles should be identified and described separately. For example, if the analytical method for a certain species is known to have a precision of +/- 20%, then this information should be listed for each applicable species.

Documentation

The primary reference for the profile should be cited as the source of documentation, not secondary references that might have compiled profile data from one or more primary references. Secondary references should be cited only when original profiles have been modified (i.e. by aerosol aging, different sample compositing, different normalization methods, etc.). The notes column in the SPECIATE database should be used to store this information, as well as additional descriptive information on the profile, such as vehicle model year, engine size, vehicle identification number, and other descriptors that might be used to document a mobile source profile.

Profile developers must provide extensive documentation of their results. This should include documentation of the entire experimental program. Where appropriate, this should include fuel type, operating parameters, type of facility, location, and date of test. Non-detects or incomplete analyses should be documented so that the reader fully understands the analytical results.

Data Format

Profile developers should transmit data in a form that can be easily added to the SPECIATE database. The new SPECIATE 4.0 database is a Microsoft Access® relational database containing eight tables as described in Table C-1 of this appendix. The SPECIATE data structure is completely documented in the final report for SPECIATE 4.0. Information should be filled in as completely as possible, including references, test methods, analytical methods, Chemical Abstracts Service (CAS) numbers, data quality ratings, normalization basis, etc.

Data Normalization

Methods for profile normalization should be clearly documented, and the rationale for selecting the normalization basis should be stated. Normalization of organic gas data should be mass specific (i.e. mass species/mass TOG; emission rate species/emission rate TOG). Volume carbon basis is not recommended because it is objective (assumptions are needed regarding the composition of unresolved species). Whenever possible, the total gas chromatography (GC)-elutable organic gases normalization basis should be used and documented.

Normalization of PM data should be size-specific. Ideally, the profile will be normalized on total PM (with a specified upper size limit), PM_{10} and $PM_{2.5}$. However, normalization based on other size fractions can also be accommodated in SPECIATE. The normalized mass can be measured or be the weighted sum of major chemical components (sulfate, nitrate, ammonium, soil elements with assumed or measured oxides, organic carbon, elemental carbon, and sea salt). Profiles normalized on total gravimetric mass are preferred; however, if the sum of measured species basis is used, this should be noted and the reasoning for selecting this method stated.

Speciation Data Quality

Recommendations for or against inclusion of profiles in SPECIATE will be based on the perceived overall quality of the profiles. There are no simple criteria that can be set to scrutinize speciation data for inclusion in the SPECIATE 4.0 database. The supporting information housed within SPECIATE is therefore critically important. The SPECIATE 4.0 database provides structure sufficient to thoroughly document profiles and their underlying analysis, and should be completed as thoroughly as possible when preparing profiles for potential inclusion in the database.

Each profile has a quality rating that is assigned by the profile developer. The quality rating protocol is completely documented in the final report for SPECIATE 4.0. Speciation profiles developed from the following methods should be given a lower data quality rating:

1. Samples from combustion sources not collected by dilution sampling;
2. Low total speciated percentage (less than 80%);
3. PM profiles normalized by the "sum of species" mass, which assumes profiles of this type are fully speciated; and
4. Any noticeable outliers or other unreasonable test results (see examples provided below).

Additional profile quality considerations include:

- **Appropriate Method** – Reviewers experienced in analytical methods and application of speciation profiles will need to determine if characteristic compounds are present and properly measured. Sampling and analytical procedures need to be specific to the source and documented as thoroughly as possible. For example, the EPA Method TO-14 is not an appropriate method for dairy farm emission speciation. Since this method was developed to test industrial sources, fatty acids and other important organic species were not included in the target species list.

- **Measurement Precision** – Low precision is expected for certain species; the data quality ratings should reflect this issue. In cases where the sampling or analytical methods are found to be wholly inappropriate for a given species, these data should not be included in SPECIATE. For example, the wet chemistry using 2,4-Dinitrophenylhydrazine sampling procedure is not appropriate for acrolein measurement due to its poor recovery according to a study by California Air Resources Board (CARB) (Halm, 2003).

- **Overall Test Program Confidence** – Results obtained from the test program should be consistent with expectations for that source, and if not, the differences should be sufficiently accounted for. For example, in an U.S. Air Force sponsored study (AFIERA/RSEQ, 1998) measuring aircraft exhaust compositions, a brief discussion in the measurement section showed that the contractor measured essentially the same concentrations of target compounds in the background air as in the samples collected from aircraft exhaust. As a result, toxic species were reported at relatively low emission rates in this study. In cases where there are significant unexplainable results, the data should not be included in the SPECIATE database.

- **Source Category-specific Considerations** – For certain source categories such as the pulp and paper industry, oxygenated compounds contribute significantly to organic gas emissions. The generic total hydrocarbon (THC) method using flame ionization detectors (FID) calibrated with hydrocarbon standards (e.g. hexane) does not properly characterize the total TOG or VOC emissions. For processes whose emissions are dominated by methanol, this compound (and other oxygenated species) should be sampled and quantified separately using GC calibrated with a methanol standard (see Someshwar, 2003). Due to poor detector performance, the emission rates measured for THC were observed to be less than those measured specifically for methanol using an appropriate standard. Consequently, for this case, the THC is not suitable to serve as the normalization basis for this gas profile. The solution is to collect fully speciated data using appropriate methods and to consolidate all organic gases into a total organic gas profile for normalization.

