# Explanation of the Groundwater Database and Data Entry

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# TEXAS WATER DEVELOPMENT BOARD

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# Abstract

This document describes data entry procedures to the Texas Water Development Board (TWDB) groundwater database used by employees of the agency and includes an explanation of the data codes. The manual addresses elements in each table of the relational database, beginning with the well record or schedule and including information in the remarks, casing, water level, and water quality tables. This information is supplemented by maps and numerous two-column tables listing definitions of the coded elements. The database uses a Microsoft Access interface; thus, screen shots of this interface further serve to illustrate data entry. TWDB employees are solely responsible for entering data they have collected or receive from cooperating entities, either through entry of individual well information or through uploading of large amounts of specially formatted data.

Information within the groundwater database is mirrored in the agency's Water Information Integration and Dissemination (WIID) ArcIMS mapping application, found on the TWDB Web site. This application allows geographical display of all wells and springs within the database and provides links to information contained in the database tables and to any scanned images that exist in hard copy at the TWDB map room. A Microsoft Access copy of the database that contains an almost identical interface to the internal database is regularly updated by the Groundwater Database Administrator and also made available to the public on the TWDB Web site. This manual provides equally useful information to TWDB employees and public users of either the downloaded copy of the Access database or the WIID mapping application. It supersedes all previous editions of TWDB UM (User's Manual) 50 *Ground-Water Data System Data Dictionary*.

# Introduction

The groundwater database of the Texas Water Development Board (TWDB) contains information on more than 130,000 wells and springs within Texas, representing many years of collection efforts from various agencies. As of October 2008, more than 84,000 wells in the database had miscellaneous water level measurements. Some 8,500 of those wells are classified as current observation wells, with at least one yearly measurement. Additionally, analyses of over 107,000 water quality samples from over 55,000 groundwater sites have been entered in the database. Water quality information from these sites includes 564,000 infrequent constituents, such as trace metals, organics, nutrients, and radioactive constituents.

Until 1988, the TWDB database contained primarily legacy data from well and spring sites that were not routinely visited or monitored. Since then, monitoring programs have been initiated and expanded at sites that are revisited either annually or on a less frequent but cyclical basis, resulting in a robust database in which water level, water quality, and other meta data associated with the wells and springs at nearly 15,000 sites are regularly updated.

All users of the data should be aware that although the database includes the best information available to TWDB's knowledge, some of the data are provided by cooperators of TWDB, and a large percentage of all the data was collected from sites that are not part of TWDB's or cooperators' routine monitoring programs. As a result, inaccuracies exist. However, TWDB continuously strives to remove or revise inaccurate data, and the agency actively encourages users to report any inaccuracies to <u>wiid\_data@twdb.state.tx.us</u>.

#### **Purpose of the User's Manual**

In 1990, Phil Nordstrom and Roger Quincy originally published this document for use as a manual for TWDB employees to provide (1) a description of and instructions for completing a well schedule (or well or spring record form) and (2) a step-by-step data entry procedure for the groundwater database through an explanation of all codes. As of the date of publication of this revised manual, TWDB employees continue to be the only people who enter data, although the agency receives a significant amount of information from outside agencies and cooperators that is typically reformatted for inclusion in the database. When the public was provided online access to the information within the database in 2002 through several avenues (a mapping application, text and scanned image files, and a copy of the entire database in Microsoft Access), TWDB also provided a link to the manual as a .pdf file or scanned image on its Web site.

The purpose of this revised document remains the same—to describe data entry procedures and explain codes, frequently through the use of screen shots of the TWDB database as it appears in its Microsoft Access interface to TWDB employees. Because many people outside the agency may now also periodically download the entire database with an interface that is nearly identical to that used by TWDB employees, this revision also provides some additional explanatory information. The TWDB groundwater Database Administrator maintains the most up-to-date tables of the coded elements in the database, and any significant changes or additions the Administrator makes in the future will result in much more frequent revisions to this document.

#### History of the TWDB Groundwater Database

Information on water wells and springs has resided in file folders for decades at TWDB, at one of its predecessor agencies, or as original copies in agencies such as the U.S. Geological Survey. The oldest "drilling" date for a well in the TWDB database is recorded as 1820 for a hand-dug well used for stock on the Rancho San Isidro Viejo in Starr County. Its U.S. Geological Survey well schedule, recorded in 1950, includes a note stating that the well was known to have been in use in 1926. This well schedule still resides in the TWDB map room well file, as do numerous other schedules of water wells drilled in the early 1900s in Texas. TWDB continues to maintain paper copies of all data collected on wells and springs in its map room at its Austin headquarters in the Stephen F. Austin building; however, not every piece of information in the database is included on a paper copy in the files. In the past several decades, employees of TWDB (and its predecessors) have added water level and water quality information from reports, particularly TWDB reports. Furthermore, in 2002, TWDB scanned all paper copies of well-related information in its map room files and currently continues to scan all information as it is collected.

The first digital storage of information in a flat file computer format began in the 1960s as TWDB (and its predecessors) keypunched reams of groundwater data. The first compilation of digital data as a relational database began in the early-to-mid-1980s on a Sperry Univac DB 4 system. This database was relational but not Structured Query Language (SQL) compliant. SQL, often pronounced "SEQUEL" after its original acronym, is a declarative query and data manipulation computer language designed for retrieving and managing data in relational databases. In the late 1980s, the agency transferred the groundwater information to an Informix system operating on a Unix platform, a system both relational and SQL compliant. Most recently

(in 2004), the agency transferred the groundwater information to a Microsoft SQL server

platform with a Microsoft Access interface.

#### Main Menu of the TWDB Groundwater Database

The main menu offers entry into four main screen categories: the well data form, individual forms, printed reports, and utility forms for database administration (Figure 1).

📧 Main Switchboard		
	Welcome to the TWDB's	
	Ground Water Database	_
	🔲 Well Data Form (Opens in Filter by Form Mode)	
	Individual Forms	
	Reports	
	Utilities for Database Administration	

#### Figure 1. Main menu of the TWDB groundwater database.

This document will concentrate on explaining the cornerstone of the system—the entry of well schedule (or well/spring record) data into the database—and entry of data in the other essential individual forms. We will not discuss reports or utilities for database administration that are intended for TWDB personnel, although several of the reports that TWDB can produce from this database are available to the public as text and image files, by county, on the TWDB Web site at http://www.twdb.state.tx.us/publications/reports/GroundWaterReports/GWDatabaseReports/GW

Additionally, an entire copy of the database, operating on a Microsoft Access platform or "back end" with a Microsoft Access "front end," or interface—identical to the interface used by TWDB internally—is always available to the public as a zipped.mdb file at the same Web site address.

#### **Data Entry Forms**

In the TWDB groundwater database, eight different data entry forms corresponding to the main data tables are available (Figure 2), beginning with the well schedule (well or spring data or record of well) and including well (or spring) data remarks, casing records, water level forms for all wells in the observation network or any miscellaneous wells, water level forms for all continuous recorders with five-day measurements, basic inorganic water quality, infrequent constituent water quality (trace element) information, and water quality data from cooperators. The photos and TWDB notes forms are for in-house use only and are not published to the Web. An explanation of those forms is not included in this manual as there are separate TWDB work process documents that address those data entry procedures.

The well data form contains links to each of the other seven forms, and six of these forms remarks, casing records, water levels, 5-day water levels, water quality, and infrequent constituents—can be found under the "Individual Forms" field on the main menu.

🖩 welldata: Filter by Form
State Well Number       Prev. Well No.       County Code         Basin       GMA       RWPA       GCD       Aquifer Code         Latitude       Longitude       Coord Accuracy       Aquifer ID1       Aquifer ID2         Owner       Driller       Aquifer ID2       Aquifer ID3       Image: Coord Accuracy
Well Depth Source of Depth Altitude Source of Alt. Datum
Date Drilled     Well Type     User Code     Edit Record       Type of Lift     Type of Power     Horsepower
Primary Use Secondary Use Tertiary Use
Water Level       Water Quality       Well Logs       Other Data       New Filter         Construction       Completion       Casing Material       Screen Material       V
Date Collected or Updated Reporting Agency
Well Schedule     Date Updated     UserID     Close Form
Remarks     Casing Records     Water     5 Day Water Levels     Water Quality     Infrequent Constituents     Coop Water Quality     Photos     TWDB Notes       Look for     Or     Or

Figure 2. TWDB groundwater database well data form (well schedule form).

The well data form, as mentioned above, is the lynchpin of the system because it includes a site identifier number (or state well number) in all tables, making the database relational. Other key features of the form are latitude and longitude fields, which allow for two-dimensional georeferencing of all database information. Without correct information about the location and subsurface location (or aquifer) in which the well is completed, the value of any other water level and water quality data is questionable.

The well data form is also used to inventory springs. The database contains nearly 133,000 wells and more than 2,000 spring sites; for simplicity's sake, however, discussion of data entry in most of the dictionary will refer to wells. Obviously, spring information could and does exist in records throughout the database, with the exception of the casing records and 5-day water level forms.

#### Well-Numbering System (Site Identification)

To facilitate the location of wells (and springs) and to avoid duplication of state well numbers, the Texas Department of Water Resources (one of TWDB's predecessor agencies) originally adopted a statewide well-numbering system now used by TWDB. Use of the term "state well number" by agency employees began in a practical manner, particularly because TWDB and its predecessors and affiliates such as the U.S. Geological Survey have historically been concerned with collecting groundwater data throughout the state. This numbering system originally appeared to accommodate the needs of these agencies and arguably still does.

However, as more local agencies have begun their own data collection programs and databases, the limitations of the state well number have become apparent. Some local groundwater conservation districts, for example, register many more wells than a state or federal agency would typically have the resources to inventory, and the TWDB numbering system is inadequate to meet their needs. Also, the term could imply that a state well number is mandatory for all water wells drilled in the state, but such a number is not required. The purpose of our database is not to include every well in the state; the purpose is to provide information on water levels, water quality, and well characteristics for water planning, groundwater availability models, and local and regional assessment of aquifers. Fortunately, many water well (and spring) owners have graciously offered information to allow TWDB to assign a state well number. Also, many of these same people have allowed measuring and sampling for water quality testing in their wells or springs.

The statewide well-numbering system is based on dividing the state into a grid of 1-degree quadrangles, formed by degrees of latitude and longitude. Each 1-degree quadrangle is divided into sixty-four 7<sup>1</sup>/<sub>2</sub>-minute quadrangles corresponding to U.S. Geological Survey named

topographic quadrangles, and each of these quadrangles is further divided into nine 2½-minute quadrangles (Figure 3).

Each 1-degree quadrangle in the state has been assigned an identification number of 01 through 89. Each of the 7½-minute quadrangles is numbered consecutively from left to right, beginning in the upper left-hand corner of the 1-degree quadrangle. The 2½-minute quadrangles within each 7½-minute quadrangle are numbered in a similar pattern (left to right, top to bottom). The first two digits of the site identification number identify the 1-degree quadrangle; the third and fourth digits identify the 7½-minute quadrangle; the fifth digit identifies the 2½-minute quadrangle.

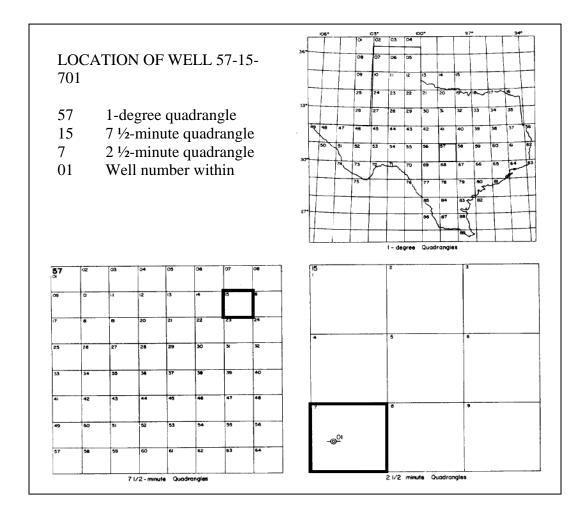


Figure 3. State well- (or site) numbering system.

#### Well Schedule

The well schedule (or record of well or well report) form (Figure 4), along with detailed well location information, is required before TWDB assigns a permanent state well number. The majority of wells in the database were originally inventoried out in the field on paper using a format only slightly modified from an original U.S. Geological Survey well schedule; therefore, especially for wells drilled before 1990, any record appearing in the database without a back-up well schedule (in the scanned image file) should not be considered as reliable as those that do.

The well schedule contains all of the information required to complete the well data form in the groundwater database, so it is a good idea to complete a well schedule when out in the field at the site before entering data in the groundwater database. However, TWDB employees having direct access to the groundwater database either in the field and especially in the office may forego filling out a paper copy and instead directly fill in the well data form with the same information on the well schedule. In practice, the terms "well schedule," "well report," "record of well," and "well data form" are used interchangeably.

	Texa	s Water Deve Well Schec	lopment Board Iule	
State Well Number	Prev. <sup>1</sup>	Well No.	County	
Latitude	Longitude			
Owner/			Driller	
Tenant/Oper.				
Well Depth	Source		Date Drilled	Well Type
Lift Type of Data Lift	Pump Depth Setting (ft)	Type offt. Power	Horsepower	
Water Use Primary	Sec	ondary	т	ertiary
Other Data Water Available Level	Water Well Quality Logs		Other	
Well Casing Construction Material	Screen Material		Const Method	Completion Method
Water	Meas.			Casing or Blank Pipe (C) Well Screen or Slotted Zone (S) Open Hole (O) Cemented from to Diam. Interval of C,S, or 0. (in.) From To 1 2 3
Yield Flow Rate	Pump RateGPN			4
Performance Length Test of test	Production hr RateGPN	Circlohauratouardotorm 1 Meas Rept Est	ined Date of Test	8
Static Level	Pumping ft. Levelft.	Amount of Drawdown	Specific ft. Capacity	9 ft. 10 11
Date Record Collected or Information Updated	Reporting Agency		Recorded by	12
Other Remarks 1				15 16 17
3				18
5				 Well Number
D				

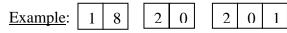
Figure 4. Well schedule form.

# Well Record Data Entry

#### **State Well Number**

Each well record in the TWDB groundwater database is identified by this unique, seven-digit number. The system allows for the numbering of up to 99 wells in each 2<sup>1</sup>/<sub>2</sub>-minute quadrangle. Only well numbers assigned by authorized persons are accepted in the database, thus avoiding duplication of well numbers.

Enter the seven-digit well number, for wells 1-99 in each  $2\frac{1}{2}$ -minute quadrangle.



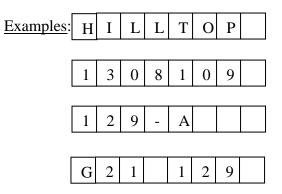
<u>Note</u>: Wells located in 1-degree quadrangles 1–9 will effectively have a six-digit state well number since the leading zero is not displayed. These well numbers can be entered with or without the zero.

Example:	0	6	4	4	2	5	4	0	or
		6	4	4	2	5	4		

#### **Previous Well Number**

If another number was previously used to identify the well, enter it here. It may comprise letters, numbers, special characters, or any combination of those, up to eight characters. This field is generally used to refer to well numbers from reports printed prior to state well number usage or may indicate a well number change due to improved location accuracy.

> Enter the previous well number or name.



# **County Code**

The TWDB groundwater database uses "FIPS" (Federal Information Processing Standards) county codes, which is the same system of county codes used nationwide by federal agencies. Alpha and numerical codes formerly used in older data systems to identify Texas counties are not applicable to this system.

From the drop down menu, select the county code that corresponds to the county in which the well is located (Figure 5).

Note: County code is a <u>mandatory</u> entry; data will not be stored if this field is blank.

🖻 welldata	
State Well Number 3961501       Prev. Well No.       County Code       335 ×         Basin 12 × GMA 12       RWPA G × GCD 199912GX ×       Aquifer Code 1245M       1       Andrews         Latitude 310303 Longitude 962543       Coord Accuracy Ø ×       Aquifer ID1       15       Angelina         Owner Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2       9       Archer         New Baden Well       Aquifer ID3       11       Armstrong       13       Ataccosa         Well Depth       1202 Source of Depth       Altitude 427       Source of Alt. Datum       15       Austin         Date Drilled       / 11951       Well Type W ×       User Code       880900 ×       19       Bandera         Type of Lift S ×       Type of Power E ×       Horsepower       25       Bee       27       Bell         Water Level C ×       Water Quality Y ×       Well Logs       Other Data       35       Bosque         Date Collected or Updated       07/09/2002       Reporting Agency 01 ×       35       Bosque       35       Bosque         Well Schedule in File       Y ×       Date Updated       10/28/2005       UserID       dwuerch       User Form	
Remarks     Casing Records     Water Levels     S Day Water Levels     Unfrequent Quality     Coop Water Quality     Photos     TWDB Notes       Records     1     >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	

Figure 5. Drop down menu for the "County Code" field.

#### Basin

Texas has 15 major river and 8 coastal basins. The coastal basins are named according to the major river basins that bound them. For example, the Brazos-Colorado Coastal Basin is bounded by the Brazos River Basin to the north and the Colorado River Basin to the south. Each coastal basin is also bounded by a bay or some other outlet to the Gulf of Mexico.

From the drop down menu, select the numerical code that corresponds to the river basin in which the well is located (Figure 6).

State Well Number 3961501       Prev. Well No.       County Code 395 w         Basin       G MA 12       RWPA G w       GCD 199912GX w       Aquifer Code 124SMBR w         Latitud       1       Canadian River       Coord Accuracy 0 w       Aquifer ID1 10 w         2       Red River       Coord Accuracy 0 w       Aquifer ID1 10 w         0 Wret 3       Subjuur River       r       C. C. Capps       Aquifer ID2 w         4       Cypress River       Aquifer ID3 w       Face River         5       Sabine River       Aduifer ID3 w       Face River         7       Neches River       Aduifer ID3 w       Fate Record         7       Neches River       VAltitude 427       Source of Alt. Datum M w         7       Neches River       VAltitude 427       Source of Alt. Datum M w         7       Neches River       Valtitude 427       Source of Alt. Datum M w         9 Date 0 Lift S w       Type of Power E w       Horsepower       Save Record         7/mary Use P w       Secondary Use w       Tertiary Use w       Save Record         Water Level C w Water Quality Y w Well Logs       Other Data       New Filter         Construction w       Completion w       Casing Material w       Screen Material w         Well	🐱 welidata	
Latitud 1 Canadian River Coord Accuracy 0 × Aquifer ID1 10 × 2 Red River Aquifer ID1 10 × 3 Sulphur River Aquifer ID2 × 4 Cypress River Aquifer ID3 × 5 Sabine River Aquifer ID3 × 4 Cypress River Aquifer ID3 × 5 Sabine River Aquifer ID3 × 5	State Well Number 3961501 Prev. Well No. County Code 395 V	
Latitudi       2       Red River       Coold Accuracy 0       Aquifer ID1       10 ×         Owner       3       Sulphur River       Aquifer ID2       ×         4       Cypress River       Aquifer ID3       ×         5       Sabine River       Aquifer ID3       ×         Well I       6       Neches River       ×       Aquifer ID3       ×         Neches-Trinity Rivers       ×       User Code       880900 ×       Edit Record         Type of Lift       S       Type of Power       ×       Horsepower       Save Record         Primary Use       P       Secondary Use       Tertiary Use       ×       New Filter         Construction       Completion       Casing Material       Screen Material       Add New Well         Date Collected or Updated       07/09/2002       Reporting Agency       01 ×       Well         Well Schedule       Image: Street Base Base Base Base Base Base Base Base	Basin 😰 GMA 12 RWPA G 💌 GCD 199912GX 💌 Aquifer Code 124SMBR 💌	
4       Cypress River         5       Sabine River         6       Neches River         7       Neches-Trinity Rivers         Date       8         7       Neches-Trinity River         Verifies       Verifies         0       880900         Edit Record         Type of Lift       S         Type of Lift       S         Type of Lift       Y         Verifies       Verifies         8       Trinity River         Verifies       Verifies         8       Trinity River         Verifies       Verifies         8       Trinity River         Verifies       Verifies         Save Record       Save Record         Primary Use       Verifies         Verifies       Verifies	Latitud 1 Canadian River Coord Accuracy 0	
4       Cypress River         5       Sabine River         4       Cypress River         7       Neches River         8       Trinity River         9       User Code       880900 ×         Edit Record         7       Save Record         Primary Use       P       Secondary Use         Vater Level       Vater Quality       Vell Logs         Other Data       New Filter         Construction       Completion       Casing Material         Date Collected or Updated       07/09/2002       Reporting Agency         Well Schedule       Vell Schedule       User Infrequent       Coop Water         Well Schedule       Vell Schedule       Twos       Date Updated       10/28/2005         User ID       Gaing       Water       Store       Twos		
b Sabine River   Well C 6   Neches River   7 Neches-Trinity Rivers   Date 8   Trinity River   V User Code   880900 ×   Edit Record   Type of Lift S ×   Type of Power E ×   Horsepower   Primary Use P ×   Secondary Use ×   Tertiary Use ×   Water Level C ×   Water Quality Y ×   Well Logs   Other Data   New Filter   Construction ×   Completion ×   Casing Material ×   Screen Material ×   Add New   Well Schedule     Well Schedule     Well Schedule     Twose     Source of Alt. Datum M ×     Edit Record   Save Record   Primary Use P ×   Secondary Use ×   Tertiary Use ×   Water Level C ×   Water Quality Y ×   Well Logs   Other Data   New Filter   Construction ×   Completion ×   Casing Material ×   Meel Schedule     Well Schedule     Well Schedule     Report     Date Updated 10/28/2005     UserID     Date Updated     Date Updated     Twose     Twose     Date Updated     T	4 Cypress River	
7       Neches-Trinity Rivers       Viser Code       880900 V       Edit Record         Type of Lift S V       Type of Power E V       Horsepower       Save Record         Primary Use P V       Secondary Use V       Tertiary Use V       Save Record         Water Level C V       Water Quality Y Vell Logs       Other Data       New Filter         Construction V       Completion V       Casing Material Vise Vell       Add New Vell         Well Schedule in File Y V       Date Updated 10/28/2005       UserID dwuerch       Close Form         Well Schedule       Vell Schedule       Type Start       Coop Water       Page Tw08	5 Sabine River	
Date       8       Trinity River       Vuser Code       880900 V       Edit Record         Type of Lift       S       Type of Power       Horsepower       Save Record         Primary Use       V       Secondary Use       Tertiary Use       V         Water Level       C       Water Quality       Y       Well Logs       Other Data       New Filter         Construction       Completion       Casing Material       Screen Material       Add New Well         Date Collected or Updated       07/09/2002       Reporting Agency       01 v       Well         Well Schedule       Mell Schedule       Date Updated       10/28/2005       UserID       Gover Form         Well Schedule       Sorge       Meter       Sorge Water       Easing       Weter       Sorge Water       Two Bare		
Type of Lift S v       Type of Power E v       Horsepower       Save Record         Primary Use P v       Secondary Use v       Tertiary Use v       New Filter         Water Level C v       Water Quality Y v       Well Logs Other Data New Filter       New Filter         Construction v       Completion v       Casing Material v       Screen Material v       Add New Well         Date Collected or Updated 07/09/2002       Reporting Agency 01 v       Well       Well       Schedule         Well Schedule       Y v       Date Updated 10/28/2005       UserID dwuerch       Close Form         Well Schedule       TwDB       TwDB       TwDB       TwDB		
Primary Use Y   Save Record     Primary Use     Water Level   C   Well   Construction   C   Construction   C   Construction   Completion   C   Casing Mater   S   Day Water   Veter   Infrequent   Coop Water   Phone   TWDB		
Primary Use Y   Save Record     Primary Use     Water Level   C   Well   Construction   C   Construction   C   Construction   Completion   C   Casing Mater   S   Day Water   Veter   Infrequent   Coop Water   Phone   TWDB	Type of Lift S V Type of Power E V Horsepower	
Water Level C V Water Quality Y V Well Logs       Other Data       New Filter         Construction V Completion V Casing Material V Screen Material V       Add New Well         Date Collected or Updated 07/09/2002       Reporting Agency 01 V       Add New Well         Well Schedule in File Y Date Updated 10/28/2005       UserID dwuerch       Close Form         Well Schedule       Vell Schedule       Two B	Save Record	
Water Level C Water Quality Weil Logs       Other Data         Construction       Completion         Date Collected or Updated       07/09/2002         Reporting Agency       01          Well Schedule in File       Y         Date Updated       10/28/2005         UserID       dwuerch         Close Form         Well Schedule         Report         Casing       Water         Source       Twos         Twos	Primary Use P 💌 Secondary Use 💌 Tertiary Use 💌	
Add New Well         Date Collected or Updated 07/09/2002       Reporting Agency 01          Well Schedule in File       Y         Date Updated 10/28/2005       UserID         Well Schedule       Well Schedule	Water Level C V Water Quality Y Vell Logs Other Data	
Date Collected or Updated 07/09/2002       Reporting Agency 01 v         Well Schedule in File       Y v       Date Updated 10/28/2005       UserID dwuerch       Close Form         Well Schedule       Well Schedule       Well Schedule       Date Updated 10/28/2005       UserID dwuerch       Close Form         Bemate       Casing       Water       5 Day Water       Water       Infrequent       Coop Water       TWDB	Add New	
Well Schedule       Bemate       Casing       Water       Water       Infrequent       Coop Water       TWDB	Date Collected or Updated 07/09/2002 Reporting Agency 01	
Bematric Casing Water   5 Day Water   Water   Infrequent   Coop Water   TWDB   TDB	Well Schedule in File     Y     Date Updated     10/28/2005     UserID     dwuerch     Close Form	
	Well Schedule	
Record: I I I I I I I I I I I I I I I I I I I	Record: 14 4 1 Filered	

Figure 6. Drop down menu for the "Basin" field.

Figure 7 shows the location of each of the river and coastal basins within Texas.



Figure 7. Major river basins of Texas.

#### **Groundwater Management Area**

The "GMA" field in the TWDB groundwater database is used to indicate the groundwater management area in which the well is located. There are 16 groundwater management areas in Texas. The coverage for each groundwater management area is shown in Figure 8. The numerical code corresponds to the groundwater management area number. For example, you would enter "7" for groundwater management area 7.

- Locate the county in which the well is located on the map in Figure 8.
- In the "GMA" field, enter the code for the groundwater management area in which the well is located.

<u>Note</u>: For most of the counties, the groundwater management area boundaries follow the county lines, but in a few cases the boundaries cut through the county. If you are unsure which groundwater management area is the correct one for your well, contact the TWDB Water Level Program Specialist.

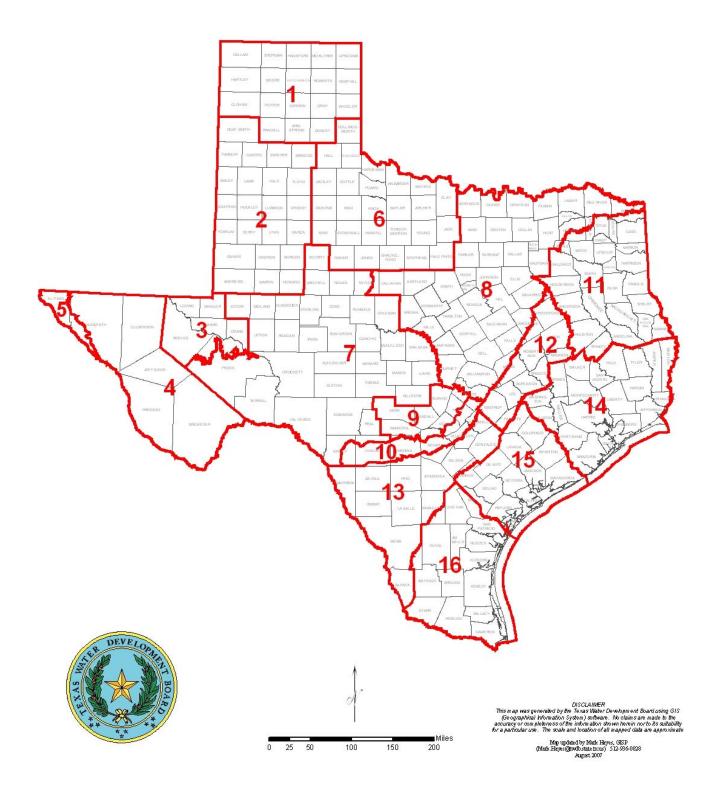


Figure 8. Map of groundwater management areas.

#### **Regional Water Planning Area**

The "RWPA" field in the TWDB groundwater database is used to indicate the regional water planning area in which the well is located (Figure 9). There are 16 regional water planning areas in Texas. The coverage area of each is shown in Figure 10.

- ▶ Locate the county in which the well is located on the map in Figure 10.
- From the drop down menu in the "RWPA" field, select the code corresponding to the regional water planning area for the county in which the well is located.

**Note:** For most of the counties, the regional water planning area boundaries follow the county lines, but in a few cases the boundaries cut through the county. If you are unsure which regional water planning area is the correct one for your well, contact the TWDB Water Level Program Specialist.

🖻 welldata	
State Well Number 3961501       Prev. Well No.       County Code 395 ×         Basin 12 • GMA 12       RWPA • GCD 199912GX • Aquifer Code 124SMBR •         Latitude 310303       Longitude 962         A       Panhandle         Owner Twin Creek WSC       C         New Baden Well       E         Far West Texas       Aquifer ID3         Well Depth       1202         Source of Dep       F Region F         Bragion H       • 9900 •	
Type of Lift S   Primary Use Vell   Secondary Use Tertiary Use   Water Level Vell   Water Quality Vell Logs   Other Data New Filter   Construction Completion   Vater Collected or Updated 07/09/2002   Reporting Agency 01   Well Schedule Vell Schedule	
Remarks     Casing Records     Water Levels     5 Day Water Levels     Water Quality     Coop Water Quality     Photos     TWDB Notes       Records     1     >>>> of 1 (Filtered)     1     >>>>>     1     >>>>>>>>>>     1	—

Figure 9. Drop down menu for the "RWPA" field.

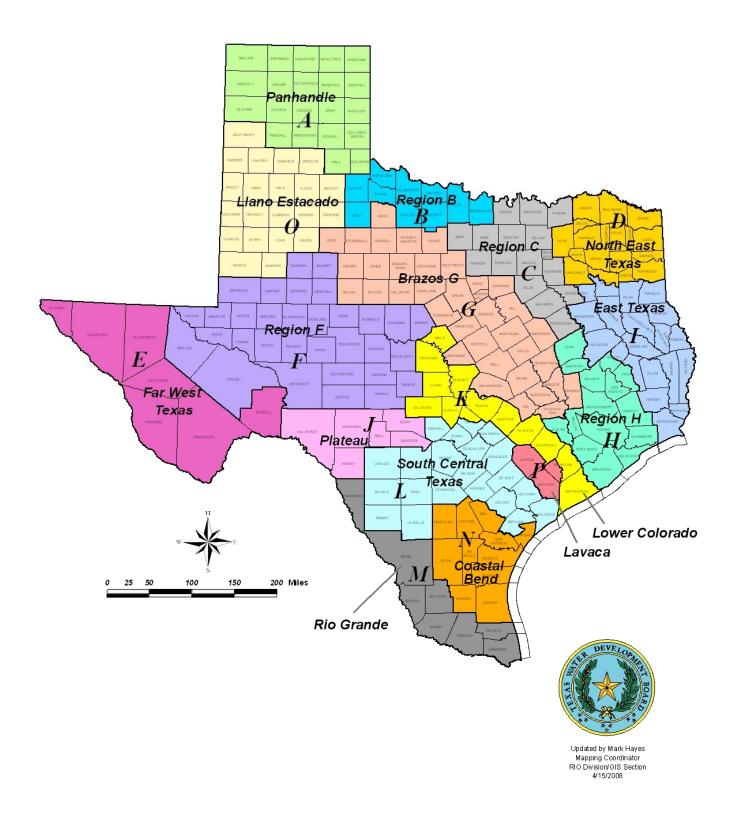


Figure 10. Map of regional water planning areas.

#### **Groundwater Conservation District**

The "GCD" field in the TWDB groundwater database is used to indicate the groundwater conservation district in which the well is located (Figure 11). The coverage area for each of the districts is shown in Figure 12. As new districts are confirmed, the TWDB Database Administrator adds the new district and its ID to the TWDB database.

- ▶ Locate the county in which the well is located on the map in Figure 12.
- From the drop down menu in the "GCD" field, select the District ID corresponding to the groundwater conservation district in which the well is located.

Note: In some cases, a county may have more than one groundwater conservation district associated with it or only part of the county may be covered by the district. In these cases, you might need to enter the latitude and longitude of the well into the Water Information Integration Dissemination (WIID) with the groundwater districts layer visible (Figure 13). If there is no district associated with part or all of the county in which the well is located, leave this field blank.

🖻 welldata 📃 📃 🔀	
State Well Number 3961501 Prev. Well No. County Code 395	
Basin 12 GMA 12 RWPA G GCD 199912GX V Aquifer Code 124SMBR V	
Latitude 310303 Longitude 962543 Coord NO DISTRICT	
Owner         Twin Creek WSC         Driller         C. C. 198909JX         Bandera County River Authority And Ground Water District	
198710KL Barton Springe/Edwards Aquifer Conservation District	
New Baden Well 199716KX Bee Groundwater Conservation District	
Well Depth 1202 Source of Depth Altitud 200009KX Blanco-Pedernales Groundwater Conservation District	
200114HG Bluebonnet Groundwater Conservation District	
Date Drilled / /1951 Well Type W 200114HX Brazoria County Groundwater Conservation District	
Type of Lift S v       Type of Power E v       Horsepower       Save Record         Primary Use P v       Secondary Use v       Tertiary Use v       New Filter         Water Level C v       Water Quality Y v       Well Logs Other Data Vertice       New Filter         Construction v       Completion v       Casing Material v       Screen Material v       Add New Well         Date Collected or Updated       07/09/2002       Reporting Agency 01 v       Well       Schedule in File Y v       Date Updated 10/28/2005       UserID dwuerch       Close Form         Well Schedule       Vell Schedule       Schedule       Schedule       Schedule       Schedule	
Remarks         Casing Records         Water Levels         5 Day Water Levels         Water Quality         Infrequent Constituents         Coop Water Quality         TWDB Notes	
Record: [4] 1 [>] [+] [+] [+] [+] [+] [+] [+] [+] [+] [+	

Figure 11. Drop down menu for the "GCD" field.

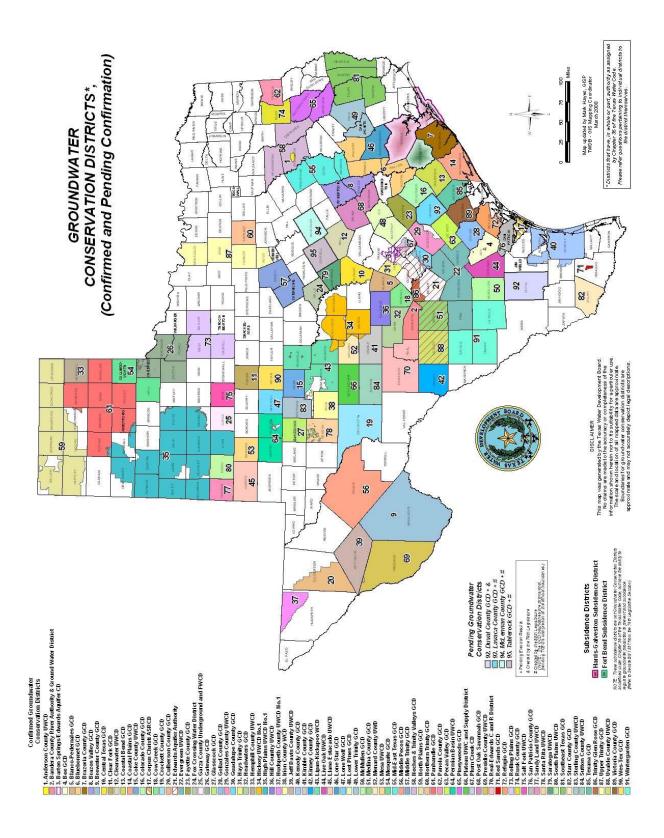


Figure 12. Map of groundwater conservation districts.

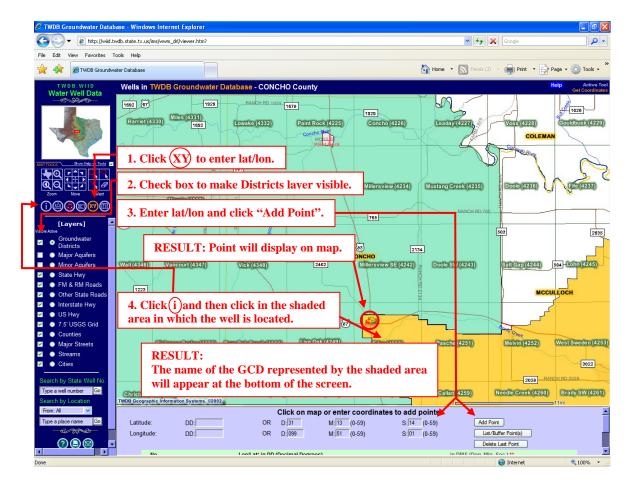


Figure 13. Using the Water Information Integration Dissemination to identify the groundwater conservation district for a well location (lat=latitude; lon=longitude; GCD=groundwater conservation district).

