City of Albuquerque
Information Technology Services Division
Data Management

Data.cabq.gov Core Metadata Requirements

Contact Information

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What Does this Dataset Describe?

Dataset Title	Vehicle emissions database
Short Description	Vehicle emissions database
Full Non-Technical Description	
The City of Albuquerque Environmental Health Department Vehicle Pollution Management Program manages the vehicle emissions program for Bernalillo County. The program includes an emissions database that records every emissions test from all analyzers in the program. The emissions testing program is required in Bernalillo County on every vehicle subject to the program in order to register with MVD.	

How Should this Dataset be Cited?

Current Year
http://data.cabq.gov/airquality/vehicleemissions/VehicleEmissionsCY_CABQ-en-us.csv

Prior Year
http://data.cabq.gov/airquality/vehicleemissions/prioryears/VehicleEmissionsccyy_CABQ-en-us.csv
where ccyy is full year the data represents. cc = century, yy = year

Does the Dataset Reflect a Particular Time Period?

Start Date	2/6/2004 10:05:00
End Date	Current
Dataset Refresh Interval	Nightly
Dataset Expiration Date	None

Dataset Review Date	As Needed
Comments	
The database is refreshed nightly, is used daily, and does not expire. Data provided is not quality assured and use of data is dependent on the end users knowledge.	

Dataset Definition/Format

Field Name	Format	Description
RecordID	Number	Unique Record ID for EIS SQL table, Long Integer
RECORD_NUM	Number	Unique Record ID for EIS table on analyzer, Long Integer
VIR_CERT_NUMBER	Text	Unique ID for VIR Certification Number, 8 Char.
STATION_NUM	Text	Unique Station ID number, 5 Character
ANALYZER_NUM	Text	Last 3 digits of analyzer serial number, 3 Character
INSPECTOR_NUM	Text	Unique ID for Inspector, 10 Character
TEST_TYPE	Text	I=Initial; A=After; R=Referee; T=Training, 1 Char.
VID_TEST_TYPE	Text	I=Initial; R=Retest; A=After; N=Not complete, 1Char
TEST_SDATE	Date/Time	Start of test date/time, MM/DD/YYYY HH:MM:SS.
TEST_EDATE	Date/Time	End of test date/time, MM/DD/YYYY HH:MM:SS.
VIN	Text	Vehicle Identification Number, 17 Char.
VIN_SOURCE	Text	VIN scanned or Manually entered, M or S, 1 Char.
VEH_LICENSE	Text	Vehicle License Plate Number, 8 Char.
GVW_TYPE	Text	Gross Vehicle Weight Class 1,2 or 3
GVWR	Number	Gross Vehicle Weight, 1 Char.
MODEL_YEAR	Number	Vehicle Model Year, 4 Char.
MAKE	Text	Vehicle Make, 17 Char.
MODEL	Text	Vehicle Model Name, 23 Char.
CYL	Text	Number of Cylinders on Engine, 2 Char.
ENGINE_SIZE	Number	Engine Size in cubic centimeters, cubic inches or liters, 4 Char.
TRANS_TYPE	Text	Transmission Type (A or M), 1 Char.