References:

AFIERA/RSEQ, 1998. *Aircraft Engine and Auxiliary Power Unit Emissions Testing for the US Air Force*, Environmental Quality Management Inc, and Roy F. Weston Inc., December 1998.

EPA, 2002. *Draft Guidelines for the Development of Total Organic Compound and Particulate Matter Chemical Profiles*, developed by Emission Factors and Inventory Group, U.S. EPA, September 25, 2002.

Halm, 2003. Halm, C. of California Air Resources Board personal communication with Ying Hsu of E.H. Pechan & Associates, Inc., 2003.

Someshwar, 2003. Arun Someshwar, *Compilation of 'Air Toxic' and Total Hydrocarbon Emissions Data for Sources at Kraft, Sulfite and Non-Chemical Pulp Mills – an Update*, Technical Bulletin No. 858, National Council for Air and Stream Improvement, February, 2003.

Watson and Chow, 2002. Watson, J. and J. Chow, *Considerations in Identifying and Compiling PM and VOC Source Profiles for the SPECIATE Database*, Desert Research Institute, August, 2002.

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APPENDIX C. Speciation Profiles for Example Mixtures

Table C-1. New SPECIATE Profile #3141 for Mineral Spirits

Chemical Name	Weight Percent	CAS
METHYLCYCLOHEXANE	9.80	108872
N-HEPTANE	5.10	142825
N-UNDECANE	4.47	1120214
N-DECANE	4.34	124185
TOLUENE	4.15	108883
N-OCTANE	3.86	111659
ACETONE	3.48	67641
CIS-1,3-DIMETHYLCYCLOHEXANE	2.46	638040
ETHYL ALCOHOL	2.37	64175
2-METHYLHEPTANE	2.18	592278
2,6-DIMETHYLNONANE	1.40	17302282
3-METHYLHEPTANE	1.38	589811
1,2,4-TRIMETHYLBENZENE {1,3,4-TRIMETHYLBENZENE}	1.38	95636
1,2,4-TRIMETHYLCYCLOPENTANE	1.33	99073
2-METHYLHEXANE	1.29	591764
TRANS,TRANS-1,2,4-TRIMETHYLCYCLOHEXANE	1.21	1678804
N-NONANE	1.17	111842
1,2-DIMETHYLCYCLOPENTANE	1.15	2452995
N-BUTYL ACETATE	1.14	123864
M-XYLENE	1.12	108383
ETHYL PROPYLCYCLOHEXANES	1.10	90090
ETHYLCYCLOHEXANE	1.01	1678917
4-METHYLNONANE	0.94	17301949
METHYL AMYL KETONE	0.86	110430
TRANS-1,4-DIMETHYLCYCLOHEXANE	0.85	2207047
TRANS-1,3-DIMETHYLCYCLOHEXANE	0.83	2207036
2-METHYLDECANE	0.83	6975980
METHYL PROPYLCYCLOHEXANES	0.82	26967646
2,6-DIMETHYLHEPTANE	0.76	1072055
3-METHYLDECANE	0.75	13151343
CIS-1,CIS-3,5-TRIMETHYLCYCLOHEXANE	0.69	1795273
1,2,3-TRIMETHYLCYCLOPENTANE	0.68	99074
TRANS,CIS-1,2,4-TRIMETHYLCYCLOHEXANE	0.67	99075
1,1,3-TRIMETHYLCYCLOPENTANE	0.66	4516692
1,1,3-TRIMETHYLCYCLOHEXANE	0.65	3073663
4-METHYLDECANE	0.64	2847725
1,2,3-TRIMETHYLBENZENE	0.63	526738
TRANS,TRANS-1,3,5-TRIMETHYLCYCLOHEXANE	0.63	99076
5-METHYLDECANE	0.63	13151354
4-METHYLHEPTANE	0.60	589537
BUTYLCYCLOHEXANE	0.58	1678939
N-DODECANE	0.57	112403

Table C-1 (continued)