#### **Aquifer Code**

The aquifer codes used in the TWDB groundwater database are adopted from the U.S. Geological Survey's Water Data Storage and Retrieval (WATSTORE) system. The code consists of three digits designating the geologic era, system, and series followed by a four- or five-unit alpha code designating the aquifer(s) or stratigraphic unit(s). For example, the aquifer code 123VKGB represents the following information:

- 1 = Cenozoic Erathem
- 2 = Tertiary System
- 3 =Eocene Series
- VKGB = Vicksburg Formation

A TWDB professional geologist with the most experience in the area in which the well is located assigns the aquifer codes. Appendices A and B list the aquifers and hydrologic units for Texas, both alphabetically and in aquifer code sequence. This field is mandatory to register a well into the database. To change an aquifer code already in the database, contact the TWDB Database Administrator or his designated representative.

Enter the aquifer code that corresponds to the name of the aquifer in which the well is located.

#### Latitude/Longitude

The values of latitude and longitude in the groundwater database are locators. They should represent the best available information about the location of the well. The location should be entered as precisely as it is known, and the accuracy of the location should be indicated by a suitable entry in the "Coordinate Accuracy" field.

- Latitude: Enter the best available value for the latitude of the site in degrees, minutes, and seconds. Six digits must be coded. Latitude is a <u>mandatory</u> entry; data will not be stored if this field is blank.
- Longitude: Enter the best available value for the longitude of the site in degrees, minutes, and seconds. Use leading zeros if needed; seven digits must be coded. Longitude is a <u>mandatory</u> entry; data will not be stored if this field is blank.

#### **Coordinate Accuracy**

The "Coord Accuracy" field is intended to reflect the accuracy of the latitude and longitude data. All sites inventoried in the field should be precisely located with a portable global positioning system unit and coded 0.

From the drop down menu, select the appropriate code indicating the accuracy of latitude and longitude (Figure 14).

🖻 welldata	
State Well Number 3961501 Prev. Well No. County Code 395	
Basin 12 V GMA 12 RWPA G V GCD 199912GX V Aquifer Code 124SMBR V	
Latitude 310303 Longitude 962543 Coord Accuracy	
Owner     Twin Creek WSC     Driller     C. C. Capps     1     +/- 1 Second       New Baden Well     2     +/- 5 Seconds     1	
Well Depth 1202 Source of Depth V Altitude 427 4 +/- 10 Seconds	
5 Center of 2 1/2 Minute Quad	
Date Drilled / /1951 Well Type W V User Code 880900 Edit Record	
Type of Lift S V Type of Power E V Horsepower Save Record	
Primary Use P 💌 Secondary Use 💌	
Water Level C V Water Quality Y Well Logs Other Data	
Construction Completion Casing Material Screen Material Add New Well Date Collected or Updated 07/09/2002 Reporting Agency 01 v	
Well Schedule in File     Y     Date Updated     10/28/2005     UserID     dwuerch     Close Form	
Well Schedule	
Casing Water 5 Day Water Infrequent Coop Water TWDB	
Remarks Records Levels Levels Quality Constituents Quality Photos Notes	
Record: H 4 1 Filered)	

Figure 14. Drop down menu for the "Coord Accuracy" field.

# **Aquifer Identification**

There are three "Aquifer ID" fields: Aquifer ID1, Aquifer ID2, and Aquifer ID3 (Figure 15). These fields are two-digit codes that represent one of the 30 major and minor aquifer groups and the catch-all category (code 22) for all other aquifers not yet designated by TWDB as major or minor. Aquifer ID1 is a mandatory field. Aquifer ID2 and Aquifer ID3 should only be used for wells that are completed in multiple aquifers. Maps of the 9 major aquifers and 21 minor aquifers are provided in Figures 16 and 17.

Figure 15. Drop down menu for the three "Aquifer ID" fields.

# Major Aquifers of Texas

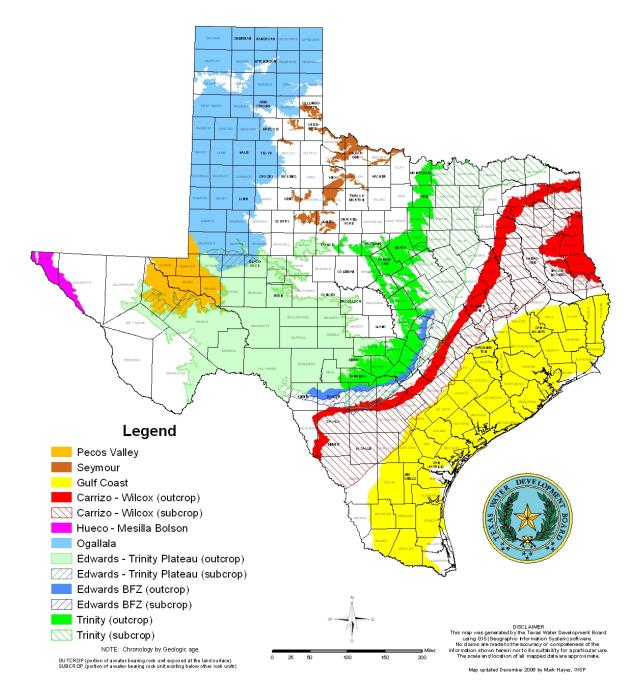


Figure 16. Major aquifers of Texas.

# Minor Aquifers of Texas

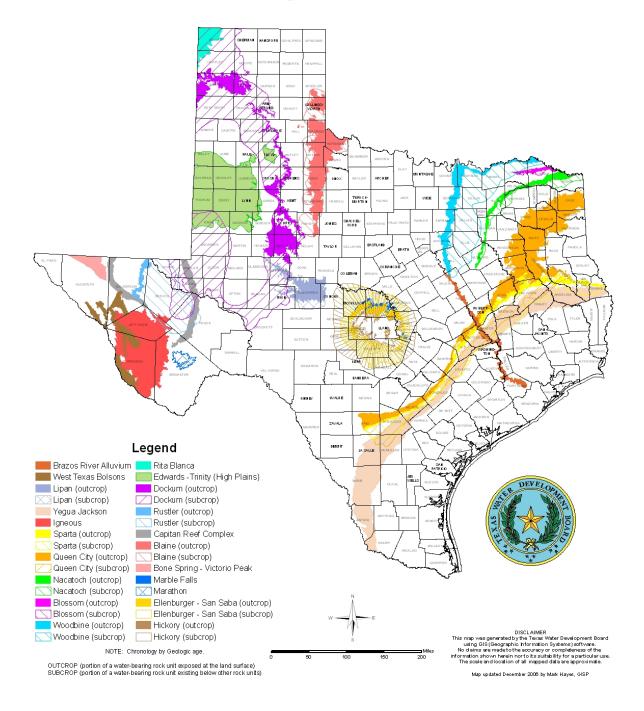


Figure 17. Minor aquifers of Texas.

#### Owner

The "Owner" field is used to record the ownership of the well at the time of the survey. As ownership of the well changes, this field should be updated to reflect the current owner's name. Two lines of 22 characters per line are provided to record the name of the owner and the name or number assigned to the well by the owner.

Enter the owner's name exactly as you wish to see it in a published table, using appropriate punctuation and capitalization. Use any space left over on the second line for the owner's well name or number.

Example:

s	0	u	t	h	Т	е	x	а	s	R	а	n	с	h		
н	0	u	s	e	w	e	Ι	Ι								

#### Driller

The "Driller" field is used to record the name of the person or company that drilled and constructed the well. Two lines of 20 characters per line are provided to record the name of the driller.

- Enter the driller's name (or company name) exactly as you wish to see it in a published table, using appropriate capitalization and punctuation. Use meaningful abbreviations to keep the name within 20 characters per line.
- If the well was deepened or otherwise altered by a different driller, make an appropriate notation in the remarks form.
- > Do not put the driller's address in this field.

Example:

С	е	n	t	r	а	Ι		Т	е	х	а	s					
D	r	i	-	-	i	n	g		С	0		,	-	n	С		

## Well Depth

The depth of the well is the greatest depth to which the well can be sounded. If measurement is

not practical, use the reported depth at which the well was finished.

> Enter the depth of the completed well, in feet below land surface.

### Source of Depth

Source of depth refers to the source of the information from which well depth was obtained.

> From the drop down menu, select the appropriate code indicating how the well depth

information was obtained (Figure 18).

🖻 welldata
State Well Number 3961501       Prev. Well No.       County Code 395 v         Basin 12 v GMA 12       RWPA G v GCD 199912GX v       Aquifer Code 124SMBR v         Latitude 310303       Longitude 962543       Coord Accuracy 0 v       Aquifer ID1 10 v         Owner Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2 v         New Baden Well       Aquifer ID3 v         Well Depth       1202       Source of Depth         Valtitude       427       Source of Alt. Datum
Date Drilled       / /1951       Well Type       A       ANOTHER GOVERMENT AGENCY       Edit Record         D       DRILLER'S LOG       DRILLER'S LOG       GEOLOGIST-CONSULTANT       Edit Record         Primary Use       P       Secondary Use       M       MEMORY OF OWNER       Save Record         Water Level       C       Water Quality       R       PERSON OTHER THAN OWNER       New Filter         Construction       Completion       Z       OTHER (see remarks)       Iterial       Add New         Date Collected or Updated       07/09/2002       Reporting Agency       01 v       Iterial       Iterial
Well Schedule in File       Y       Date Updated       10/28/2005       UserID       dwuerch       Close Form         Well Schedule       Well Schedule       Well Schedule       Image: Close Form       Close Form         Remarks       Casing Records       Water Levels       Day Water Levels       Coop Water Quality       TwDB Notes         Records       Image: Photos       TwDB Notes       TwDB Notes

Figure 18. Drop down menu for the "Source of Depth" field.

#### Altitude

Altitude is the elevation of the land at the site in feet above mean sea level.

➢ Enter the altitude.

#### Source of Altitude Data

The "Source of Alt. Datum" field refers to the source of the information from which the altitude was obtained.

From the drop down menu, select the appropriate code for the method used to determine altitude (Figure 10)

altitude	(Figure	19).	

🖻 welldata 📃 🗖 🔀
State Well Number 3961501 Prev. Well No. County Code 395 -
Basin 12 GMA 12 RWPA G GCD 199912GX Aquifer Code 124SMBR
Latitude 310303 Longitude 962543 Coord Accuracy 0 V Aquifer ID1 10 V
Owner Twin Creek WSC Driller C. C. Capps Aquifer ID2
New Baden Well Aquifer ID3
Well Depth 1202 Source of Depth Altitude 427 Source of Alt. Datum
Date Drilled / /1951 Well Type W V User Code 880900 A ALTIMETER
G GPS L LEVEL OR OTHER SURVEYING METH.
M INTERPOLATED FROM TOPO MAP
Primary Use P v Secondary Use v Tertiary Use Z OTHER
Water Level C V Water Quality Y Vell Logs Other Data
Construction Completion Casing Material Screen Material Add New Well
Date Collected or Updated 07/09/2002 Reporting Agency 01 V
Well Schedule in File Y Date Updated 10/28/2005 UserID dwuerch Close Form
Well Schedule
Remarks Casing Water 5 Day Water Mater Infrequent Coop Water Photos TWDB
Records Levels Quality Constituents Quality Notes
Record: If I blb# of 1 (Fikered)

Figure 19. Drop down menu for the "Source of Alt Datum" field.

#### **Date Drilled**

Date drilled refers to the date the drilling was completed.

Enter the date drilled. If the day, month, or year is not known, leave the spaces blank. Use leading zeros for month or day values less than 10. Enter four digits for the year.

#### Well Type

Well type is the principal use of the well or the purpose for which the well was constructed. If

the well has been converted and is no longer serving the same purpose as was originally

intended, this field should reflect the current use. However, the original purpose should be noted in the remarks form.

From the drop down menu, select the appropriate code indicating the principal use of the well (Figure 20). If the well is destroyed, make appropriate notations in the remarks.

🖻 welldata
State Well Number       3961501       Prev. Well No.       County Code       395 •         Basin       12 •       GMA       12       RWPA G •       GCD       199912GX •       Aquifer Code       124SMBR •         Latitude       310303       Longitude       962543       Coord Accuracy       0 •       Aquifer ID1       10 •         Owner       Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2       •         New Baden Well       Aquifer ID3       •       Aquifer ID3       •         Well Depth       1202       Source of Depth       • Altitude       427       Source of Alt. Datum       M •
Date Drilled       / /1951       Well Type       W v User Code       880900 v       Edit Record         Type of Lift S v Type of Power       A Anode       Save Record       Save Record         Primary Use P v Secondary Use       D Drain       E Geothermal       Save Record         Water Level C v Water Quality       G Seismic       Pther Data       New Filter         Date Collected or Updated       07/09/20       P Oil or Gas       I v         Well Schedule       T Test Hole       W Withdrawal of Water       X Waste Disposal         Z Other       Other       Other       I v
Remarks     Casing Records     Water Levels     Water Quality     Infrequent Constituents     Coop Water Quality     Photos     TWDB Notes       Record:     I

Figure 20. Drop down menu for the "Well Type" field.

#### **User Code**

The user code is assigned only to public supply and industrial wells that in the past were inventoried annually by TWDB to capture information on wells typically pumping large volumes of water. Currently, the TWDB Public Supply Inventory Specialist obtains these numbers from the Groundwater Database Administrator during inventory of new public supply wells as appropriate and when necessary. All wells belonging to a single user are assigned the same user number, thus enabling TWDB to compile information on all wells belonging to a given user regardless of the well's location, date drilled, or aquifer completion. User codes for these wells are identical to the alpha codes in the Water Use Survey database maintained by TWDB's Water Resources Planning and Information group. > Enter the six-digit user code if applicable.

## Type of Lift

The "Lift" field contains information about the pump or lift used to bring water to the surface.

> From the drop down menu, select the code corresponding to the type of pump or lift used

(Figure 21).

🖻 welidata 🖉 🗐 👂
State Well Number 3961501       Prev. Well No.       County Code 395 ×         Basin 12 × GMA 12       RWPA G × GCD 199912GX ×       Aquifer Code 124SMBR ×         Latitude 310303       Longitude 962543       Coord Accuracy 0 ×       Aquifer ID1 10 ×         Owner Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2       ×         New Baden Well       Aquifer ID3       ×         Well Depth       1202       Source of Depth       × Altitude 427       Source of Alt. Datum       M ×
Date Drilled       / /1951       Well Type       W       User Code       880900       Edit Record         Type of Lift       S       Type of Power       E       Horsepower       Save Record         Primary Use       A AIRLIFT       ary Use       Save Record         Water Level       C       CENTRIFUGAL PUMP       ogs       Other Data       New Filter         Construction       N NONE       q Material       Screen Material       Add New         Well       Schedu       S SUBMERSIBLE PUMP       d       10/28/2005       UserID       dwuerch         Well Schedu       S SUBMERSIBLE PUMP       d       10/28/2005       UserID       dwuerch       Close Form         W       U UNKNOWN       Z       OTHER (see remarks)       Add New       Horsepower       Horsepower
Remarks     Casing Records     Water Levels     S Day Water Levels     Water Quality     Coop Water Quality     Photos     TWDB Notes       Record:     1     1     1     1     (Filtered)

Figure 21. Drop down menu for the "Type of Lift" field.

## **Type of Power**

Type of power refers to the power used to lift the water from the well.

From the drop down menu, select the code corresponding to the type of power (Figure

22).

<u>Note</u>: If no pump or lift device is installed, leave this field blank even if a power source is available at the well site.

🖻 welldata
State Well Number 3961501   Prev. Well No. County Code   Basin 12   GMA 12   RWPA G GCD   12 GMA   12 RWPA G   GCD 199912GX   Aquifer Code 124SMBR   Latitude 310303   Longitude 962543   Coord Accuracy V   Aquifer ID1 10   Owner Twin Creek WSC   Driller C.C. Capps   Aquifer ID3 V   Well Depth 1202   Source of Depth Attitude   427 Source of Alt. Datum   Mew Baden Well Aquifer ID3   Well Depth 1202   Source of Depth Attitude   427 Source of Alt. Datum   Mew Filter Save Record   Primary Use P   Secondary Use D   DIESEL ENGINE   Bate Collected or Updated   O7/09/24   N NATURAL-GAS ENGINE   N NATURAL-GAS ENGINE   Well Schedule   Well Schedule
Remarks     Casing Records     Water Levels     S Day Water Day Water Levels     Infrequent Quality     Coop Water Quality     Photos     TWDB Notes
Record: I I I I I I I I I I I I I I I I I I I

Figure 22. Drop down menu for the "Type of Power" field.

#### Horsepower

Horsepower refers to the horsepower rating of the primary power source.

Enter the horsepower rating.

Note: Two decimal places are provided for small motors. Enter 0.25, 0.50, or 0.75 for 1/4,

<sup>1</sup>/<sub>2</sub>, or <sup>3</sup>/<sub>4</sub> horsepower motors, respectively.

Example:
 100 hp. =
 100

 7 
$$\frac{1}{2}$$
 hp. =
 7.5

 3/4 hp. =
 0.75

#### **Primary/Secondary/Tertiary Use**

These fields consist of information pertaining to the use or uses of water from a well. The water may be used for a single purpose or for several purposes. This record allows entry of up to three uses of water for each well (Figure 23). The water use codes are the same as those used by the U.S. Geological Survey WATSTORE System.

- Primary Use: From the drop down menu, select the corresponding code for the primary purpose for which the water is used. If water is used for only one purpose, this use should be indicated as the primary use.
- Secondary Use: If water from the well is used for more than one purpose, select the corresponding code for the secondary use from the drop down menu.
- Tertiary Use: If water from the well is used for more than two purposes, select the corresponding code for the third use type from the drop down menu.

In case of multiple use wells, it will often be a matter of judgment as to which use is primary,

secondary, or tertiary.

📧 welldata			
State Well Number 3961501 Basin 12 V GMA 12 RWPA G Latitude 310303 Longitude 96254 Owner Twin Creek WSC I New Baden Well Well Depth 1202 Source of Depth	3 Coord Accuracy 0 V Driller C. C. Capps	County Code 395 Aquifer Code 124SMBR Aquifer ID1 10 Aquifer ID2 Aquifer ID3 e of Alt. Datum M	
Construction Completion	Horsepower     Horsepower     Tertiary Use     Jank     AIR CONDITIONING     BOTTLING     COMMERCIAL     DEWATER     POWER     FIRE     H DOMESTIC     I IRRIGATION     J INDUSTRIAL (COOLING)     K MINING     M MEDICINAL     N INDUSTRIAL     P UBLIC SUPPLY	er Data Screen Material UserID dwuerch	
Record: [4] 4 1 [F][F]# of 1 (Fikered)	Q AQUACULTURE R RECREATION S STOCK T INSTITUTION U UNUSED Y DESALINATION Z OTHER (see remarks)		

Figure 23. Drop down menu for the three well use fields.

#### Water Level

This field indicates the availability of water level data for the well.

From the drop down menu, select the code corresponding to the type of water level data available for the well (Figure 24). Do not leave this field blank. If no water level data is available select "N" for none.

🖻 welidata
State Well Number 3961501       Prev. Well No.       County Code 395 •         Basin 12 •       GMA 12       RWPA G •       GCD 199912GX •       Aquifer Code 124SMBR •         Latitude 310303       Longitude 962543       Coord Accuracy 0 •       Aquifer ID1 10 •         Owner Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2 •         New Baden Well       Aquifer ID3 •         Well Depth       1202       Source of Depth •
Date Drilled       / /1951       Well Type       W v       User Code       880900 v       Edit Record         Type of Lift       S v       Type of Power       E v       Save Record         Primary Use       P v       Secondary Use       V       V
Water Level       Water Quality       Y       Well Logs       Other Data       New Filter         C       TWDB Current Observation Well       Screen Material       Add New Well         Date Collecte       P       PWS Current Observation Well       Image: Collecte PWS Current Observation Well       Image: Collecte PWS Current Observation Well         Well Schedule       H       Historical Observation Well       Image: Collecte PWS Current Observation Well       Image: Collecte PWS Current Observation Well         Well Schedule       H       Historical Observation Well       Image: Collecte PWS Current Observation Well         Well Schedule       H       Historical Observation Well       Image: Collecte PWS Current Observatin PWS Current Observatin PWS Current Observation Well </th
Remarks     Casing Records     Water Levels     Water Quality     Infrequent Constituents     Coop Water Quality     Photos     TWDB Notes       Record:     Image: Provide the second se

Figure 24. Drop down menu for the "Water Level" field.

#### Water Quality

This field indicates the availability of one or more chemical analyses of water from the well.

- Enter one of these two codes:
  - Y analysis is available
  - N no analysis is available

## Well Logs

This field is used to enter information about the types of logs available for the well. Up to five entries may be entered in this field.

Enter the proper code or codes from the look-up table in any order (Figure 25).

🖻 welldata	
State Well Number 3961501 Prev. Well No.	County Code 395 -
Basin 12 GMA 12 RWPA G Clar C-Caliber	Aquifer Code 124SMBR 💌
Latitude 310303 Longitude 962543 (D - Drillers E - Electric	Aquifer ID1 10 V
Owner Twin Creek WSC Driller 6 - Geologists or Sample	Aquifer ID2
New Baden Well J- Induction J- Gamma Ray	Aquifer ID3
Well Depth 1202 Source of Depth K - Dipmeter Survey L - Lateral Log M - Microlog	e of Alt. Datum M 💌
Date Drilled 1 /1951 Well Type W Action Action P - Photographic P - Radioactive Tracer	880900 V Edit Record
Type of Lift S V Type of Power E V - S - Sonic U - Gamma-Gamma V - Gamma-Gamma	Save Record
Primary Use P Secondary Use Y Toure Z - Other	
Water Level C Vater Quality Y Vell Logs Ot	her Data New Filter
	Screen Material Add New Well
Date Collected or Updated 07/09/2002 Reporting Agency 01	
Well Schedule in File         Y         Date Updated         10/28/2005	UserID dwuerch Close Form
Well Schedule	
Remarks         Casing Records         Water Levels         S Day Water Levels         Water Quality         Infrequent Constituents         Constituents	op Water Quality Photos TWDB Notes
Record: II I III (Filtered)	

Figure 25. Look-up table for the "Well Logs" field.

## **Other Data**

This field is used to indicate the availability of geologic and/or hydrologic data associated with

the well but not specifically listed previously.

Enter the appropriate code(s) from the look-up table (Figure 26).

🗷 welldata
State Well Number       3961501       Prev. Well No.       County Code       395 w         Basin       12 w       GMA       12 RWPA G w       GCD       199912GX w       Aquifer Code       124SMBR w         Latitude       310303       Longitude       962543       Coord Accuracy 0 w       Aquifer ID1       10 w         Owner       Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2       w         New Baden Well       Aquifer ID3       w         Well Depth       1202       Source of Depth       Attitude       427       Source of Alt. Datum       M w
Date Drilled       / /1951       Well Type       W       User Code       880900       Edit Record         Type of Lift       S       Type of Power       Horsepower       A -Aquiet Test       Save Record         Primary Use       P       Secondary Use       Tertiary Use       Image: Conserving Construction       Save Record         Water Level       C       Water Quality       Y       Well Logs       Other Data       New Filter         Construction       Completion       Casing Material       Screen Material       Mew       Well         Date Collected or Updated       07/09/2002       Reporting Agency       01       Well       Close Form         Well Schedule       Y       Date Updated       10/28/2005       UserID       dwuerch       Close Form
Remarks         Casing Records         Water Levels         Infrequent Quality         Coop Water Quality         TWDB Notes           Records         1         >>>>>         >>>>>         >>>>>>>>>>>>>>>>>>>>>>>>>>>>

Figure 26. Look-up table for the "Other Data" field.

#### Construction

Construction refers to the method by which the well was drilled or dug.

> From the drop down menu, select the code corresponding to the method of

🖻 welldala 📰 🔲 🗌
State Well Number       3961501       Prev. Well No.       County Code       395 •         Basin       12 •       GMA       12       RWPA G •       GCD       199912GX •       Aquifer Code       124SMBR •         Latitude       310303       Longitude       962543       Coord Accuracy       •       Aquifer ID1       10 •         Owner       Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2       •
New Baden Well     Aquifer ID3       Well Depth     1202       Source of Att. Datum     M v
Date Drilled     //1951     Well Type     W v     User Code     880900 v     Edit Record       Type of Lift     S v     Type of Power     Save Record
Primary Use P 🗴 Secondary Use 🔽 Tertiary Use 🔽
Water Level C V Water Quality Y Well Logs Other Data
Construction Completion Casing Material Screen Material Add New Well Date Collected Air Rotary Reporting Agency 01
Well Schedule         B         Bored or Augured         e         Updated         10/28/2005         UserID         dwuerch         Close Form
D Dug H Hydraulic Rotary J Jetted P Air Percussion
Record: It ( ) Drive and Wash

construction used (Figure 27).

Figure 27. Drop down menu for the "Construction" field.

## Completion

Completion refers to the method of preparing a well for production and the nature of the

openings that allow water to enter the well.

> From the drop down menu, select the code corresponding to the completion

method used (Figure 28).

🖼 welldata			
State Well Number 3961501	Prev, Well No.	County Code 395 🗸	
Basin 12 GMA 12 RWPA G	GCD 199912GX Aquif	fer Code 124SMBR	
Latitude 310303 Longitude 962543	Coord Accuracy 0 V		
		Aquifer ID1 10 🗹	
Owner Twin Creek WSC Dr	iller C. C. Capps	Aquifer ID2	
New Baden Well		Aquifer ID3	
Well Depth 1202 Source of Depth	Altitude 427 Source of A	Alt. Datum M 💌	
Date Drilled / /1951 Well Type V	/ Viser Code 8809	900 V Edit Record	
Type of Lift S 💌 Type of Power E	Horsepower	Save Record	
		Save Record	
Primary Use P Secondary Use	💌 Tertiary Use 🔽		
Water Level C 💌 Water Quality Y	Well Logs Other D	Pata New Filter	
Construction Completion	Casing Material	en Material	
	blank	Add New Well	
Date Collected or Updated 07/09/ C	Porous Concrete		
Well Schedule in File Y	Gravel Pack w/Perforations	erID dwuerch Close Form	
G	Gravel Pack w/Screen		
Well Schedule O	Horizontal Gallery Open End		
P	Perforated or Slotted		
S	Screen		
T	Sand		
Remarks Casing Water 5 Day W Records Levels Level	Walled	s Coop Water Photos TWDB Quality Photos Notes	
	Open Hole		
Record: I I I I I I I FIF# of 1 (Filtered) Z	Explained in Remarks		

Figure 28. Drop down menu for the "Completion" field.

## **Casing Material**

Casing material refers to the type of material from which the well casing is made.

> From the drop down menu, select the code corresponding to the type of casing material

used (Figure 29).

😰 welldata	
State Well Number       3961501       Prev. Well No.       County Code         Basin       12 × GMA       12 RWPA G × GCD       199912GX ×       Aquifer Code       12451         Latitude       310303       Lapritude       982543       Coord Accuracy       X	395 V MBR V 10 V
Date Drilled       / /1951       Well Type       W Y       User Code       880900 Y         Type of Lift       S       Type of Power       Y       Horsepower         Primary Use       P       Secondary Use       Y       Tertiary Use       Y         Water Level       C       Water Quality       Y       Well Logs       Other Data         Construction       Y       Completion       Y       Casing Material       Screen Material         Date Collected or Updated       07/09/2002       Reporting Agence       Bick       Bick         Well Schedule in File       Y       Date Updated       10/28/2       Concerte	Edit Record Save Record New Filter
Image: Construction of the second	

Figure 29. Drop down menu for the "Casing Material" field.

## Screen Material

Screen material refers to the type of material from which the screen or other open section is

made.

From the drop down menu, select the code corresponding to the type of screen material used (Figure 30).

🗷 welldata	
State Well Number 3961501       Prev. Well No.       County Code 395 ×         Basin 12 • GMA 12       RWPA G • GCD 199912GX • Aquifer Code 124SMBR •         Latitude 310303 Longitude 962543       Coord Accuracy 0 • Aquifer ID1 10 •         Owner Twin Creek WSC       Driller C. C. Capps       Aquifer ID2 •         New Baden Well       Aquifer ID3 •         Well Depth 1202 Source of Depth • Altitude 427 Source of Alt. Datum M •         Date Drilled / /1951       Well Type W • User Code 880900 • Edit Record	
Type of Lift S v       Type of Power E v       Horsepower       Save Record         Primary Use P v       Secondary Use v       Tertiary Use v       Mew Filter         Water Level C v       Water Quality Y v       Well Logs       Other Data       New Filter         Construction v       Completion v       Casing Material v       Screen Material       Jank         Date Collected or Updated       07/09/2002       Reporting Agency 01 v       B Brass or Bronze	
Well Schedule in File       Y       Date Updated       10/28/2005       UserID       dwue       C       Concrete       G       Galvanized Iron         Well Schedule       Well Schedule       Wought Iron       N       Other Metals       P       PVC, Fiberglass, other Plastic         R       Stainless Steel       S       Steel       S	
Remarks     Casing Records     Water Levels     Day Water Quality     Infrequent Constituents     Coop Water Quality     Photos     T     Tile       Records     1     Image: Coop Water Levels     Vater Quality     Image: Coop Water Quality     Z     Explained in Remarks	

Figure 30. Drop down menu for the "Screen Material" field.

## **Date Collected or Updated**

The date the well was inventoried and data were field checked or the well re-inventoried and the

record updated.

> Enter the date using leading zeros for month or day values less than 10. Enter four digits

for the year.

Example:	0	1	0	9	1	9	7	4

## **Reporting Agency**

The reporting agency is the agency that inventoried the well or reported the data.

Select the proper code from the drop down menu (Figure 31).

Note: Although cities and private entities do frequently submit well data, these wells are

then inventoried and the data verified by TWDB staff and would be coded as 01.

B welldata
State Well Number       3961501       Prev. Well No.       County Code       395 v         Basin       12 v       GMA       12       RWPA G v       GCD       199912GX v       Aquifer Code       124SMBR v         Latitude       310303       Longitude       962543       Coord Accuracy       V       Aquifer ID1       10 v
Owner       Twin Creek WSC       Driller       C. C. Capps       Aquifer ID2       Image: Comparison of the comparis
Date Drilled       / /1951       Well Type       W v       User Code       880900 v       Edit Record         Type of Lift       S v       Type of Power       Save Record         Primary Use       V       Tertiary Use       V
Water Level C V Water Quality Y V Well Logs Other Data       New Filter         Construction V Completion V Casing Material V Screen Material       Add New Well         Date Collected or Updated 07/09/2002       Reporting Agency II V
Well Schedule in File     Y     Date Updated     10/28/2005     Diank       Well Schedule     10/28/2005     01     TWDB or Predecessor Agency       Well Schedule     02     US GEOLOGICAL SURVEY       03     TWC/TNRCC/TCEQ       04     CONSULTANT       05     GROUND WATER CONSERVATION DISTRICT
Remarks       Casing Records       Water Levels       Of Quality       Infrequent Constituents       07       OTHER STATE AGENCY         Records       1       >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Figure 31. Drop down menu for the "Reporting Agency" field.

#### Well Schedule in File

A well schedule (record of well) form, along with detailed well location information, is required before TWDB assigns a permanent well number. Any record appearing in this file without a back-up well schedule indicated should not be considered as reliable as those that do.

- Enter Y if a well schedule exists.
- > Enter N if no well schedule is available.

#### **Date Updated**

The date the information from the well schedule was entered into the groundwater database. This field automatically updates when the record is saved.

#### **User Identification**

The "User ID" field is the unique identification assigned to the TWDB employee who entered or updated the information in the groundwater database. This identification is the same as the Windows user identification assigned by Programming and Development to every TWDB employee. Programming and Development will add User IDs to the database as requested by the Database Administrator.

Enter the User ID assigned to you. Whenever you enter a new well or update information on an existing well, you must enter your ID.

## **Remarks Data Entry**

The remarks form is provided for entering meaningful data for which no specific field is available. Data in this form will be stored exactly as entered. Use this space to explain entries in the other fields of the well record or to include any other pertinent comments about the well. The system provides for 20 lines of 35 characters per line.

Examples of the type of information that may be entered in the remarks form include pump setting, pumping levels, reported and measured yields, cemented interval, underream data, owner's well number or well name, and history of alteration of original well construction such as deepening or plugging. Personal information of well owners should not be put into this form.

Figure 32 shows the suggested sequence of remarks statements. Additional statements should be concise and restricted to the well description. They should begin with a capital and end with a period.

-	Remarks							
		Remarks for State Well Nun	nber: 5454804					
	Orde	r Remark 1	Remark 2					
	1	Well in (TWDB, TWC, etc)	(Bull., Report, etc)					
	2	Owner's well #						
	3	Geophysical log Q						
	4	Formerly used as a (PS, Irr, etc.)	well.					
	5	(Historical) observation well.						
	6	Test hole.						
	7	Converted oil test (Q).						
	8	Stand by well.						
	9	(Destroyed, plugged, abandoned)	(PS, Ind, etc.) well in 19					
	10	Unused (PS, Ind, etc.) well.						
	11	Originally drilled to feet in	19					
	12	Deepened from feet to	feet in 19					
	13	Caved in at feet.						
	14	(Reported, measured, est.) yield	GPM.					
	15	(Reported, measured, est.) yield	GPM with feet drawdown					
	16	after pumping hours in 19						
	17	Specific capacity GPM/ft.						
	18	Pumping level feet.						
J	19	(Cemented, underreamed, gravel	packed) from to feet.					
*								
			Record Close Form					
гке	cord: 🚺	▲ 19 ► ► ► of 19 (Filtered) <	2					

Figure 32: Well remarks field statement sequence.

# **Casing Records Data Entry**

This form is used to record the diameter of the casing and screen material installed in the well and the depths to the bottom of the cased and screened intervals. The term "screen" is used to mean the interval of openings through which water enters a well. This information should be entered in the same sequence as the material is set in the well, beginning with the top-most and generally largest diameter material. Information on casing and screen intervals for wells is generally found in the driller's log.

> To enter the casing information in the TWDB groundwater database, click on the Casing Records button at the bottom of the screen.

<u>Note</u>: If you have entered any information in the well data form, you will need to save the record before going to the casing records screen, otherwise the information entered in the well data form will be lost. Figure 33 shows what the casing records screen looks like.

📧 Casing	g Info							
	Casi	ng Re	cords f	or State	Well Num	ber: 54641	01	~
		Order	C/S/O	Diameter	Top Depth	Bottom Dept	n	
		1	0	7	0	115		
*								
						-		
				Save	Edit	7	Close Form	
			L	Record	Record			~
Record:		:		🕨 of 1 (Fil	tered)	<		>

Figure 33: Casing records form.

	T					
Table 1. Description of "Casing Records" fields in TWDB database.						

Field	Description				
Order	Order refers to the entry order. These will run consecutively from 1, 2,				
	3 for each entry made.				
C/S/O	Enter the code indicating if the interval is <b>cased</b> ( <b>C</b> ), <b>screened</b> ( <b>S</b> )				
	(including all types of commercial screens, perforated casing, slotted				
	casing, or other devices that function to hold the bore hole open and allow				
	water to enter the well), or <b>open hole</b> ( <b>O</b> ) if the bore hole interval				
	contains neither casing or screen.				
Diameter	Enter the diameter, in inches, of the casing or screen. If open hole, leave				
	blank.				
Top Depth	Enter the depth, in feet, of top of each cased, screened, or open hole				
	interval.				
Bottom	Enter the depth, in feet, of the bottom of each cased, screened, or open				
Depth	hole interval.				

# Water Level Data Entry

The water level form can be accessed from either the main switchboard or the well data form.

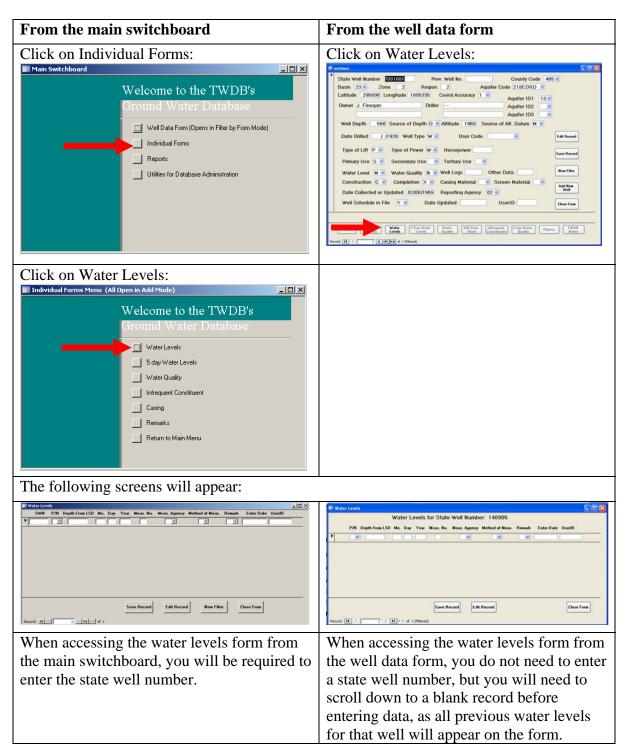


Figure 34. Accessing the water levels form.