Field Name	Format	Description
DUAL_EXHAUST	Text	Dual Exhaust (Yes or No), 1 Char.
ODOMETER	Number	Odometer Reading, number of miles, 6 Char.
FUEL_TYPE	Text	Vehicle Fuel Type (G, D, X, E or B), 2 Char.
VEHICLE_TYPE	Number	Vehicle Type Classification (1,2,3,4,5,6,7) 1 Char
EMISS_COST	Text	Cost of Emissions Test, 5 Char.
ZIP_CODE	Text	Zip code of customer, 10 Character
CERTIFICATION	Text	Certification type (C or F), 1 Char.
ESC	Text	Emission Standard Category table row number cut points used on test, 2 Char.
VRT_RECORD_ID	Number	ID for Vehicle Reference Table, 6 Char.
E_TEST_SEQUENCE	Number	2 Speed Test Sequence (0,1) 1 Char.
E_PRECOND_PROCEDURE	Number	2 Speed Test Precondition Procedure for Second Chance Test (0, 1) 1 Num.
E_HIGH_DCF	Number	High RPM (2200 – 2800) Dilution Correction Factor, 1 Num.
E_HIGH_RPM	Number	High RPM (2200 – 2800) reading, 4 Num.
E_HIGH_CO2	Number	High RPM (2200 – 2800) CO2 reading, 4 Num.
E_HIGH_O2	Number	High RPM (2200 – 2800) O2 reading, 5 Num.
E_HIGH_HC	Number	High RPM (2200 – 2800) HC reading, 4 Num.
E_HIGH_HC_DCF	Number	High RPM (2200 – 2800) HC Dilution Correction Factor, 1 Num.
E_HIGH_HC_LIMIT	Number	High RPM (2200 – 2800) HC Limit (cutoff), 3 Num.
E_HIGH_CO	Number	High RPM (2200 – 2800) CO reading, 5 Num.
E_HIGH_CO_DCF	Number	High RPM (2200 – 2800) CO Dilution Correction Factor, 1 Num.
E_HIGH_CO_LIMIT	Number	High RPM (2200 – 2800) CO Limit (cutoff), 3 Num.
E_IDLE_DCF	Number	Idle RPM (450 – 1200) Dilution Correction Factor, 1 Num.
E_IDLE_RPM	Number	Idle RPM (450 – 1200) Reading, 4 Num.
E_IDLE_CO2	Number	Idle RPM (450 – 1200) CO2 Reading, 4 Num.
E_IDLE_O2	Number	Idle RPM (450 – 1200) O2 Reading, 5 Num.
E_IDLE_HC	Number	Idle RPM (450 – 1200) HC Reading, 4 Num.
E_IDLE_HC_DCF	Number	Idle RPM (450 – 1200) HC Dilution Correction

Field Name	Format	Description
		Factor, 1 Num
E_IDLE_HC_LIMIT	Number	Idle RPM (450 – 1200) HC Limit (cutoff), 3 Num.
E_IDLE_CO	Number	Idle RPM (450 – 1200) CO reading, 5 Num.
E_IDLE_CO_DCF	Number	Idle RPM (450 – 1200) CO Dilution Correction Factor, 1 Num.
E_IDLE_CO_LIMIT	Number	Idle RPM (450 – 1200) CO Limit (cutoff), 3 Num.
E_HIGH_DCF_2	Number	High RPM (2200 – 2800) Dilution Correction Factor Second Chance, 1 Num.
E_HIGH_RPM_2	Number	High RPM (2200 – 2800) Reading Second Chance, 5 Num.
E_HIGH_CO2_2	Number	High RPM (2200 – 2800) CO2 Reading Second Chance, 4 Num.
E_HIGH_O2_2	Number	High RPM (2200 – 2800) O2 Reading Second Chance, 5 Num.
E_HIGH_HC_2	Number	High RPM (2200 – 2800) HC Reading Second Chance, 4 Num.
E_HIGH_HC_DCF_2	Number	High RPM (2200 – 2800) HC Dilution Correction Factor Second Chance, 1 Num.
E_HIGH_CO_2	Number	High RPM (2200 – 2800) CO Reading Second Chance, 4 Num.
E_HIGH_CO_DCF_2	Number	High RPM (2200 – 2800) CO Dilution Correction Factor Second Chance, 1 Num.
E_IDLE_DCF_2	Number	Idle RPM (450 – 1200) Dilution Correction Factor Second Chance, 1 Num.
E_IDLE_RPM_2	Number	Idle RPM (450 – 1200) Reading Second Chance, 5 Num.
E_IDLE_CO2_2	Number	Idle RPM (450 – 1200) CO2 Reading Second Chance, 4 Num.
E_IDLE_O2_2	Number	Idle RPM (450 – 1200) O2 Reading Second Chance, 5 Num.
E_IDLE_HC_2	Number	Idle RPM (450 – 1200) HC Reading Second Chance, 4 Num.
E_IDLE_HC_DCF_2	Number	Idle RPM (450 – 1200) HC Dilution Correction Factor Second Chance, 1 Num.
E_IDLE_CO_2	Number	Idle RPM (450 – 1200) CO Reading Second Chance, 5 Num.