Chemical Name	Weight Percent	CAS
2-METHYLNONANE	0.56	871830
ETHYLCYCLOPENTANE	0.56	1640897
TRANS-1,3-DIMETHYLCYCLOPENTANE	0.54	1759586
2,6-DIMETHYLOCTANE	0.54	2051301
5-METHYLINDAN	0.52	874351
1-METHYL-4N-PROPYLBENZENE	0.51	1074551
2,3-DIMETHYLOCTANE	0.49	7146603
BUTYL CELLOSOLVE {2-BUTOXYETHANOL} {EGBE}	0.48	111762
2,4-DIMETHYLHEXANE	0.45	589435
1-METHYL-4-ETHYLBENZENE	0.45	622968
4-METHYLOCTANE	0.45	2216344
2,5-DIMETHYLHEPTANE	0.44	2216300
3,7-DIMETHYLNONANE	0.44	17302328
CIS-1-ETHYL-3-METHYLCYCLOHEXANE	0.44	19489102
ETHYLBENZENE	0.43	100414
PROPYLCYCLOHEXANE	0.43	1678928
CIS-1,3-DIMETHYLCYCLOPENTANE	0.41	2532583
1-METHYLINDAN	0.41	767588
1-METHYL-3-ISOPROPYLBENZENE	0.41	535773
3-METHYLOCTANE	0.40	2216333
1,2,3-TRIMETHYLCYCLOHEXANE	0.40	1678973
OTHER C12	0.39	99035
METHYL ALCOHOL	0.37	67561
1-METHYL-2-ETHYLBENZENE	0.37	611143
2,5-DIMETHYLNONANE	0.37	17302271
P-XYLENE	0.35	106423
1-METHYL-3-ISOPROPYLCYCLOHEXANE	0.35	99040
1,2-DIMETHYL-4-ETHYLBENZENE	0.34	934805
3-METHYLNONANE	0.33	5911046
1-METHYL-3-ETHYLBENZENE	0.33	620144
O-XYLENE	0.32	95476
2,3-DIMETHYLHEXANE	0.32	584941
PENTYLCYCLOPENTANE	0.32	3741002
1-METHYL-2-ISOPROPYLCYCLOHEXANE	0.32	99041
3-ETHYLHEXANE	0.32	619998
2-METHYLOCTANE	0.31	3221612
OTHER C9	0.30	99032
ISOBUTYLCYCLOHEXANE	0.30	1678984
2-METHYLUNDECANE {ISODODECANE}	0.30	7045718
ISOPROPYLCYCLOHEXANE	0.29	696297
1,2,3,5-TETRAMETHYLBENZENE	0.29	527537
CIS,TRANS-1,2,4-TRIMETHYLCYCLOHEXANE	0.28	99079
1,3-DIMETHYL-2-ETHYLBENZENE	0.26	2870044
2,6-DIMETHYLDECANE	0.26	13150817
1,3-DIMETHYL-5-ETHYLBENZENE	0.26	934747
1,1-DIMETHYLCYCLOHEXANE	0.26	590669

Table C-1 (continued)

Chemical Name	Weight Percent	CAS
NAPHTHALENE	0.25	91203
ISOPROPYLBENZENE (CUMENE)	0.24	98828
DIETHYLCYCLOHEXANE	0.24	98062
2,4-DIMETHYLHEPTANE	0.23	2213232
TRANS-1-ETHYL-3-METHYLCYCLOHEXANE	0.23	99080
1,1,2-TRIMETHYLCYCLOPENTANE	0.22	4259001
1,2,4,5-TETRAMETHYLBENZENE	0.22	95932
1,4-DIMETHYL-2-ETHYLBENZENE	0.21	1758889
PENTYLCYCLOHEXANE	0.21	4292926
TRANS-1-ETHYL-4-METHYLCYCLOHEXANE	0.21	99082
INDAN	0.20	496117
3-ETHYL-2-METHYLHEPTANE	0.19	14676290
4,5-DIMETHYLOCTANE	0.19	15869962
1,1,3,4-TETRAMETHYLCYCLOHEXANE	0.18	99043
6-ETHYL-2-METHYLOCTANE	0.18	99044
3-PHENYLPENTANE	0.18	1196583
6-METHYLUNDECANE	0.18	99045
2,3-DIMETHYLPENTANE	0.17	565593
1-ETHYL-2-METHYLCYCLOPENTANE	0.17	99083
1-ETHYL-3-METHYLCYCLOPENTANE	0.17	99048
1,2-DIMETHYL-3-ETHYLCYCLOHEXANE	0.17	99046
CYCLOHEXANE	0.16	110827
3-ETHYLHEPTANE	0.16	15869804
4-ETHYLDECANE	0.16	99049
CIS-1,4-DIMETHYLCYCLOHEXANE	0.16	624293
OTHER C10	0.16	99033
3-METHYLHEXANE	0.15	589344
1-ETHYL-4-ISOPROPYLBENZENE	0.15	4218488
CIS-BICYCLO[4.3.0]NONANE	0.15	4551513
3,4-DIMETHYLHEXANE	0.15	583482
1,1,4-TRIMETHYLCYCLOHEXANE	0.15	7094271
1,3-DIMETHYL-4-ETHYLBENZENE	0.14	874419
OTHER C11	0.14	99034
3-ETHYL-3-METHYLOCTANE	0.14	99051
2-METHYLDECALIN	0.14	99050
3,6-DIMETHYLOCTANE	0.13	15869940
TRANS-1-ETHYL-2-METHYLCYCLOHEXANE	0.13	4923788
(2-METHYLBUTYL)CYCLOHEXANE	0.13	99052
1,2-DIETHYL-1-METHYLCYCLOHEXANE	0.13	99053
CIS,CIS-1,2,4-TRIMETHYLCYCLOHEXANE	0.13	99054
3-METHYLUNDECANE	0.13	1002433
1,3,5-TRIMETHYLBENZENE	0.12	108678
2,2,5-TRIMETHYLHEXANE	0.12	3522949
3,5-DIMETHYLOCTANE	0.12	15869939
4-METHYLUNDECANE	0.12	2980690
(1-METHYLPROPYL)BENZENE	0.11	135988

Table C-1 (continued)