#### P/N—Visit Mark

The "P/N" field is a visit mark that indicates whether the measurement is publishable (P) or not publishable (N). This is a mandatory field.

- Enter P if a water level was obtained. If the water level obtained is not indicative of the aquifer's piezometric surface (for example the well was pumping or the measurement was questionable due to a spotty tape), document that with the appropriate code in the "Remarks" field.
- Enter N if no measurement was obtained. If you enter N for the visit mark, you need to enter a remark code to explain why.

#### **Depth from Land Surface Datum**

The "Depth from LSD" field is the depth to the water from the land surface. Since the measuring point is often different from the land surface, depths will need to be adjusted to account for this. The measuring point for each well is not stored in the system, but the value and current description of the measuring point should be kept current in field books.

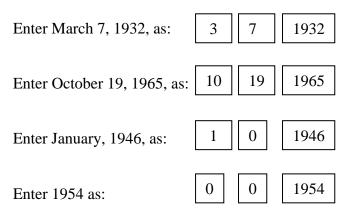
All depths from land surface are entered into the system as negative values. In the case of flowing wells or where the water stands in the casing above land surface, this measurement above land surface is entered as a positive number.

> Enter the actual depth to water measurement from land surface.

#### Month, Day, Year—Date of Visit

In the "Mo., Day, Year" fields, enter the date when each measurement was taken. It is <u>not</u> necessary to use leading zeros for month or day values less than 10. Be sure to enter all four digits for the year.

#### Example:



#### **Measurement Number**

A measurement number is assigned for each measurement entered for a particular date.

If there is only one measurement,

Enter "01" in the "Meas. No." field.

If there is more than one measurement per date,

- Enter the measurements in chronological order on separate lines in the "Depth from LSD" field.
- ▶ Repeat the measurement date in the "Mo.," "Day," and "Year" fields.
- Number the measurements 1,2,3...99 in the "Meas. No." field until all measurements entered for a particular date have been numbered.

## **Measuring Agency**

This refers to the agency or other entity by which the measurer is employed.

> From the drop down menu, select the appropriate code indicating which agency or entity

made the measurement (Figure 35).

Water Levels for State We P/N Depth From LSD Mo. Day Year Meas. No. Mea			UserID
P v -344.2 8 1 2006 01	D1 01	V 1 V V 3/15/2007	hrein
N 💌 2 27 2008 01	02	TWC/TNRCC/TCEQ	dcoker
N 💌 9 10 2008 01	03	Other State Agencies U.S. Geological Survey	dcoker
	- 05 06 07 08 09 10 11	Ground Water Conservation District Registered Water Well Driller Municipal Water Agency or PWS Corp. Ground Water Consultant Private Firm or Industry Well Owner or Operator	
Hydrograph Data Export Excel2003 Excel2007	12	Other or Source of Meas. Unknown Save Record Edit Record	Close Form

Figure 35. Drop down menu for "Meas. Agency" field.

#### Method of Measurement

From the drop down menu, select the code corresponding to the method used to measure the

water level (Figure 36).

🗄 Wa	ter Levels Water Levels for State P/N Depth From LSD Mo. Day Year Meas. No.	9 Well Number: 5454804 Meas. Agency Method of Meas. Remark	Enter Date UserID
*	P •       -344.2       8       1       2006       01         N •       2       27       2008       01         N •       9       10       2008       01	01     I     Image: Constraint of the second	3/15/2007 hrein 18 dcoker 18 dcoker
Record	Hydrograph Data Export Excel2003 Excel2007	Save Record Edit Record	Close Form

Figure 36. Drop down menu for the "Method of Meas." field.

## Remark

Remark codes are used to explain water level measurements that may not represent the piezometric surface of the aquifer. Water levels measured prior to 1990 used a different set of remark codes than those that are currently being used. Appendix C lists these historical remark codes and their meanings.

- ➢ From the drop down menu, select the appropriate remark code for each well visit (Figure
  - 37).

🖻 Water Levels	
Water Levels for State Well Number: 5454804	^
P/N Depth From LSD Mo. Day Year Meas. No. Meas. Agency Method of Meas.	Remark Enter Date UserID
P -344.2 8 1 2006 01 01 v 1 v	3/15/2007 hrein
N v 2 27 2008 01 01 v 1 v	No unusual conditions noted at or near well site O1 Accurately reflect water-level conditions
N    9 10 2008 01 09    2	02 Pumping-level measurement 03 Well or wells pumping nearby
	04 Well pumped recently 05 Water level possibly affected by recent flooding
	06 Measurement may reflect perched water table 07 Artificial recharge operation at or near well
	08 Deviation due to recompletion in different zone 20 Questionable meas spotty tape
	21 Questionable meas leaking airline 22 Questionable meas uncertain
Hydrograph Data Export Save Record Ed	23 Questionable meas deleted after review
Excel2003 Excel2007	24         Questionable meas - may be from wrong well           25         Questionable meas tape does not fall free
	26 Questionable meas spotty tape from oil/gas 40 No measurement - well destroyed
Record: I I I I I I I I Record: I I I I I I I I I I I I I I I I I I I	41 No measurement - well pumping
	42 No measurement - can't insert tape/E-line in bore 43 No measurement - unable to reach water level
	44 No measurement - tape or E-line hangs 45 No measurement - well bridged or caved
	45 No measurement - well bridged or caved 46 No measurement - well dry
	47 No measurement - casing leaking or wet
	48 No measurement - airline leaking or shut-in 50 No measurement - well flowing, unable to shut-in
	51 No measurement - no reason stated
	60 No measurement - unable to locate well 61 No meas temp. inaccessable (roads,gates,etc)
	62 No meas temp. inaccessable (vicious animals)
	63 No meas temp. blocked 64 Deleted as Obs. well due to owner request
	65 Deleted as Obs. well due to owner request 65 Deleted as Obs. well due to hazards to measurer
	80 Discontinued - no reason stated (outside source)
	81 Well deleted from C program 82 C well not measured due to admin decision

Figure 37. Drop down menu for the "Remark" field.

## **Enter Date/User ID**

These two fields are automatically populated when you hit the Save Record button.

# **5-Day Water Levels Data Entry**

A small percentage of water level observation wells are equipped with continuous water level recorders that provide uninterrupted records of water level changes. Digital data from the recorders is captured by a TWDB server from the Geostationary Operational Environmental Satellite (GOES) system. TWDB staff uploads these measurements six times a month into the 5-day water levels form (Figure 38) in the groundwater database. This screen looks identical to the water levels form, but it contains only information received from the continuous water level recorder wells. For TWDB personnel, refer to TWDB Work Process Document (WPD) 125 for more information on uploading water level data from recorders.

		View Insert	Water L	-	ds <u>⊺</u> ools	Window	v <u>H</u> elp				Type a question for help
2.	I 🗐 🔯	a 🔉 💖	X Da 1	214		Ì X↓ [	V 18 V 19 V	× 🗇 🖯	•   🕜 📮		
		5 D	ay Wat	er Le	vels fo	or Stat	e Well Number	4644501			
	P/N	Depth From L	SD Mo.	Day	Year N	leas. No	Meas. Agency M	ethod of Meas	. Remar	c Enter Date	
		-193.57	4	30	1964	01	0	0			
	Ρ	-193.28	5	5	1964	01	0	0			
	Ρ	-189.88	5	10	1964	01	0	0			
	Р	-190.85	5	-	1964	01	0	0			
	Р	-194.1	5	<u> </u>	1964	01	0	0			
	Р	-193.77	5	-	1964	01	0	0			
	Р	-196.4	5		1964	01	0	0			
	Р	-191.61	6	L	1964	01	0	0			
	P	-189.65	6	<u> </u>	1964	01	0	0			
	P	-193.04	6	-	1964	01	0	0			
	P	-193.96		20	1964	01	0	0			
	P	-192.45		25	1964	01	0	0			
	P	-197.92	6	30	1964 1964	01	0	0			
_	P	-201.34	7		1964	01	0	0			
	P	-207.5	7		1964	01	0	0			
	P	-209.82	7		1964	01	0	0			
	P	-204.83	7		1964	01	0	0			
_	P	-202.49	7	-	1964	01	0	0			
	P	-203.63	8		1964	01	0	0			
_	P	-204.57		10	1964	01	0	0			
	P	-204.6	8	15	1964	01	0	0			
	Р	-199.97	8	20	1964	01	0	0			
-	Р	-200.88	8	25	1964	01	0	0			
	Р	-203.9	8	30	1964	01	0	0			
	Р	-210.19	9	5	1964	01	0	0			
	Р	-210.3	9	10	1964	01	0	0			
					Sav	e ]					
					Reco		Edit Record			Close For	m

Figure 38.: 5-day water levels form.

# Water Quality Data Entry

The water quality data form can be accessed from either the main switchboard or the well data form (Figure 39). This section describes only those fields in which data needs to be manually entered by field personnel upon returning from a water sampling trip. The remaining fields are updated automatically when the Water Quality Program Specialist uploads the analysis results from the lab.

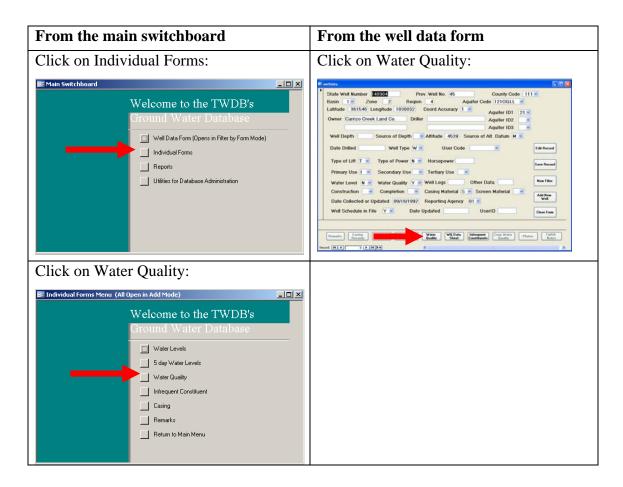


Figure 39. Accessing the water quality form.

Either method will take you to the water quality form (Figure 40).

🗏 Water Quality									
State Well Number	Sample Date	Sample No Sample Time							
-	Fill in the line below only if the sampled interval and aquifer is different from the completed well. Sampled Interval: Top Bottom Sampled Aquifer								
Reliablility Remark Co	Reliablility								
Collection Remarks									
Balanced/Unbalanced 📃 Ter	mp. C								
Silica Mgl	Bicarbonate Mgl	Phenol Alkalinity							
Calcium Mgl	Sulfate Mgl	Total Alkalinity							
Magnesium Mgl	Chloride Mgl	Total Hardness							
Sodium Mgl	Fluoride Mgl	Percent Sodium							
Potassium Mgl	Nitrate Mgl	SAR							
Strontium Mgl	ph	RSC							
Carbonate Mgl	Total Diss. Solids	Specific Conductance							
Date Record Entered	Entered by								
Print This w/ Infrequents	Save Record	Edit Record New Filter Close Form							
Record: II I III IIII IIII IIIIIIIIIIIIIIIII									

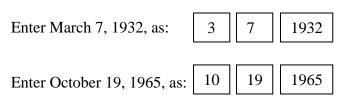
#### Figure 40: Water quality form.

**Note:** If you accessed the water quality form from the main switchboard it will bring up a blank form, and you will need to enter the state well number. If you accessed the water quality form from the well data screen, you will not need to enter the state well number, but you will need to advance to a blank form as it will bring up all water quality records for that state well number.

#### **Sample Date**

Enter the date that the sample was collected, which is usually different from the date analyzed. However, if the laboratory date is all that is available, use it. It is <u>not</u> necessary to use leading zeros for month or day values less than 10. Be sure to enter all four digits for the year.

#### Example:



#### Sample Number

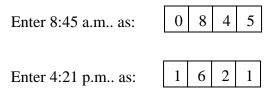
The "Sample No." field is used to identify the order in which the sample was taken when multiple samples were taken on a particular date.

- > If only one analysis is available, then a one (1) should be placed in this field.
- For wells sampled more than once in any given day, each analysis will be numbered consecutively in this field. Up to nine analyses per day may be entered.

#### **Sample Time**

This field is used to record the time of day the sample was taken. When more than one sample was taken on a particular day, it allows the sampler to record the time between sampling intervals. In order to distinguish between a.m. and p.m., a 24-hour clock is used.

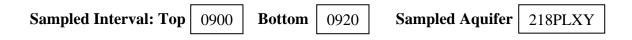
> Enter the time as per the following examples:



#### **Sampled Interval**

These fields are intended to be used ONLY if the aquifer and/or producing interval are different from the completed well. Some examples are as follows:

 A Twin Mountains well with a depth of 1,600 feet completed from 1,450 to 1,600 feet had a chemical analysis run on a sample from the Paluxy formation between 800 and 920 feet.



2. A chemical analysis run on a sample from a well completed in the Hueco Bolson

indicated bad water from 800 to 920 feet, and the well was plugged back to 800 feet.

Sampled Interval: Top 0800	Bottom	0920	Sampled Aquifer		
----------------------------	--------	------	-----------------	--	--

## **Reliability Remark**

 $\succ$  From the drop down menu, select the appropriate code based on how the sample was

collected (Figure 41).

🖻 Water Quality	
State Well Number 4644501 Sample Date Sample No Sample Time	
Fill in the line below only it the sampled interval and aquifer is different from the completed well.	
Sampled Interval: Top Bottom Sampled Aquifer	
Reliability Remark Collecting Agency Lab Code	
Collection Remarks 01 Reliability unknown, not available, or net yet entered into database. 01 Sample collected from tank, distribution, or bailed from well. Not indicative of aquifer	quality. Data should be used carefully.
Balanced/Unbalance 02 Sample collected from well not sufficiently pumped; and not filtered or preserved. Da	ta should stil be used carefully
03 Sample collected from well sufficiently pumped but not filtered or preserved. Holding	time probably not honored.
04 Chemical analysis taken from a report. Sample collection and preservation procedure	es unknown.
Calcium 08 Sample filtered in the field. Temperature, conductivity, and pH measured in the field	
Magnesium 09 Same as #8, but not filtered in the field.	
Sodium 10 Sampled in accordance to TWDB's UM-51. TempcondpH stabilized. Filtered + field	t tested for alk Preserved, chilled, holding t
Potassium 12 Same as #10 but not filtered	
Tz Sample collect by TCEQ stan following prescribed project QA-QC procedures.	
Strontium 13 Cation sample preserved and run thru TDH lab. Anion and nutrient sub-samples set	to lab at T. Tech Univ. and ran within 24 hou
14 Similar to #10 but sample results determined by using a Hach DR-2000 lab.	
B/U Value 16 Sample collected by USGS for NAWOA program utilizing the 'Clean Sample' technique'	
B/U Value 16 Sample collected by USGS for NAWQA program utilizing the 'Clean Sample' techniq	le
Date Record Entered Entered by	
Print This w/ Infrequents         Save Record         Edit Record         Close Form	
Record: I I I I I I I I Rikered)	

Figure 41. Drop down menu for the "Reliability Remark" field.

## **Collecting Agency**

> From the drop down menu, select the appropriate code for the agency collecting the

sample (Figure 42).

🗷 Water Quality						
State Well Number 4644501 Sample Date		Sample No Sample Time				
Fill in the line below only if the sampled interval and aquiler is different from the completed well.         Sampled Interval: Top       Bottom         Sampled Aquifer						
Reliablility Remark 💽 Collecting Agency	-					
Collection Remarks		Texas Water Development Board and Predecessor Agencies Texas Department of Health				
Balanced/Unbalanced Temp. C	10000	U.S. Geological Survey				
		TWC/TNRCC/TCEQ				
Calcium mg/L Silica		Other State Agencies				
		Other Federal Agencies				
Magnesium mg/L Sulfate	- 200000 - 11	Groundwater Conservation District (general)				
Sodium mg/L Chloride	123222	Registered Water Well Driller Municipal Water Agency or Public Water Supply Corporation				
Potassium mg/L Fluoride		Ground Water Consultant				
Strontium mg/L Nitrate		Private Firm or Industry				
Bicarbonate		Well Owner or Operator				
	13	Gonzales County UWCD				
B/U Value Carbonate		Bexar Metropolitan Water District				
Data Davied Fatured	15	Edwards Aquifer Authority (EAA)				
Date Record Entered Entere		Barton Springs/Edwards Aquifer CD				
		San Antonio Water System (SAWS)				
Print This w/ Infrequents		Springhills Water Management District Headwaters GCD (Kerr)				
		Other or Identity Unknown				
01 Plants Padramalas 00P						
Record: I I I I I I I I Record: II I I I I I I I I I I I I I I I I I	100000	High Plains UWCD #1				
	24	North Plains GCD #2				
	25	Panhandle GCD				

Figure 42. Drop down menu for the "Collecting Agency" field.

## Lab Code

 $\succ$  From the drop down menu, select the appropriate code for the laboratory performing the

==	Water Quality								
•	State Well Number 4644501 Sample Date Samp	le No	o Sample Time						
	Fill in the line below only if the sampled interval and aquiter is different from the	pleted well.							
	Sampled Interval: Top Bottom Sampled Aquife								
	Reliability Remark   Collecting Agency   Lab Code								
	Collection Remarks	01	Texas Department of Health						
		02	U.S. Geological Survey						
	Balanced/Unbalanced Temp. C pH Sp	03	TWDB Field Analysis Curtis Lab						
		04	Edna Wood Lab						
	0-1-1	06	Pope Testing Lab						
		07	Trinity Testing Lab						
		08	Microbiology						
	Soulon mut chionae mut	09	Southwestern Analytical Chemicals						
		10	Houston Laboratories						
	Strontium mg/L Nitrate mg/L	11	Texas Agri. Experiment Stations						
	Bicarbonate mg/L	12	WPA						
		13	University of Texas						
		14	Texas A&M University						
		15	Texas Tech University						
		16	NTSU Water Research Lab						
		17	El Paso Water Utilities						
	Print This w/ Infrequents Save Record Edit		Radian Corporation						
		19	Combo of TDH(01) and TTU(15)						
		20 21	Texas Water Commission Lab Railroad Commission						
Re	cold, it if it is it is of the cold	22	Ground Water Conservation District						
		23	Lower Colorado River Authority (LCRA)						
		24	Energy Labs Inc.						
		25	Immunoassay at TCEQ						
		26	Anacon, Inc						
		96	Misc. Municipal Lab						
		97	Misc. Industrial Lab						
		98	Misc. Commercial						
		99	Laboratory Unknown						

chemical analysis (Figure 43).

Figure 43. Drop down menu for the "Lab Code" field.

## **Collection Remarks**

This field allows up to 30 alpha-numeric characters for recording data pertinent to that sample.

> Enter remarks as appropriate.

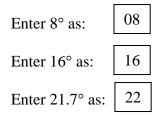
#### Example:

- 1. Well pumping for 3 hours
- 2. Rotten egg odor
- 3. Sample has reddish color

## **Temperature C**

In the "Temp. C" field, enter the temperature in degrees Celsius rounded off to the nearest whole number.

#### Example:



Should the need arise to have degrees Fahrenheit or both degrees Celsius and degrees Fahrenheit to several decimal places, the appropriate entry can be made on the infrequent constituent form.

Enter the final pH reading. The first box is a flag field, provided for < (less than) and > (greater than) symbols as necessary. If you are entering the precise pH as it was determined in the field, leave the flag field blank.

Example:

Enter a pH of 8.23 as: **pH** 8.23

## **Specific Conductance**

Enter the final specific conductance reading in units of milligrams per liter. The first box is a flag field, provided for < (less than) and > (greater than) symbols as necessary. If you are entering the precise specific conductance as it was determined in the field, leave the flag field blank.

## Example:

Enter a specific conductance of 1305 as: Specific Conductance

1305

# **Infrequent Constituents Data Entry**

The infrequent constituents form can be accessed from either the main switchboard or the well

data form.

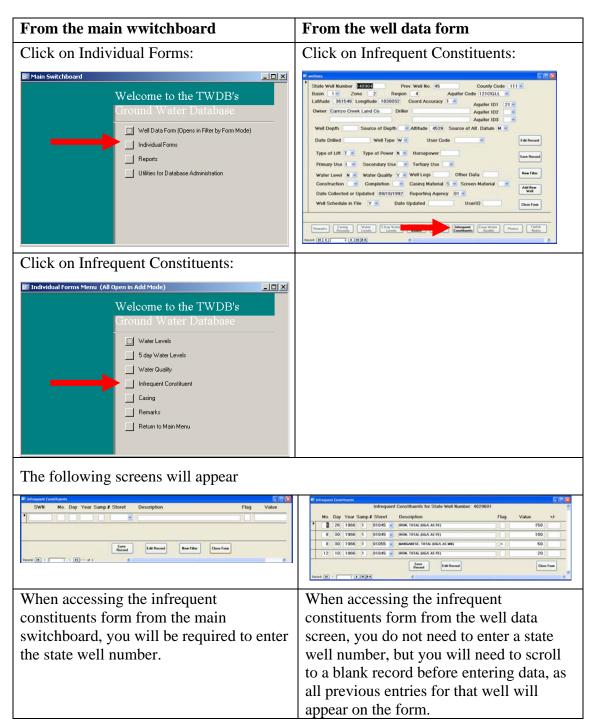
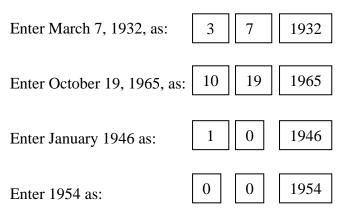


Figure 44. Accessing the infrequent constituents form.

#### Month, Day, Year—Date of Sample

Enter the month, day, and year in which the sample was taken. It is <u>not</u> necessary to use leading zeros for month or day values less than 10. Be sure to enter all four digits for the year.

#### Example:



#### Sample number

The "Samp. #" field is used to identify the order in which the sample was taken when multiple samples were taken on a particular date.

- > If only one analysis is available, then a one (1) should be placed in this field.
- For wells sampled more than once in any given day, each analysis will be numbered consecutively in this field.

#### STORET

STORET codes and their descriptions are provided in Appendices E and F in both alphabetical order and by STORET code sequence. STORET, short for STOrage and RETrieval, is a repository for water quality, biological, and physical data used by the U.S. Environmental Protection Agency, the U.S. Geological Survey, other federal agencies, and many others (http://www.epa.gov/storet/). The STORET data system is actively being populated with water quality data by the U.S. Environmental Protection Agency. Table 2 lists some commonly used

STORET codes. With each STORET code, only one specific unit can be used. For example, iron is recorded in micrograms per liter for STORET code 71885.

Enter the appropriate STORET code for each analysis performed. Make sure the value entered from the lab report reflects the same unit of measure as is required in the STORET Dictionary (Appendices D and E or Table 2).

#### Table 2: Commonly used STORET codes.

Code	Description	Unit of measure		
00010	Temperature	Celsius		
82244	Phenol alkalinity	mg/L		
39086	Total alkalinity	mg/L		
99300	Oxygen, dissolved (photometer)	mg/L		

mg/L = milligrams per liter

## Description

This field populates automatically when a STORET code is entered.

#### Flag

The flag field is provided for < (less than) and > (greater than) symbols, as necessary.

## Value

> Enter the value from the lab report or field data sheet for each constituent.

#### +/-

The confidence interval field proceeded by the +/- symbol, is usually used when entering

radioactivity values.

# **Coop Water Quality Form**

The coop water quality form contains analyses acquired by outside cooperators, such as the U. S. Geological Survey and Texas Commission on Environmental Quality, who are sharing the information with TWDB. This form is similar to the infrequent constituents form but is kept separate because the data typically comes from sampling events focusing on one or just a few constituents as opposed to the infrequent constituents, which are associated with a routine water quality analysis.

🖻 Cooperator Water Quality										
	Cooperative Water Quality for State Well Number: 3734104									
					Relia-					
	Date	Storet	Entity	Lab	bility	Description	Flag	Value	+]-	Date Entered
▶	3/6/20	2 39033	v 04 v	25 🗸	11 🗸	ATRAZINE, TOTAL, UG/L	<	0.0500		2/6/2007
	3/6/201	82612	v 04 v	25 🗸	11 🗸	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE, UG/L	<	0.0500		2/6/2007
-	4/19/200	6 39033	v 04 v	25	11 🗸	ATRAZINE, TOTAL, UG/L		0.06		11/20/2007
	113/200	33033	V 04 V	23 🗸				0.00		11/20/2007
*			* *	*	~					
								1	I	
				Sav		Edit Record New Filter Close Form				
Re	cord: 🚺 🔳 🚺	1		of 3 (Filter	red)					

Figure 45. Water quality coop form

# Appendices

r r	Aquifer Code	Aquifer Name
	318ADML	Admiral Formation
	211AGUJ	Aguja Formation
	110ACPO	Alluvial Channel and Plain Deposits, and Ochoa Series
	110ALVP	Alluvial Plain Deposits
	110ALVI 110AVPW	Alluvial Plain Deposits and Whitehorse Group
	110AVI W	Alluvial Plain Deposits and Wintenoise Group Alluvial Plain Deposits, Blaine Gypsum, and Dog Creek Shale
	110ABDC 110AVTC	Alluvial Terrace and Channel Deposits
	110AVIC 110ATCF	Alluvial Terrace and Channel Deposits Alluvial Terrace and Channel Deposits, and Flowerpot Shale
	110ATCW	Alluvial Terrace and Channel Deposits, and Whitehorse Group
	100ALVM	Alluvium
	110AUAN	Alluvium and Antlers Sand
	110AVAN 110AVAR	Alluvium and Arroyo Formation
	110AVAK 110AVMA	Alluvium and Artesia Group
	110AVMA 110AVAU	Alluvium and Austin Chalk
	110AVBL	Alluvium and Blaine Gypsum Alluvium and Canyon Group
	110AVCY 110AVCZ	Alluvium and Carrizo Sand
	110AVCZ 110AVCH	Alluvium and Choza Formation
	110AVCG	Alluvium and Cisco Group
	110AVCF	Alluvium and Clear Fork Group Alluvium and Cook Mountain Formation
	110AVCM	
	110AVCC	Alluvium and Cretaceous Rocks
	110AVDK	Alluvium and Dockum Formation
	110AVME	Alluvium and Edwards and Associated Limestones
	110AVEV	Alluvium and Evangeline Aquifer
	110AVFV	Alluvium and Fluviatile Terrace Deposits
	110AVGR	Alluvium and Glen Rose Limestone
	110AVGL	Alluvium and Goliad Sand
	110AHTP	Alluvium and High Terrace Plain Deposits
	110AVJK	Alluvium and Jackson Group
	110AVML	Alluvium and Leona Formation
	110AVLS	Alluvium and Lissie Sand
	110AVLC	Alluvium and Lower Cretaceous Rocks
	110AVMF	Alluvium and Marble Falls Limestone
	110AVOG	Alluvium and Ogallala Formation
	110AVPR	Alluvium and Pease River Group
	110AVPS	Alluvium and Permian System Alluvium and Precambrian Granite
	110AGRT	
	110AVQC	Alluvium and Queen City Sand
	110AVRF	Alluvium and Reklaw Formation
	110AVSB	Alluvium and Simsboro Formation
	110AVSS	Alluvium and Sparta Sand
	110AVTY	Alluvium and Taylor Group
	111AVMT	Alluvium and Terrace Deposits
	110AVTV	Alluvium and Tertiary Volcanics
	110AVTP	Alluvium and Travis Peak Formation
	110AVVL	Alluvium and Vale Formation

## Appendix A – Aquifer Codes (Alphabetical By Name)

Aquifer Code	Aquifer Name
110AVMW	Alluvium and Wichita Group
110AVWX	Alluvium and Wilcox Group
110AVYG	Alluvium and Yegua Formation
110AASP	Alluvium, Antlers Sand, and Permian System
111ABZR	Alluvium, Brazos River
110AVCB	Alluvium, Choza Formation, and Bullwagon Dolomite
111AVCR	Alluvium, Colorado River
110AVET	Alluvium, Edwards and Associated Limestones, and Trinity Sands
110AVFP	Alluvium, Flood Plain
110AHTW	Alluvium, High Terrace Deposits, and Whitehorse Group
110ALWX	Alluvium, Leona Formation, and Wilcox Group
110ALTC	Alluvium, Low Terrace and Channel Fill Deposits
110ALTO	Alluvium, Low Terrace and Channel Fill Deposits, and Ogallala Formation
110ALTW	Alluvium, Low Terrace and Channel Fill Deposits, and Whitehorse Group
110ATSB	Alluvium, Terrace Deposits and Seymour Formation, and Blaine Formation
110AVTS	Alluvium, Terrace Deposits, and Seymour Formation
110ASSA	Alluvium, Terrace Deposits, Seymour Formation, and San Angelo Sandstone
367ALST	Alstate Shale
112ALLM	Alta Loma Sand
313ALTD	Altuda Formation
211ANCC	Anacacho Limestone
211ACCE	Anacacho Limestone and Escondido Formation
123ANHC	Anahuac Formation
211ANNN	Annuna Chalk
218ALRS	Antlers Sand
218ASDG	Antlers Sand and Dockum Formation
218ALSP	Antlers Sand and Pennsylvanian Rocks
218ANTP	Antlers Sand and Permian Rocks
NOT-APPL	Aquifer Code Is Not Applicable To This Well
UNKNOWN	Aquifer Not Able To Be Determined
319ARCT	Archer City Formation
318ARRY	Arroyo Formation
313ARTS	Artesia Group
211ASTN	Austin Chalk
211AEDD	Austin Chalk and Edwards and Associated Limestones
321AVIS	Avis Sandstone
110BIBC	Barrier Island and Beach Deposits
110BILD	Barrier Island Deposits
112BMNT	Beaumont Clay
112BMLS	Beaumont Clay and Lissie Formation
112BMLG	Beaumont Clay, Lissie Formation, and Goliad Sand
318BLPL	Belle Plains Formation
124BFCS	Bigford Formation and Carrizo Sand
124BGDF	Bigford Formation of Claiborne Group
313BLIN	Blaine Gypsum
211BLSM	Blossom Sand
120BLSN	Bolson Deposits
318BSVP	Bone Spring and Victorio Peak Limestones
318BSPG	Bone Spring Limestone

Aquifer Code	Aquifer Name
211BNHM	Bonham Marl
211BQLS	Boquillas Formation
324BZRVL	Brazos River Conglomerate Member, Lower Part of Garner Formation
324BZRVU	Brazos River Conglomerate Member, Upper Part of Garner Formation
211BUDA	Buda Limestone
211BLWG	Buda Limestone and Washita Group
318BLGN	Bullwagon Dolomite Member of Vale Formation
122BKVL	Burkeville Aquiclude
124CABF	Calvert Bluff Formation
124CBSB	Calvert Bluff Formation and Simsboro Sand Member
370CMBR	Cambrian System
124CRVR	Cane River Formation
321CNCS	Canyon and Cisco Groups
321CNYN	Canyon Group
371CPMN	Cap Mountain of The Riley Formation
313CPTN	Capitan Limestone
313CRDM	Capitan Reef Complex - Delaware Mountain Group
313CRCX	Capitan Reef Complex and Associated Limestones
124CRRZ	Carrizo Sand
124CZCB	Carrizo Sand and Calvert Bluff Formation
124CZSB	Carrizo Sand and Simsboro Sand Member of Rockdale Formation
124CZWX	Carrizo Sand and Wilcox Group, Undifferentiated
124CZCSB	Carrizo Sand, Calvert Bluff Formation, and Simsboro Formation
312CSTL	Castile Gypsum
122CTHL	Catahoula Formation
122CJCK	Catahoula Tuff and Jackson Group
100PECS	Cenozoic Pecos Alluvium
100CPCR	Cenozoic Pecos Alluvium and Cretaceous Rocks
100CPDG	Cenozoic Pecos Alluvium and Dockum Formation
100CPCRL	Cenozoic Pecos Alluvium and Lower Cretaceous Rocks
100CPDR	Cenozoic Pecos Alluvium and Dockum and Rustler Formations
112CEVG	Chicot and Evangeline Aquifers
112CHCT	Chicot Aquifer
112CHCTL	Chicot Aquifer, Lower
112CHCTE 112CHCTM	Chicot Aquifer, Middle
112CHCTU	Chicot Aquifer, Upper
318CZVL	Choza and Vale Formations
318CHOZ	Choza Formation
318CZBW	Choza Formation and Bullwagon Dolomite
321CSCO	Cisco Group
318CLFK	Clear Fork Group
319CMJC	Coleman Junction Limestone Member of Putnam Formation
321CCPS	Colony Creek and Placid Shales
321CLCK	Colony Creek Shale
321CCCRP	-
218CMPK	Colony Creek Shale, Ranger Limestone, and Placid Shale Comanche Peak Limestone
124CKMN	Cook Mountain Formation
124CKMN 124CKMC	Cook Mountain Formation and Carrizo Sand
124CKMS	Cook Mountain Formation and Sparta Sand

Aquifer Code	Aquifer Name
211CRSC	Corsicana Marl
218CCRK	Cow Creek Limestone
210CRCS	Cretaceous System
124CPRS	Cypress Aquifer
211DKOP	Dakota Group and Purgatoire Formation
211DLME	Dakota Group, Lytle, Morrison, and Exeter Sandstone
211DKPJ	Dakota Group, Purgatoire Formation, and Jurassic Rocks
211DKOT	Dakota Sandstone or Formation
313DLRM	Delaware Mountain Formation or Group
313DMBS	Delaware Mountain Group - Bone Spring Limestone
312DYLK	Dewey Lake Red Beds
231DCKM	Dockum Formation
231DCKP	Dockum Formation and Permian Rocks
313DCKB	Dog Creek Shale and Blaine Gypsum
313DCBF	Dog Creek Shale, Blaine Gypsum, and Flowerpot Shale
110DUNE	Dune Sand
110DOGL	Dune Sand and Ogallala Formation
112EFBL	Eagle Flat Bolson
211EGFD	Eagle Ford Shale
218EDRDA	Edwards and Associated Limestones
218EBFZA	Edwards and Associated Limestones (Balcones Fault Zone Aquifer)
218EDAS	Edwards and Associated Limestones and Antlers Sand
218EDGRU	Edwards and Associated Limestones and Upper Member of Glen Rose Limestone
218EDAD	Edwards and Associated Limestones, Antlers Sand, and Dockum Formation
218EDGR	Edwards and Associated Limestones, and Glen Rose Limestone
218EDPM	Edwards and Associated Limestones, and Permian System
218EDDT	Edwards and Associated Limestones, and Trinity Group
218EDRD	Edwards Limestone
124ELPC	El Pico Clay
367ELBG	Ellenburger Group
367EBCR	Ellenburger Group and Cambrian Rocks
367EBHK	Ellenburger Group and Hickory Sandstone
367EBPH	Ellenburger Group and Post-Hickory Sandstone Cambrian Rocks
367EBSS	Ellenburger Group and San Saba Aquifer
367EBSW	Ellenburger Group, San Saba Limestone, and Welge Sandstone
211ECDD	Escondido Formation
121EVJP	Evangeline and Jasper Aquifers
121EVGL	Evangeline Aquifer
121EVBV	Evangeline Aquifer and Burkeville Confining Unit
121EVJPU	Evangeline Aquifer and Upper Unit of Jasper Aquifer
221EXTR	Exeter Sandstone
122FLMG	Fleming Formation
122FBKV	Fleming Formation and Burkeville Confining Unit
313FLRP	Flowerpot Shale
218FKBT	Fredericksburg and Trinity Groups Fredericksburg Group
218FKBG 218FGAS	Fredericksburg Group Fredericksburg Group and Antlers Sand
218FGAS 218FRGR	Fredericksburg Group and Glen Rose Limestone
218FRGR 218GRGN	Georgetown Limestone
2100K0W	Georgetown Ennestone

Aquifer Code	Aquifer Name
218GLRS	Glen Rose Limestone
218GLRH	Glen Rose Limestone and Hensell Member of Pearsall Formation
218GLRP	Glen Rose Limestone and Pearsall Formation
218GLRT	Glen Rose Limestone and Trinity Sand Undifferentiated
218GRTM	Glen Rose Limestone and Twin Mountains Formation
218GRHH	Glen Rose Limestone, Hensell Sand, and Hosston Formation
218GLRSL	Glen Rose Limestone, Lower Member
218GRUH	Glen Rose Limestone, Upper and Hensell Shale Members of Pearsall Formation
218GLRSU	Glen Rose Limestone, Upper Member
218GRLH	Glen Rose Limstone, Lower and Hensell Shell Members of Pearsall Formation
	Glen Rose Limestone and Hensell Shell and Cow Creek Limestone Members of
218GRHC	Pearsall Formation
	Glen Rose (Lower), Pearsall (Hensell, Cow Creek Members), Sligo and Hosston
218GPSH	Formations
211GOBR	Gober Tongue of Austin Chalk
112GOLD	Goliad and Younger Rocks, Undifferentiated
121GOLD	Goliad Sand
121GDLG	Goliad Sand and Lagarto Clay
321GZCK	Gonzales Creek Member
367GRMN	Gorman Formation
321GRHM	Graham Formation
371GRNT	Granite Wash
112GRBL	Green River Bolson
112GLFC	Gulf Coast Aquifer
321HPVL	Harpersville Formation
0.1.011.C.C.1.1	Hensell and Cow Creek Members of Pearsall Formation, and Sligo and Hosston
218HCSH	Formations
218HSCC	Hensell Sand and Cow Creek Limestone
218HNHS	Hensell Sand and Hosston Formation
218HEPF	Hensell Sand and Pearsall Formation
218HNSL	Hensell Sand Member of Travis Peak Formation
371HCKR	Hickory Sandstone
111HPPA	Holocene, Pleistocene, and Pliocene Alluvial Deposits
321HMCK	Home Creek Limestone
367HNCT	Honeycut Formation
124HOOP	Hooper Formation
217HSTN	Hosston Formation
217HSCC	Hosston Formation and Cow Creek Limestone
112HCBL	Hueco Bolson
120IGNS	Igneous Rocks
210CIGR	Igneous Rocks (Cretaceous)
124INDO	Indio Formation
120IVIG	Intrusive Rocks
124JCKS	Jackson Group
124JKYG	Jackson Group and Yegua Formation
122JSPR	Jasper Aquifer
122JBKV	Jasper Aquifer and Burkeville Aquiclude
122JPCL	Jasper Aquifer and Catahoula Sandstone
122JPJK	Jasper Aquifer and Jackson Group
122JSPRU	Jasper Aquifer, Upper Unit