Field Name	Format	Description
E_IDLE_CO_DCF_2	Number	Idle RPM (450 – 1200) CO Dilution Correction Factor Second Chance, 1 Num.
E_RESULT_STRING	Text	2 Speed Overall Result (P=Pass, F=Fail) 1 Char.
V_SMOKE1	Text	Visual Smoke Check 1 (Pass or Fail) 1 Char.
V_SMOKE2	Text	Visual Smoke Check 2 (Pass or Fail) 1 Char.
V_GASCAP	Text	Visual Gas Cap Correct (Pass or Fail) 1 Char.
V_CAT	Text	Visual Catalytic Converter (Pass or Fail) 1 Char.
V_RESULT	Text	Overall Pass or Fail for Visual Tests (P=Pass, F=Fail) 1 Char.
KOEO_RESULT	Text	Key Off/Engine Off Result MIL Result (P=Pass, F=Fail) 1 Char.
KOER_RESULT	Text	Key On/Engine Running MIL Result (P=Pass, F=Fail) 1 Char.
OBD_RDY_MISFIRE	Text	OBDII Readiness Monitor Misfire Sensor (0,1,2,3,4,5) 1 Char.
OBD_RDY_FUEL	Text	OBDII Readiness Monitor Fuel System Monitoring Sensor (0,1,2,3,4,5) 1 Char.
OBD_RDY_COMPONENT	Text	OBDII Readiness Monitor Component (0,1,2,3,4,5) 1 Char.
OBD_RDY_CAT	Text	OBDII Readiness Monitor Catalyst (0,1,2,3,4,5) 1 Char.
OBD_RDY_CAT_HEATED	Text	OBDII Readiness Monitor Heated Catalyst (0,1,2,3,4,5) 1 Char.
OBD_RDY_EVAP	Text	OBDII Readiness Monitor Evaporative System (0,1,2,3,4,5) 1 Char.
OBD_RDY_SEC_AIR	Text	OBDII Readiness Monitor Secondary Air System (0,1,2,3,4,5) 1 Char.
OBD_RDY_AIR_COND	Text	OBDII Readiness Monitor AC System Refrigerant (0,1,2,3,4,5) 1 Char.
OBD_RDY_O2_SENSOR	Text	OBDII Readiness Monitor Oxygen Sensor (0,1,2,3,4,5) 1 Char.
OBD_RDY_O2_HEATER	Text	OBDII Readiness Monitor Oxygen Sensor Heater Monitoring (0,1,2,3,4,5) 1 Char.
OBD_RDY_EGR	Text	OBDII Readiness Monitor EGR System (0,1,2,3,4,5) 1 Char.

Field Name	Format	Description
OBD_RDY_RESULT	Text	OBDII Readiness Result (0,1,2,3,4,5) 1 Char.
OBD_PID	Text	OBDII Parameter ID Codes, 3 Char.
OBD_PCM_ID	Text	OBDII Powertrain Control Module ID, 3 Char.
OBD_VIN	Text	VIN Recorded by OBDII System, 17 1 Char.
OBD_FLT_CODES	Text	OBDII Fault Codes/Diagnostic Trouble Codes, 50 Characters Fixed Length List
OBD_FLT_RESULT	Text	OBDII Fault Codes Result (P=Pass, F=Fail) 1 Char.
OBD_MIL_STATUS	Text	OBDII Malfunction Indicator Lamp (0=On; 1=Off) 1 Char.
OBD_RESULT	Text	OBDII Result (P, F, C, N, A) 1 Char.
ONLINE_STATUS	Number	0=Online; 1=Offline, 1 Num.
OFFLINE_REASON_CODE	Number	Code for Reason Offline, 5 character
ABORT_CODE	Text	Reason/Code for Aborting Test, 2 character
SOFTWARE_VERSION	Text	Version of WEP New Mexico Software, 4 Char.
INSP_COMMENTS	Text	Inspector Comments, 50 character
OVERALL_RESULT	Text	Overall Result of Emission Test (P=Pass; F=Fail; A=Abort; O=Override) 1 Char.
R_TOTAL_COST	Text	Total Cost of Repairs, 5 Char.
R_EGR	Text	Repair EGR (Y=Repaired) 1 Char.
R_ELECTRICAL	Text	Repair Electrical (Y=Repaired) 1 Char.
R_EVAP_CONTROL	Text	Repair Evaporative System Control (Y=Repaired) 1 Char.
R_EXHAUST	Text	Repair Exhaust System (Y=Repaired) 1 Char.
R_IGNITION	Text	Repair Ignition System (Y=Repaired) 1 Char.
R_INTAKE	Text	Repair Intake System (Y=Repaired) 1 Char.
R_ENGINE	Text	Repair Engine (Y=Repaired) 1 Char.
R_PCV	Text	Repair PCV, (Y=Repaired) 1 Char.
R_OTHER	Text	Repair Other (Y=Repaired) 1 Char.
SentToWW	Number	Station Hardware Configuration Data Sent to Worldwide Flag (0=No, -1=Yes) 1 Num.
ABORT_CODE_OTHER_DESC	Text	Abort Code Other Description, 50 character
OBDII_AFFECT_OVERALL	Text	Determines if a failing OBDII test will cause the Overall Result to be a fail (Y=Yes, N=No) 1 Char.