Chemical Name	Weight Percent	CAS
5-METHYLUNDECANE	0.11	1632708
HEXYLCYCLOPENTANE	0.11	99057
5-ISOPROPYLNONANE	0.11	99056
2-ETHYL-1,3-DIMETHYLCYCLOHEXANE	0.11	99055
3,4-DIMETHYLOCTANE	0.11	15869928
3-ETHYLOCTANE	0.11	5881174
CIS-1,2-DIMETHYLCYCLOHEXANE	0.10	2207014
1,1-DIMETHYLCYCLOPENTANE	0.10	1638262
2,3,4-TRIMETHYLPENTANE	0.09	565753
2-METHYL-3-ETHYLPENTANE	0.09	609267
CIS,TRANS-1,2,3-TRIMETHYLCYCLOHEXANE	0.09	20348725
2,6-DIMETHYLUNDECANE	0.09	17301234
4-METHYLINDAN	0.09	824226
2,4-DIMETHYLPENTANE	0.08	108087
PROPYLCYCLOPENTANE	0.08	2040962
2,7-DIMETHYLOCTANE	0.08	1072168
1,1-DIMETHYL-2-PROPYLCYCLOHEXANE	0.08	99059
1-ETHYL-2,2,6-TRIMETHYLCYCLOHEXANE	0.08	99060
1,1-METHYLETHYLCYCLOPENTANE	0.07	16747505
1,1,2-TRIMETHYLCYCLOHEXANE	0.07	7094260
1-ETHYL-1,2-DIMETHYLCYCLOHEXANE	0.07	99061
TRANS-1,2-DIMETHYLCYCLOHEXANE	0.07	6876239
1,1,2,3-TETRAMETHYLCYCLOHEXANE	0.06	99062
3,3,5-TRIMETHYLHEPTANE	0.06	7154805
2,4-DIMETHYLNONANE	0.06	17302248
CIS-DECALIN	0.06	493016
1-ETHYL-2,4-DIMETHYLCYCLOHEXANE	0.06	99063
1-METHYL-4-ISOBUTYLBENZENE	0.06	99064
N-TRIDECANE	0.05	629505
3-ETHYLDECANE	0.05	17085960
CIS-1-ETHYL-2-METHYLCYCLOHEXANE	0.05	4923777
CIS-1-ETHYL-4-METHYLCYCLOHEXANE	0.05	3728561
CIS-BICYCLO[3.3.0]OCTANE	0.05	694724
4,5-DIMETHYLDECANE	0.05	99066
1,3-DIMETHYL-4-ISOPROPYLBENZENE	0.05	99065
1-METHYL-4-ISOPROPYLBENZENE	0.05	99876
N-PROPYLBENZENE	0.05	103651
2-METHYLNAPHTHALENE	0.04	91576
2,2,3,3-TETRAMETHYLPENTANE	0.04	7154792
CIS-1-ETHYL-2-METHYLCYCLOPENTANE	0.04	930892
OTHER C13	0.04	99037
2,5-DIMETHYLHEXANE	0.03	592132
1-METHYL-3-BUTYLBENZENE	0.03	99084
2,2-DIMETHYLHEPTANE	0.03	1071267
METHYL ISOBUTYL KETONE	0.03	108101
2,7-DIMETHYLDECANE	0.03	99067

Table C-1 (continued)

Chemical Name	Weight Percent	CAS
3,5-DIMETHYLNONANE	0.03	99068
2,3-DIMETHYLHEPTANE	0.03	3074713
OTHER C8	0.03	99031
N-BUTYL ALCOHOL	0.02	71363
3-ETHYL-4-METHYLHEPTANE	0.02	52896910
2,3,5-TRIMETHYLHEPTANE	0.02	20278857
1,1,3,5-TETRAMETHYLCYCLOHEXANE	0.02	4306654
HEXYLCYCLOHEXANE	0.02	4292755
TRANS-1-ETHYL-3-METHYLCYCLOPENTANE	0.02	99085
CIS-1-ETHYL-3-METHYLCYCLOPENTANE	0.02	99071
1,2,3-TRIMETHYL-4-ETHYLBENZENE	0.02	99070
OTHER C14	0.02	99038
STYRENE	0.02	100425
2,5-DIMETHYLOCTANE	0.02	15869893
METHYLCYCLOPENTANE	0.01	96377
2,4-DIMETHYLOCTANE	0.01	4032944
METHYL ETHYL KETONE (MEK) (2-BUTANONE)	0.01	78933
1-METHYL-4-ISOPROPYLCYCLOHEXANE	0.01	99821
METHYL PENTYLCYCLOHEXANE	0.01	99072

Table C-2. New SPECIATE Profile #4439 for Xylene Mixtures

Chemical Name	Weight Percent	CAS
M-XYLENE	44.63	108383
O-XYLENE	19.82	95476
P-XYLENE	19.35	106423
ETHYL BENZENE	15.45	100414
TOLUENE	0.21	108883
1-ETHYL-3-METHYL BENZENE	0.15	620144
PROPYL BENZENE	0.15	98828
ISOPROPYL BENZENE	0.08	103651
1,2,4-TRIMETHYL BENZENE	0.06	95636
1-ETHYL-4-METHYL BENZENE	0.05	622968
1,3,5-TRIMETHYL BENZENE	0.03	108678
1-ETHYL-2-METHYL BENZENE	0.02	611143

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APPENDIX D. Semi-Volatile Organic Compound Partitioning Factors and Methodology Applied to Prepare Mobile Source Exhaust Profiles in the SPECIATE Database

MEMORANDUM

Date: September 3rd, 2007

To: Lee Beck, U.S. Environmental Protection Agency, Office of Research and Development

From: Ying Hsu, Ph.D. and Frank Divita Jr., Ph.D., E.H. Pechan & Associates, Inc.