Aquifer Code	Aquifer Name
220JRSC	Jurassic System
122LGRT	Lagarto Clay
122LOKV	Lagarto Clay and Oakville Sandstone
124LRDO	Laredo Formation
112LEON	Leona Formation
112LNAN	Leona Formation and Antlers Sands
112LNAS	Leona Formation and Austin Chalk
112LNBD	Leona Formation and Buda Limestone
112LBLG	Leona Formation and Bullwagon Dolomite
112LNCZ	Leona Formation and Choza Formation
112LNSA	Leona Formation and San Angelo Sandstone
112LSRP	Leona Formation and Serpentine
112LWCX	Leona Formation and Wilcox Group
218FKBW	Limestones of Fredericksburg and Washita Groups
218FWGR	Limestones of Fredericksburg Group, Washita Group, and Upper Glen Rose Group
371LNMN	Lion Mountain Sandstone
112LISS	Lissie Formation
112LGLD	Lissie Formation and Goliad Sand
217CRCSL	Lower Cretaceous Series
218GRCCU	Lower Glen Rose and Cow Creek Limestones
218LGRLH	Lower Glen Rose and Hosston Formation
318LDRS	Lueders Limestone
367MRTN	Marathon Limestone
320MBLF	Marble Falls Limestone
327MFEB	Marble Falls Limestone and Ellenburger Group
321MARK	Markley Formation
112MCSB	Mercedes-Sebastian Aquifer
318MRKL	Merkel Dolomite Member of Choza Formation
112MSBL	Mesilla Bolson
125MDWY	Midway Group
324MWBR	Mineral Wells and Brazos River Formations
324MLWL	Mineral Wells Formation
319MORN	Moran Formation
371MWLM	Morgan Creek Limestone and Welge and Lion Mountain Sandstones
371MCWG	Morgan Creek Limestone and Welge Sandstone
371MGCK	Morgan Creek Limestone Member of Wilberns Formation
211NCTC	Nacatoch Sand
211NVTY	Navarro and Taylor Groups
211NVRR	Navarro Group
1220KVL	Oakville Sandstone
1220KVC	Oakville Sandstone and Catahoula Tuff
312OCHO	Ochoan Series
312OCAR	Ochoan Series and Artesia Group
1210GLM	Ogallala and Morrison Formations
1210GLP	Ogallala and Purgatoire Formations
1210DPJ	Ogallala Formation, Dakota Group, Purgatoire Formation, and Jurassic
1210GLL	Ogallala Formation
1210GAL	Ogallala Formation and Antlers Sand
1210GLD	Ogallala Formation and Dakota Group

Aquifer Code	Aquifer Name
1210GDK	Ogallala Formation and Dockum Formation
1210GFG	Ogallala Formation and Fredericksburg Group
1210GLW	Ogallala Formation and Whitehorse Group
1210GPJ	Ogallala Formation, Purgatoire Formation, and Jurassic Formation
1210GDP	Ogallala Formation, Dakota Group, and Purgatoire Formation
1210GFA	Ogallala Formation, Fredericksburg Group, and Antlers Sand
400PCKD	Packsaddle Schist
300PLZC	Paleozoic Erathem
321PLPT	Palo Pinto Formation
321PPTC	Palo Pinto Formation and Turkey Creek Sandstone
321PLPN	Palo Pinto Limestone
218PXTM	Paluxy and Twin Mountains Formations
218PLXP	Paluxy Formation and Permian Rocks
218PLXY	Paluxy Sand
218PXGR	Paluxy Sand and Glen Rose Limestone
218PWPW	Pawpaw Formation
218PRHF	Pearsall and Hosston Formations
218PRSL	Pearsall Formation
218PSGH	Pearsall, Sligo, and Hosston Formations
318PRVR	Pease River Group
112PECSA	Pecos Aquifer
111PCRV	Pecos River Alluvium
212PEN	Pen Formation
320PSLV	Pennsylvanian System
310PRMN	Permian System
318PTRL	Petrolia Formation
321PLCD	Placid Shale
321PSWM	Placid Shale and Wolf Mountain Formation
321PWWM	Placid Shale, Winchell Limestone, and Wolf Mountain Shale
112PLSC	Pleistocene Series
112PCPC	Pleistocene-Pliocene Series
371PNPK	Point Peak Shale Member of Wilberns Formation
400PCMB	Precambrian Erathem
400GRNT	Precambrian Granite
112PRBL	Presidio and Redford Bolsons
319PUBL	Pueblo Formation
217PGTM	Purgatoire and Morrison Formations
217PRGR	Purgatoire Formation
319PTNM	Putnam Formation
310QRRM	Quartermaster Formation
310QRMW	Quartermaster Formation and Whitehorse Group
110ALVM	Quaternary Alluvium
110QRNR	Quaternary System
124QCCZ	Queen City Sand and Carrizo Sand
124QCRK	Queen City Sand and Reklaw Formation
124QCSP	Queen City Sand and Sparta Sand
124QNCT	Queen City Sand of Claiborne Group
124QCCW	Queen City Sand, Carrizo Sand, and Wilcox Group
321RNGR	Ranger Limestone
-	

Aquifer Code	Aquifer Name
112RLBL	Red Light Draw Bolson
124RKCZ	Reklaw Formation and Carrizo Sand
124RKLW	Reklaw Formation of Claiborne Group
371RILY	Riley Formation
111RGRD	Rio Grande Alluvium
	Rocks Between Ellenburger-San Saba Aquifer and Hickory Sandstone Member of
371RESH	Riley Formation
312RSLR	Rustler Formation
312SLDO	Salado Formation
112SLBL	Salt Bolson
112SBCRC	Salt Bolson and Capitan Reef Complex
112SBCR	Salt Bolson and Cretaceous Rocks
112SBDM	Salt Bolson and Delaware Mountain Group
112SBLP	Salt Bolson and Permian Rocks
112SBTV	Salt Bolson and Tertiary Volcanics
313SADR	San Andres Limestone
318SAGL	San Angelo Sandstone
318SACZ	San Angelo Sandstone and Choza Formation
211SMGL	San Miguel Formation
371SNSB	San Saba Limestone
218SNEL	Santa Elena Limestone
313SVRV	Seven Rivers Formation
112SYCZ	Seymour and Choza Formations
112SYMR	Seymour Formation
112SCFX	Seymour Formation and Clear Fork Group
124SBHP	Simsboro Sand Member and Hooper Formation
124SMBR	Simsboro Sand Member of Rockdale Formation
219SLGH	Sligo and Hosston Formations
217SLGO	Sligo Formation
320SMCK	Smithwick Shale
110STEP	South Texas Eolian Plain Deposits
124SPRT	Sparta Sand
124SPCZ	Sparta Sand and Carrizo Sand
124SPQC	Sparta Sand and Queen City Sand
124SPSP	Sparta Sand and Spiller Sand Member of Cook Mountain Formation
124SPLR	Spiller Sand Member of Cook Mountain Formation
318SDPP	Standpipe Limestone Member of Arroy Formation
324STRN	Strawn Group
218SCMR	Sycamore Sand Member of Travis Peak Formation
112TAOG	Tahoka and Ogallala Formations
112TAHK	Tahoka Formation
112TEDAS	Tahoka Formation, Fredericksburg Group, and Antlers Sand
367TNRD	Tanyard Formation
211TYLR	Taylor Marl
125THCN	Tehuacana Member of Kincaid Formation
110TRRC	Terrace Deposits
327TSNS	Tesnus Formation
321TFGM	Thrifty and Graham Formations
321TRFT	Thrifty Formation
218TVPK	Travis Peak Formation

Aquifer Code	Aquifer Name
218TPPX	Travis Peak Formation and Paluxy Sand
218TSEB	Trinity (Hensell Sand) and Ellenburger Groups
218TRNT	Trinity Group
218TRGM	Trinity Sand and Graham Formation
218TGHC	Trinity Sand, Graham Formation, and Home Creek Limestone
218TWMW	Twin Mountains and Mineral Wells Formations
218TWMT	Twin Mountains Formation
218TMFP	Twin Mountains Formation and Pennsylvanian Rocks
211CRCSU	Upper Cretaceous Series
218GRHCU	Upper Glen Rose, Hensell, and Cow Creek Members of Pearsall Formation
121UVLD	Uvalde Gravel
318VALE	Vale Formation
400VSPG	Valley Spring Gneiss
318VCPK	Victorio Peak Limestone
120VLCC	Volcanics
218WLNT	Walnut Clay
218WSHT	Washita Group
124WCHS	Weches Formation of Claiborne Group
371WGLM	Welge and Lion Mountain Sandstones
371WELG	Welge Sandstone
371WGLH	Welge, Lion Mountain, and Hickory Sandstones
313WTRS	Whitehorse Group
313WDCB	Whitehorse Group and Dog Creek and Blaine Formations
318WCCC	Wichita and Cisco Groups
318WCHT	Wichita Formation or Group
371WLBR	Wilberns Formation
124WXMW	Wilcox and Midway Groups
124WLCX	Wilcox Group
112GOWS	Willis and Goliad Sands
112WLLS	Willis Sand
125WLSP	Wills Point Formation
321WNCL	Winchell Limestone
321WFMP	Wolf Mountain and Posideon Shales
321WLFM	Wolf Mountain Shale
321WMPP	Wolf Mountain Shale, Posideon Shale, and Palo Pinto Limestone
319WFMP	Wolfcamp Formation
211WLFC	Wolfe City Sand Member of Taylor Marl
212WBPX	Woodbine and Paluxy Formations
212WDBN	Woodbine Sand
212WDBT	Woodbine Sand and Trinity Group
212WBPH	Woodbine Sand and Paluxy and Hosston Formations
124YGCM	Yegua and Cook Mountain Formations
124YEGU	Yegua Formation
124YGJK	Yegua Formation and Jackson Group

Appendix D – Aqu	ner Coues (by Aquiter Coue)
Aquifer Code	Aquifer Name
100ALVM	Alluvium
100CPCR	Cenozoic Pecos Alluvium and Cretaceous Rocks
100CPCRL	Cenozoic Pecos Alluvium and Lower Cretaceous Rocks
100CPDG	Cenozoic Pecos Alluvium and Dockum Formation
100CPDR	Cenozoic Pecos Alluvium and Dockum and Rustler Formations
100PECS	Cenozoic Pecos Alluvium
110AASP	Alluvium, Antlers Sand, and Permian System
110ABDC	Alluvial Plain Deposits, Blaine Gypsum, and Dog Creek Shale
110ACPO	Alluvial Channel and Plain Deposits, and Ochoa Series
110AGRT	Alluvium and Precambrian Granite
110AHTP	Alluvium and High Terrace Plain Deposits
110AHTW	Alluvium, High Terrace Deposits, and Whitehorse Group
110ALTC	Alluvium Low Terrace and Channel Fill Deposits
110ALTO	Alluvium, Low Terrace and Channel Fill Deposits, and Ogallala Formation
110ALTW	Alluvium, Low Terrace and Channel Fill Deposits, and Whitehorse Group
110ALVM	Quaternary Alluvium
110ALVP	Alluvial Plain Deposits
110ALWX	Alluvium, Leona Formation, and Wilcox Group
110ASSA	Alluvium, Terrace Deposits, Seymour Formation, and San Angelo Sandstone
110ATCF	Alluvial Terrace and Channel Deposits, and Flowerpot Shale
110ATCW	Alluvial Terrace and Channel Deposits, and Whitehorse Group
110ATSB	Alluvium, Terrace Deposits and Seymour Formation, and Blaine Formation
110AVAN	Alluvium and Antlers Sand
110AVAR	Alluvium and Arroyo Formation
110AVAU	Alluvium and Austin Chalk
110AVBL	Alluvium and Blaine Gypsum
110AVCB	Alluvium, Choza Formation, and Bullwagon Dolomite
110AVCC	Alluvium and Cretaceous Rocks
110AVCF	Alluvium and Clear Fork Group
110AVCG	Alluvium and Cisco Group
110AVCH	Alluvium and Choza Formation
110AVCM	Alluvium and Cook Mountain Formation
110AVCY	Alluvium and Canyon Group
110AVCZ	Alluvium and Carrizo Sand
110AVDK	Alluvium and Dockum Formation
110AVET	Alluvium, Edwards and Associated Limestones, and Trinity Sands
110AVEV	Alluvium and Evangeline Aquifer
110AVFP	Alluvium, Flood Plain
110AVFV	Alluvium and Fluviatile Terrace Deposits
110AVGL	Alluvium and Goliad Sand
110AVGR	Alluvium and Glen Rose Limestone
110AVJK	Alluvium and Jackson Group
110AVLC	Alluvium and Lower Cretaceous Rocks
110AVLS	Alluvium and Lissie Sand
110AVMA	Alluvium and Artesia Group
110AVME	Alluvium and Edwards and Associated Limestones
110AVMF	Alluvium and Marble Falls Limestone

Aquifer Code	Aquifer Name
110AVML	Alluvium and Leona Formation
110AVMW	Alluvium and Wichita Group
110AVOG	Alluvium and Ogallala Formation
110AVPR	Alluvium and Pease River Group
110AVPS	Alluvium and Permian System
110AVPW	Alluvial Plain Deposits and Whitehorse Group
110AVQC	Alluvium and Queen City Sand
110AVRF	Alluvium and Reklaw Formation
110AVSB	Alluvium and Simsboro Formation
110AVSS	Alluvium and Sparta Sand
110AVTC	Alluvial Terrace and Channel Deposits
110AVTP	Alluvium and Travis Peak Formation
110AVTS	Alluvium, Terrace Deposits, and Seymour Formation
110AVTV	Alluvium and Tertiary Volcanics
110AVTY	Alluvium and Taylor Group
110AVVL	Alluvium and Vale Formation
110AVWX	Alluvium and Wilcox Group
110AVYG	Alluvium and Yegua Formation
110BIBC	Barrier Island and Beach Deposits
110BILD	Barrier Island Deposits
110DOGL	Dune Sand and Ogallala Formation
110DUNE	Dune Sand
110QRNR	Quaternary System
110STEP	South Texas Eolian Plain Deposits
110TRRC	Terrace Deposits
111ABZR	Alluvium, Brazos River
111AVCR	Alluvium, Colorado River
111AVMT	Alluvium and Terrace Deposits
111HPPA	Holocene, Pleistocene, and Pliocene Alluvial Deposits
111PCRV	Pecos River Alluvium
111RGRD	Rio Grande Alluvium
112ALLM	Alta Loma Sand
112BMLG	Beaumont Clay, Lissie Formation, and Goliad Sand
112BMLS	Beaumont Clay and Lissie Formation
112BMNT	Beaumont Clay
112CEVG	Chicot and Evangeline Aquifers
112CHCT	Chicot Aquifer
112CHCTL	Chicot Aquifer, Lower
112CHCTM	Chicot Aquifer, Middle
112CHCTU	Chicot Aquifer, Upper
112EFBL	Eagle Flat Bolson
112GLFC	Gulf Coast Aquifer
112GOLD	Goliad and Younger Rocks, Undifferentiated Willis and Goliad Sands
112GOWS	
112GRBL	Green River Bolson
112HCBL	Hueco Bolson
112LBLG	Leona Formation and Bullwagon Dolomite
112LEON	Leona Formation
112LGLD	Lissie Formation and Goliad Sand

II II	
<b>Aquifer Code</b>	Aquifer Name
112LISS	Lissie Formation
112LNAN	Leona Formation and Antlers Sands
112LNAS	Leona Formation and Austin Chalk
112LNBD	Leona Formation and Buda Limestone
112LNCZ	Leona Formation and Choza Formation
112LNSA	Leona Formation and San Angelo Sandstone
112LSRP	Leona Formation and Serpentine
112LWCX	Leona Formation and Wilcox Group
112MCSB	Mercedes-Sebastian Aquifer
112MSBL	Mesilla Bolson
112PCPC	Pleistocene-Pliocene Series
112PECSA	Pecos Aquifer
112PLSC	Pleistocene Series
112PRBL	Presidio and Redford Bolsons
112RLBL	Red Light Draw Bolson
112SBCR	Salt Bolson and Cretaceous Rocks
112SBCRC	Salt Bolson and Capitan Reef Complex
112SBDM	Salt Bolson and Delaware Mountain Group
112SBLP	Salt Bolson and Permian Rocks
112SBTV	Salt Bolson and Tertiary Volcanics
112SCFX	Seymour Formation and Clear Fork Group
112SLBL	Salt Bolson
112SYCZ	Seymour and Choza Formations
112SYMR	Seymour Formation
112TAHK	Tahoka Formation
112TAOG	Tahoka and Ogallala Formations
112TEDAS	Tahoka Formation, Fredericksburg Group, and Antlers Sand
112WLLS	Willis Sand
120BLSN	Bolson Deposits
120IGNS	Igneous Rocks
120IVIG	Intrusive Rocks
120VLCC	Volcanics
121EVBV	Evangeline Aquifer and Burkeville Aquiclude
121EVGL	Evangeline Aquifer
121EVJP	Evangeline and Jasper Aquifers
121EVJPU	Evangeline Aquifer and Upper Unit of Jasper Aquifer
121GDLG	Goliad Sand and Lagarto Clay
121GOLD	Goliad Sand
1210DPJ	Ogallala Formation, Dakota Group, Purgatoire Formation, and Jurassic Formation
1210GAL	Ogallala Formation and Antlers Sand
1210GDK	Ogallala Formation and Dockum Formation
1210GDP	Ogallala Formation, Dakota Group, and Purgatoire Formation
1210GFA	Ogallala Formation, Fredericksburg Group, and Antlers Sand
1210GFG	Ogallala Formation and Fredericksburg Group
1210GLD	Ogallala Formation and Dakota Group
1210GLL	Ogallala Formation
1210GLM	Ogallala and Morrison Formations
1210GLP	Ogallala and Purgatoire Formations
1210GLW	Ogallala Formation and Whitehorse Group

	A
Aquifer Code	Aquifer Name
1210GPJ	Ogallala Formation, Purgatoire Formation, and Jurassic Formation
121UVLD	Uvalde Gravel
122BKVL	Burkeville Aquiclude
122CJCK	Catahoula Tuff and Jackson Group
122CTHL	Catahoula Formation
122FBKV	Fleming Formation and Burkeville Aquiclude
122FLMG	Fleming Formation
122JBKV	Jasper Aquifer and Burkeville Aquiclude
122JPCL	Jasper Aquifer and Catahoula Sandstone
122JPJK	Jasper Aquifer and Jackson Group
122JSPR	Jasper Aquifer
122JSPRU	Jasper Aquifer, Upper Unit
122LGRT	Lagarto Clay
122LOKV	Lagarto Clay and Oakville Sandstone
1220KVC	Oakville Sandstone and Catahoula Tuff
1220KVL	Oakville Sandstone
123ANHC	Anahuac Formation
124BFCS	Bigford Formation and Carrizo Sand
124BGDF	Bigford Formation of Claiborne Group
124CABF	Calvert Bluff Formation
124CBSB	Calvert Bluff Formation and Simsboro Sand Member
124CKMC	Cook Mountain Formation and Carrizo Sand
124CKMN	Cook Mountain Formation
124CKMS	Cook Mountain Formation and Sparta Sand
124CPRS	Cypress Aquifer
124CRRZ	Carrizo Sand
124CRVR	Cane River Formation
124CZCB	Carrizo Sand and Calvert Bluff Formation
124CZCSB	Carrizo Sand, Calvert Bluff Formation, and Simsboro Formation
124CZSB	Carrizo Sand and Simsboro Sand Member of Rockdale Formation
124CZWX	Carrizo Sand and Wilcox Group, Undifferentiated
124ELPC	El Pico Clay
124HOOP	Hooper Formation
124INDO	Indio Formation
124JCKS	Jackson Group
124JKYG	Jackson Group and Yegua Formation
124LRDO	Laredo Formation
124QCCW	Queen City Sand, Carrizo Sand, and Wilcox Group
124QCCZ	Queen City Sand and Carrizo Sand
124QCRK	Queen City Sand and Reklaw Formation
124QCSP	Queen City Sand and Sparta Sand
124QNCT	Queen City Sand of Claiborne Group
124RKCZ	Reklaw Formation and Carrizo Sand
124RKLW	Reklaw Formation of Claiborne Group
124SBHP	Simsboro Sand Member and Hooper Formation
124SMBR	Simsboro Sand Member of Rockdale Formation
124SPCZ	Sparta Sand and Carrizo Sand
124SPLR	Spiller Sand Member of Cook Mountain Formation
124SPQC	Sparta Sand and Queen City Sand

Aquifer Code	Aquifer Name
124SPRT	Sparta Sand
124SPSP	Sparta Sand and Spiller Sand Member of Cook Mountain Formation
124WCHS	Weches Formation of Claiborne Group
124WLCX	Wilcox Group
124WXMW	Wilcox and Midway Groups
124YEGU	Yegua Formation
124YGCM	Yegua and Cook Mountain Formations
124YGJK	Yegua Formation and Jackson Group
125MDWY	Midway Group
125THCN	Tehuacana Member of Kincaid Formation
125WLSP	Wills Point Formation
210CIGR	Igneous Rocks (Cretaceous)
210CRCS	Cretaceous System
211ACCE	Anacacho Limestone and Escondido Formation
211AEDD	Austin Chalk and Edwards and Associated Limestones
211AGUJ	Aguja Formation
211ANCC	Anacacho Limestone
211ANNN	Annuna Chalk
211ASTN	Austin Chalk
211BLSM	Blossom Sand
211BLWG	Buda Limestone and Washita Group
211BNHM	Bonham Marl
211BQLS	Boquillas Formation
211BUDA	Buda Limestone
211CRCSU	Upper Cretaceous Series
211CRSC	Corsicana Marl
211DKOP	Dakota Group and Purgatoire Formation
211DKOT	Dakota Sandstone or Formation
211DKPJ	Dakota Group, Purgatoire Formation, and Jurassic Rocks
211DLME	Dakota Group, Lytle, Morrison, and Exeter Sandstone
211ECDD	Escondido Formation
211EGFD	Eagle Ford Shale
211GOBR	Gober Tongue of Austin Chalk
211NCTC	Nacatoch Sand
211NVRR	Navarro Group
211NVTY	Navarro and Taylor Groups
211SMGL	San Miguel Formation
211TYLR	Taylor Marl
211WLFC	Wolfe City Sand Member of Taylor Marl
212PEN	Pen Formation
212WBPH	Woodbine Sand and Paluxy and Hosston Formations
212WBPX	Woodbine and Paluxy Formations
212WDBN	Woodbine Sand
212WDBT	Woodbine Sand and Trinity Group
217CRCSL	Lower Cretaceous Series Hosston Formation and Cow Creek Limestone
217HSCC 217HSTN	Hosston Formation and Cow Creek Limestone
217HSTN 217PGTM	
217PGTM 217PRGR	Purgatoire and Morrison Formations Purgatoire Formation
21/1 NUK	

Aquifer Code	Aquifer Name
217SLGO	Sligo Formation
218ALRS	Antlers Sand
218ALSP	Antlers Sand and Pennsylvanian Rocks
218ANTP	Antlers Sand and Permian Rocks
218ASDG	Antlers Sand and Dockum Formation
218CCRK	Cow Creek Limestone
218CMPK	Comanche Peak Limestone
218EBFZA	Edwards and Associated Limestones (Balcones Fault Zone Aquifer)
218EDAD	Edwards and Associated Limestones, Antlers Sand, and Dockum Formation
218EDAS	Edwards and Associated Limestones and Antlers Sand
218EDDT	Edwards and Associated Limestones, and Trinity Group
218EDGR	Edwards and Associated Limestones, and Glen Rose Limestone
218EDGRU	Edwards and Associated Limestones and Upper Member of Glen Rose Limestone
218EDPM	Edwards and Associated Limestones, and Permian System
218EDRD	Edwards Limestone
218EDRDA	Edwards and Associated Limestones
218FGAS	Fredericksburg Group and Antlers Sand
218FKBG	Fredericksburg Group
218FKBT	Fredericksburg and Trinity Groups
218FKBW	Limestones of Fredericksburg and Washita Groups
218FRGR	Fredericksburg Group and Glen Rose Limestone
218FWGR	Limestones of Fredericksburg Group, Washita Group, and Upper Glen Rose Group
218GLRH	Glen Rose Limestone and Hensell Member of Pearsall Formation
218GLRP	Glen Rose Limestone and Pearsall Formation
218GLRS	Glen Rose Limestone
218GLRSL	Glen Rose Limestone, Lower Member
218GLRSU	Glen Rose Limestone, Upper Member
218GLRT	Glen Rose Limestone and Trinity Sand Undifferentiated
218GPSH	Glen Rose (Lower), Pearsall (Hensell, Cow Creek Members), Sligo, and Hosston Formations
218GRCCU	Lower Glen Rose and Cow Creek Limestones
218GRGN	Georgetown Limestone
	Glen Rose Limestone and Hensell Shell and Cow Creek Limestone Members of Pearsall
218GRHC	Formation
218GRHCU	Upper Glen Rose, Hensell, and Cow Creek Members of Pearsall Formation
218GRHH	Glen Rose Limestone, Hensell Sand, and Hosston Formation
218GRLH	Glen Rose Limstone, Lower and Hensell Shell Members of Pearsall Formation
218GRTM	Glen Rose Limestone and Twin Mountains Formation
218GRUH	Glen Rose Limestone, Upper and Hensell Shale Members of Pearsall Formation
218HCSH	Hensell and Cow Creek Members of Pearsall Formation, and Sligo and Hosston Formations
218HEPF	Hensell Sand and Pearsall Formation Hensell Sand and Hosston Formation
218HNHS 218HNSL	Hensell Sand Member of Travis Peak Formation
218HNSL 218HSCC	Hensell Sand and Cow Creek Limestone
218HSCC 218LGRLH	Lower Glen Rose and Hosston Formation
218LUKLH 218PLXP	
218PLXP 218PLXY	Paluxy Formation and Permian Rocks Paluxy Sand
218PLA I 218PRHF	Pearsall and Hosston Formations
218PRSL	Pearsall Formation
218PKSL 218PSGH	Pearsall, Sligo, and Hosston Formations
218PWPW	Pawpaw Formation
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Aquifer Code	Aquifer Name
218PXGR	Paluxy Sand and Glen Rose Limestone
218PXTM	Paluxy and Twin Mountains Formations
218SCMR	Sycamore Sand Member of Travis Peak Formation
218SNEL	Santa Elena Limestone
218TGHC	Trinity Sand, Graham Formation, and Home Creek Limestone
218TMFP	Twin Mountains Formation and Pennsylvanian Rocks
218TPPX	Travis Peak Formation and Paluxy Sand
218TRGM	Trinity Sand and Graham Formation
218TRNT	Trinity Group
218TSEB	Trinity (Hensell Sand) and Ellenburger Groups
218TVPK	Travis Peak Formation
218TWMT	Twin Mountains Formation
218TWMW	Twin Mountains and Mineral Wells Formations
218WLNT	Walnut Clay
218WSHT	Washita Group
219SLGH	Sligo and Hosston Formations
220JRSC	Jurassic System
221EXTR	Exeter Sandstone
231DCKM	Dockum Formation
231DCKP	Dockum Formation and Permian Rocks
300PLZC	Paleozoic Erathem
310PRMN	Permian System
310QRMW	Quartermaster Formation and Whitehorse Group
310QRRM	Quartermaster Formation
312CSTL	Castile Gypsum
312DYLK	Dewey Lake Red Beds
312OCAR	Ochoan Series and Artesia Group
312OCHO	Ochoan Series
312RSLR	Rustler Formation
312SLDO	Salado Formation
313ALTD	Altuda Formation
313ARTS	Artesia Group
313BLIN	Blaine Gypsum
313CPTN	Capitan Limestone
313CRCX	Capitan Reef Complex and Associated Limestones
313CRDM 313DCBF	Capitan Reef Complex - Delaware Mountain Group Dog Creek Shale, Blaine Gypsum, and Flowerpot Shale
313DCBF 313DCKB	Dog Creek Shale and Blaine Gypsum
313DLRM	Delaware Mountain Formation or Group
313DERM 313DMBS	Delaware Mountain Formation of Group Delaware Mountain Group - Bone Spring Limestone
313FLRP	Flowerpot Shale
313SADR	San Andres Limestone
313SVRV	Seven Rivers Formation
313WDCB	Whitehorse Group and Dog Creek and Blaine Formations
313WTRS	Whitehorse Group
318ADML	Admiral Formation
318ARRY	Arroyo Formation
318BLGN	Bullwagon Dolomite Member of Vale Formation
318BLPL	Belle Plains Formation

Aquifer Code	Aquifer Name
318BSPG	Bone Spring Limestone
318BSVP	Bone Spring and Victorio Peak Limestones
318CHOZ	Choza Formation
318CLFK	Clear Fork Group
318CZBW	Choza Formation and Bullwagon Dolomite
318CZVL	Choza and Vale Formations
318LDRS	Lueders Limestone
318MRKL	Merkel Dolomite Member of Choza Formation
318PRVR	Pease River Group
318PTRL	Petrolia Formation
318SACZ	
318SAGL	San Angelo Sandstone and Choza Formation
318SAGL	San Angelo Sandstone Standning Limestone Member of Arroy Formation
	Standpipe Limestone Member of Arroy Formation Vale Formation
318VALE 318VCPK	Victorio Peak Limestone
318WCCC	
318WCHT	Wichita and Cisco Groups Wighita Ecomption or Group
319ARCT	Wichita Formation or Group
319ARC1 319CMJC	Archer City Formation Coleman Junction Limestone Member of Putnam Formation
319CMJC 319MORN	Moran Formation
319PTNM	Putnam Formation
319PUBL	Pueblo Formation
319WFMP	
320MBLF	Wolfcamp Formation Marble Falls Limestone
320PSLV	
	Pennsylvanian System Smithwick Shale
320SMCK 321AVIS	Avis Sandstone
321CCPS	
321CCPS 321CCRP	Colony Creek and Placid Shales Colony Creek Shale, Ranger Limestone, and Placid Shale
321CLCK	Colony Creek Shale
321CLCK 321CNCS	Canyon and Cisco Groups
321CNYN	Canyon Group
321CNTN 321CSCO	Cisco Group
321GRHM	Graham Formation
321GZCK	Gonzales Creek Member
3210ZCK 321HMCK	Home Creek Limestone
321HMCK 321HPVL	Harpersville Formation
321MARK	Markley Formation
321MARK 321PLCD	Placid Shale
321PLCD 321PLPN	Palo Pinto Limestone
321PLPT	Palo Pinto Formation
321PPTC	Palo Pinto Formation and Turkey Creek Sandstone
321PSWM	Placid Shale and Wolf Mountain Formation
321PWWM	Placid Shale, Winchell Limestone, and Wolf Mountain Shale
321RNGR	Ranger Limestone
321TFGM	Thrifty and Graham Formations
321TFOM 321TRFT	Thrifty Formation
321WFMP	Wolf Mountain and Posideon Shales
321WLFM	Wolf Mountain Shale
521 W L11W	

Aquifer Code	Aquifer Name
321WMPP	Wolf Mountain Shale, Posideon Shale, and Palo Pinto Limestone
321WNCL	Winchell Limestone
324BZRVL	Brazos River Conglomerate Member, Lower Part of Garner Formation
324BZRVU	Brazos River Conglomerate Member, Upper Part of Garner Formation
324MLWL	Mineral Wells Formation
324MWBR	Mineral Wells and Brazos River Formations
324STRN	Strawn Group
327MFEB	Marble Falls Limestone and Ellenburger Group
327TSNS	Tesnus Formation
367ALST	Alstate Shale
367EBCR	Ellenburger Group and Cambrian Rocks
367EBHK	Ellenburger Group and Hickory Sandstone
367EBPH	Ellenburger Group and Post-Hickory Sandstone Cambrian Rocks
367EBSS	Ellenburger Group and San Saba Aquifer
367EBSW	Ellenburger Group, San Saba Limestone, and Welge Sandstone
367ELBG	Ellenburger Group
367GRMN	Gorman Formation
367HNCT	Honeycut Formation
367MRTN	Marathon Limestone
367TNRD	Tanyard Formation
370CMBR	Cambrian System
371CPMN	Cap Mountain of The Riley Formation
371GRNT	Granite Wash
371HCKR	Hickory Sandstone
371LNMN	Lion Mountain Sandstone
371MCWG	Morgan Creek Limestone and Welge Sandstone
371MGCK	Morgan Creek Limestone Member of Wilberns Formation
371MWLM	Morgan Creek Limestone and Welge and Lion Mountain Sandstones
371PNPK	Point Peak Shale Member of Wilberns Formation
071DE011	Rocks Between Ellenburger-San Saba Aquifer and Hickory Sandstone Member of Riley
371RESH	Formation
371RILY	Riley Formation
371SNSB	San Saba Limestone
371WELG	Welge Sandstone
371WGLH	Welge, Lion Mountain, and Hickory Sandstones
371WGLM	Welge and Lion Mountain Sandstones
371WLBR	Wilberns Formation
400GRNT	Precambrian Granite Packsaddle Schist
400PCKD	Precambrian Erathem
400PCMB	
400VSPG	Valley Spring Gneiss
NOT-APPL UNKNOWN	Aquifer Code Is Not Applicable To This Well Aquifer Not Able To Be Determined
UNIXINUWIN	Aquita Not Able 10 be Determined

Appendix	<b>C</b> –	Historical	Remark	Codes
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Remarks	Code
No irregularities relative to measurement.	Leave Blank
Remarks not assembled for data collected before 1961.	01
Well pumping (pumping level measurement) Note: Use code 14 if no measurement is obtained.	02
Well or wells pumping nearby.	03
Well pumped recently.	04
Near wet weather lake (possible recharge factor). Note: Code 36 denotes another recharge factor.	05
(Artificial) Recharge Operation at or near well.	06
Questionable measurement, casing wet or leaking. Note: Use code 15 when no measurement is obtained.	07
Questionable measurement, wet, spotty mark. Note: For use with open hole (no casing) completion; otherwise use code 07.	08
Questionable measurement, leaking air line. Note: Use code 20 when no measurement is obtained.	09
No measurement – Well destroyed.	10
No measurement, well temporarily inaccessible (covered with rocks, debris, well thoroughly winterized, etc.), need permission to measure from new well owner.	11
No measurement, tape hangs.	12
No measurement, unable to insert tape in casing.	13
No measurement, pumping. Note: If measurement is obtained use code 02.	14
No measurement, casing leaking or wet. Note: Use code 07 when measurement is obtained.	15
No measurement, unable to locate well. Note: For use <u>if</u> reason(s) are other than those in code 22 (ex: covered over indefinitely but not destroyed).	16
No measurement, well apparently dry, unable to reach water. Note: Use when reported well depth was reached without finding water.	17
No measurement, well apparently caved, unable to reach water. Note: Use only when well depth reached appears to be or is obviously too shallow to be actual well depth and well is to be dropped from program; otherwise use Code 21.	18
Questionable measurement, pressure shut-in connection leaking Note: For use when measuring flowing well, use code 09 for air line method.	19
No measurement, pressure shut-in connection leaking. Note: May be used on flowing well or when attempting measurement by air line method.	20