Field Name	Format	Description
E_HIGH_CO_RESULT	Text	Overall Result High RPM (2200 – 2800) CO (P=Pass, F=Fail, N=Not Applicable) 1 Char.
E_HIGH_HC_RESULT	Text	Overall Result High RPM (2200 – 2800) CO HC (P=Pass, F=Fail, N=Not Applicable) 1 Char.
E_IDLE_CO_RESULT	Text	Overall Result for Idle RPM (450 – 1200) CO (P=Pass, F=Fail, N=Not Applicable) 1 Char.
E_IDLE_HC_RESULT	Text	Overall Result for Idle RPM (450 – 1200) HC (P=Pass, F=Fail, N=Not Applicable) 1 Char.
MECHANIC_LAST_NAME	Text	Inspector/Mechanic Last Name, 25 Char.
MECHANIC_FIRST_NAME	Text	Inspector/Mechanic First Name, 25 Char.
MECHANIC_MIDDLE_INIT	Text	Inspector/Mechanic Middle Initial, 1 Char.
ENGINE_SIZE_ORIG	Text	Engine Size Other manually entered by tech., 10 Char.
FAILED_IDLE_RPM	Text	Reading below Idle RPM (450 – 1200) range (T=True and F=False) 1 Char.
SENTTOVID	Number	Flag of individual record sent to VID (0=Yes and -1=No), 1 Num.
Station_License_Number	Text	Unique Station ID Number, 5 Char.
Analyzer_Number	Text	Last 3 digits of SN preceded by W, 4 Char.
Insert_DateTime	Date/Time	Date and Time Test data was inserted into EIS table on VID.

Dataset Technical Description

A complete technical description is contained in New Mexico-2004 Emissions Inspection System (EIS) Specifications updated 03/19/2004 published by Air Care NM.

Dataset Assumptions

No assumptions are implied. The data base was created in accordance with New Mexico-2004 Emissions Inspection System (EIS) Specifications and modified with any change in regulations approved by the Air Quality Control Board.

Who Produced the Dataset?

Vehicle Pollution Management Division of the Environmental Health Department produced the data off of 160+ emissions analyzers.

Who Manages the Data?

Vehicle Pollution Management Division of the Environmental Health Department is responsible for the data that is provided by Worldwide Environmental Products Inc.

The data originated off of the 160+ BAR-97 emissions inspections system analyzers and is managed by Worldwide Environmental Products Inc. and downloaded to the EHD SQL server nightly where it is maintained by the COA ITSD department and managed by VPMD.

Why was the Dataset Created?

This database is required by Environmental Protection, Albuquerque – Bernalillo County Air Quality Control Board, Title 20, Chapter 11, part 100, 20.11.100.13.B

How was the Dataset Created?

The dataset is stored in emissions analyzers which is then uploaded to a World Wide Environmental Products Vehicle Information Database. This data is then downloaded to the City of Albuquerque server. The general path of the data migration is:

This dataset was created using an application called IBM Cognos using data from the Emissions Inspection System (EIS).

What Similar or Related Data Should the User be Aware of?

None

How reliable are the Data?

Since data is entered by emissions inspectors, data entry errors will be present.

How Well Have the Observations Been Checked?

Refer to Title 20, Chapter 11, Part 100, D. Performing quality assurance audits as required by 20.11.100.30 NMAC, assessing the level of compliance of each air care station or air care inspector by using onsite audits and by monitoring the information provided by the VID.

Are there Legal Restrictions on the Access or Use of the Data?

There is no personal information of vehicle owners present in the data.

Legal Disclaimer

The City's standard copyright, disclaimers and legal statements may be found at http://www.cabq.gov/about/legal. The City data policy governing data.cabq.gov may be found at http://data.cabq.gov/policy/.