Subject: Semi-volatile Organic Compound Partitioning Factors and Methodology Applied to Prepare Mobile Source Exhaust Profiles in the SPECIATE Database

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Introduction

This memorandum describes a method to allocate speciated semi-volatile organic compounds (SVOC) into estimates of particulate matter (PM) and organic gas phases. This procedure is required in order to convert SVOC emissions provided in speciation data into weight percent profiles.

Mobile source emission measurement studies frequently collect and analyze SVOC species in one sample. However, there is a need to separate their relative emissions because the current SPECIATE database defines speciation profiles as either PM or organic gas weight percent source profiles. The purpose of the memorandum is to propose a method to distribute measured SVOC species emission rates into PM and gas phases so that they can be normalized by particle and volatile organic compound1 (VOC) emission rates and used in SPECIATE.

Methodology

To the best of Pechan's knowledge, after thorough literature review, there is only one motor vehicle study (Schauer et al., 1999) that comprehensively speciated diesel exhaust in PM and organic gas phases separately. Pechan proposes to apply the partitioning factors presented in the Schauer study to split SVOC species into PM and gas phases. For example, based on the Schauer's study (see Table 1), naphthalene (CAS # 91-20-3) is 100 percent gas phase under ambient condition, hexadecylcyclohexane (CAS # 6812-38-0) is entirely in the PM phase, and phenanthrene (CAS # 85-01-8) partitions 34 percent and 66 percent in PM and gas phase, respectively. For motor vehicle exhaust speciation data that measured SVOC that combined both

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1The normalization basis can also be total organic gas (TOG) or non-methane organic gas (NMOG).

PM and organic gas phases, Pechan will apply the partitioning factors in Table E-1 to allocate SVOC mass into in PM and gas phases.

For example, when a study presents 0.67 mg/mile of naphthalene emission in both PM and gas phases, this emission rate is assumed to be entirely in gas phase and divided by organic gas mass emission rate and included in the associated organic gas profile. For phenanthrene, assuming the total emission rate is 0.0172 mg/mile, 34 percent of it (0.0059 mg/mile) is allocated in PM phase and 66 percent (or 0.0113 mg/mile) is in organic gas phase. These emission rates are then normalized by the associated PM and organic gas mass emissions, respectively.

Pechan understands partitioning factors are not universal and vary by sampling conditions (e.g., temperature, pressure). However, there are no better known protocols to allocate speciated SVOC emissions into PM and gas phases, once they are measured together. And, including SVOC species entirely in either PM phase or organic gas phase does not appropriately characterize motor vehicle emissions. For example, according to Schauer, et al. (1999), naphthalene is mostly in gas phase under ambient condition but it was estimated relative to PM emissions in an official mobile source emissions module. This is considered not appropriate since naphthalene is mostly in gas phase and not relevant to PM emissions.

Note: For integrity of this memorandum, excerpts from the Schauer, et al. (1999) study are briefly presented below. For complete details of this study, please consult the original reference below.

Excerpt from Mid-duty Diesel Exhaust Speciation Study by Schauer, et al. (1999)

Both gas- and particle-phase tailpipe emissions from medium duty diesel trucks were quantified using a two-stage dilution source sampling system. Tests were conducted in 1996 from in-use vehicle fleet in southern California and were fueled with commercially obtained California reformulated diesel fuel. The first vehicle tested was a 1995 model year Isuzu intercooled turbo diesel truck with a 3.8-L, four-cylinder engine. The second vehicle was a GMC Vandura 3500 full-sized commercial van with a 6.5-L, eight-cylinder diesel engine. The Isuzu truck and the GMC van had accumulated 39,993 miles and 30,560 miles of driving, respectively, prior to being tested.

Due to vehicle testing facility operating procedures, the diesel trucks could not be moved onto the dynamometer directly from cold storage. The truck had to be driven onto the dynamometer, which entailed first starting the engine, so the diesel trucks had to be tested with a hot-start Federal Test Procedure (FTP) cycle. Prior to the start of each source test, the truck tested was warmed on the dynamometer for approximately 10 minutes. The engine was then shut off, and the truck tailpipe was connected to the source sampler. The flows through the source samplers were established, and the truck was started and driven over the first two segments of the FTP dynamometer cycle.