Remarks	Code
No measurement, well filled with debris. Note: Do not confuse with Code 18, should be used when condition appears to be temporary.	21
No measurement, well apparently improperly located on map or description of well location inadequate.	22
No measurement, reason not stated. Note: For use when recording data from outside sources.	23
Measurements discontinued, no reason stated. Note: For use when recording data from outside sources.	24
No measurement, well flowing and unable to shut-in.	25
No measurement, well dropped from observation program (not needed or unsatisfactory – see well schedule remarks).	26
No measurement, well site temporarily inaccessible due to conditions caused by inclement weather or the well owner or operator.	27
Questionable measurement, reason for which is not clearly understood by measurer.	28
No measurement, unable to reach water. Note: For use when water level is beyond reach of measuring equipment at hand.	29
Owner does not want well measured (drop from active program)	30
No measurement, gate locked.	31
No measurement, pump house locked.	32
Questionable measurement, tape does not fall free.	33
No measurement, temporary, hazardous condition for measurer (bad animal, bad terrain, etc.). Note: Use code 39 when condition appears permanent and well will be dropped from program.	34
Questionable measurement, deleted after review by Section Head.	35
Questionable measurement, possible surface run-off due to recent heavy rains (a recharge factor).	36
No measurement, well reviewed by Section Head and deleted from current annual measurement due to national energy crisis limitations.	37
Questionable measurement, measurement may be from another well.	38
Well dropped from program because of continuing very hazardous conditions to measurer (ex: vicious animals).	39
No measurement, currently deleted due to work priorities or staff or unnecessary for water table configuration control in the area.	40
Measurement deviation from previous measurements is due to well work over resulting in change of producing interval.	41
No measurement due to long-term priority field work in connection with an Ogallala Aquifer System Study.	42
Questionable measurement, may reflect perched water table.	43

Code	Long Description	Units
77562	1,1,1,2-Tetrachloroethane, Total, ug/L	ug/L
34507	1,1,1-Trichloroethane, Dissolved, ug/L	ug/L
34506	1,1,1-Trichloroethane, Total, ug/L	ug/L
34516	1,1,2,2-Tetrachloroethane, Total, ug/L	ug/L
34512	1,1,2-Trichloroethane, Dissolved, ug/L	ug/L
34511	1,1,2-Trichloroethane, Total, ug/L	ug/L
34496	1,1-Dichloroethane, Total, ug/L	ug/L
34502	1,1-Dichloroethylene, Dissolved, ug/L	ug/L
34501	1,1-Dichloroethylene, Total, ug/L	ug/L
77168	1,1-Dichloropropene, Total, ug/L	ug/L
77613	1,2,3-Trichlorobenzene In Whole Water, ug/L	ug/L
77443	1,2,3-Trichloropropane, Total, ug/L	ug/L
77734	1,2,4,5-Tetrachlorobenzene In Whole Water, ug/L	ug/L
34552	1,2,4-Trichlorobenzene, Dissolved, ug/L	ug/L
34551	1,2,4-Trichlorobenzene, Total, ug/L	ug/L
04413	1,2-Dibromo-3-Chloropropane, Total, ug/L	ug/L
77651	1,2-Dibromoethane, Total, ug/L	ug/L
34537	1,2-Dichlorobenzene(Ortho), Dissolved, ug/L	ug/L
34536	1,2-Dichlorobenzene, Total, ug/L	ug/L
34532	1,2-Dichloroethane, Dissolved, ug/L	ug/L
32103	1,2-Dichloroethane, Total, ug/L	ug/L
34542	1,2-Dichloropropane, Dissolved, ug/L	ug/L
34541	1,2-Dichloropropane, Total, ug/L	ug/L
34347	1,2-Diphenylhydrazine, Dissolved, ug/L	ug/L
34346	1,2-Diphenylhydrazine, Total, ug/L	ug/L
34566	1,3-Dichlorobenzene, Total, ug/L	ug/L
77173	1,3-Dichloropropane, Total, ug/L	ug/L
34561	1,3-Dichloropropene In Whole Water Sample, ug/L	ug/L
77163	1,3-Dichloropropene, Total, ug/L	ug/L
34571	1,4-Dichlorobenzene, Total, ug/L	ug/L
78942	1-Chloro-2-Methylbenzene, Total, ug/L	ug/L
82637	1-Chloro-4-Methylbenzene, Total, ug/L	ug/L
49295	1-Naphthol, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
73457	2 Butene Trans-1 4-Dichloro, Unfiltered, Rec	ug/L
39742	2, 4, 5-T, Water, Dissolved, ug/L	ug/L
39732	2, 4-D, Water, Dissolved, ug/L	ug/L
82660	2, 6-Diethylaniline, Water, Filtered, ug/L	ug/L
77170	2,2-Dichloropropane, Total, ug/L	ug/L
60039	2,3- Dichloro-2-Methyl-Butane In Whole Water, ug/L	ug/L
34676	2,3,7,8-Tetrachlorodibenzo-P-Dioxin(Tcdd)Diss ug/L	ug/L
39740	2,4,5-T, Total, ug/L	ug/L
39045	2,4,5-Tp Includes Acids & Salts In Water, ug/L	ug/L
77687	2,4,5-Trichlorophenol In Whole Water, ug/L	ug/L
34622	2,4,6-Trichlorophenol, Dissolved, ug/L	ug/L
34621	2,4,6-Trichlorophenol, Total, ug/L	ug/L
39730	2,4-D, Total, ug/L	ug/L
38745	2,4-Db, Total, ug/L	ug/L

Code	Long Description	Units
38746	2,4-Db, Water, Dissolved, ug/L	ug/L
34602	2,4-Dichlorophenol, Dissolved, ug/L	ug/L
34601	2,4-Dichlorophenol, Total, ug/L	ug/L
34607	2,4-Dimethylphenol, Dissolved, ug/L	ug/L
34606	2,4-Dimethylphenol, Total, ug/L	ug/L
34617	2,4-Dinitrophenol, Dissolved, ug/L	ug/L
34616	2,4-Dinitrophenol, Total, ug/L	ug/L
34612	2,4-Dinitrotoluene, Dissolved, ug/L	ug/L
34611	2,4-Dinitrotoluene, Total, ug/L	ug/L
82183	2,4-Dp, Total, ug/L	ug/L
51002	2,6-Dinitro-2-Cresol, Total, ug/L	ug/L
34627	2,6-Dinitrotoluene, Dissolved,ug/L	ug/L
34626	2,6-Dinitrotoluene, Total, ug/L	ug/L
34577	2-Chloroethyl Vinyl Ether, Dissolved, ug/L	ug/L
34576	2-Chloroethyl Vinyl Ether, Total, ug/L	ug/L
34582	2-Chloronaphthalene, Dissolved, ug/L	ug/L
34581	2-Chloronaphthalene, Total, ug/L	ug/L
77182	2-Heptanone In Whole Water, ug/L	ug/L
77102	2-Hexanone, Water Whole, Total	ug/L
60013	2-Methyl Butane, Total, ug/L	ug/L
60013	2-Methyl Propane, Total, ug/L	ug/L
77416	2-Methylnaphthalene In Whole Water, ug/L	ug/L
34592	2-Nitrophenol, Dissolved, ug/L	ug/L ug/L
34591	2-Nitrophenol, Total, ug/L	ug/L ug/L
34632	3,3'-Dichlorobenzidine, Dissolved, ug/L	-
34632 34631	3,3'-Dichlorobenzidine, Total, ug/L	ug/L
60040		ug/L
	3-Chloro-2-Butanol In Whole Water Sample, ug/L	ug/L
49308	3-Hydroxy Carbofuran, Water, .7u Filt, Tot Rec ug/L	ug/L
82584	3-Hydroxy Carbofuran,In Water, ug/L	ug/L
60036 51006	3-Methyl-4-Chlorophenol In Whole Water, ug/L	ug/L
51006	4,4'-Ddd, Total, ug/L	ug/L
51005	4,4'-Dde, Total, ug/L	ug/L
51007	4,4'-Ddt, Total, ug/L	ug/L
51008	4,6-Dinitro-2-Cresol In Whole Water, (ug/L)	ug/L
34637	4-Bromophenyl Phenyl Ether, Dissolved, ug/L	ug/L
34636	4-Bromophenyl Phenyl Ether, Total, ug/L	ug/L
77421	4-Chloro-3-Cresol, Total, ug/L	ug/L
60037	4-Chloroaniline In Whole Water, ug/L	ug/L
34642	4-Chlorophenyl Phenyl Ether, Dissolved, ug/L	ug/L
34641	4-Chlorophenyl Phenyl Ether, Total, ug/L	ug/L
34647	4-Nitrophenol, Dissolved, ug/L	ug/L
34646	4-Nitrophenol, Total, ug/L	ug/L
34253	A-Bhc-Alpha, Total, ug/L	ug/L
34206	Acenaphthene, Dissolved, ug/L	ug/L
34205	Acenaphthene, Total, ug/L	ug/L
34201	Acenaphthylene, Dissolved, ug/L	ug/L
34200	Acenaphthylene, Total, ug/L	ug/L
77057	Acetate Vinyl, Water, Unfiltered, Rec	ug/L
49260	Acetochlor, Water, Filtered Rec, ug/L	ug/L

Code	Long Description	Units
81552	Acetone, Total, ug/L	ug/L
00435	Acidity Total (mg/L As CaCO3)	mg/L
00437	Acidity, Co2 (Phenolph.)(mg/L As CaCO3)	mg/L
82242	Acidity, Total As CaCO3 Field Data	mg/L
49315	Acifluorfen, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
79193	Acifluorfen, Total, ug/L	ug/L
34211	Acrolein, Dissolved, ug/L	ug/L
34210	Acrolein, Total, ug/L	ug/L
38576	Acrylamide, Total, ug/L	ug/L
34216	Acrylonitrile, Dissolved, ug/L	ug/L
34215	Acrylonitrile, Total, ug/L	ug/L
82383	Aggressive Index = $Ph + Log(Ah)$	LOGA
46342	Alachlor (Lasso), Dissolved, ug/L	ug/L
77825	Alachlor, Total, ug/L	ug/L
49313	Aldicarb Sulfone, .7 U Filt, Tot Recv, Water, ug/L	ug/L
82587	Aldicarb Sulfone, Total, ug/L	ug/L
82586	Aldicarb Sulfoxide, Total, ug/L	ug/L
49314	Aldicarb Sulfoxide, Water, .7u Filt, Tot Rec,ug/L	ug/L
49312	Aldicarb, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
39053	Aldicarb, Total, ug/L	ug/L
39331	Aldrin, Dissolved, ug/L	ug/L
39330	Aldrin, Total, ug/L	ug/L
82244	Alkalinity Phenolphthalein Field Data (mg/L)	mg/L
00431	Alkalinity Total Field (mg/L As CaCO3)	mg/L
39086	Alkalinity, Field, Dissolved As CaCO3	mg/L
00415	Alkalinity, Phenolphthalein, mg/L	mg/L
00410	Alkalinity, Total (mg/L As CaCO3)	mg/L
80000	Alpha Activity, pC/mg	pC/mg
80002	Alpha and Beta Activity, Total, pC/L	pC/L
80045	Alpha Gross Particle Activity, Total, pC/L	pC/L
60043	Alpha Hch, Dissolved, ug/L	ug/L
01515	Alpha, Dissolved Gross, As Uranium Natural, pC/L	pC/L
01503	Alpha, Dissolved, pC/L	pC/L
01516	Alpha, Suspended Gross, As Uranium Natural, pC/L	pC/L
01501 01106	Alpha, Total, pC/L Aluminum, Dissolved (ug/L As Al)	pC/L
01100	Aluminum, Total (ug/L As Al)	ug/L
79191	Ambush (Permethrin), Total, ug/L	ug/L ug/L
38401	Ambush (refinetinin), Total, ug/L Ametryn, Dissolved, ug/L	ug/L ug/L
82184	Ametryn, Total, ug/L	ug/L ug/L
82051	Amiben, Dissolved, ug/L	ug/L ug/L
49307	Amiben, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
00619	Ammonia, Unionized (Calc Fr Temp-Ph-Nh4) (mg/L)	mg/L
00612	Ammonia, Unionized, mg/L As N	mg/L
77089	Aniline In Whole Water, ug/L	ug/L
34221	Anthracene, Dissolved, ug/L	ug/L ug/L
34220	Anthracene, Total, ug/L	ug/L
01095	Antimony, Dissolved (ug/L As Sb)	ug/L
01095	Antimony, Total (ug/L As Sb)	ug/L

Code	Long Description	Units
73511	Arsenic Acid, Total, ug/L	ug/L
01000	Arsenic, Dissolved (ug/L As As)	ug/L
22678	Arsenic, Dissolved Organic, ug/L	ug/L
01002	Arsenic, Total (ug/L As As)	ug/L
34226	Asbestos (Fibrous), Dissolved, ug/L	ug/L
38414	Atraton (Gestamin), Total, ug/L	ug/L
82185	Atraton, Total, ug/L	ug/L
39630	Atrazine (Aatrex), Total, ug/L	ug/L
39033	Atrazine, Total, ug/L	ug/L
39632	Atrazine, Water, Dissolved, ug/L	ug/L
81890	Azodrin (Monocrotophos), Total, ug/L	ug/L
82052	Banvel (Dicamba), Total, ug/L	ug/L
38418	Barban, Total, ug/L	ug/L
01005	Barium, Dissolved (ug/L As Ba)	ug/L
01007	Barium, Total (ug/L As Ba)	ug/L
34255	B-Bhc-Beta, Total, ug/L	ug/L
39002	Benefin, Electroncapture, Total, ug/L	ug/L
82673	Benfluralin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
38711	Bentazon, Dissolved, ug/L	ug/L
38710	Bentazon, Total, ug/L	ug/L
77221	Benzene 123-Tri Methyl, Water, Untltrd, Rec	ug/L
34030	Benzene In Wtr Smpl Gc-Ms, Hexadecone Extr.(ug/L)	ug/L
34235	Benzene, Dissolved, ug/L	ug/L
78124	Benzene, Volatile Analysis, Total, ug/L	ug/L
73518	Benzenethiol, Total, ug/L	ug/L
34239	Benzidine, Dissolved, ug/L	ug/L
39120	Benzidine, Total, ug/L	ug/L
34527	Benzo(A) Anthracene, Total, ug/L	ug/L
34248	Benzo(A) Pyrene, Dissolved, ug/L	ug/L
34247	Benzo-(A)-Pyrene, Total, ug/L	ug/L
34231	Benzo(B)Fluoranthene, Dissolved, ug/L	ug/L
34230	Benzo(B)Fluoranthene, Total, ug/L	ug/L
34522	Benzo(Ghi) Perylene, Dissolved, ug/L	ug/L
34521	Benzo(Ghi)Perylene, Total, ug/L	ug/L
34243	Benzo(K)Fluoranthene, Dissolved, ug/L	ug/L
34242	Benzo(K)Fluoranthene, Total, ug/L	ug/L
77247	Benzoic Acid In Whole Water, ug/L	ug/L
77147	Benzyl Alcohol In Whole Water, ug/L	ug/L
01010	Beryllium, Dissolved (ug/L As Be)	ug/L
01012	Beryllium, Total (ug/L As Be)	ug/L
80001	Beta Activity, pC/mg	pC/mg
03511	Beta, Dissolved, Pc/Gm	PC/M
03503	Beta, Dissolved, pC/L	pC/L
03516	Beta, Suspended Gross, As Cs-137, pC/L	pC/L
80060	Beta, Suspended Gross, As Sr-Y-90, pC/L	pC/L
03501	Beta, Total, pC/L	pC/L
82197	Betasan (N-2-Mercaptoethyl Benzene Sulfmde) ug/L	ug/L
00440	Bicarbonate Ion (mg/L As Hco3)	mg/L
00453	Bicarbonate, Dissolved As Hco3, Field, mg/L	mg/L

Code	Long Description	Units
00450	Bicarbonate,Increment Titration,(Hco3)Field,mg/L	mg/L
60008	Bi-Cyclo-Octa-Triene, Total, ug/L	ug/L
34278	Bis (2-Chloroethoxy) Methane, Total, ug/L	ug/L
34273	Bis (2-Chloroethyl) Ether, Total, ug/L	ug/L
34283	Bis (2-Chloroisopropyl) Ether, Total, ug/L	ug/L
34279	Bis(2-Chloroethoxy)Methane, Dissolved, ug/L	ug/L
34274	Bis(2-Chloroethyl) Ether, Dissolved, ug/L	ug/L
34284	Bis(2-Chloroisopropyl) Ether, Dissolved, ug/L	ug/L
77903	Bis(2-Ethylhexyl) Adipate In Whole Water, ug/L	ug/L
39103	Bis(2-Ethylhexyl) Phthalate, Dissolved, ug/L	ug/L
39100	Bis(2-Ethylhexyl) Phthalate, Total, ug/L	ug/L
01015	Bismuth, Dissolved (ug/L As Bi)	ug/L
01017	Bismuth, Total (ug/L As Bi)	ug/L
81651	Bisphenol, Total, ug/L	ug/L
01020	Boron, Dissolved (ug/L As B)	ug/L
01022	Boron, Total (ug/L As B)	ug/L
82198	Bromacil (Hyvar), Total, ug/L	ug/L
30234	Bromacil, Water, Whole, Recoverable, ug/L	ug/L
04029	Bromacil, Dissolved, Water, Total Recoverable, ug/L	ug/L
71870	Bromide, Dissolved, (mg/L As Br)	mg/L
82298	Bromide, Dissolved, (ug/L As Br)	ug/L
81555	Bromobenzene, Total, ug/L	ug/L
77297	Bromochloromethane, In Whole Water, ug/L	ug/L
32101	Bromodichloromethane, Total, ug/L	ug/L
34288	Bromoform, Dissolved, ug/L	ug/L
32104	Bromoform, Total, ug/L	ug/L
78383	Bromomethane, Total, ug/L	ug/L
49311	Bromoxynil, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
77860	Butachlor, Total, ug/L	ug/L
30235	Butachlor, Water, Whole, Recoverable, ug/L	ug/L
60017	Butyl Piperidine, Total, ug/L	ug/L
81410	Butylate (Sutan), Total, ug/L	ug/L
30236	Butylate, Water, Whole, Recoverable, ug/L	ug/L
04028	Butylate, Dissolved, Water, Total Recoverable, ug/L	ug/L
51003	Butylbenzyl Phthalate, Total, ug/L	ug/L
01025	Cadmium, Dissolved (ug/L As Cd)	ug/L
01027	Cadmium, Total, ug/L	ug/L
00910	Calcium (mg/L As CaCO3)	mg/L
00915	Calcium, Dissolved (mg/L As Ca)	mg/L
46552	Calcium, Field Acidified W/Hno3, Filtered, mg/L	mg/L
00916	Calcium, Total (mg/L As Ca)	mg/L
39640	Captan, Total, ug/L	ug/L
78168	Carbamates, ug/L	ug/L
77700	Carbaryl (Sevin), Total, ug/L	ug/L
82680	Carbaryl, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49310	Carbaryl, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
81405	Carbofuran (Euradan), Total, ug/L	ug/L
82674	Carbofuran, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49309	Carbofuran, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L

Code	Long Description	Units
28004	Carbon 14 Diss Apparent Age (Years Bp)	YR-B
82172	Carbon 14 Percent Modern	%
00405	Carbon Dioxide (mg/L As Co2)	mg/L
77041	Carbon Disulfide, Total, ug/L	ug/L
34297	Carbon Tetrachloride, Dissolved, ug/L	ug/L
32102	Carbon Tetrachloride, Total, ug/L	ug/L
00691	Carbon, Dissolved Inorganic (mg/L As C)	mg/L
00681	Carbon, Dissolved Organic (mg/L As C)	mg/L
00684	Carbon, Dissolved, Organic, Whatman Gf/F, mg/L	mg/L
00690	Carbon, Total (mg/L As C)	mg/L
00685	Carbon, Total Inorganic (mg/L As C)	mg/L
00680	Carbon, Total Organic (mg/L As C)	mg/L
82081	Carbon-13 / Carbon-12 Stable Isotope Ratio Per Mil	0/00
00445	Carbonate Ion (mg/L As Co3)	mg/L
00452	Carbonate, Incr Titration, Dissolved, Field, mg/L	mg/L
00447	Carbonate, Incremental Titration, Field, Tot.mg/L	mg/L
70978	Carboxin (Vitavax), Total, ug/L	ug/L
30245	Carboxin, Water, Whole, Recoverable, ug/L	ug/L
01110	Cerium, Dissolved (ug/L As Ce)	ug/L
01112	Cerium, Total, ug/L	ug/L
28410	Cesium 134, Dissolved, pC/L	pC/L
28414	Cesium 134, Total, pC/L	pC/L
28403	Cesium 137, Dissolved, pC/L	pC/L
28401	Cesium 137, Total, pC/L	pC/L
01115	Cesium, Dissolved (ug/L As Cs)	ug/L
01117	Cesium, Total, pC/L	pC/L
00335	Chemical Oxygen Demand, .025n K2cr207 (mg/L)	mg/L
39352	Chlordane (Tech Mix & Metabs), Dissolved, ug/L	ug/L
39350	Chlordane, Total, ug/L	ug/L
39348	Chlordane-Alpha, Total, ug/L	ug/L
39062	Chlordane-Cis, Total, ug/L	ug/L
39810	Chlordane-Gamma, Total, ug/L	ug/L
39065	Chlordane-Trans, Total, ug/L	ug/L
00941	Chloride, Dissolved, mg/L	mg/L
00940	Chloride, Total (mg/L As Cl)	mg/L
74052	Chlorinated Hydrocarbons, General (Permit)	GEN
81397	Chlorinated Organic Compounds, mg/L	mg/L
34302	Chlorobenzene, Dissolved, ug/L	ug/L
34301	Chlorobenzene, Total, ug/L	ug/L
39460	Chlorobenzilate, Total, ug/L	ug/L
34307	Chlorodibromomethane, Total, ug/L	ug/L
34312	Chloroethane, Dissolved, ug/L	ug/L
34311	Chloroethane, Total, ug/L	ug/L
60021	Chloroethylvinyl Ether, Total, ug/L	ug/L
34316	Chloroform, Dissolved, ug/L	ug/L
32106	Chloroform, Total, ug/L	ug/L
79132	Chloromethane, Total, ug/L	ug/L
77966	Chlorophenol, Total, ug/L	ug/L
49306	Chlorothalonil, Dissolved, ug/L	ug/L

Code	Long Description	Units
77970	Chlorotoluene, Total, ug/L	ug/L
81322	Chlorpropham (Cipc), Total, ug/L	ug/L
38932	Chlorpyrifos, Water, Whole, Recoverable, ug/L	ug/L
01030	Chromium, Dissolved (ug/L As Cr)	ug/L
46560	Chromium, Field Acidified W/Hno3, Filtered, ug/L	ug/L
01034	Chromium, Total (ug/L As Cr)	ug/L
34321	Chrysene, Dissolved, ug/L	ug/L
34320	Chrysene, Total, ug/L	ug/L
82418	Cis Permethrin, Total, ug/L	ug/L
77093	Cis-1,2-Dichloroethylene, Total, ug/L	ug/L
34705	Cis-1,3-Dichloropropene, Dissolved, ug/L	ug/L
34704	Cis-1,3-Dichloropropene, Total, ug/L	ug/L
50003	Cis-1,3-Dichloropropylene, Total, ug/L	ug/L
82687	Cis-Permethrin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49305	Clopyralid, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
82307	Cobalt 60, Dissolved, pC/L	ug/11
01035	Cobalt, Dissolved (ug/L As Co)	ug/L
01035	Cobalt, Total (ug/L As Co)	ug/L
74056	Coliform, Total, General (Permit)	GEN
01040	Copper, Dissolved (ug/L As Cu)	ug/L
01040	Copper, Total (ug/L As Cu)	ug/L
79778	Cresol, M- & P-, Total (ug/L)	ug/L
00725	Cyanate (mg/L As Ocn)	mg/L
81757	Cyanazine, Total, ug/L	-
04041	Cyanazine, Total, ug/L Cyanazine, Dissolved, Water, Total Recoverable, ug/L	ug/L
00723	Cyanide, Dissolved, Std Method, ug/L	ug/L
	Cyanide, Total (mg/L As Cn)	ug/L
00720	• • •	mg/L
78248	Cyanide, Total, ug/L Cyalecta, Water, Whole, Recoverable, ug/L	ug/L
30254	Cycloate, Water, Whole, Recoverable, ug/L	ug/L
60029	Cycloheptane, Total, ug/L	ug/L
60006	Cycloheptatriene, Total, ug/L	ug/L
81570	Cyclohexane, Total, ug/L	ug/L
77097	Cyclohexanone, Total, ug/L	ug/L
81892	Cyloate (Roneet), Total, ug/L	ug/L
39771	Dacthal (Dcpa), Dissolved, ug/L	ug/L
39770	Dacthal (Dcpa), Total, ug/L	ug/L
49304	Dacthal Monoacid, Water, 0.7 Um Filt, Tot Rec,ug/L	ug/L
38433	Dalapon, Dissolved, ug/L	ug/L
38432	Dalapon, Total, ug/L	ug/L
39006	Dasanit (Fensulfothion), Total, ug/L	ug/L
38761	Dbcp (Dibromochloropropane), Dissolved, ug/L	ug/L
82682	Dcpa, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
39361	Ddd, Dissolved, ug/L	ug/L
39360	Ddd, Total, ug/L	ug/L
39366	Dde, Dissolved, ug/L	ug/L
39365	Dde, Total, ug/L	ug/L
39371	Ddt, Dissolved, ug/L	ug/L
39370	Ddt, Total, ug/L	ug/L
46373	Deethylatrazine (G-30033), Whole Water, ug/L	ug/L

Code	Long Description	Units
75981	De-Ethylatrazine, Whole Water, Total, ug/L	ug/L
04040	Deethylatrazine, Dissolved, Water, Total Recov.,ug/L	ug/L
17794	Deethylhydroxyatrazine (G-17794), Total, ug/L	ug/L
81295	Def (Tribufos), Total, ug/L	ug/L
39040	Def, Total, ug/L	ug/L
46374	Deisopropylatrazine (G-28279), Whole Water, ug/L	ug/L
75980	De-Isopropylatrazine, Whole Water, Total, ug/L	ug/L
17792	Deisopropylhydroxyatrazine (G-17792), Total, ug/L	ug/L
82087	Delta 13 Carbon, Pdb Standard	None
50791	Delta Deuterium, Expressed As Permil Vsmow	0/00
50790	Delta Oxygen-18, Expressed As Permil Vsmow	0/00
49932	Delta Sulfur-34 On Sulfate, Diss.	PMIL
46323	Delta-Bhc, Total, ug/L	ug/L
39560	Demeton, Total, ug/L	ug/L
71820	Density (Gm/Ml At 20c)	G/ML
28273	Diaminochloroatrazine (G-28273), Whole Water, ug/L	ug/L
04442	Diaminohydroxyatrazine (Gs-17791), Total, ug/L	ug/L
39572	Diazinon, Dissolved, ug/L	ug/L
39570	Diazinon, Total, ug/L	ug/L
51004	Dibenzo (A,H) Anthracene, Total, ug/L	ug/L
81302	Dibenzofuran In Whole Water, ug/L	ug/L
32105	Dibromochloromethane, Total, ug/L	ug/L
38760	Dibromochloropropane (Dbcp), Total, ug/L	ug/L
82625	Dibromochloropropane,Water,Total Recoverable,ug/L	ug/L
81522	Dibromoethane, Total, ug/L	ug/L
78756	Dibromomethane, Total, ug/L	ug/L
30217	Dibromomethane, Water, Whole Recoverable, ug/L	ug/L
39112	Dibutyl Phthalate, Total, ug/L	ug/L
38442	Dicamba (Banvel) Water, Dissolved, ug/L	ug/L
49303	Dichlobenil, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
81524	Dichlorobenzene, Total, ug/L	ug/L
34668	Dichlorodifluoromethane, Total, ug/L	ug/L
81575	Dichloroiodomethane, Total, ug/L	ug/L
78750	Dichloromethane, Total, ug/L	ug/L
60009	Dichloro-Methyl-Butane, Total, ug/L	ug/L
30190	Dichlorprop, Total, ug/L	ug/L
49302	Dichlorprop, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
73071	Dichlorvos, Total, ug/L	ug/L
38446	Dicloran, Total, ug/L	ug/L
39381	Dieldrin, Dissolved, ug/L	ug/L
39380	Dieldrin, Total, ug/L	ug/L
46312	Diethyl Hexyl Phthalate, Total, ug/L	ug/L
34337	Diethyl Phthalate, Dissolved, ug/L	ug/L
34336	Diethyl Pthalate, Total, ug/L	ug/L
39031	Difolatan (Captafol), Total, ug/L	ug/L
60020	Dihydro-Dimethylfuran, Total, ug/L	ug/L
60028	Diiodochloromethane, Total, ug/L	ug/L
81577	Di-Isopropylether, Water, Unfltrd, Rec	ug/L
82662	Dimethoate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L

Code	Long Description	Units
46314	Dimethoate, Total, ug/L	ug/L
60010	Dimethyl Hexene, Total, ug/L	ug/L
60019	Dimethyl Pentene, Total, ug/L	ug/L
34342	Dimethyl Phthalate, Dissolved, ug/L	ug/L
34341	Dimethyl Pthalate, Total, ug/L	ug/L
60005	Dimethyl-Benzo-Dipyran-2-One, Total, ug/L	ug/L
34327	Di-N-Butyl Phthalate, Dissolved, ug/L	ug/L
39110	Di-N-Butyl Phthalate, Total, ug/L	ug/L
34597	Di-N-Octyl Phthalate, Dissolved, ug/L	ug/L
34596	Di-N-Octyl Phthalate, Total, ug/L	ug/L
38779	Dinoseb, Dissolved, ug/L	ug/L
30191	Dinoseb, Total, ug/L	ug/L
49301	Dinoseb, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
78004	Diphenamid, Total, ug/L	ug/L
30255	Diphenamid, Water, Whole, Recoverable, ug/L	ug/L
77579	Diphenylamine, Total, ug/L	ug/L
78885	Diquat Dibromide (Reglone), Total, ug/L	ug/L
82677	Disulfoton, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
39010	Disulfoton, Flame Photometric, Total, ug/L	ug/L
81888	Disulfoton, Total, ug/L	ug/L
39011	Disyston, Whole Water Sample, ug/L	ug/L
39650	Diuron, Total, ug/L	ug/L
49300	Diuron, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
60030	Dodecamethyl Cyclohexasilioxane, Total, ug/L	ug/L
38933	Dursban (Chloropyrifos) Dissolved, ug/L	ug/L
81403	Dursban (Chloropyrifos), Total, ug/L	ug/L
81294	Dyfonate (Fonofos), Total, ug/L	ug/L
39013	Dyfonate, Flame Photometric, Total, ug/L	ug/L
82105	Eicosane In Water, ug/L	ug/L
34361	Endosulfan - Alpha, Total, ug/L	ug/L
34356	Endosulfan - Beta, Total, ug/L	ug/L
82624	Endosulfan Ii, Total, ug/L	ug/L
34352	Endosulfan Sulfate, Dissolved, ug/L	ug/L
34351	Endosulfan Sulfate, Total, ug/L	ug/L
82354	Endosulfan, Dissolved, ug/L	ug/L
39388	Endosulfan, Total, ug/L	ug/L
38926	Endothall, Total, ug/L	ug/L
34367	Endrin Aldehyde, Dissolved, ug/L	ug/L
34366	Endrin Aldehyde, Total, ug/L	ug/L
39391	Endrin, Dissolved, ug/L	ug/L
39390	Endrin, Total, ug/L	ug/L
81679	Epiclorohydrin, Total, mg/L	mg/L
81894	Eptc (Eptam), Total, ug/L	ug/L
82668	Eptc, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49298	Esfenvalerate, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
82663	Ethalfluralin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
38788	Ethalfluralin, Dissolved, ug/L	ug/L
38787	Ethalfluralin, Total, ug/L	ug/L
60007	Ethenyl Benzene, Total, ug/L	ug/L

Code	Long Description	Units
81576	Ether Ethyl, Water Unfltrd, Recover	ug/L
50004	Ether Tertbutyl Ethyl, Unfiltered, Rec	ug/L
50005	Ether Tertpentyl Methyl, Unfiltered, Rec	ug/L
39398	Ethion, Total, ug/L	ug/L
82672	Ethoprop, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
81758	Ethoprop, Total, ug/L	ug/L
60018	Ethyl Cyclobutanone, Total, ug/L	ug/L
78013	Ethyl Hexanol In Water, ug/L	ug/L
78015	Ethyl Methyl Phenol In Water, ug/L	ug/L
46315	Ethyl Parathion, Total, ug/L	ug/L
78113	Ethylbenzene In Water, ug/L	ug/L
34372	Ethylbenzene, Dissolved, ug/L	ug/L
34371	Ethylbenzene, Total, ug/L	ug/L
60034	Ethylenedibromide (Edb), Total, ug/L	ug/L
38792	Etridiazole, Total, ug/L	ug/L
38463	Famphur, Dissolved, ug/L	ug/L ug/L
38929	Fenamiphos (Nemacur), Total, ug/L	ug/L ug/L
49297	Fenuron, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
34377	Flouranthene, Dissolved ug/L	ug/L
38810	Fluometuron, Total, ug/L	ug/L
38811	Fluometuron, Water, Dissolved, ug/L	ug/L
34376	Fluoranthene, Total, ug/L	ug/L
34382	Fluorene, Dissolved, ug/L	ug/L
34381	Fluorene, Total, ug/L	ug/L
00950	Fluoride, Dissolved (mg/L As F)	mg/L
00950	Fluoride, Total (mg/L As F)	
00953	Fluorine, Total, ug/L	mg/L ug/L
79136	Fluorotrichloromethane, Total, ug/L	
82614	•	ug/L
	Fonofos (Dyfonate), Whole Water, Total Recov. ug/L	ug/L
04095	Fonofos, Dissolved, Water, Total Recoverable, ug/L	ug/L
82390	Free Acid, Total, mg/L	mg/L
77652	Freon 113, Water, Total Recoverable, ug/L	ug/L
05503	Gamma, Dissolved, pC/L	pC/L
05501	Gamma, Total, pC/L	pC/L
39340	Gamma-Bhc (Lindane), Total, ug/L	ug/L
01125	Germanium, Dissolved (ug/L As Ge)	ug/L
79743	Glyphosate, Total, ug/L	ug/L
82334	Gold, Dissolved (ug/L As Au)	ug/L
04241	Gross Alpha Radiation, Total, Produced Water,pCi/L	a.
75986	Gross Alpha, Dissolved (ug/L As U-Nat)	ug/L
04242	Gross Beta Radiation, Total, Produced Water, pCi/L	
03515	Gross Beta, Dissolved (pC/L As Cs-137)	pC/L
80050	Gross Beta, Dissolved (pCi/L As Sr/Y-90)	pC/L
39580	Guthion, Total, ug/L	ug/L
82082	H-2 / H-1 Stable Isotope Ratio (Deuterium/Protium)	0/00
78115	Halogen, Total Organic, ug/L	ug/L
00904	Hardness Noncarbonate, Dissolved, Field As CaCO3	mg/L
46570	Hardness, Ca mg Calculated (mg/L As CaCO3)	mg/L
00902	Hardness, Non-Carbonate (mg/L As CaCO3)	mg/L

Code	Long Description	Units
00900	Hardness, Total (mg/L As CaCO3)	mg/L
82316	Helium, Dissolved (ug/L As He)	ug/L
39421	Heptachlor Epoxide, Dissolved, ug/L	ug/L
39420	Heptachlor Epoxide, Total, ug/L	ug/L
39411	Heptachlor, Dissolved, ug/L	ug/L
39410	Heptachlor, Total, ug/L	ug/L
60015	Heptacosone, Total, ug/L	ug/L
81589	Heptene In Water, ug/L	ug/L
99100	Herbicides, Chlor. Acid Phenoxy, Dissolved, ug/L	ug/L
00148	Herbicides, Total, ug/L	ug/L
39700	Hexachlorobenzene (Hcb), Total, ug/L	ug/L
34401	Hexachlorobenzene, Dissolved, ug/L	ug/L
34392	Hexachlorobutadiene, Dissolved, ug/L	ug/L
39702	Hexachlorobutadiene, Total, ug/L	ug/L
34386	Hexachlorocyclopentadiene, Total, ug/L	ug/L
34397	Hexachloroethane, Dissolved, ug/L	ug/L
34396	Hexachloroethane, Total, ug/L	ug/L
60035	Hexachloropentadiene, Trotal, ug/L	ug/L
34387	Hexachlrocyclopentadiene, Dissolved (ug/L)	ug/L
60031	Hexadecane, Total, ug/L	ug/L
45184	Hexanol In Water, ug/L	ug/L
38816	Hexazinone (Velpar), Total, ug/L	ug/L
30264	Hexazinone, Water, Whole, Recoverable, ug/L	ug/L
50577	Holmium, Dissolved (ug/L As Ho)	ug/L
01247	Holmium, Total ug/L	ug/L
81336	Hydrocarbon, Total, ug/L	ug/L ug/L
00191	Hydrogen Ion Concentration, Total, mg/L	mg/L
71875	Hydrogen Sulfide, mg/L	
71875	Hydroxide Dissolved In Water As Oh, Field (mg/L)	mg/L
71834	Hydroxide Dissolved in water As On, Field (mg/L) Hydroxide Ion (mg/L As Oh)	mg/L
34761	Hydroxyate fon (filg/L As On) Hydroxyatrazine (G34048), Whole Water, ug/L	mg/L
60004		ug/L
60004 60014	Hydroxy-Dimethyl-Benzopyranone, Total, ug/L	ug/L
	(Hydroxyphenol) Methylethyl Phenol, Total, ug/L	ug/L
34403 34404	Indeno (1,2,3-Cd) Pyrene Indeno (1,2,2,Cd) Pyrene Dissolved, vo/	ug/L
99200	Indeno (1,2,3-Cd) Pyrene, Dissolved, ug/L	ug/L
	Insecticides, Dissolved, ug/L	ug/L
71865	Iodide (mg/L As I)	mg/L
60027	Iodochloromethane, Total, ug/L	ug/L
77424	Iodomethane, Total, ug/L	ug/L
71885	Iron (ug/L As Fe)	ug/L
01046	Iron, Dissolved (ug/L As Fe)	ug/L
99302	Iron, Dissolved (ug/L) Photometer	ug/L
01047	Iron, Ferrous (ug/L As Fe)	ug/L
99303	Iron, Ferrous, Dissolved (ug/L) Photometer	ug/L
46563	Iron, Field Filtered, Acidified W/Hno3, ug/L	ug/L
01045	Iron, Total (ug/L As Fe)	ug/L
39430	Isodrin, Total, ug/L	ug/L
50000	Isodurene, Water, Unfiltered, Recover	ug/L
34409	Isophorone, Dissolved, ug/L	ug/L

