



## **COGCC Public Water Quality Database Download Metadata**

**March 26, 2014**

### **Data Description**

The analytical data and other information within the **COGCC Public Water Quality Database** are a compilation of data collected by COGCC staff, data submitted to COGCC from third parties, and historical data.

Historical data sources may include, but are not limited to, USGS studies and reports, BLM studies and reports, EPA funded studies and reports, oil and gas operator supplied data, data related to complaint investigations conducted by the COGCC, and studies funded by the COGCC. Most of the historical data were manually entered into a previous version of the COGCC database. Very little of the historical data contains laboratory QA/QC control information.

More recent data were acquired through voluntary baseline sampling programs, under COGCC Rules 317(B), 318Ae(4), 607, 608 and 609, permit conditions of approval, and complaint investigations. Most of these data have been uploaded to the database as Electronic Data Deliverables (EDDs). Additional information regarding the EDDs can be found on the COGCC help page at [http://cogcc.state.co.us/COGIS\\_Help/EnviroDB/EnviroDB.htm](http://cogcc.state.co.us/COGIS_Help/EnviroDB/EnviroDB.htm).

Sample locations in the database include groundwater and surface water sources. Groundwater sources may include domestic water wells, irrigation wells, stock wells, commercial wells, seeps, or springs. Surface water sources include ponds, lakes and streams.

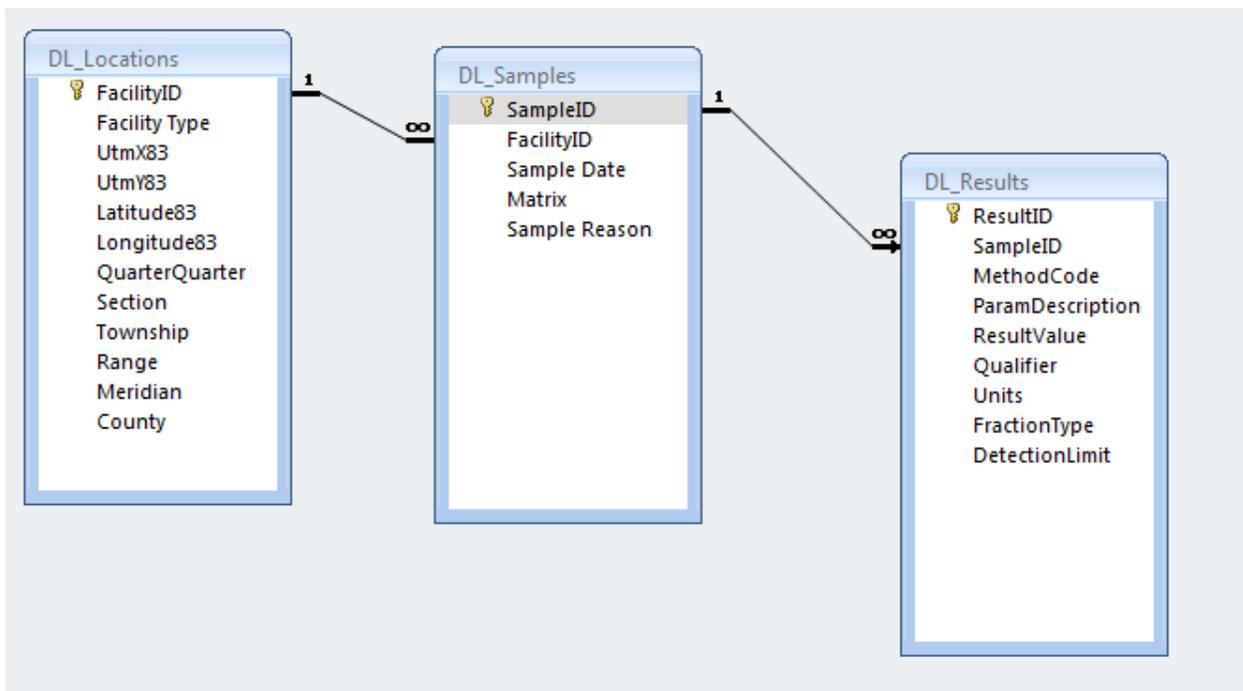
Location numbers are generated in the database and are unique to each sample location. The latitude and longitude in NAD 83 are also used to keep each sample location unique. UTM coordinates are calculated from the latitude and longitude and stored in the database through the use of a stored procedure. Information

regarding the quarter-quarter section, section, township, range and county are also provided with the data.

Samples from water wells generally will have the Colorado Division of Water Resources (DWR) permit and receipt number included if available. Information from the DWR also may contain the depth and aquifer of the water well.

The Water Quality Download will be updated on a weekly basis under normal circumstances.

### Table Relationships



The relationships between the tables and the nature of the relationships are shown in the diagram above. The Access database download contains three related tables named: DL\_Locations, DL\_Samples, and DL\_Results. The DL\_Locations table contains information regarding the location of the sampling points. The DL\_Samples table contains information regarding each sampling event, and the DL\_Results table contains the analytical results. For each location there may be one or more samples and for each sample there are many results.

The three tables each have a unique field or primary key (designated with the “key” icon above). The primary key field is a unique number assigned by the database.

In order view the data it is likely that information from the three tables will have to be used in conjunction to create a query. For example, to display the results of a particular sample you would have to have the FacilityID of the sample point from the DL\_locations table, the SampleID and Sample Date from the DL\_Samples table, and results from the DL\_Results table.

### **Disclaimers**

The analytical data and other information in this database are a compilation of data collected by COGCC staff, data submitted to COGCC from a variety of third parties, and historical data. All analytical data collected by or submitted to the COGCC is public information and COGCC posts the data to this database as a public service. The data is provided for informational purposes only. COGCC does not conduct a detailed review of quality control/quality assurance protocols, chain of custody procedures, or field or laboratory methodologies on data received from third parties. The level of review performed on historical data is unknown. COGCC does not regularly perform formal data validation for any of the data posted to this database. Therefore, COGCC makes no warranties or representations regarding the quality, accuracy, or fitness for a particular purpose of the data provided herein.