The diesel trucks were driven through the hot-start FTP urban driving cycle on a transient chassis dynamometer. Emission rates of 52 gas-phase volatile hydrocarbons, 67 semivolatile and 28 particle-phase organic compounds, and 26 carbonyls were quantified along with fine particle mass and chemical composition. When all C1-C13 carbonyls were combined, they accounted for 60 percent of the gas phase organic compound mass emissions. Fine particulate matter emission rates and chemical composition were quantified simultaneously by two methods: a denuder/filter/PUF sampler and a traditional filter sampler. Both sampling techniques yielded the same elemental carbon emission rate of 56 mg/km driven, but the particulate organic carbon emission rate determined by the denuder-based sampling technique was found to be 35 percent lower than the organic carbon mass collected by the traditional filter-based sampling technique due to a positive vapor-phase sorption artifact that affected the traditional filter sampling technique. The distribution of organic compounds in the diesel fuel used in this study was compared to the distribution of these compounds in the vehicle exhaust. Significant enrichment in the ratio of unsubstituted polycyclic aromatic hydrocarbons (PAH) to their methyl- and dimethyl-substituted homologues was observed in the tailpipe emissions relative to the fuel. Isoprenoids and tricyclic terpanes were quantified in the semivolatile organics emitted from diesel vehicles. When used in conjunction with data on the hopanes, steranes, and elemental carbon emitted, the isoprenoids and the tricyclic terpanes may help trace the presence of diesel exhaust in atmospheric samples.

Reference

Schauer, et al., 1999: Schauer, J.J., M.J. Kleeman, G.R. Cass, and B.R.T. Simoneit, “Measurement of Emissions from Air Pollution Sources, 2. C1-C30 Organic Compounds from Medium Duty Diesel Trucks,” Environmental Science and Technology, vol. 33, no. 10, pp. 1578-1587, 1999.

Table D-1. Average Emission Rates (µg/km) and Distribution of Organic Species in Medium Duty Diesel Truck Exhaust

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
1623	174.19	Octanedioic acid	505-48-6		138	0	1
936	188.22	Azelaic acid-TMS	123-99-9		176	0	1
1720	228.29	C1-MW 228 PAH			6.54	0	1
1620	270.45	Heptadecanoic acid	506-12-7		22.3	0	1
966	284.48	Stearic acid-TMS	57-11-4		362	0	1
959	298.50	Nonadecanoic acid-TMS	646-30-0		5.7	0	1
1730	308.59	Hexadecylcyclohexane	6812-38-0		12.9	0	1
1596	310.60	N-docosane	629-97-0		52.0	0	1
944	312.53	Eicosanoic acid-TMS	506-30-9		14.2	0	1
1731	322.62	Heptadecylcyclohexane	19781-73-8		16.7	0	1
1597	324.63	n-Tricosane	638-67-5		45.5	0	1
1732	336.64	octadecylcyclohexane	4445-06-1		11.5	0	1
1598	338.65	n-Tetracosane	646-31-1		40.7	0	1
1733	350.66	Nonadecylcyclohexane	22349-03-7		9.0	0	1
1599	352.68	n-Pentacosane	629-99-2		26.1	0	1
1600	366.71	N-hexacosane	630-01-3		34.9	0	1
1738	370.66	17 α(H)-22, 29, 30-trisnorhopane	53584-59-1		0.99	0	1
1846	370.66	18 α(H)-22, 29, 30- trisnorneohopane	55199-72-9		2.74	0	1
1736	372.68	20S-13β(H),17 α(H)-diacholestane	56975-84-9		1.37	0	1
1601	380.73	N-heptacosane	593-49-7		25.7	0	1
1602	394.76	n-octacosane	630-02-4		19.7	0	1
1725	398.72	17α(H), 21β(H),29-norhopane	53584-60-4		11.3	0	1
1603	408.79	n-Nonacosane	630-03-5		6.1	0	1
1726	412.74	17α(H), 21β(H)-hopane	13849-96-2		11.4	0	1
1744		20R&S-5 α(H), 14β(H), 17β(H)-ergostane			3.15	0	1
1745		20R&S-5 α(H), 14β(H), 17β(H)-sitostane			2.61	0	1

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
1743		20R-5α(H),14α(H),17α(H)-cholestane			1.19	0	1
1741		20R-5α(H),14β(H),17β(H)-cholestane			0.78	0	1
2336	228.29	Chrysene & Triphenylene	218-01-9; 217-59-4	3.35	15.6	0.177	0.823
1172	226.27	Benzo[ghi]fluoranthene	203-12-3	5.82	19.8	0.227	0.773
854	228.29	Benz(a)anthracene	56-55-3	2.98	7.76	0.277	0.723
1703	216.28	C1-MW 202 PAH		39.0	81.0	0.325	0.675
1173	228.29	Cyclopenta[cd]pyrene	27208-37-3	2.06	3.50	0.371	0.629
1702	202.25	Acephenanthrylene	201-06-9	12.0	16.2	0.426	0.574
1883	180.25	Methyl fluorene	26914-17-0	65.2	83.0	0.440	0.560
904	202.25	Pyrene	129-00-0	71.9	88.5	0.448	0.552
882	202.25	Fluoranthene	206-44-0	53.0	56.6	0.484	0.516
886	192.26	1-methylphenanthrene	832-69-9	17.0	17.8	0.489	0.511
1707	184.28	C4-naphthalenes		97.3	98.6	0.497	0.503
1701	220.31	C3-MW 178 PAH		97.4	97.5	0.500	0.500
1698	192.26	2-methylanthracene	613-12-7	10.4	10.4	0.500	0.500
1697	192.26	3-methylphenanthrene	832-71-3	30.3	29.4	0.508	0.492
1699	192.26	9-methylphenanthrene	883-20-5	22.9	22.0	0.510	0.490
852	178.23	Anthracene	120-12-7	12.5	10.9	0.534	0.466
889	192.26	2-methylphenanthrene	2531-84-2	42.0	35.6	0.541	0.459
1708	294.56	N-Pentadecylcyclohexane	6006-95-7	12.8	9.88	0.564	0.436
1595	296.57	N-heneicosane	629-94-7	65.8	40.5	0.619	0.381
1706	170.25	C3-naphthalenes		240	130	0.649	0.351
902	178.23	Phenanthrene	85-01-8	93.1	47.0	0.665	0.335
1042	282.55	Eicosane	112-95-8	206	95.7	0.683	0.317
1845	332.61	8β,13α-dimethyl-14β- [3'-methylbutyl]-podocarpane		13.8	4.50	0.754	0.246
1700	206.28	C2-MW 178 PAH		196	57.2	0.774	0.226
881	180.20	9-fluorenone	486-25-9	34.6	9.84	0.779	0.221
883	166.22	Fluorene	86-73-7	34.6	9.5	0.785	0.215