Code	Long Description	Units
34408	Isophorone, Total, ug/L	ug/L
77223	Isopropylbenzene In Whole Water, Total, ug/L	ug/L
71814	Langelier Index of Water Corrosivity	CODE
01180	Lanthanum, Diss. (ug/L As La)	ug/L
01182	Lanthanum, Total (ug/L As La)	ug/L
01049	Lead, Dissolved (ug/L As Pb)	ug/L
46564	Lead, Field Filtered, Acidified W/Hno3, ug/L	ug/L
01051	Lead, Total (ug/L As Pb)	ug/L
82083	Li-7/ Li-6 Stable Isotope (Ratio Per Mil)	0/00
39782	Lindane, Total, ug/L	ug/L
39341	Lindane, Water, Dissolved, ug/L	ug/L
38477	Linuron (Lorox), Total, ug/L	ug/L
82666	Linuron, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
38478	Linuron, Water, Dissolved, ug/L	ug/L
01130	Lithium, Dissolved (ug/L As Li)	ug/L
46553	Lithium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
01132	Lithium, Total (ug/L As Li)	ug/L
00920	Magnesium (mg/L As CaCO3)	mg/L
00925	Magnesium, Dissolved (mg/L As mg)	mg/L
46554	Magnesium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
00927	Magnesium, Total (mg/L As mg)	mg/L
39532	Malathion, Dissolved, ug/L	ug/L
39530	Malathion, Total, ug/L	ug/L
01056	Manganese, Dissolved (ug/L As Mn)	ug/L
46565	Manganese, Field Filtered, Acidified W/Hno3, ug/L	ug/L
01055	Manganese, Total (ug/L As Mn)	ug/L
38482	Mcpa, Water, Dissolved, ug/L	ug/L
38487	Mcpb, Water, Dissolved, ug/L	ug/L
82512	M-Dichlorobenzene, Total, ug/L	ug/L
71890	Mercury, Dissolved (ug/L As Hg)	ug/L
71900	Mercury, Total (ug/L As Hg)	ug/L
38496	Merphos (Foley), Dissolved, ug/L	ug/L
30009	Merphos, Total Recoverable, ug/L	ug/L
77226	Mesitylene (1,3,5-Trimethylbenzene), Total, ug/L	ug/L
85795	Meta/Paraxylene, Water, Unfltrd, Rec	ug/L
04254	Metalaxyl, Whole Water, ug/L	ug/L
73570	Methacrylate Ethyl, Water, Unfiltered, Rec	ug/L
81593	Methacrylonitrate, Water, Unfltrd, Rec	ug/L
38927	Methamidaphos (Monitor), Total, ug/L	ug/L
38500	Methiocarb, Total, ug/L	ug/L
38501	Methiocarb, Water, Dissolved, ug/L	ug/L
39051	Methomyl, Total, ug/L	ug/L
49296	Methomyl, Water Filtered, Gf O.7u, Rec	ug/L
49229	Methomyl, Water, Dissolved, ug/L	ug/L
45202	Methoxy Ethyl Benzene, Total, ug/L	ug/L
78033	Methoxy Phenol, Total, ug/L	ug/L
39478	Methoxychlor, Dissolved, ug/L	ug/L
39480	Methoxychlor, Total, ug/L	ug/L
49991	Methyl Acrylate, Water Unfiltered, Rec	ug/L

Code	Long Description	Units
34414	Methyl Bromide, Dissolved ug/L	ug/L
34413	Methyl Bromide, Total, ug/L	ug/L
45430	Methyl Butenol, Total, ug/L	ug/L
34418	Methyl Chloride, Total (ug/L)	ug/L
45277	Methyl Cyclopentanol In Water, ug/L	ug/L
45106	Methyl Cyclopentanone In Water, ug/L	ug/L
60032	Methyl Eicasane, Total, ug/L	ug/L
81595	Methyl Ethyl Ketone, Total, ug/L	ug/L
45292	Methyl Furanone, Total, ug/L	ug/L
76141	Methyl Isobutyl Ketone, Total, ug/L	ug/L
81597	Methyl Methacrylate, Total, ug/L	ug/L
39600	Methyl Parathion, Total, ug/L	ug/L
45169	Methyl Pentanol In Water, ug/L	ug/L
60033	Methyl Propylester Octadecanoic Acid, Total, ug/L	ug/L
82686	Methylazinphos, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
60016	Methylbenzene, (Toluene) Total, ug/L	ug/L
77100	Methylcyclohexane In Water, ug/L	ug/L
77052	Methylcyclopentane In Water, ug/L	ug/L
38260	Methylene Blue Active Substance, mg/L	mg/L
34424	Methylene Chloride, Dissolved, ug/L	ug/L
34423	Methylene Chloride, Total, ug/L	ug/L
60003	Methylethyl Phenol, Total, ug/L	ug/L
78133	Methyl-Isobutyl Ketone, Whole Water, Total	ug/L
82667	Methylparathion, 0.7 Um Filt, Tot Recv, Water,ug/L	ug/L
39356	Metolachlor (Dual), Total, ug/L	ug/L
39415	Metolachlor, Water, Dissolved, ug/L	ug/L
82612	Metolachlor, Whole Water, Total Recoverable, ug/L	ug/L
82630	Metribuzin (Sencor), Water, Dissolved, ug/L	ug/L
81408	Metribuzin (Sencor, Lexone), Total, ug/L	ug/L
82611	Metribuzin, Whole Water, Total Recoverable, ug/L	ug/L
39756	Mirex, Dissolved, ug/L	ug/L
39755	Mirex, Total, ug/L	ug/L
82671	Molinate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
01060	Molybdenum, Dissolved, ug/L	ug/L
01062	Molybdenum, Total (ug/L As Mo)	ug/L
60041	Mtbe, Total, ug/L	ug/L
81710	M-Xylene, Total, ug/L	ug/L
34439	N - Nitrosodimethylamine, Dissolved, ug/L	ug/L
34429	N - Nitrosodi-N-Propylamine, Dissolved, ug/L	ug/L
34434	N - Nitrosodiphenylamine, Dissolved, ug/L	ug/L
34443	Naphthalene, Dissolved ug/L	ug/L
34696	Naphthalene, Total, ug/L	ug/L
39250	Naphthalenes, Polychlorinated, Total, ug/L	ug/L
82684	Napropamide, 0.7 Um Filter, Tot Recv, Water, ug/L	ug/L
79197	Napropamide, Total, ug/L	ug/L
77342	N-Butylbenzene, Whole Water, ug/L	ug/L
38522	Neburon, Dissolved, ug/L	ug/L
38521	Neburon, Total, ug/L	ug/L
49294	Neburon, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L

Code	Long Description	Units
01237	Neodymium, Total ug/L	ug/L
01065	Nickel, Dissolved (ug/L As Ni)	ug/L
01067	Nickel, Total (ug/L As Ni)	ug/L
00618	Nitrate Nitrogen, Dissolved (mg/L As N)	mg/L
71851	Nitrate Nitrogen, Dissolved (mg/L As No3)	mg/L
00620	Nitrate Nitrogen, Total (mg/L As N)	mg/L
71850	Nitrate Nitrogen, Total (mg/L As No3)	mg/L
00613	Nitrite Nitrogen, Dissolved (mg/L As N)	mg/L
00615	Nitrite Nitrogen, Total (mg/L As N)	mg/L
71855	Nitrite Nitrogen, Total (mg/L As No2)	mg/L
00631	Nitrite Plus Nitrate, Dissolved (mg/L As N)	mg/L
00630	Nitrite Plus Nitrate, Total (mg/L As N)	mg/L
34448	Nitrobenzene, Dissolved ug/L	ug/L
34447	Nitrobenzene, Total, ug/L	ug/L
00597	Nitrogen Gas, Dissolved (mg/L of N)	mg/L
00608	Nitrogen, Ammonia, Dissolved (mg/L As N)	mg/L
99301	Nitrogen, Ammonia. Dissolved (mg/L) Photmeter	mg/L
00610	Nitrogen, Ammonia, Total (mg/L As N)	mg/L
71845	Nitrogen, Ammonia, Total (mg/L As Nh4)	mg/L
00623	Nitrogen, Kjeldahl, Dissolved (mg/L As N)	mg/L
00625	Nitrogen, Kjeldahl, Total (mg/L As N)	mg/L
00607	Nitrogen, Organic, Dissolved (mg/L As N)	mg/L
00605	Nitrogen, Organic, Total (mg/L As N)	mg/L
00600	Nitrogen, Total (mg/L As N)	mg/L
71887	Nitrogen, Total (mg/L As No3)	mg/L
82084	Nitrogen-15/Nitrogen-14 Stable Isotope Ratio/Mil	0/00
78207	N-Nitrosodibutylamine In Whole Water, ug/L	ug/L
78200	N-Nitrosodiethylamine In Whole Water, ug/L	ug/L ug/L
34438	N-Nitrosodimethlamine, Total, ug/L	ug/L ug/L
34428	N-Nitroso-Di-N-Propylamine, Total, ug/L	ug/L ug/L
34433	N-Nitrosodiphenylamine, Total, ug/L	ug/L ug/L
78064	Norflurazon, Total, ug/L	ug/L
49293	Norflurazon, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
4 <i>9295</i> 60026	N-Propyl Benzamide, Total, ug/L	ug/L
77224	N-Propylbenzene, Total, ug/L	ug/L
82085	O-18/ O-16 Stable Isotope (Ratio Per Mil)	0/00
77275	O-Chlorotoluene In Whole Water, ug/L	ug/L
60022	O-Chlorotoluene, Total, ug/L	-
49299	-	ug/L
	Ocresol 4, 6-Dinitro, 7u Filt, Water, Tot Recv, ug/L	ug/L
77152	O-Cresol In Whole Water, ug/L	ug/L
81674	Octanoic Acid In Water, ug/L	ug/L
81815	Orthene, Total, ug/L	ug/L
49292	Oryzalin (Surflan), Water, .7 U Filt, Tot Rec,ug/L	ug/L
01241	Osmium, Total, ug/L	ug/L
38865	Oxamyl (Vydate), Total, ug/L	ug/L
38866	Oxamyl, Water, Dissolved, ug/L	ug/L
00090	Oxidation Reduction Potential (Orp), Millivolts	MV
00299	Oxygen, Dissolved, Analysis By Probe (mg/L)	mg/L
00300	Oxygen, Dissolved, mg/L	mg/L

Code	Long Description	Units
99300	Oxygen, Dissolved, mg/L Photometer	mg/L
50982	Oxygen-18/Oxygen-16 In Sulfate (Ratio Per Mil)	0/00
77135	O-Xylene, Total, ug/L	ug/L
00387	Ozone, mg/L	mg/L
39310	P,P' Ddd In Whole Water Sample (ug/L)	ug/L
39320	P,P' Dde In Whole Water Sample (ug/L)	ug/L ug/L
34653	P,P' Dde, Dissolved, ug/L	ug/L ug/L
39300	P,P' Ddt In Whole Water Sample (ug/L)	ug/L ug/L
82416	Paraquat, Total, ug/L	ug/L
39540	Parathion, Total, ug/L	ug/L
39542	Parathion, Water, Dissolved, ug/L	ug/L
39488	Pcb - 1221, Total, ug/L	ug/L
39492	Pcb - 1232, Total, $ug/L$	ug/L
39496	Pcb - 1242, Total, $ug/L$	ug/L
39502	Pcb - 1248 (Araclor), Dissolved, ug/L	ug/L
39500	Pcb - 1248, Total, ug/L	ug/L
39505	Pcb - 1254 (Araclor), Dissolved, ug/L	ug/L
39504	Pcb - 1254, Total, ug/L	ug/L
39509	Pcb - 1260 (Araclor), Dissolved, ug/L	ug/L
39508	Pcb - 1260, Total, ug/L	ug/L
81649	Pcb - 1262 (Araclor), Total, ug/L	ug/L
34671	Pcb- 1016, Total, ug/L	ug/L
34672	Pcb-1016, Dissolved (ug/L)	ug/L
34662	Pcb-1221, Dissolved (ug/L)	ug/L
34665	Pcb-1232, Dissolved (ug/L)	ug/L
34457	Pcb-1242, Dissolved (ug/L)	ug/L
39516	Pcbs, TOTAL, ug/L	ug/L
60023	P-Chlorotoluene, Total, ug/L	ug/L
77277	P-Chlorotoluene, Water, Total Recoverable, ug/L	ug/L
82669	Pebulate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
79192	Pebulate, Total, ug/L	ug/L
82683	Pendimethalin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
79190	Pendimethalin, Total, ug/L	ug/L
82410	Penoxalin (Prowl), Total, ug/L	ug/L
81316	Pentachloronitrobenzene, Total, ug/L	ug/L
39032	Pentachlorophenol (Pcp), Total, ug/L	ug/L
60001	Pentane, Total, ug/L	ug/L
60002	Pentyl Cyclopropane, Total, ug/L	ug/L
39034	Perthane, Total, ug/L	ug/L
00403	Ph (Standard Units) Lab	SU
00400	Ph (Standard Units), Field	SU
34462	Phenanthrene, Dissolved ug/L	ug/L
34461	Phenanthrene, Total, ug/L	ug/L
34466	Phenol, Dissolved ug/L	ug/L
34694	Phenol, Total, ug/L	ug/L
32730	Phenols, Total (ug/L)	ug/L
78076	Phenyl Ethanone In Water, ug/L	ug/L
82664	Phorate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
38870	Phorate, Dissolved ug/L	ug/L

Code	Long Description	Units
39023	Phorate, Total, ug/L	ug/L
81291	Phosalone, Total, ug/L	ug/L
99304	Phosphate, Dissolved (mg/L) Color Comparison	mg/L
00660	Phosphate, Ortho (mg/L As Po4)	mg/L
00650	Phosphate, Total (mg/L As Po4)	mg/L
00666	Phosphorus, Dissolved (mg/L As P)	mg/L
00671	Phosphorus, Dissolved Orthophosphate (mg/L As P)	mg/L
00673	Phosphorus, Dissolved, Organic (mg/L As P)	mg/L
70507	Phosphorus, In Total Orthophosphate (mg/L As P)	mg/L
00665	Phosphorus, Total (mg/L As P)	mg/L
71886	Phosphorus, Total As Po4 (mg/L)	mg/L
78721	Phthalates, Total, mg/L	mg/L
39720	Picloram, Total, ug/L	ug/L
49291	Picloram, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
77356	P-Isopropyltoluene, Water, Total Recoverable, ug/L	ug/L
82068	Potassium 40 (K-40), Dissolved, pC/L	pC/L
75038	Potassium 40, Total, pC/L	pC/L
00935	Potassium, Dissolved (mg/L As K)	mg/L
46555	Potassium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
00937	Potassium, Total (mg/L As K)	mg/L
49999	Prehnitene, Water, Unfiltered, Rec	ug/L
38872	Profluralin, Total, ug/L	ug/L
39056	Prometon, Total, ug/L	ug/L
04037	Prometon, Dissolved, Water, Total Recoverable, ug/L	ug/L
39057	Prometryne, Total, ug/L	ug/L
82676	Pronamide, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
39080	Pronamide, Total, ug/L	ug/L
30295	Propachlor, Water, Whole, Recoverable, ug/L	ug/L
04024	Propachlor, Dissolved, Water, Total Recoverable ug/L	ug/L
82359	Propane, Dissolved, ug/L	ug/L
82679	Propanil, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
39037	Propanil, Total, ug/L	ug/L
82685	Propargite, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
39024	Propazine, Coulson Conductivity, Total, ug/L	ug/L
78109	Propene 3-Chloro, Water, Unfltrd, Rec	ug/L
39052	Propham, Total, ug/L	ug/L
49236	Propham, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
38538	Propoxur, Water, Dissolved, ug/L	ug/L
77222	Pseudocomene (1,2,4-Trimethylbenzene), Total, ug/L	ug/L
81277	Purgeable Organic Carbon, ug/L	ug/L
78132	P-Xylene, Total, ug/L	ug/L
34470	Pyrene, Dissolved, ug/L	ug/L
34469	Pyrene, Total, ug/L	ug/L
77045	Pyridine, Total, ug/L	ug/L
01490	Rad, Gross, Total Solids	mg/L
00189	Radioactivity, Whole Water, pC/L	pC/L
11500	Radium 226 + Radium 228, Dissolved, pC/L	pC/L
11503	Radium 226 + Radium 228, Total, pC/L	pC/L
09503	Radium 226, Dissolved, pC/L	pC/L

Code	Long Description	Units
09511	Radium 226, Dissolved, Radon Method, pC/L	pC/L
09501	Radium 226, Total, pC/L	pC/L pC/L
81366	Radium 228, Dissolved (pC/L As Ra-228)	pC/L
11501	Radium 228, Total, pC/L	pC/L
82362	Radon 222, Dissolved Gas In Water, pC/L	pC/L
82305	Radon 222, Dissolved Gus III (Vider, pC/L Radon 222, Dissolved, pC/L	pC/L
82303	Radon 222, Total, pC/L	pC/L
75978	Ratio of Strontium87/Strontium86, Diss., Water	N/A
71860	Residual Sodium Carbonate	
70300	Residue, Total Filterable (Dried At 180c), mg/L	mg/L
77164	Resorcinal, Total, ug/L	ug/L
76002	Rn-222 2 Sigma In Whole Water, Total, pCi/L	pC/L
01135	Rubidium, Diss. (ug/L As Rb)	ug/L
01137	Rubidium, Total (ug/L As Rb)	ug/L
82086	S-34/ S-32 Stable Isotope (Ratio Per Mil)	0/00
77545	Safrole, Total, ug/L	ug/L
00480	Salinity In Parts Per Thousand	PPTH
77350	Sec Butylbenzene, Water, Total Recoverable, ug/L	ug/L
01145	Selenium, Dissolved (ug/L As Se)	ug/L
01147	Selenium, Total, ug/L	ug/L
00955	Silica, Dissolved (mg/L As Si02)	mg/L
00956	Silica, Total (mg/L As Sio2)	mg/L
01140	Silicon, Dissolved (ug/L As Si)	ug/L
01142	Silicon, Total (ug/L As Si)	ug/L
01075	Silver, Dissolved (ug/L As Ag)	ug/L
46566	Silver, Field Filtered, Acidified W/Hno3, ug/L	ug/L
01077	Silver, Total (ug/L As Ag)	ug/L
39760	Silvex, Total, ug/L	ug/L
39762	Silvex, Water, Dissolved, ug/L	ug/L
39055	Simazine, Total, ug/L	ug/L
04035	Simazine, Dissolved, Water, Total Recoverable, ug/L	ug/L
38877	Simetryne, Total, ug/L	ug/L
39054	Simetryne, Total, ug/L	ug/L
00931	Sodium Adsorption Ratio (Sar)	RATI
32017	Sodium Chloride (Nacl), mg/L	mg/L
00933	Sodium Plus Potassium, mg/L	mg/L
00930	Sodium, Dissolved (mg/L As Na)	mg/L
46556	Sodium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
00932	Sodium, Percent	%
00929	Sodium, Total (mg/L As Na)	mg/L
70301	Solids, Dissolved, Sum of Constituents, mg/L	mg/L
70299	Solids, Suspended, Residue On Evap At 180c, mg/L	mg/L
70304	Solids, Total Dissolved-Conductivity Meter (mg/L)	mg/L
00095	Specific Conductance (Umhos/Cm @25c)	MICR
00094	Specific Conductance, Field (Umhos/Cm At 25c)	MICR
82205	Specific Gravity (Gm/L)	GM/L
38878	Stirofos, Dissolved, ug/L	ug/L
31674	Streptococci, Fecal 10/MI	10/M
01080	Strontium, Dissolved (ug/L As Sr)	ug/L

### Appendix D – Storet Codes (Alphabetical By Name)

Code	Long Description	Units
48297	Strontium, Isotope of Mass 86 and 87 Ratio	N/A
01082	Strontium, Total (ug/L As Sr)	ug/L
81708	Styrene, Total, mg/L	mg/L
77128	Styrene, Total, ug/L	ug/L
00154	Sulfate, Total (mg/L As S)	mg/L
00946	Sulfate, Dissolved (mg/L As So4)	mg/L
00945	Sulfate, Total (mg/L As So4)	mg/L
00746	Sulfide, Dissolved (mg/L As S)	mg/L
00741	Sulfite, mg/L As S	mg/L
00740	Sulfite, mg/L As So3	mg/L
07140	Sulfur 35, Dissolved, pC/L	pC/L
07144	Sulfur 35, Total, pC/L	pC/L
80107	Sulfur, Total, mg/L	mg/L
39379	Sum of Ddt, Dde & Ddd Values, Total, ug/L	ug/L
78884	Surflan (Oryzalin), Total, ug/L	ug/L
38855	Swep, Dissolved, ug/L	ug/L
38854	Swep, Total, ug/L	ug/L
45607	Tebuthiuron (Graslan, Spike), Total, ug/L	ug/L
82670	Tebuthiuron, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
00010	Temperature, Water (Celsius)	С
00011	Temperature, Water (Fahrenheit)	FAHN
82665	Terbacil, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
30311	Terbacil, Water, Whole, Recoverable, ug/L	ug/L
82088	Terbufos (Counter), Total, ug/L	ug/L
82675	Terbufos, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
38888	Terbutryn, Dissolved, ug/L	ug/L
38887	Terbutryn, Total, ug/L	ug/L
39029	Terrachlor.Pentachloronitrobenzene(Gcl), Tot, ug/L	ug/L
77353	Tert-Butylbenzene, Water, Total Recoverable, ug/L	ug/L
78032	Tert-Butylmethylether, Total Recoverable, ug/L	ug/L
34476	Tetrachloroethylene, Dissolved, ug/L	ug/L
34475	Tetrachloroethylene, Total, ug/L	ug/L
60042	Tetrachloromethane, Total, ug/L	ug/L
81607	Tetrahydrofuran, Total, ug/L	ug/L
01057	Thallium, Dissolved (ug/L As Tl)	ug/L
01059	Thallium, Total (ug/L As Tl)	ug/L
82681	Thiobencarb, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
22505	Thorium 228, Total, pCi/L	pC/L
26501	Thorium 230, Total, pCi/L	pC/L
22501	Thorium 232, Total, PCi/L	pC/L
26403	Thorium, Natural, Dissolved pC/L	pC/L
82364	Thorium, Total In Water, ug/L	ug/L
01100	Tin, Dissolved (ug/L As Sn)	ug/L
01102	Tin, Total (ug/L As Sn)	ug/L
01150	Titanium, Dissolved (ug/L As Ti)	ug/L
34010	Toluene In Wtr Smpl Gc-Ms, Hexadone Extr. (ug/L/)	ug/L
77220	Toluene O-Methyl, Water, Unfiltered, Rec	ug/L
34481	Toluene, Dissolved, ug/L	ug/L
78131	Toluene, Volatile Analysis, Total, ug/L	ug/L

### Appendix D – Storet Codes (Alphabetical By Name)

Code	Long Description	Units
60038	Total Nitroanalines In Whole Water, ug/L	ug/L
03550	Total Specific Radioactivity, Pc/Gr	PC/G
39786	Total Trithion, ug/L	ug/L
39401	Toxaphene, Dissolved, ug/L	ug/L
39400	Toxaphene, Total, ug/L	ug/L
34546	Trans-1,2-Dichloroethene, Total, ug/L	ug/L
50001	Trans-1,2-Dichloroethylene, Total, ug/L	ug/L
34700	Trans-1,3-Dichloropropene, Dissolved, ug/L	ug/L
34699	Trans-1,3-Dichloropropene, Total, ug/L	ug/L
50002	Trans-1,3-Dichloropropylene, Total, ug/L	ug/L
82420	Trans-Permethrin, Total, ug/L	ug/L
38893	Triadimefon, Dissolved, ug/L	ug/L
38892	Triadimefon, Total, ug/L	ug/L
82678	Triallate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
78170	Trichlorobenzenes, Total, ug/L	ug/L
81853	Trichloroethane In Water, ug/L	ug/L
34485	Trichloroethylene, Dissolved, ug/L	ug/L
39180	Trichloroethylene, Total, ug/L	ug/L
34489	Trichlorofluoromethane, Dissolved, ug/L	ug/L
34488	Trichlorofluoromethane, Total, ug/L	ug/L
81611	Trichlorotrifluoroethane, Total, ug/L	ug/L
49235	Triclopyr, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
38903	Tricyclazole, Dissolved, ug/L	ug/L
38902	Tricyclazole, Total, ug/L	ug/L
82661	Trifluralin (Treflan), 0.7u Filt, Tot Rec, Wtr, ug/L	ug/L
38574	Trifluralin (Treflan), Dissolved, ug/L	ug/L
81284	Trifluralin (Treflan), Total, ug/L	ug/L
39030	Trifluralin, Total Recoverable, ug/L	ug/L
82080	Trihalomethane Total By Summation, ug/L	ug/L
60025	Triiodo Methane, Total, ug/L	ug/L
07013	Tritium Counting Error	TU
07012	Tritium In Water (Tritium Units)	TU
07018	Tritium, Dissolved (Tritium Units)	TU
07017	Tritium, Total (Tritium Units)	TU
07000	Tritium, Total, pCi/L	pC/L
38883	Turbacil, Dissolved, ug/L	ug/L
38882	Turbacil, Total, ug/L	ug/L
82079	Turbidity, Lab, Nephelometric Turbidity Units, Ntu	NTU
22603	Uranium 238, Dissolved, pC/L	pC/L
80020	Uranium, Dissolved By Extraction, ug/L	ug/L
22703	Uranium, Natural, Dissolved, ug/L	ug/L
28012	Uranium, Natural, Total (pC/L As U)	pC/L
22706	Uranium,Total ug/L As U308	ug/L
01085	Vanadium, Dissolved (ug/L As V)	ug/L
01087	Vanadium, Total (ug/L As V)	ug/L
30324	Vernolate, Total, ug/L	ug/L
34493	Vinyl Chloride, Dissolved, ug/L	ug/L
39175	Vinyl Chloride, Total, ug/L	ug/L
81551	Xylene, Total, ug/L	ug/L

### Appendix D – Storet Codes (Alphabetical By Name)

Code	Long Description	Units
01194	Ytterbium, Diss. (ug/L As Y)	ug/L
01196	Ytterbium, Total (ug/L As Yb)	ug/L
01090	Zinc, Dissolved (ug/L As Zn)	ug/L
01092	Zinc, Total (ug/L As Zn)	ug/L

Appendix E –	- Storet Codes (By Code)	
Code	Long Description	Units
00010	Temperature, Water (Celsius)	C
00011	Temperature, Water (Fahrenheit)	FAHN
00090	Oxidation Reduction Potential (Orp), Millivolts	MV
00094	Specific Conductance, Field (Umhos/Cm At 25c)	MICR
00095	Specific Conductance (Umhos/Cm @25c)	MICR
00148	Herbicides, Total, ug/L	ug/L
00154	Sulfate, Total (mg/L As S)	mg/L
00189	Radioactivity, Whole Water, pC/L	pC/L
00191	Hydrogen Ion Concentration, Total, mg/L	mg/L
00299	Oxygen, Dissolved, Analysis By Probe (mg/L)	mg/L
00300	Oxygen, Dissolved, mg/L	mg/L
00335	Chemical Oxygen Demand, .025n K2cr207 (mg/L)	mg/L
00387	Ozone, mg/L	mg/L
00400	Ph (Standard Units), Field	SU
00403	Ph (Standard Units) Lab	SU
00405	Carbon Dioxide (mg/L As Co2)	mg/L
00410	Alkalinity, Total (mg/L As CaCO3)	mg/L
00415	Alkalinity, Phenolphthalein, mg/L	mg/L
00431	Alkalinity Total Field (mg/L As CaCO3)	mg/L
00435	Acidity Total (mg/L As CaCO3)	mg/L
00437	Acidity, Co2 (Phenolph.)(mg/L As CaCO3)	mg/L
00440	Bicarbonate Ion (mg/L As Hco3)	mg/L
00445	Carbonate Ion (mg/L As Co3)	mg/L
00447	Carbonate, Incremental Titration, Field, Tot.mg/L	mg/L
00450	Bicarbonate, Increment Titration, (Hco3)Field, mg/L	mg/L
00452	Carbonate, Incr Titration, Dissolved, Field, mg/L	mg/L
00453	Bicarbonate, Dissolved As Hco3, Field, mg/L	mg/L
00480	Salinity In Parts Per Thousand	PPTH
00597	Nitrogen Gas, Dissolved (mg/L of N)	mg/L
00600	Nitrogen, Total (mg/L As N)	mg/L
00605	Nitrogen, Organic, Total (mg/L As N)	mg/L
00607	Nitrogen, Organic, Dissolved (mg/L As N)	mg/L
00608	Nitrogen, Ammonia, Dissolved (mg/L As N)	mg/L
00610	Nitrogen, Ammonia, Total (mg/L As N)	mg/L
00612	Ammonia, Unionized, mg/L As N	mg/L
00613	Nitrite Nitrogen, Dissolved (mg/L As N)	mg/L
00615	Nitrite Nitrogen, Total (mg/L As N)	mg/L
00618	Nitrate Nitrogen, Dissolved (mg/L As N)	mg/L
00619	Ammonia, Unionized (Calc Fr Temp-Ph-Nh4) (mg/L)	mg/L
00620	Nitrate Nitrogen, Total (mg/L As N)	mg/L
00623	Nitrogen, Kjeldahl, Dissolved (mg/L As N)	mg/L
00625	Nitrogen, Kjeldahl, Total (mg/L As N)	mg/L
00630	Nitrite Plus Nitrate, Total (mg/L As N)	mg/L
00631	Nitrite Plus Nitrate, Dissolved (mg/L As N)	mg/L
00650	Phosphate, Total (mg/L As Po4)	mg/L
00660	Phosphate, Ortho (mg/L As Po4)	mg/L
00665	Phosphorus, Total (mg/L As P)	mg/L

Code	Long Description	Units
00666	Phosphorus, Dissolved (mg/L As P)	mg/L
00671	Phosphorus, Dissolved Orthophosphate (mg/L As P)	mg/L
00673	Phosphorus, Dissolved, Organic (mg/L As P)	mg/L
00680	Carbon, Total Organic (mg/L As C)	mg/L
00681	Carbon, Dissolved Organic (mg/L As C)	mg/L
00684	Carbon, Dissolved, Organic, Whatman Gf/F, mg/L	mg/L
00685	Carbon, Total Inorganic (mg/L As C)	mg/L
00690	Carbon, Total (mg/L As C)	mg/L
00691	Carbon, Dissolved Inorganic (mg/L As C)	mg/L
00720	Cyanide, Total (mg/L As Cn)	mg/L
00723	Cyanide, Dissolved, Std Method, ug/L	ug/L
00725	Cyanate (mg/L As Ocn)	mg/L
00740	Sulfite, mg/L As So3	mg/L
00741	Sulfite, mg/L As S	mg/L
00746	Sulfide, Dissolved (mg/L As S)	mg/L
00900	Hardness, Total (mg/L As CaCO3)	mg/L
00902	Hardness, Non-Carbonate (mg/L As CaCO3)	mg/L
00904	Hardness Noncarbonate, Dissolved, Field As CaCO3	mg/L
00910	Calcium (mg/L As CaCO3)	mg/L
00915	Calcium, Dissolved (mg/L As Ca)	mg/L
00916	Calcium, Total (mg/L As Ca)	mg/L
00920	Magnesium (mg/L As CaCO3)	mg/L
00925	Magnesium, Dissolved (mg/L As mg)	mg/L
00927	Magnesium, Total (mg/L As mg)	mg/L
00929	Sodium, Total (mg/L As Na)	mg/L
00930	Sodium, Dissolved (mg/L As Na)	mg/L
00931	Sodium Adsorption Ratio (Sar)	RATI
00932	Sodium, Percent	%
00933	Sodium Plus Potassium, mg/L	mg/L
00935	Potassium, Dissolved (mg/L As K)	mg/L
00937	Potassium, Total (mg/L As K)	mg/L
00940	Chloride, Total (mg/L As Cl)	mg/L
00941	Chloride, Dissolved, mg/L	mg/L
00945	Sulfate, Total (mg/L As So4)	mg/L
00946	Sulfate, Dissolved (mg/L As So4)	mg/L
00950	Fluoride, Dissolved (mg/L As F)	mg/L
00951	Fluoride, Total (mg/L As F)	mg/L
00953	Fluorine, Total, ug/L	ug/L
00955	Silica, Dissolved (mg/L As Si02)	mg/L
00956	Silica, Total (mg/L As Sio2)	mg/L
01000	Arsenic, Dissolved (ug/L As As)	ug/L
01002	Arsenic, Total (ug/L As As)	ug/L
01005	Barium, Dissolved (ug/L As Ba)	ug/L
01007	Barium, Total (ug/L As Ba)	ug/L
01010	Beryllium, Dissolved (ug/L As Be)	ug/L
01012	Beryllium, Total (ug/L As Be)	ug/L
01015	Bismuth, Dissolved (ug/L As Bi)	ug/L
01017	Bismuth, Total (ug/L As Bi)	ug/L
01020	Boron, Dissolved (ug/L As B)	ug/L

Code	Long Description	Units
01022	Boron, Total (ug/L As B)	ug/L
01025	Cadmium, Dissolved (ug/L As Cd)	ug/L
01027	Cadmium, Total, ug/L	ug/L
01030	Chromium, Dissolved (ug/L As Cr)	ug/L
01034	Chromium, Total (ug/L As Cr)	ug/L
01035	Cobalt, Dissolved (ug/L As Co)	ug/L
01037	Cobalt, Total (ug/L As Co)	ug/L
01040	Copper, Dissolved (ug/L As Cu)	ug/L
01042	Copper, Total (ug/L As Cu)	ug/L
01045	Iron, Total (ug/L As Fe)	ug/L
01046	Iron, Dissolved (ug/L As Fe)	ug/L
01047	Iron, Ferrous (ug/L As Fe)	ug/L
01049	Lead, Dissolved (ug/L As Pb)	ug/L
01051	Lead, Total (ug/L As Pb)	ug/L
01055	Manganese, Total (ug/L As Mn)	ug/L
01056	Manganese, Dissolved (ug/L As Mn)	ug/L
01057	Thallium, Dissolved (ug/L As Tl)	ug/L
01059	Thallium, Total (ug/L As Tl)	ug/L
01060	Molybdenum, Dissolved, ug/L	ug/L
01062	Molybdenum, Total (ug/L As Mo)	ug/L
01065	Nickel, Dissolved (ug/L As Ni)	ug/L
01067	Nickel, Total (ug/L As Ni)	ug/L
01075	Silver, Dissolved (ug/L As Ag)	ug/L
01077	Silver, Total (ug/L As Ag)	ug/L
01080	Strontium, Dissolved (ug/L As Sr)	ug/L
01082	Strontium, Total (ug/L As Sr)	ug/L
01085	Vanadium, Dissolved (ug/L As V)	ug/L
01087	Vanadium, Total (ug/L As V)	ug/L
01090	Zinc, Dissolved (ug/L As Zn)	ug/L
01092	Zinc, Total (ug/L As Zn)	ug/L
01095	Antimony, Dissolved (ug/L As Sb)	ug/L
01097	Antimony, Total (ug/L As Sb)	ug/L
01100	Tin, Dissolved (ug/L As Sn)	ug/L
01102	Tin, Total (ug/L As Sn)	ug/L
01105	Aluminum, Total (ug/L As Al)	ug/L
01106	Aluminum, Dissolved (ug/L As Al)	ug/L
01110	Cerium, Dissolved (ug/L As Ce)	ug/L
01112	Cerium, Total, ug/L	ug/L
01115	Cesium, Dissolved (ug/L As Cs)	ug/L
01117	Cesium, Total, pC/L	pC/L
01125	Germanium, Dissolved (ug/L As Ge)	ug/L
01130	Lithium, Dissolved (ug/L As Li)	ug/L
01132	Lithium, Total (ug/L As Li)	ug/L
01135	Rubidium, Diss. (ug/L As Rb)	ug/L
01137	Rubidium, Total (ug/L As Rb)	ug/L
01140	Silicon, Dissolved (ug/L As Si)	ug/L
01142	Silicon, Total (ug/L As Si)	ug/L
01145	Selenium, Dissolved (ug/L As Se)	ug/L
01147	Selenium, Total, ug/L	ug/L

Code	Long Description	Units
01150	Titanium, Dissolved (ug/L As Ti)	ug/L
01180	Lanthanum, Diss. (ug/L As La)	ug/L
01182	Lanthanum, Total (ug/L As La)	ug/L
01194	Ytterbium, Diss. (ug/L As Y)	ug/L
01196	Ytterbium, Total (ug/L As Yb)	ug/L
01237	Neodymium, Total ug/L	ug/L
01241	Osmium, Total, ug/L	ug/L
01247	Holmium,Total ug/L	ug/L
01490	Rad, Gross, Total Solids	mg/L
01501	Alpha, Total, pC/L	pC/L
01503	Alpha, Dissolved, pC/L	pC/L
01515	Alpha, Dissolved Gross, As Uranium Natural, pC/L	pC/L
01516	Alpha, Suspended Gross, As Uranium Natural, pC/L	pC/L
03501	Beta, Total, pC/L	pC/L
03503	Beta, Dissolved, pC/L	pC/L
03511	Beta, Dissolved, Pc/Gm	PC/M
03515	Gross Beta, Dissolved (pC/L As Cs-137)	pC/L
03516	Beta, Suspended Gross, As Cs-137, pC/L	pC/L
03550	Total Specific Radioactivity, Pc/Gr	PC/G
04024	Propachlor, Dissolved, Water, Total Recoverable ug/L	ug/L
04028	Butylate, Dissolved, Water, Total Recoverable, ug/L	ug/L
04029	Bromacil, Dissolved, Water, Total Recoverable, ug/L	ug/L
04035	Simazine, Dissolved, Water, Total Recoverable, ug/L	ug/L
04037	Prometon, Dissolved, Water, Total Recoverable, ug/L	ug/L
04040	Deethylatrazine, Dissolved, Water, Total Recov., ug/L	ug/L
04041	Cyanazine, Dissolved, Water, Total Recoverable, ug/L	ug/L
04095	Fonofos, Dissolved, Water, Total Recoverable, ug/L	ug/L
04241	Gross Alpha Radiation, Total, Produced Water, pCi/L	C
04242	Gross Beta Radiation, Total, Produced Water, pCi/L	
04254	Metalaxyl, Whole Water, ug/L	ug/L
04413	1,2-Dibromo-3-Chloropropane, Total, ug/L	ug/L
04442	Diaminohydroxyatrazine (Gs-17791), Total, ug/L	ug/L
05501	Gamma, Total, pC/L	pC/L
05503	Gamma, Dissolved, pC/L	pC/L
07000	Tritium, Total, pCi/L	pC/L
07012	Tritium In Water (Tritium Units)	TU
07013	Tritium Counting Error	TU
07017	Tritium, Total (Tritium Units)	TU
07018	Tritium, Dissolved (Tritium Units)	TU
07140	Sulfur 35, Dissolved, pC/L	pC/L
07144	Sulfur 35, Total, pC/L	pC/L
09501	Radium 226, Total, pC/L	pC/L
09503	Radium 226, Dissolved, pC/L	pC/L
09511	Radium 226, Dissolved, Radon Method, pC/L	pC/L
11500	Radium 226 + Radium 228, Dissolved, pC/L	pC/L
11501	Radium 228, Total, pC/L	pC/L
11503	Radium 226 + Radium 228, Total, pC/L	pC/L
17792	Deisopropylhydroxyatrazine (G-17792), Total, ug/L	ug/L
17794	Deethylhydroxyatrazine (G-17794), Total, ug/L	ug/L

Code	Long Description	Units
22501	Thorium 232, Total, pCi/L	pC/L
22505	Thorium 228, Total, pCi/L	pC/L
22603	Uranium 238, Dissolved, pC/L	pC/L
22678	Arsenic, Dissolved Organic, ug/L	ug/L
22703	Uranium, Natural, Dissolved, ug/L	ug/L
22706	Uranium, Total ug/L As U308	ug/L
26403	Thorium, Natural, Dissolved pC/L	pC/L
26501	Thorium 230, Total, pCi/L	pC/L
28004	Carbon 14 Diss Apparent Age (Years Bp)	YR-B
28012	Uranium, Natural, Total (pC/L As U)	pC/L
28273	Diaminochloroatrazine (G-28273), Whole Water, ug/L	ug/L
28401	Cesium 137, Total, pC/L	pC/L
28403	Cesium 137, Dissolved, pC/L	pC/L
28410	Cesium 134, Dissolved, pC/L	pC/L
28414	Cesium 134, Total, pC/L	pC/L
30009	Merphos, Total Recoverable, ug/L	ug/L
30190	Dichlorprop, Total, ug/L	ug/L
30191	Dinoseb, Total, ug/L	ug/L
30217	Dibromomethane, Water, Whole Recoverable, ug/L	ug/L
30234	Bromacil, Water, Whole, Recoverable, ug/L	ug/L
30235	Butachlor, Water, Whole, Recoverable, ug/L	ug/L
30236	Butylate, Water, Whole, Recoverable, ug/L	ug/L
30245	Carboxin, Water, Whole, Recoverable, ug/L	ug/L
30254	Cycloate, Water, Whole, Recoverable, ug/L	ug/L
30255	Diphenamid, Water, Whole, Recoverable, ug/L	ug/L
30264	Hexazinone, Water, Whole, Recoverable, ug/L	ug/L
30295	Propachlor, Water, Whole, Recoverable, ug/L	ug/L
30311	Terbacil, Water, Whole, Recoverable, ug/L	ug/L
30324	Vernolate, Total, ug/L	ug/L
31674	Streptococci, Fecal 10/Ml	10/M
32017	Sodium Chloride (Nacl), mg/L	mg/L
32101	Bromodichloromethane, Total, ug/L	ug/L
32102	Carbon Tetrachloride, Total, ug/L	ug/L
32103	1,2-Dichloroethane, Total, ug/L	ug/L
32104	Bromoform, Total, ug/L	ug/L
32105	Dibromochloromethane, Total, ug/L	ug/L
32106	Chloroform, Total, ug/L	ug/L
32730	Phenols, Total (ug/L)	ug/L
34010	Toluene In Wtr Smpl Gc-Ms, Hexadone Extr. (ug/L/)	ug/L
34030	Benzene In Wtr Smpl Gc-Ms, Hexadecone Extr.(ug/L)	ug/L
34200	Acenaphthylene, Total, ug/L	ug/L
34201	Acenaphthylene, Dissolved, ug/L	ug/L
34205	Acenaphthene, Total, ug/L	ug/L
34206	Acenaphthene, Dissolved, ug/L	ug/L
34210	Acrolein, Total, ug/L	ug/L
34211	Acrolein, Dissolved, ug/L	ug/L
34215	Acrylonitrile, Total, ug/L	ug/L
34216	Acrylonitrile, Dissolved, ug/L	ug/L
34220	Anthracene, Total, ug/L	ug/L

Code	Long Description	Units
34221	Anthracene, Dissolved, ug/L	ug/L
34226	Asbestos (Fibrous), Dissolved, ug/L	ug/L
34230	Benzo(B)Fluoranthene, Total, ug/L	ug/L
34231	Benzo(B)Fluoranthene, Dissolved, ug/L	ug/L
34235	Benzene, Dissolved, ug/L	ug/L
34239	Benzidine, Dissolved, ug/L	ug/L
34242	Benzo(K)Fluoranthene, Total, ug/L	ug/L
34243	Benzo(K)Fluoranthene, Dissolved, ug/L	ug/L
34247	Benzo-(A)-Pyrene, Total, ug/L	ug/L
34248	Benzo(A) Pyrene, Dissolved, ug/L	ug/L
34253	A-Bhc-Alpha, Total, ug/L	ug/L
34255	B-Bhc-Beta, Total, ug/L	ug/L
34273	Bis (2-Chloroethyl) Ether, Total, ug/L	ug/L
34274	Bis(2-Chloroethyl) Ether, Dissolved, ug/L	ug/L
34278	Bis (2-Chloroethoxy) Methane, Total, ug/L	ug/L
34279	Bis(2-Chloroethoxy)Methane, Dissolved, ug/L	ug/L
34283	Bis (2-Chloroisopropyl) Ether, Total, ug/L	ug/L
34284	Bis(2-Chloroisopropyl) Ether, Dissolved, ug/L	ug/L
34288	Bromoform, Dissolved, ug/L	ug/L
34297	Carbon Tetrachloride, Dissolved, ug/L	ug/L
34301	Chlorobenzene, Total, ug/L	ug/L
34302	Chlorobenzene, Dissolved, ug/L	ug/L
34307	Chlorodibromomethane, Total, ug/L	ug/L
34311	Chloroethane, Total, ug/L	ug/L
34312	Chloroethane, Dissolved, ug/L	ug/L
34316	Chloroform, Dissolved, ug/L	ug/L
34320	Chrysene, Total, ug/L	ug/L
34321	Chrysene, Dissolved, ug/L	ug/L
34327	Di-N-Butyl Phthalate, Dissolved, ug/L	ug/L
34336	Diethyl Pthalate, Total, ug/L	ug/L
34337	Diethyl Phthalate, Dissolved, ug/L	ug/L
34341	Dimethyl Pthalate, Total, ug/L	ug/L
34342	Dimethyl Phthalate, Dissolved, ug/L	ug/L
34346	1,2-Diphenylhydrazine, Total, ug/L	ug/L
34347	1,2-Diphenylhydrazine, Dissolved, ug/L	ug/L
34351	Endosulfan Sulfate, Total, ug/L	ug/L
34352	Endosulfan Sulfate, Dissolved, ug/L	ug/L
34356	Endosulfan - Beta, Total, ug/L	ug/L
34361	Endosulfan - Alpha, Total, ug/L	ug/L
34366	Endrin Aldehyde, Total, ug/L	ug/L
34367	Endrin Aldehyde, Dissolved, ug/L	ug/L
34371	Ethylbenzene, Total, ug/L	ug/L
34372	Ethylbenzene, Dissolved, ug/L	ug/L
34376	Fluoranthene, Total, ug/L	ug/L
34377	Flouranthene, Dissolved ug/L	ug/L
34381	Fluorene, Total, ug/L	ug/L
34382	Fluorene, Dissolved, ug/L	ug/L
34386	Hexachlorocyclopentadiene, Total, ug/L	ug/L
34387	Hexachlrocyclopentadiene, Dissolved (ug/L)	ug/L

Code	Long Description	Units
34392	Hexachlorobutadiene, Dissolved, ug/L	ug/L
34396	Hexachloroethane, Total, ug/L	ug/L
34397	Hexachloroethane, Dissolved, ug/L	ug/L
34401	Hexachlorobenzene, Dissolved, ug/L	ug/L
34403	Indeno (1,2,3-Cd) Pyrene	ug/L
34404	Indeno (1,2,3-Cd) Pyrene, Dissolved, ug/L	ug/L
34408	Isophorone, Total, ug/L	ug/L
34409	Isophorone, Dissolved, ug/L	ug/L
34413	Methyl Bromide, Total, ug/L	ug/L
34414	Methyl Bromide, Dissolved ug/L	ug/L
34418	Methyl Chloride, Total (ug/L)	ug/L
34423	Methylene Chloride, Total, ug/L	ug/L
34424	Methylene Chloride, Dissolved, ug/L	ug/L
34428	N-Nitroso-Di-N-Propylamine, Total, ug/L	ug/L
34429	N - Nitrosodi-N-Propylamine, Dissolved, ug/L	ug/L
34433	N-Nitrosodiphenylamine, Total, ug/L	ug/L
34434	N - Nitrosodiphenylamine, Dissolved, ug/L	ug/L
34438	N-Nitrosodimethlamine, Total, ug/L	ug/L
34439	N - Nitrosodimethylamine, Dissolved, ug/L	ug/L
34443	Naphthalene, Dissolved ug/L	ug/L
34447	Nitrobenzene, Total, ug/L	ug/L
34448	Nitrobenzene, Dissolved ug/L	ug/L
34457	Pcb-1242, Dissolved (ug/L)	ug/L
34461	Phenanthrene, Total, ug/L	ug/L
34462	Phenanthrene, Dissolved ug/L	ug/L
34466	Phenol, Dissolved ug/L	ug/L
34469	Pyrene, Total, ug/L	ug/L
34470	Pyrene, Dissolved, ug/L	ug/L
34475	Tetrachloroethylene, Total, ug/L	ug/L
34476	Tetrachloroethylene, Dissolved, ug/L	ug/L
34481	Toluene, Dissolved, ug/L	ug/L
34485	Trichloroethylene, Dissolved, ug/L	ug/L
34488	Trichlorofluoromethane, Total, ug/L	ug/L
34489	Trichlorofluoromethane, Dissolved, ug/L	ug/L
34493	Vinyl Chloride, Dissolved, ug/L	ug/L
34496	1,1-Dichloroethane, Total, ug/L	ug/L
34501	1,1-Dichloroethylene, Total, ug/L	ug/L
34502	1,1-Dichloroethylene, Dissolved, ug/L	ug/L
34506	1,1,1-Trichloroethane, Total, ug/L	ug/L
34507	1,1,1-Trichloroethane, Dissolved, ug/L	ug/L
34511	1,1,2-Trichloroethane, Total, ug/L	ug/L
34512	1,1,2-Trichloroethane, Dissolved, ug/L	ug/L
34516	1,1,2,2-Tetrachloroethane, Total, ug/L	ug/L
34521	Benzo(Ghi)Perylene, Total, ug/L	ug/L
34522	Benzo(Ghi) Perylene, Dissolved, ug/L	ug/L
34527	Benzo(A) Anthracene, Total, ug/L	ug/L
34532	1,2-Dichloroethane, Dissolved, ug/L	ug/L
34536	1,2-Dichlorobenzene, Total, ug/L	ug/L
34537	1,2-Dichlorobenzene(Ortho), Dissolved, ug/L	ug/L

Code	Long Description	Units
34541	1,2-Dichloropropane, Total, ug/L	ug/L
34542	1,2-Dichloropropane, Dissolved, ug/L	ug/L
34546	Trans-1,2-Dichloroethene, Total, ug/L	ug/L
34551	1,2,4-Trichlorobenzene, Total, ug/L	ug/L
34552	1,2,4-Trichlorobenzene, Dissolved, ug/L	ug/L
34561	1,3-Dichloropropene In Whole Water Sample, ug/L	ug/L
34566	1,3-Dichlorobenzene, Total, ug/L	ug/L
34571	1,4-Dichlorobenzene, Total, ug/L	ug/L
34576	2-Chloroethyl Vinyl Ether, Total, ug/L	ug/L
34577	2-Chloroethyl Vinyl Ether, Dissolved, ug/L	ug/L
34581	2-Chloronaphthalene, Total, ug/L	ug/L
34582	2-Chloronaphthalene, Dissolved, ug/L	ug/L
34591	2-Nitrophenol, Total, ug/L	ug/L
34592	2-Nitrophenol, Dissolved, ug/L	ug/L
34596	Di-N-Octyl Phthalate, Total, ug/L	ug/L
34597	Di-N-Octyl Phthalate, Dissolved, ug/L	ug/L
34601	2,4-Dichlorophenol, Total, ug/L	ug/L
34602	2,4-Dichlorophenol, Dissolved, ug/L	ug/L
34606	2,4-Dimethylphenol, Total, ug/L	ug/L
34607	2,4-Dimethylphenol, Dissolved, ug/L	ug/L
34611	2,4-Dinitrotoluene, Total, ug/L	ug/L
34612	2,4-Dinitrotoluene, Dissolved, ug/L	ug/L
34616	2,4-Dinitrophenol, Total, ug/L	ug/L
34617	2,4-Dinitrophenol, Dissolved, ug/L	ug/L
34621	2,4,6-Trichlorophenol, Total, ug/L	ug/L
34622	2,4,6-Trichlorophenol, Dissolved, ug/L	ug/L
34626	2,6-Dinitrotoluene, Total, ug/L	ug/L
34627	2,6-Dinitrotoluene, Dissolved,ug/L	ug/L
34631	3,3'-Dichlorobenzidine, Total, ug/L	ug/L
34632	3,3'-Dichlorobenzidine, Dissolved, ug/L	ug/L
34636	4-Bromophenyl Phenyl Ether, Total, ug/L	ug/L
34637	4-Bromophenyl Phenyl Ether, Dissolved, ug/L	ug/L
34641	4-Chlorophenyl Phenyl Ether, Total, ug/L	ug/L
34642	4-Chlorophenyl Phenyl Ether, Dissolved, ug/L	ug/L
34646	4-Nitrophenol, Total, ug/L	ug/L
34647	4-Nitrophenol, Dissolved, ug/L	ug/L
34653	P,P' Dde, Dissolved, ug/L	ug/L
34662	Pcb-1221, Dissolved (ug/L)	ug/L
34665	Pcb-1232, Dissolved (ug/L)	ug/L
34668	Dichlorodifluoromethane, Total, ug/L	ug/L
34671	Pcb- 1016, Total, ug/L	ug/L
34672	Pcb-1016, Dissolved (ug/L)	ug/L
34676	2,3,7,8-Tetrachlorodibenzo-P-Dioxin(Tcdd)Diss ug/L	ug/L
34694	Phenol, Total, ug/L	ug/L
34696	Naphthalene, Total, ug/L	ug/L
34699	Trans-1,3-Dichloropropene, Total, ug/L	ug/L
34700	Trans-1,3-Dichloropropene, Dissolved, ug/L	ug/L
34704	Cis-1,3-Dichloropropene, Total, ug/L	ug/L
34705	Cis-1,3-Dichloropropene, Dissolved, ug/L	ug/L

34761Hydroxyatrazine (G34048), Whole Water, ug/Lug/L $38200$ Methylene Blue Active Substance, mg/Lmg/L $38401$ Anterlyn, Dissolved, ug/Lug/L $38414$ Atraton (Gestamin), Total, ug/Lug/L $38418$ Barban, Total, ug/Lug/L $38432$ Dalapon, Total, ug/Lug/L $38433$ Dalapon, Dissolved, ug/Lug/L $38444$ Dicaran, Total, ug/Lug/L $38445$ Dicaran, Total, ug/Lug/L $38446$ Dicaran, Total, ug/Lug/L $38477$ Linuron, Water, Dissolved, ug/Lug/L $38482$ Mcpa, Water, Dissolved, ug/Lug/L $38482$ Mcpa, Water, Dissolved, ug/Lug/L $38482$ Mcpa, Water, Dissolved, ug/Lug/L $38483$ Mcpho, Water, Dissolved, ug/Lug/L $38496$ Merphos (Foley), Dissolved, ug/Lug/L $38496$ Merphos (Foley), Dissolved, ug/Lug/L $38521$ Neburon, Total, ug/Lug/L $38576$ Acrylamide, Total, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L $3877$ Tirlbralin (Treflan), Dissolved, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L $3877$ Tirlbralin, Total, ug/Lug/L $3876$ Acrylamide, Total, ug/Lug/L <th>Code</th> <th>Long Description</th> <th>Units</th>	Code	Long Description	Units
38260       Methylene Blue Active Substance, mg/L       mg/L         38410       Ametryn, Dissolved, ug/L       ug/L         38414       Artarton (Gestamin), Total, ug/L       ug/L         38418       Barban, Total, ug/L       ug/L         38422       Dalapon, Dissolved, ug/L       ug/L         38433       Dalapon, Dissolved, ug/L       ug/L         38444       Dicloran, Total, ug/L       ug/L         38445       Famphur, Dissolved, ug/L       ug/L         38477       Linuron (Lorox), Total, ug/L       ug/L         38478       Mcpa, Water, Dissolved, ug/L       ug/L         38482       Mcpa, Water, Dissolved, ug/L       ug/L         38476       Merphos (Foley), Dissolved, ug/L       ug/L         38470       Merphos (Foley), Dissolved, ug/L       ug/L         38500       Methiocarb, Total, ug/L       ug/L         38511       Methiocarb, Total, ug/L       ug/L         38522       Neburon, Dissolved, ug/L       ug/L         38534       Trifluralin (Treflan, Dissolved, ug/L       ug/L         38574       Trifluralin (Treflan, Dissolved, ug/L       ug/L         38745       2,4-Db, Total, ug/L       ug/L         38761       Dibromochloropropane, Dissolved, u		5 I	
38401Ametryn, Dissolved, ug/Lug/L38414Atraton (Gestamin), Total, ug/Lug/L38413Barban, Total, ug/Lug/L38432Dalapon, Total, ug/Lug/L38433Dalapon, Dissolved, ug/Lug/L38444Dicloran, Total, ug/Lug/L38445Dicloran, Total, ug/Lug/L38446Dicloran, Total, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Coxo, Total, ug/Lug/L38478Linuron, Coxo, Total, ug/Lug/L38487Mceph, Water, Dissolved, ug/Lug/L38487Mceph, Water, Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38501Methiocarb, Total, ug/Lug/L38521Neburon, Total, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L3876Acrylamide, Total, ug/Lug/L3876Acrylamide, Total, ug/Lug/L3876Dibromochloropropane, Dissolved, ug/Lug/L3876Dibromochloropropane, Dissolved, ug/Lug/L3876Dibromochloropropane, Dissolved, ug/Lug/L3876Dibromochloropropane, Dissolved, ug/Lug/L3877Ethalfluralin, Total, ug/Lug/L3878Bibalfluralin, Total, ug/Lug/L3879Ditormochloropropane, Dissolved, ug/Lug/L			-
38414Atraion (Gestamin), Total, ug/Lug/L38418Barban, Total, ug/Lug/L38432Dalapon, Total, ug/Lug/L38432Dalapon, Dissolved, ug/Lug/L38444Dicloran, Total, ug/Lug/L38445Dicloran, Total, ug/Lug/L38446Dicloran, Total, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Meph, Water, Dissolved, ug/Lug/L38479Meph, Water, Dissolved, ug/Lug/L38470Mepho, Water, Dissolved, ug/Lug/L38481Mepho, Water, Dissolved, ug/Lug/L38492Mephos (Foley), Dissolved, ug/Lug/L38501Methiocarb, Total, ug/Lug/L38512Neburon, Total, ug/Lug/L38523Neburon, Total, ug/Lug/L38524Trifluralin (Treflan, Dissolved, ug/Lug/L38745Aerylamide, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L38747Ethalfluralin, Total, ug/Lug/L38748Ethalfluralin, Total, ug/Lug/L38749Bibromochloropropane), Dissolved, ug/Lug/L3874Bibromochloropropane), Dissolved, ug/Lug/L3874Bibromochloropropane), Dissolved, ug/Lug/L3875Bethalfluralin, Total, ug/Lug/L3876Bibromochloropropane), Dissolved, ug/L			
38418Barban, Total, ug/Lug/L38432Dalapon, Total, ug/Lug/L38433Dalapon, Dissolved, ug/Lug/L38434Dicamba (Banvel) Water, Dissolved, ug/Lug/L38446Dicloran, Total, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38487Mepa, Water, Dissolved, ug/Lug/L38487Mepb, Water, Dissolved, ug/Lug/L38487Mepb, Water, Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38501Methiocarh, Total, ug/Lug/L38521Neburon, Total, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38539Neburon, Total, ug/Lug/L38544Sentar, Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L38760Bentazon, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dibromochloropropane, Dissolved, ug/Lug/L38778Ethalfluralin, Total, ug/Lug/L38781Bentazon, Total, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38764Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38775Ethalfluralin, Total, ug/Lug/L38781Hubartin, Dissolved, ug/Lug/L38792Etridiazole,			-
38432Dalapon, Total, ug/Lug/L38433Dalapon, Dissolved, ug/Lug/L38442Dicamba (Banvel) Water, Dissolved, ug/Lug/L38446Dicloran, Total, ug/Lug/L38447Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38487Mcpb, Water, Dissolved, ug/Lug/L38487Mcpb, Water, Dissolved, ug/Lug/L38487Mcpb, Water, Dissolved, ug/Lug/L38496Merthos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38511Methiocarb, Total, ug/Lug/L38522Neburon, Total, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38544Trifluralin (Treflan), Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38779Dinosch, Dissolved, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38785Swep, Dissolved, ug/Lug/L38796Dibromochloropropane), Dissolved, ug/Lug/L38797Dinosch, Dissolved, ug/Lug/L38798Ethalfluralin, Total, ug/Lug/L38792Etridiazole, Total,			-
38433Dalapon, Dissolved, ug/Lug/L38442Dicamba (Banvel) Water, Dissolved, ug/Lug/L38446Dicloran, Total, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38478Mcpa, Water, Dissolved, ug/Lug/L38482Mcpa, Water, Dissolved, ug/Lug/L38483Mcpbos (Foley), Dissolved, ug/Lug/L38494Merphos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38501Methiocarb, Otal, ug/Lug/L38522Neburon, Total, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38544Trifluralin (Treflan), Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L38711Bentazon, Total, ug/Lug/L38760Dissolved, ug/Lug/L38711Bentazon, Dissolved, ug/Lug/L38761Detop (Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38778Ethalfluralin, Total, ug/Lug/L38780Fluometuron, Total, ug/Lug/L38791Discolved, ug/Lug/L38702Ethalfluralin, Total, ug/Lug/L38703Stinofox, Dissolved, ug/Lug/L38704QL/Lug/L38715Bentazon, Dissolved, ug/Lug/L3876Acrylamide, Dissolved, ug/Lug/L3877Binderton, Tot		-	-
38442Dicamba (Banvel) Water, Dissolved, ug/Lug/L38446Dicloran, Total, ug/Lug/L38463Famphur, Dissolved, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38487Mcpa, Water, Dissolved, ug/Lug/L38487Mcpb, Water, Dissolved, ug/Lug/L38487Mcpbos (Foley), Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38501Methiocarb, Total, ug/Lug/L38521Neburon, Total, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L3876Acrylamide, Total, ug/Lug/L38776Acrylamide, Total, ug/Lug/L3876Acrylamide, Total, ug/Lug/L38776Dibromochloorpropane (Dbcp), Total, ug/Lug/L3876Acrylamide, Total, ug/Lug/L38776Dibromochloorpropane, Obsolved, ug/Lug/L3876Dibromochloorpropane, Dissolved, ug/Lug/L3876Bertazon, Total, ug/Lug/L3877Bindafuzih, Dissolved, ug/Lug/L3876Acrylamilin, Dissolved, ug/Lug/L38770Dibromochloorpropane, Dissolved, ug/Lug/L3878Ethalfluralin, Total, ug/Lug/L3879Ethalfluralin, Dissolved, ug/Lug/L38810Fluometuron, Water, Dissolved, ug/L <td></td> <td></td> <td>-</td>			-
38446Dicloran, Total, ug/Lug/L38463Famphur, Dissolved, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38478Mcpa, Water, Dissolved, ug/Lug/L38482Mcpa, Water, Dissolved, ug/Lug/L38484Merphos (Foley), Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38511Methiocarb, Total, ug/Lug/L38522Neburon, Total, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38776Acrylamide, Total, ug/Lug/L38776Acrylamide, Total, ug/Lug/L38776Acrylamide, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38777Dinoseb, Dissolved, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38810Heuometuron, Total, ug/Lug/L38851Fluometuron, Total, ug/Lug/L38852Swep, Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Oxamyl (Vydate), Total, ug/Lug/L38856Oxamyl, Water, Dissolved, ug/Lug/L38857Sinsolved, ug/L <td></td> <td></td> <td>-</td>			-
38463Famphur, Dissolved, ug/Lug/L38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38482Mcpa, Water, Dissolved, ug/Lug/L38484Mcpb, Water, Dissolved, ug/Lug/L38485Mcphos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38511Methiocarb, Water, Dissolved, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38771Bentazon, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L38747Dibromochloropropane (Dbcp), Total, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38770Ethalfluralin, Total, ug/Lug/L38781Ethalfluralin, Total, ug/Lug/L38792Ethalfluralin, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38856Oxamyl (Vydate), Total, ug/Lug/L38857Stirofox, Dissolved, ug/Lug/L38856Oxamyl (Vydate, Dissolved, ug/Lug/L38857Stirofox, Dissolved, ug/Lug/L38858Stirofox, Dissolved, ug/Lug/L38855Swep, Total, ug/Lug/		· · · · · · · · · · · · · · · · · · ·	-
38477Linuron (Lorox), Total, ug/Lug/L38478Linuron, Water, Dissolved, ug/Lug/L38482Mcpa, Water, Dissolved, ug/Lug/L38487Mcpb, Water, Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38501Methiocarb, Total, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Total, ug/Lug/L38574Trifluralin (Treflan, Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38747Trifluralin (Treflan, Dissolved, ug/Lug/L387482,4-Db, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L38747Ethalfluralin, Dissolved, ug/Lug/L38748Ethalfluralin, Dissolved, ug/Lug/L38749Binoseh, Dissolved, ug/Lug/L387462,4-Db, Total, ug/Lug/L38747Ethalfluralin, Dissolved, ug/Lug/L38748Ethalfluralin, Dissolved, ug/Lug/L38749Binderuon, Total, ug/Lug/L38740Dibromochloropropane(), Dissolved, ug/Lug/L3875Swep, Total, ug/Lug/L3876Halfluralin, Dissolved, ug/Lug/L3877Ethalfluralin, Dissolved, ug/Lug/L38810Fluometuron, Total, ug/Lug		•	-
38478Linuron, Water, Dissolved, ug/Lug/L38482Mcpa, Water, Dissolved, ug/Lug/L38487Mcpb, Water, Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38501Methiocarb, Water, Dissolved, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38776Acrylamide, Total, ug/Lug/L38711Bentazon, Total, ug/Lug/L38761Dentazon, Dissolved, ug/Lug/L387622,4-Db, Total, ug/Lug/L38763Dibromochloropropane (Dbcp), Total, ug/Lug/L38764Dibromochloropropane, Dissolved, ug/Lug/L38765Dibromochloropropane, Dissolved, ug/Lug/L38776Ethalfluralin, Dissolved, ug/Lug/L38788Ethalfluralin, Dissolved, ug/Lug/L38789Ethalfluralin, Dissolved, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38856Oxamyl (Vydate), Total, ug/Lug/L38857Swep, Total, ug/Lug/L38866Oxamyl (Water, Dissolved, ug/Lug/L38877Simotryne, Total, ug/Lug/L38878Simolyed, ug/Lug/L38879 </td <td></td> <td>· · ·</td> <td>-</td>		· · ·	-
38482Mcpa, Water, Dissolved, ug/Lug/L $38487$ Mcpb, Water, Dissolved, ug/Lug/L $38496$ Merphos (Foley), Dissolved, ug/Lug/L $38500$ Methiocarb, Total, ug/Lug/L $38501$ Methiocarb, Water, Dissolved, ug/Lug/L $38521$ Neburon, Total, ug/Lug/L $38522$ Neburon, Dissolved, ug/Lug/L $38538$ Propoxur, Water, Dissolved, ug/Lug/L $38574$ Trifluralin (Treflan), Dissolved, ug/Lug/L $38576$ Acrylamide, Total, ug/Lug/L $38745$ 2.4-Db, Total, ug/Lug/L $38745$ 2.4-Db, Total, ug/Lug/L $38746$ 2.4-Db, Total, ug/Lug/L $38746$ 2.4-Db, Total, ug/Lug/L $38776$ Dibromochloropropane (Dbcp), Total, ug/Lug/L $38776$ Dibromochloropropane, Dissolved, ug/Lug/L $38788$ Ethalfluralin, Total, ug/Lug/L $38788$ Ethalfluralin, Total, ug/Lug/L $38810$ Fluometuron, Total, ug/Lug/L $38788$ Ethalfluralin, Total, ug/Lug/L $38810$ Fluometuron, Total, ug/Lug/L $38810$ Fluometuron, Total, ug/Lug/L $38855$ Swep, Total, ug/Lug/L $38856$ Oxamyl (Vsdate), Total, ug/Lug/L $38856$ Oxamyl, Water, Dissolved, ug/Lug/L $38866$ Oxamyl, Water, Dissolved, ug/Lug/L $38876$ Phorate, Dissolved, ug/Lug/L $38877$ Phorate, Dissolved, ug/L<			-
38487Mcpb, Water, Dissolved, ug/Lug/L38496Merphos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38501Methiocarb, Water, Dissolved, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Total, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38777Bentazon, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L387462,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38778Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38793Bioneeturon, Total, ug/Lug/L38794Hometuron, Total, ug/Lug/L38795Stahlfuralin, Total, ug/Lug/L38796Dibromochloropropane(Dbcp), Total, ug/Lug/L38797Ethalfluralin, Total, ug/Lug/L38798Stahlfuralin, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38856Oxamyl (Vydate), Total, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38872Stirofos, Dissolved, ug/Lug/L38877Stirofos, Dissolved, ug/Lug			-
38496Merphos (Foley), Dissolved, ug/Lug/L38500Methiocarb, Total, ug/Lug/L38501Methiocarb, Total, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L38711Bentazon, Dissolved, ug/Lug/L387452,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane, Dissolved, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38866Oxamyl (Vydate), Total, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38871Sitoroke, Ug/Lug/L38872Profluralin, Total, ug/Lug/L38853Swep, Dissolved, ug/Lug/L3886Oxamyl (Vydate), Total, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38871Sitoroko, Dissolved, ug/Lug/L38872Profluralin, Total, ug/Lug/L<		· ·	-
38500Methiocarb, Total, ug/Lug/L38501Methiocarb, Water, Dissolved, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38575Acrylamide, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38778Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38856Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38871Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissol		· ·	-
38501Methiocarb, Water, Dissolved, ug/Lug/L38521Neburon, Total, ug/Lug/L38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L38766Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38778Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38789Ethalfluralin, Total, ug/Lug/L38780Dibromochloropropane (Dbcp), Total, ug/Lug/L38781Bthalfluralin, Total, ug/Lug/L38782Ethalfluralin, Total, ug/Lug/L38783Ethalfluralin, Dissolved, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38851Swep, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38865Oxamyl (Vydate), Total, ug/Lug/L38866Oxamyl (Vydate), Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878 <td< td=""><td></td><td></td><td>-</td></td<>			-
38521Neburon, Total, ug/Lug/L38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L38711Bentazon, Total, ug/Lug/L387452,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38771Bentazon, Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Dissolved, ug/Lug/L38789Ethalfluralin, Dissolved, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38856Oxamyl (Vydate), Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L<		•	-
38522Neburon, Dissolved, ug/Lug/L38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L38711Bentazon, Dissolved, ug/Lug/L387452,4-Db, Total, ug/Lug/L38766Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38775Ethalfluralin, Total, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38865Oxamyl (Vydate), Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38866Oxamyl (Vydate), Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L <td></td> <td></td> <td>-</td>			-
38538Propoxur, Water, Dissolved, ug/Lug/L38574Trifluralin (Treflan), Dissolved, ug/Lug/L38576Acrylamide, Total, ug/Lug/L38710Bentazon, Total, ug/Lug/L38711Bentazon, Dissolved, ug/Lug/L387452,4-Db, Total, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38778Ethalfluralin, Total, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38856Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38851Swep, Total, ug/Lug/L38854Swep, Total, ug/Lug/L38875Swep, Dissolved, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38871Simetryne, Total, ug/Lug/L38872Profluralin, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38883Turbacil, Total, ug/Lug/L38884Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L <td></td> <td>•</td> <td>-</td>		•	-
38574Trifluralin (Treflan), Dissolved, ug/Lug/L $38576$ Acrylamide, Total, ug/Lug/L $38576$ Acrylamide, Total, ug/Lug/L $38710$ Bentazon, Total, ug/Lug/L $38711$ Bentazon, Dissolved, ug/Lug/L $38745$ $2.4$ -Db, Total, ug/Lug/L $38760$ Dibromochloropropane (Dbcp), Total, ug/Lug/L $38761$ Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L $38779$ Dinoseb, Dissolved, ug/Lug/L $38787$ Ethalfluralin, Total, ug/Lug/L $38788$ Ethalfluralin, Total, ug/Lug/L $38810$ Fluometuron, Total, ug/Lug/L $38854$ Swep, Total, ug/Lug/L $38855$ Swep, Total, ug/Lug/L $38855$ Swep, Total, ug/Lug/L $38866$ Oxamyl, Water, Dissolved, ug/Lug/L $38870$ Phorate, Dissolved, ug/Lug/L $38870$ Phorate, Dissolved, ug/Lug/L $38872$ Profluralin, Total, ug/Lug/L $38873$ Simetryne, Total, ug/Lug/L $38874$ Swep, Dissolved, ug/Lug/L $38875$ Swep, Dissolved, ug/Lug/L $38876$ Oxamyl, Water, Dissolved, ug/Lug/L $38876$ Dissolved, ug/Lug/L $38877$ Simetryne, Total, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38888$ Turbacil, Total, ug/Lug/L $38888$ Terbutr	38538		-
38576Acrylamide, Total, ug/Lug/L $38710$ Bentazon, Total, ug/Lug/L $38711$ Bentazon, Dissolved, ug/Lug/L $38745$ $2,4$ -Db, Total, ug/Lug/L $38745$ $2,4$ -Db, Water, Dissolved, ug/Lug/L $38760$ Dibromochloropropane (Dbcp), Total, ug/Lug/L $38776$ Dibromochloropropane), Dissolved, ug/Lug/L $38776$ Dibromochloropropane), Dissolved, ug/Lug/L $38777$ Dinoseb, Dissolved, ug/Lug/L $38787$ Ethalfluralin, Total, ug/Lug/L $38788$ Ethalfluralin, Total, ug/Lug/L $38792$ Etridiazole, Total, ug/Lug/L $38810$ Fluometuron, Total, ug/Lug/L $38854$ Swep, Total, ug/Lug/L $38855$ Swep, Total, ug/Lug/L $38866$ Oxamyl (Vydate), Total, ug/Lug/L $38870$ Phorate, Dissolved, ug/Lug/L $38877$ Simetryne, Total, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38878$ Turbacil, Total, ug/Lug/L $38883$ Turbacil, Total, ug/Lug/L $38884$ Furburyne, Total, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38883$ Turbacil, Total, ug/Lug/L $38884$ Terbutryn, Total, ug/Lug/L $38885$ <td></td> <td></td> <td>-</td>			-
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38711Bentazon, Dissolved, ug/Lug/L $38745$ 2,4-Db, Total, ug/Lug/L $38746$ 2,4-Db, Water, Dissolved, ug/Lug/L $38760$ Dibromochloropropane (Dbcp), Total, ug/Lug/L $38761$ Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L $38779$ Dinoseb, Dissolved, ug/Lug/L $38778$ Ethalfluralin, Total, ug/Lug/L $38788$ Ethalfluralin, Dissolved, ug/Lug/L $38788$ Ethalfluralin, Dissolved, ug/Lug/L $38784$ Ethalfluralin, Dissolved, ug/Lug/L $38785$ Ethalfluralin, Dissolved, ug/Lug/L $38810$ Fluometuron, Total, ug/Lug/L $38811$ Fluometuron, Water, Dissolved, ug/Lug/L $38854$ Swep, Total, ug/Lug/L $38855$ Swep, Total, ug/Lug/L $38866$ Oxamyl (Vydate), Total, ug/Lug/L $38870$ Phorate, Dissolved, ug/Lug/L $38872$ Profluralin, Total, ug/Lug/L $38873$ Stirofos, Dissolved, ug/Lug/L $38874$ Stirofos, Dissolved, ug/Lug/L $38875$ Stirofos, Dissolved, ug/Lug/L $38876$ Phorate, Dissolved, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38874$ Turbacil, Total, ug/Lug/L $38875$ Terbutryn, Total, ug/Lug/L $38876$ Turbacil, Dissolved, ug/Lug/L $38878$ Turbacil, Dissolved, ug/L	38710	• •	-
387452,4-Db, Total, ug/Lug/L387462,4-Db, Water, Dissolved, ug/Lug/L38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Dissolved, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Water, Dissolved, ug/Lug/L38855Swep, Total, ug/Lug/L38856Oxamyl (Vydate), Total, ug/Lug/L38866Oxamyl (Vydate), Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38875Stirofos, Dissolved, ug/Lug/L38876Stirofos, Dissolved, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38874Turbacil, Total, ug/Lug/L38875Trabacil, Total, ug/Lug/L38876Turbacil, Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Turbacil, Dissolved, ug/Lug	38711	-	-
38760Dibromochloropropane (Dbcp), Total, ug/Lug/L38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L38779Dinoseb, Dissolved, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Dissolved, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38856Oxamyl (Velpar), Total, ug/Lug/L38865Oxamyl (Vydate), Total, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38871Simetryne, Total, ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Stirofos, Dissolved, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38875Stirofos, Dissolved, ug/Lug/L38876Turbacil, Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38883Turbacil, Total, ug/Lug/L3883Turbacil, Dissolved, ug/Lug/L3883Turbacil, Dissolved, ug/Lug/L3883Turbacil, Dissolved, ug/Lug/L3888Terbutryn, Total, ug/Lug/L38892Triadimefon, Total, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38745	2,4-Db, Total, ug/L	-
38761Dbcp (Dibromochloropropane), Dissolved, ug/Lug/L $38777$ Dinoseb, Dissolved, ug/Lug/L $38787$ Ethalfluralin, Total, ug/Lug/L $38788$ Ethalfluralin, Dissolved, ug/Lug/L $38788$ Ethalfluralin, Dissolved, ug/Lug/L $38792$ Etridiazole, Total, ug/Lug/L $38781$ Fluometuron, Total, ug/Lug/L $38810$ Fluometuron, Water, Dissolved, ug/Lug/L $38816$ Hexazinone (Velpar), Total, ug/Lug/L $38855$ Swep, Total, ug/Lug/L $38856$ Oxamyl (Vydate), Total, ug/Lug/L $38866$ Oxamyl, Water, Dissolved, ug/Lug/L $38870$ Phorate, Dissolved ug/Lug/L $38872$ Profluralin, Total, ug/Lug/L $38873$ Stirofos, Dissolved, ug/Lug/L $38874$ Stirofos, Dissolved, ug/Lug/L $38877$ Simetryne, Total, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38882$ Turbacil, Total, ug/Lug/L $38883$ Turbacil, Dissolved, ug/Lug/L $38887$ Terbutryn, Total, ug/Lug/L $38888$ Terbutryn, Dissolved, ug/Lug/L $38888$ Terbutryn, Dissolved, ug/Lug/L $38892$ Triadimefon, Total, ug/Lug/L	38746	2,4-Db, Water, Dissolved, ug/L	ug/L
38779Dinoseb, Dissolved, ug/Lug/L38787Ethalfluralin, Total, ug/Lug/L38788Ethalfluralin, Dissolved, ug/Lug/L38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Water, Dissolved, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Total, ug/Lug/L38866Oxamyl (Vydate), Total, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38871Simetryne, Total, ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Stirofos, Dissolved, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38875Stirofos, Dissolved, ug/Lug/L38876Turbacil, Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Terbutryn, Total, ug/Lug/L38886Terbutryn, Dissolved, ug/Lug/L38887Terbutryn, Dissolved, ug/Lug/L38882Tiradimefon, Total, ug/Lug/L38882Tiradimefon, Total, ug/Lug/L38882Tiradimefon, Total, ug/Lug/L38892Tiradimefon, Total, ug/Lug/L38892Tiradim	38760	Dibromochloropropane (Dbcp), Total, ug/L	ug/L
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38792Etridiazole, Total, ug/Lug/L38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Water, Dissolved, ug/Lug/L38816Hexazinone (Velpar), Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38866Oxamyl (Vydate), Total, ug/Lug/L38870Phorate, Dissolved, ug/Lug/L38871Simetryne, Total, ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Stirofos, Dissolved, ug/Lug/L38883Turbacil, Total, ug/Lug/L38873Turbacil, Total, ug/Lug/L38883Terbutryn, Total, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Tirbacil, Dissolved, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38883Turbacil, Total, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Terbutryn, Total, ug/Lug/L38886Terbutryn, Dissolved, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38787	Ethalfluralin, Total, ug/L	ug/L
38810Fluometuron, Total, ug/Lug/L38811Fluometuron, Water, Dissolved, ug/Lug/L38816Hexazinone (Velpar), Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38865Oxamyl (Vydate), Total, ug/Lug/L38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38872Profluralin, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38882Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Terbutryn, Total, ug/Lug/L38888Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38788	Ethalfluralin, Dissolved, ug/L	ug/L
38811Fluometuron, Water, Dissolved, ug/Lug/L $38816$ Hexazinone (Velpar), Total, ug/Lug/L $38854$ Swep, Total, ug/Lug/L $38855$ Swep, Dissolved, ug/Lug/L $38865$ Oxamyl (Vydate), Total, ug/Lug/L $38866$ Oxamyl, Water, Dissolved, ug/Lug/L $38870$ Phorate, Dissolved ug/Lug/L $38872$ Profluralin, Total, ug/Lug/L $38878$ Stirofos, Dissolved, ug/Lug/L $38882$ Turbacil, Total, ug/Lug/L $38883$ Turbacil, Dissolved, ug/Lug/L $38884$ Terbutryn, Total, ug/Lug/L $38888$ Terbutryn, Total, ug/Lug/L $38888$ Terbutryn, Dissolved, ug/Lug/L $38882$ Turbacil, Dissolved, ug/Lug/L $38883$ Terbutryn, Total, ug/Lug/L $38884$ Terbutryn, Total, ug/Lug/L $38888$ Terbutryn, Total, ug/Lug/L $38888$ Terbutryn, Dissolved, ug/Lug/L $38892$ Triadimefon, Total, ug/Lug/L	38792	Etridiazole, Total, ug/L	ug/L
38816Hexazinone (Velpar), Total, ug/Lug/L38816Hexazinone (Velpar), Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38865Oxamyl (Vydate), Total, ug/Lug/L38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Stirofos, Dissolved, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38883Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38882Triadimefon, Total, ug/Lug/L	38810	Fluometuron, Total, ug/L	ug/L
38854Swep, Total, ug/Lug/L38854Swep, Total, ug/Lug/L38855Swep, Dissolved, ug/Lug/L38865Oxamyl (Vydate), Total, ug/Lug/L38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Simetryne, Total, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38875Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Terbutryn, Dissolved, ug/Lug/L38882Triadimefon, Total, ug/Lug/L	38811	Fluometuron, Water, Dissolved, ug/L	ug/L
38855Swep, Dissolved, ug/Lug/L38855Oxamyl (Vydate), Total, ug/Lug/L38865Oxamyl, Water, Dissolved, ug/Lug/L38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Simetryne, Total, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38885Terbutryn, Dissolved, ug/Lug/L38882Triadimefon, Total, ug/Lug/L	38816	Hexazinone (Velpar), Total, ug/L	ug/L
38865Oxamyl (Vydate), Total, ug/Lug/L38865Oxamyl, Water, Dissolved, ug/Lug/L38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Simetryne, Total, ug/Lug/L38874Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38854	Swep, Total, ug/L	ug/L
38866Oxamyl, Water, Dissolved, ug/Lug/L38870Phorate, Dissolved ug/Lug/L38870Profluralin, Total, ug/Lug/L38872Profluralin, Total, ug/Lug/L38873Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38884Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38855	Swep, Dissolved, ug/L	ug/L
38870Phorate, Dissolved ug/Lug/L38870Profluralin, Total, ug/Lug/L38872Profluralin, Total, ug/Lug/L38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38887Terbutryn, Total, ug/Lug/L38888Terbutryn, Total, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38865	Oxamyl (Vydate), Total, ug/L	ug/L
38872Profluralin, Total, ug/Lug/L38872Simetryne, Total, ug/Lug/L38873Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38887Terbutryn, Total, ug/Lug/L38888Terbutryn, Total, ug/Lug/L38889Triadimefon, Total, ug/Lug/L	38866	Oxamyl, Water, Dissolved, ug/L	ug/L
38877Simetryne, Total, ug/Lug/L38878Stirofos, Dissolved, ug/Lug/L38882Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38887Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38870	Phorate, Dissolved ug/L	ug/L
38878Stirofos, Dissolved, ug/Lug/L38878Turbacil, Total, ug/Lug/L38883Turbacil, Dissolved, ug/Lug/L38887Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38872	Profluralin, Total, ug/L	ug/L
3882Turbacil, Total, ug/Lug/L3883Turbacil, Dissolved, ug/Lug/L3887Terbutryn, Total, ug/Lug/L3888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L	38877		ug/L
38883Turbacil, Dissolved, ug/Lug/L38887Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L		•	ug/L
38887Terbutryn, Total, ug/Lug/L38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L		-	-
38888Terbutryn, Dissolved, ug/Lug/L38892Triadimefon, Total, ug/Lug/L		•	-
38892Triadimefon, Total, ug/Lug/L			
			-
20002 This for Distance $T$			-
38893 Iriadimeton, Dissolved, ug/L ug/L	38893	Triadimefon, Dissolved, ug/L	ug/L