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
1718	266.51	tridecylcyclohexane	6006-33-3	16.5	4.34	0.792	0.208
1843	280.53	Tetradecylcyclohexane	1795-18-2	15.9	3.96	0.801	0.199
1709	137.19	8β,13α-dimethyl-14β-n-butylpodocarpane		44.0	10.6	0.806	0.194
873	168.19	Dibenzofuran	132-64-9	28.7	6.0	0.827	0.173
1729	136.15	Methylbenzoic acid	12167-74-7	772	26.7	0.967	0.033
1045	226.44	Hexadecane	544-76-3	711	8.62	0.988	0.012
1043	240.47	Heptadecane	629-78-7	614	5.92	0.990	0.010
1690	212.41	2,6,10-Trimethyldodecane (farnesane)	3891-98-3	434	4.1	0.991	0.009
1047	268.52	Nonadecane	629-92-5	411	3.82	0.991	0.009
1693	226.44	Norpristane	3892-00-0	566	4.9	0.991	0.009
1049	212.41	Pentadecane	629-62-9	398	2.12	0.995	0.005
1602	394.76	n-octacosane	630-02-4	601	2.84	0.995	0.005
1692	226.44	2,6,10-trimethyltridecane	3891-99-4	367	1.2	0.997	0.003
282	26.04	Acetylene	74-86-2	4600		1	0
452	28.05	Ethylene	74-85-1	8560		1	0
465	30.03	Formaldehyde	50-00-0	22300		1	0
678	42.08	Propylene	115-07-1	780		1	0
279	44.05	Acetaldehyde	75-07-0	41800		1	0
46	54.09	1,3-butadiene	106-99-0	310		1	0
283	56.06	Acrolein (2-propenal)	107-02-8	3400		1	0
367	56.11	Cis-2-butene	590-18-1	260		1	0
497	56.11	Isobutylene	115-11-7	1140		1	0
737	56.11	Trans-2-butene	624-64-6	520		1	0
839	58.04	Glyoxal	107-22-2	2100		1	0
673	58.08	Propionaldehyde	123-38-6	14000		1	0
592	58.12	N-butane	106-97-8	3830		1	0
391	68.12	Cyclopentene	142-29-0	210		1	0
382	70.09	Crotonaldehyde	4170-30-3	13400		1	0
188	70.09	2-methyl-2-propenal	78-85-3	4000		1	0
181	70.13	2-methyl-1-butene	563-46-2	260		1	0
230	70.13	3-methyl-1-butene	563-45-1	160		1	0
390	70.13	Cyclopentane	287-92-3	410		1	0

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
742	70.13	Trans-2-pentene	646-04-8	50		1	0
1464	72.06	Methylglyoxal	78-98-8	1700		1	0
313	72.11	Butyraldehyde (butanal)	123-72-8	1300		1	0
536	72.11	Methyl ethyl ketone (2-butanone)	78-93-3	7500		1	0
508	72.15	Isopentane	78-78-4	2740		1	0
605	72.15	N-pentane	109-66-0	1860		1	0
302	78.11	Benzene	71-43-2	2740		1	0
187	84.16	2-methyl-2-pentene	625-27-4	210		1	0
369	84.16	Cis-2-hexene	7688-21-3	100		1	0
385	84.16	Cyclohexane	110-82-7	210		1	0
551	84.16	Methylcyclopentane	96-37-7	620		1	0
740	84.16	Trans-2-hexene	4050-45-7	160		1	0
1463	86.09	Biacetyl	431-03-8	900		1	0
122	86.18	2,2-dimethylbutane	75-83-2	310		1	0
136	86.18	2,3-dimethylbutane	79-29-8	570		1	0
199	86.18	2-methylpentane	107-83-5	930		1	0
248	86.18	3-methylpentane	96-14-0	670		1	0
717	92.14	Toluene	108-88-3	3980		1	0
550	98.19	Methylcyclohexane	108-87-2	520		1	0
840	100.16	Hexaldehyde	66-25-1	2200		1	0
140	100.20	2,3-dimethylpentane	565-59-3	720		1	0
152	100.20	2,4-dimethylpentane	108-08-7	410		1	0
194	100.20	2-methylhexane	591-76-4	570		1	0
245	100.20	3-methylhexane	589-34-4	310		1	0
600	100.20	N-heptane	142-82-5	470		1	0
301	106.12	Benzaldehyde	100-52-7	3800		1	0

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
449	106.17	Ethylbenzene	100-41-4	470		1	0
522	106.17	M-xylene & p-xylene	108-38-3; 106-42-3	2330		1	0
620	106.17	O-xylene	95-47-6	830		1	0
1018	114.19	Heptanal	111-71-7	3200		1	0
118	114.23	2,2,4-trimethylpentane	540-84-1	1240		1	0
130	114.23	2,3,4-trimethylpentane	565-75-3	310		1	0
138	114.23	2,3-dimethylhexane	584-94-1	160		1	0
149	114.23	2,4-dimethylhexane	589-43-5	50		1	0
156	114.23	2,5-dimethylhexane	592-13-2	50		1	0
193	114.23	2-methylheptane	592-27-8	100		1	0
226	114.23	3-ethylhexane	619-99-8	210		1	0
604	114.23	N-octane	111-65-9	260		1	0
1013	118.13	2,3-benzofuran	271-89-6	53.2		1	0
976	120.15	Acetophenone	98-86-2	5100		1	0
30	120.19	1,2,4-trimethylbenzene (1,3,4-trimethylbenzene)	95-63-6	880		1	0
44	120.19	1,3,5-trimethylbenzene	108-67-8	260		1	0
89	120.19	1-Methyl-3-ethylbenzene	620-14-4	210		1	0
608	120.19	N-propylbenzene	103-65-1	100		1	0
94	120.19	1-Methyl-4-ethylbenzene	622-96-8	520		1	0
937	122.12	Benzoic acid-TMS	65-85-0	1260		1	0
611	128.17	Naphthalene	91-20-3	617		1	0
1065	128.21	Octanal	124-13-0	3100		1	0
603	128.26	N-nonane	111-84-2	160		1	0
1713	132.16	1-Indanone	83-33-0	69.5		1	0
1712	134.18	2,5-Dimethylbenzaldehyde	5779-94-2	4100		1	0
105	142.20	1-Methylnaphthalene	90-12-0	378		1	0
196	142.20	2-methylnaphthalene	91-57-6	611		1	0
1057	142.24	Nonanal	124-19-6	4400		1	0

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
1617	144.21	Octanoic acid	124-07-2	125		1	0
847	152.19	Acenaphthylene	208-96-8	70.1		1	0
846	154.21	Acenaphthene	83-32-9	19.3		1	0
657	154.29	Pentylcyclohexane	4292-92-6	83.9		1	0
1801	156.22	C2-Naphthalenes		542		1	0
997	156.27	Decanal	112-31-2	2800		1	0
1618	158.24	Nonanoic acid	112-05-0	240		1	0
480	168.32	Hexylcyclohexane	4292-75-5	14.9		1	0
1658	170.29	Undecanal	112-44-7	2600		1	0
599	170.33	N-dodecane	112-40-3	503		1	0
941	172.26	Decanoic acid-TMS	334-48-5	72.9		1	0
1840	182.35	Heptylcyclohexane	5617-41-4	20.0		1	0
1714	184.26	Dibenzothiophene	132-65-0	1.98		1	0
1659	184.32	Dodecanal	112-54-9	1200		1	0
609	184.36	N-tridecane	629-50-5	477		1	0
1619	186.29	Undecanoic acid	112-37-8	206		1	0
909	196.20	Xanthone	90-47-1	12.4		1	0
1841	196.37	Octylcyclohexane	1795-15-9	26.2		1	0
1660	198.34	Tridecanal	10486-19-8	2000		1	0
1051	198.39	Tetradecane	629-59-4	629		1	0
1691	198.39	Norfarnesane	6864-53-5	360		1	0
954	200.32	Lauric acid-TMS, or dodecanoic acid	143-07-7	58.5		1	0
1694	210.40	N-Nonylcyclohexane	2883-02-5	24.7		1	0
970	214.34	Tridecanoic acid-TMS	638-53-9	13.1		1	0
1695	224.43	Decylcyclohexane,	1795-16-0	38.2		1	0
958	228.37	Myristic acid-TMS, or n-Tetradecanoic Acid	544-63-8	5.3		1	0
1716	238.45	Undecylcyclohexane	54105-66-7	23.9		1	0
1717	252.48	Dodecylcyclohexane	1795-17-1	16.8		1	0
1704	268.53	Pristane	1921-70-6	443		1	0

Species ID	Molecular Weight	Chemical Name	CAS	Gas Phase (µg/km)	Particle Phase (µg/km)	Mass Fraction in Gas	Mass Fraction in PM
1705	282.55	Phytane	638-36-8	439		1	0
2337	332.50	2,2'-Dithiobisbenzothiazole	120-78-5	251		1	0