Code	Long Description	Units
38902	Tricyclazole, Total, ug/L	ug/L
38903	Tricyclazole, Dissolved, ug/L	ug/L
38926	Endothall, Total, ug/L	ug/L
38927	Methamidaphos (Monitor), Total, ug/L	ug/L
38929	Fenamiphos (Nemacur), Total, ug/L	ug/L
38932	Chlorpyrifos, Water, Whole, Recoverable, ug/L	ug/L
38933	Dursban (Chloropyrifos) Dissolved, ug/L	ug/L
39002	Benefin, Electroncapture, Total, ug/L	ug/L
39006	Dasanit (Fensulfothion), Total, ug/L	ug/L
39010	Disulfoton, Flame Photometric, Total, ug/L	ug/L
39011	Disyston, Whole Water Sample, ug/L	ug/L
39013	Dyfonate, Flame Photometric, Total, ug/L	ug/L
39023	Phorate, Total, ug/L	ug/L
39023	Propazine, Coulson Conductivity, Total, ug/L	ug/L
39029	Terrachlor.Pentachloronitrobenzene(Gcl), Tot, ug/L	ug/L
39030	Trifluralin, Total Recoverable, ug/L	ug/L
39031	Difolatan (Captafol), Total, ug/L	ug/L ug/L
39031 39032	Pentachlorophenol (Pcp), Total, ug/L	ug/L ug/L
39032 39033	Atrazine, Total, ug/L	ug/L ug/L
39033 39034	Perthane, Total, ug/L	-
39034 39037	Propanil, Total, ug/L	ug/L
		ug/L
39040	Def, Total, ug/L	ug/L
39045	2,4,5-Tp Includes Acids & Salts In Water, ug/L	ug/L
39051	Methomyl, Total, ug/L	ug/L
39052	Propham, Total, ug/L	ug/L
39053	Aldicarb, Total, ug/L	ug/L
39054	Simetryne, Total, ug/L	ug/L
39055	Simazine, Total, ug/L	ug/L
39056	Prometon, Total, ug/L	ug/L
39057	Prometryne, Total, ug/L	ug/L
39062	Chlordane-Cis, Total, ug/L	ug/L
39065	Chlordane-Trans, Total, ug/L	ug/L
39080	Pronamide, Total, ug/L	ug/L
39086	Alkalinity, Field, Dissolved As CaCO3	mg/L
39100	Bis(2-Ethylhexyl) Phthalate, Total, ug/L	ug/L
39103	Bis(2-Ethylhexyl) Phthalate, Dissolved, ug/L	ug/L
39110	Di-N-Butyl Phthalate, Total, ug/L	ug/L
39112	Dibutyl Phthalate, Total, ug/L	ug/L
39120	Benzidine, Total, ug/L	ug/L
39175	Vinyl Chloride, Total, ug/L	ug/L
39180	Trichloroethylene, Total, ug/L	ug/L
39250	Naphthalenes, Polychlorinated, Total, ug/L	ug/L
39300	P,P' Ddt In Whole Water Sample (ug/L)	ug/L
39310	P,P' Ddd In Whole Water Sample (ug/L)	ug/L
39320	P,P' Dde In Whole Water Sample (ug/L)	ug/L
39330	Aldrin, Total, ug/L	ug/L
39331	Aldrin, Dissolved, ug/L	ug/L
39340	Gamma-Bhc (Lindane), Total, ug/L	ug/L
39341	Lindane, Water, Dissolved, ug/L	ug/L

Code	Long Description	Units
39348	Chlordane-Alpha, Total, ug/L	ug/L
39350	Chlordane, Total, ug/L	ug/L
39352	Chlordane (Tech Mix & Metabs), Dissolved, ug/L	ug/L
39356	Metolachlor (Dual), Total, ug/L	ug/L
39360	Ddd, Total, ug/L	ug/L
39361	Ddd, Dissolved, ug/L	ug/L
39365	Dde, Total, ug/L	ug/L
39366	Dde, Dissolved, ug/L	ug/L
39370	Ddt, Total, ug/L	ug/L
39371	Ddt, Dissolved, ug/L	ug/L
39379	Sum of Ddt, Dde & Ddd Values, Total, ug/L	ug/L
39380	Dieldrin, Total, ug/L	ug/L
39381	Dieldrin, Dissolved, ug/L	ug/L
39388	Endosulfan, Total, ug/L	ug/L
39390	Endrin, Total, ug/L	ug/L
39391	Endrin, Dissolved, ug/L	ug/L
39398	Ethion, Total, ug/L	ug/L
39400	Toxaphene, Total, ug/L	ug/L
39401	Toxaphene, Dissolved, ug/L	ug/L
39410	Heptachlor, Total, ug/L	ug/L
39411	Heptachlor, Dissolved, ug/L	ug/L
39415	Metolachlor, Water, Dissolved, ug/L	ug/L
39420	Heptachlor Epoxide, Total, ug/L	ug/L
39421	Heptachlor Epoxide, Dissolved, ug/L	ug/L
39430	Isodrin, Total, ug/L	ug/L
39460	Chlorobenzilate, Total, ug/L	ug/L
39478	Methoxychlor, Dissolved, ug/L	ug/L
39480	Methoxychlor, Total, ug/L	ug/L
39488	Pcb - 1221, Total, ug/L	ug/L
39492	Pcb - 1232, Total, ug/L	ug/L
39496	Pcb - 1242, Total, ug/L	ug/L
39500	Pcb - 1248, Total, ug/L	ug/L
39502	Pcb - 1248 (Araclor), Dissolved, ug/L	ug/L
39504	Pcb - 1254, Total, ug/L	ug/L
39505	Pcb - 1254 (Araclor), Dissolved, ug/L	ug/L
39508	Pcb - 1260, Total, ug/L	ug/L
39509	Pcb - 1260 (Araclor), Dissolved, ug/L	ug/L
39516	Pcbs, TOTAL, ug/L	ug/L
39530	Malathion, Total, ug/L	ug/L
39532	Malathion, Dissolved, ug/L	ug/L
39540	Parathion, Total, ug/L	ug/L
39542	Parathion, Water, Dissolved, ug/L	ug/L
39560	Demeton, Total, ug/L	ug/L
39570	Diazinon, Total, ug/L	ug/L
39572	Diazinon, Dissolved, ug/L	ug/L
39580	Guthion, Total, ug/L	ug/L
39600	Methyl Parathion, Total, ug/L	ug/L
39630	Atrazine (Aatrex), Total, ug/L	ug/L
39632	Atrazine, Water, Dissolved, ug/L	ug/L

Code	Long Description	Units
39640	Captan, Total, ug/L	ug/L
39650	Diuron, Total, ug/L	ug/L
39700	Hexachlorobenzene (Hcb), Total, ug/L	ug/L
39702	Hexachlorobutadiene, Total, ug/L	ug/L
39720	Picloram, Total, ug/L	ug/L
39730	2,4-D, Total, ug/L	ug/L
39732	2, 4-D, Water, Dissolved, ug/L	ug/L
39740	2,4,5-T, Total, ug/L	ug/L
39742	2, 4, 5-T, Water, Dissolved, ug/L	ug/L
39755	Mirex, Total, ug/L	ug/L
39756	Mirex, Dissolved, ug/L	ug/L
39760	Silvex, Total, ug/L	ug/L
39762	Silvex, Water, Dissolved, ug/L	ug/L
39770	Dacthal (Dcpa), Total, ug/L	ug/L
39771	Dacthal (Dcpa), Dissolved, ug/L	ug/L
39782	Lindane, Total, ug/L	ug/L
39786	Total Trithion, ug/L	ug/L
39810	Chlordane-Gamma, Total, ug/L	ug/L
45106	Methyl Cyclopentanone In Water, ug/L	ug/L
45169	Methyl Pentanol In Water, ug/L	ug/L
45184	Hexanol In Water, ug/L	ug/L
45202	Methoxy Ethyl Benzene, Total, ug/L	ug/L
45277	Methyl Cyclopentanol In Water, ug/L	ug/L
45292	Methyl Furanone, Total, ug/L	ug/L
45430	Methyl Butenol, Total, ug/L	ug/L
45607	Tebuthiuron (Graslan, Spike), Total, ug/L	ug/L
46312	Diethyl Hexyl Phthalate, Total, ug/L	ug/L
46314	Dimethoate, Total, ug/L	ug/L
46315	Ethyl Parathion, Total, ug/L	ug/L
46323	Delta-Bhc, Total, ug/L	ug/L
46342	Alachlor (Lasso), Dissolved, ug/L	ug/L
46373	Deethylatrazine (G-30033), Whole Water, ug/L	ug/L
46374	Deisopropylatrazine (G-28279), Whole Water, ug/L	ug/L
46552	Calcium, Field Acidified W/Hno3, Filtered, mg/L	mg/L
46553	Lithium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
46554	Magnesium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
46555	Potassium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
46556	Sodium, Field Filtered, Acidified W/Hno3, mg/L	mg/L
46560	Chromium, Field Acidified W/Hno3, Filtered, ug/L	ug/L
46563	Iron, Field Filtered, Acidified W/Hno3, ug/L	ug/L
46564	Lead, Field Filtered, Acidified W/Hno3, ug/L	ug/L
46565	Manganese, Field Filtered, Acidified W/Hno3, ug/L	ug/L
46566	Silver, Field Filtered, Acidified W/Hno3, ug/L	ug/L
46570	Hardness, Ca mg Calculated (mg/L As CaCO3)	mg/L
48297	Strontium, Isotope of Mass 86 and 87 Ratio	N/A
49229	Methomyl, Water, Dissolved, ug/L	ug/L
49235	Triclopyr, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49236	Propham, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49260	Acetochlor, Water, Filtered Rec, ug/L	ug/L

Code	Long Description	Units
49291	Picloram, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49292	Oryzalin (Surflan), Water, .7 U Filt, Tot Rec,ug/L	ug/L
49293	Norflurazon, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49294	Neburon, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49295	1-Naphthol, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49296	Methomyl, Water Filtered, Gf O.7u, Rec	ug/L
49297	Fenuron, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49298	Esfenvalerate, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49299	Ocresol 4, 6-Dinitro, 7u Filt, Water, Tot Recv, ug/L	ug/L
49300	Diuron, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49301	Dinoseb, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49302	Dichlorprop, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49303	Dichlobenil, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49304	Dacthal Monoacid, Water, 0.7 Um Filt, Tot Rec,ug/L	ug/L
49305	Clopyralid, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49306	Chlorothalonil, Dissolved, ug/L	ug/L
49307	Amiben, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49308	3-Hydroxy Carbofuran, Water, .7u Filt, Tot Rec ug/L	ug/L
49309	Carbofuran, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49310	Carbaryl, Water, 0.7 Um Filt, Tot Recv, ug/L	ug/L
49311	Bromoxynil, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49312	Aldicarb, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49313	Aldicarb Sulfone, .7 U Filt, Tot Recv, Water, ug/L	ug/L
49314	Aldicarb Sulfoxide, Water, .7u Filt, Tot Rec,ug/L	ug/L
49315	Acifluorfen, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
49932	Delta Sulfur-34 On Sulfate, Diss.	PMIL
49991	Methyl Acrylate, Water Unfiltered, Rec	ug/L
49999	Prehnitene, Water, Unfiltered, Rec	ug/L
50000	Isodurene, Water, Unfiltered, Recover	ug/L
50001	Trans-1,2-Dichloroethylene, Total, ug/L	ug/L
50002	Trans-1,3-Dichloropropylene, Total, ug/L	ug/L
50003	Cis-1,3-Dichloropropylene, Total, ug/L	ug/L
50004	Ether Tertbutyl Ethyl, Unfiltered, Rec	ug/L
50005	Ether Tertpentyl Methyl, Unfiltered, Rec	ug/L
50577	Holmium, Dissolved (ug/L As Ho)	ug/L
50790	Delta Oxygen-18, Expressed As Permil Vsmow	0/00
50791	Delta Deuterium, Expressed As Permil Vsmow	0/00
50982	Oxygen-18/Oxygen-16 In Sulfate (Ratio Per Mil)	0/00
51002	2,6-Dinitro-2-Cresol, Total, ug/L	ug/L
51003	Butylbenzyl Phthalate, Total, ug/L	ug/L
51004	Dibenzo (A,H) Anthracene, Total, ug/L	ug/L
51005	4,4'-Dde, Total, ug/L	ug/L
51006	4,4'-Ddd, Total, ug/L	ug/L
51007	4,4'-Ddt, Total, ug/L	ug/L
51008	4,6-Dinitro-2-Cresol In Whole Water, (ug/L)	ug/L
60001	Pentane, Total, ug/L	ug/L
60002	Pentyl Cyclopropane, Total, ug/L	ug/L
60003	Methylethyl Phenol, Total, ug/L	ug/L
60004	Hydroxy-Dimethyl-Benzopyranone, Total, ug/L	ug/L

Code	Long Description	Units
60005	Dimethyl-Benzo-Dipyran-2-One, Total, ug/L	ug/L
60006	Cycloheptatriene, Total, ug/L	ug/L
60007	Ethenyl Benzene, Total, ug/L	ug/L
60008	Bi-Cyclo-Octa-Triene, Total, ug/L	ug/L
60009	Dichloro-Methyl-Butane, Total, ug/L	ug/L
60010	Dimethyl Hexene, Total, ug/L	ug/L
60012	2-Methyl Propane, Total, ug/L	ug/L
60013	2-Methyl Butane, Total, ug/L	ug/L
60014	(Hydroxyphenol) Methylethyl Phenol, Total, ug/L	ug/L
60015	Heptacosone, Total, ug/L	ug/L
60016	Methylbenzene, (Toluene) Total, ug/L	ug/L
60017	Butyl Piperidine, Total, ug/L	ug/L
60018	Ethyl Cyclobutanone, Total, ug/L	ug/L
60019	Dimethyl Pentene, Total, ug/L	ug/L
60020	Dihydro-Dimethylfuran, Total, ug/L	ug/L
60021	Chloroethylvinyl Ether, Total, ug/L	ug/L
60022	O-Chlorotoluene, Total, ug/L	ug/L
60023	P-Chlorotoluene, Total, ug/L	ug/L
60025	Triiodo Methane, Total, ug/L	ug/L
60026	N-Propyl Benzamide, Total, ug/L	ug/L
60027	Iodochloromethane, Total, ug/L	ug/L
60028	Diiodochloromethane, Total, ug/L	ug/L
60029	Cycloheptane, Total, ug/L	ug/L
60030	Dodecamethyl Cyclohexasilioxane, Total, ug/L	ug/L
60031	Hexadecane, Total, ug/L	ug/L
60032	Methyl Eicasane, Total, ug/L	ug/L
60033	Methyl Propylester Octadecanoic Acid, Total, ug/L	ug/L
60034	Ethylenedibromide (Edb), Total, ug/L	ug/L
60035	Hexachloropentadiene, Trotal, ug/L	ug/L
60036	3-Methyl-4-Chlorophenol In Whole Water, ug/L	ug/L
60037	4-Chloroaniline In Whole Water, ug/L	ug/L
60038	Total Nitroanalines In Whole Water, ug/L	ug/L
60039	2,3- Dichloro-2-Methyl-Butane In Whole Water, ug/L	ug/L
60040	3-Chloro-2-Butanol In Whole Water Sample, ug/L	ug/L
60041	Mtbe, Total, ug/L	ug/L
60042	Tetrachloromethane, Total, ug/L	ug/L
60043	Alpha Hch, Dissolved, ug/L	ug/L
70299	Solids, Suspended, Residue On Evap At 180c, mg/L	mg/L
70300	Residue, Total Filterable (Dried At 180c), mg/L	mg/L
70301	Solids, Dissolved, Sum of Constituents, mg/L	mg/L
70304	Solids, Total Dissolved-Conductivity Meter (mg/L)	mg/L
70507	Phosphorus, In Total Orthophosphate (mg/L As P)	mg/L
70978	Carboxin (Vitavax), Total, ug/L	ug/L
71814	Langelier Index of Water Corrosivity	CODE
71820	Density (Gm/Ml At 20c)	G/ML
71830	Hydroxide Ion (mg/L As Oh)	mg/L
71834	Hydroxide Dissolved In Water As Oh, Field (mg/L)	mg/L
71845	Nitrogen, Ammonia, Total (mg/L As Nh4)	mg/L
71850	Nitrate Nitrogen, Total (mg/L As No3)	mg/L

Code	Long Description	Units
71851	Nitrate Nitrogen, Dissolved (mg/L As No3)	mg/L
71855	Nitrite Nitrogen, Total (mg/L As No2)	mg/L
71860	Residual Sodium Carbonate	C
71865	Iodide (mg/L As I)	mg/L
71870	Bromide, Dissolved, (mg/L As Br)	mg/L
71875	Hydrogen Sulfide, mg/L	mg/L
71885	Iron (ug/L As Fe)	ug/L
71886	Phosphorus, Total As Po4 (mg/L)	mg/L
71887	Nitrogen, Total (mg/L As No3)	mg/L
71890	Mercury, Dissolved (ug/L As Hg)	ug/L
71900	Mercury, Total (ug/L As Hg)	ug/L
73071	Dichlorvos, Total, ug/L	ug/L
73457	2 Butene Trans-1 4-Dichloro, Unfiltered, Rec	ug/L
73511	Arsenic Acid, Total, ug/L	ug/L
73518	Benzenethiol, Total, ug/L	ug/L
73570	Methacrylate Ethyl, Water, Unfiltered, Rec	ug/L
74052	Chlorinated Hydrocarbons, General (Permit)	GEN
74056	Coliform, Total, General (Permit)	GEN
75038	Potassium 40, Total, pC/L	pC/L
75978	Ratio of Strontium87/Strontium86, Diss., Water	N/A
75980	De-Isopropylatrazine, Whole Water, Total, ug/L	ug/L
75981	De-Ethylatrazine, Whole Water, Total, ug/L	ug/L
75986	Gross Alpha, Dissolved (ug/L As U-Nat)	ug/L
76002	Rn-222 2 Sigma In Whole Water, Total, pCi/L	pC/L
76141	Methyl Isobutyl Ketone, Total, ug/L	ug/L
77041	Carbon Disulfide, Total, ug/L	ug/L
77045	Pyridine, Total, ug/L	ug/L
77052	Methylcyclopentane In Water, ug/L	ug/L
77057	Acetate Vinyl, Water, Unfiltered, Rec	ug/L
77089	Aniline In Whole Water, ug/L	ug/L
77093	Cis-1,2-Dichloroethylene, Total, ug/L	ug/L
77097	Cyclohexanone, Total, ug/L	ug/L
77100	Methylcyclohexane In Water, ug/L	ug/L
77103	2-Hexanone, Water Whole, Total	ug/L
77128	Styrene, Total, ug/L	ug/L
77135	O-Xylene, Total, ug/L	ug/L
77147	Benzyl Alcohol In Whole Water, ug/L	ug/L
77152	O-Cresol In Whole Water, ug/L	ug/L
77163	1,3-Dichloropropene, Total, ug/L	ug/L
77164	Resorcinal, Total, ug/L	ug/L
77168	1,1-Dichloropropene, Total, ug/L	ug/L
77170	2,2-Dichloropropane, Total, ug/L	ug/L
77173	1,3-Dichloropropane, Total, ug/L	ug/L
77182	2-Heptanone In Whole Water, ug/L	ug/L
77220	Toluene O-Methyl, Water, Unfiltered, Rec	ug/L
77221	Benzene 123-Tri Methyl, Water, Untltrd, Rec	ug/L
77222	Pseudocomene (1,2,4-Trimethylbenzene), Total, ug/L	ug/L
77223	Isopropylbenzene In Whole Water, Total, ug/L	ug/L
77224	N-Propylbenzene, Total, ug/L	ug/L

Code	Long Description	Units
77226	Mesitylene (1,3,5-Trimethylbenzene), Total, ug/L	ug/L
77247	Benzoic Acid In Whole Water, ug/L	ug/L
77275	O-Chlorotoluene In Whole Water, ug/L	ug/L
77277	P-Chlorotoluene, Water, Total Recoverable, ug/L	ug/L
77297	Bromochloromethane, In Whole Water, ug/L	ug/L
77342	N-Butylbenzene, Whole Water, ug/L	ug/L
77350	Sec Butylbenzene, Water, Total Recoverable, ug/L	ug/L
77353	Tert-Butylbenzene, Water, Total Recoverable, ug/L	ug/L
77356	P-Isopropyltoluene, Water, Total Recoverable, ug/L	ug/L
77416	2-Methylnaphthalene In Whole Water, ug/L	ug/L
77421	4-Chloro-3-Cresol, Total, ug/L	ug/L
77424	Iodomethane, Total, ug/L	ug/L
77443	1,2,3-Trichloropropane, Total, ug/L	ug/L
77545	Safrole, Total, ug/L	ug/L
77562	1,1,1,2-Tetrachloroethane, Total, ug/L	ug/L
77579	Diphenylamine, Total, ug/L	ug/L
77613	1,2,3-Trichlorobenzene In Whole Water, ug/L	ug/L
77651	1,2-Dibromoethane, Total, ug/L	ug/L
77652	Freon 113, Water, Total Recoverable, ug/L	ug/L
77687	2,4,5-Trichlorophenol In Whole Water, ug/L	ug/L
77700	Carbaryl (Sevin), Total, ug/L	ug/L
77734	1,2,4,5-Tetrachlorobenzene In Whole Water, ug/L	ug/L
77825	Alachlor, Total, ug/L	ug/L
77860	Butachlor, Total, ug/L	ug/L
77903	Bis(2-Ethylhexyl) Adipate In Whole Water, ug/L	ug/L
77966	Chlorophenol, Total, ug/L	ug/L
77970	Chlorotoluene, Total, ug/L	ug/L
78004	Diphenamid, Total, ug/L	ug/L
78013	Ethyl Hexanol In Water, ug/L	ug/L
78015	Ethyl Methyl Phenol In Water, ug/L	ug/L
78032	Tert-Butylmethylether, Total Recoverable, ug/L	ug/L
78033	Methoxy Phenol, Total, ug/L	ug/L
78064	Norflurazon, Total, ug/L	ug/L
78076	Phenyl Ethanone In Water, ug/L	ug/L
78109	Propene 3-Chloro, Water, Unfltrd, Rec	ug/L
78113	Ethylbenzene In Water, ug/L	ug/L
78115	Halogen, Total Organic, ug/L	ug/L
78124	Benzene, Volatile Analysis, Total, ug/L	ug/L
78131	Toluene, Volatile Analysis, Total, ug/L	ug/L
78132	P-Xylene, Total, ug/L	ug/L
78133	Methyl-Isobutyl Ketone, Whole Water, Total	ug/L
78168	Carbamates, ug/L	ug/L
78170	Trichlorobenzenes, Total, ug/L	ug/L
78200	N-Nitrosodiethylamine In Whole Water, ug/L	ug/L
78207	N-Nitrosodibutylamine In Whole Water, ug/L	ug/L
78248	Cyanide, Total, ug/L	ug/L
78383	Bromomethane, Total, ug/L	ug/L
78721	Phthalates, Total, mg/L	mg/L
78750	Dichloromethane, Total, ug/L	ug/L

Code	Long Description	Units
78756	Dibromomethane, Total, ug/L	ug/L
78884	Surflan (Oryzalin), Total, ug/L	ug/L
78885	Diquat Dibromide (Reglone), Total, ug/L	ug/L
78942	1-Chloro-2-Methylbenzene, Total, ug/L	ug/L
79132	Chloromethane, Total, ug/L	ug/L
79136	Fluorotrichloromethane, Total, ug/L	ug/L
79190	Pendimethalin, Total, ug/L	ug/L
79191	Ambush (Permethrin), Total, ug/L	ug/L
79192	Pebulate, Total, ug/L	ug/L
79193	Acifluorfen, Total, ug/L	ug/L
79197	Napropamide, Total, ug/L	ug/L
79743	Glyphosate, Total, ug/L	ug/L
79778	Cresol, M- & P-, Total (ug/L)	ug/L
80000	Alpha Activity, pC/mg	pC/mg
80001	Beta Activity, pC/mg	pC/mg
80002	Alpha and Beta Activity, Total, pC/L	pC/L
80020	Uranium, Dissolved By Extraction, ug/L	ug/L
80045	Alpha Gross Particle Activity, Total, pC/L	pC/L
80050	Gross Beta, Dissolved (pCi/L As Sr/Y-90)	pC/L
80060	Beta, Suspended Gross, As Sr-Y-90, pC/L	pC/L
80107	Sulfur, Total, mg/L	mg/L
81277	Purgeable Organic Carbon, ug/L	ug/L
81284	Trifluralin (Treflan), Total, ug/L	ug/L
81291	Phosalone, Total, ug/L	ug/L
81294	Dyfonate (Fonofos), Total, ug/L	ug/L
81295	Def (Tribufos), Total, ug/L	ug/L
81302	Dibenzofuran In Whole Water, ug/L	ug/L
81316	Pentachloronitrobenzene, Total, ug/L	ug/L
81322	Chlorpropham (Cipc), Total, ug/L	ug/L
81336	Hydrocarbon, Total, ug/L	ug/L
81366	Radium 228, Dissolved (pC/L As Ra-228)	pC/L
81397	Chlorinated Organic Compounds, mg/L	mg/L
81403	Dursban (Chloropyrifos), Total, ug/L	ug/L
81405	Carbofuran (Euradan), Total, ug/L	ug/L
81408	Metribuzin (Sencor, Lexone), Total, ug/L	ug/L
81410	Butylate (Sutan), Total, ug/L	ug/L
81522	Dibromoethane, Total, ug/L	ug/L
81524	Dichlorobenzene, Total, ug/L	ug/L
81551	Xylene, Total, ug/L	ug/L
81552	Acetone, Total, ug/L	ug/L
81555	Bromobenzene, Total, ug/L	ug/L
81570	Cyclohexane, Total, ug/L	ug/L
81575	Dichloroiodomethane, Total, ug/L	ug/L
81576	Ether Ethyl, Water Unfltrd, Recover	ug/L
81577	Di-Isopropylether, Water, Unfltrd, Rec	ug/L
81589	Heptene In Water, ug/L	ug/L
81593	Methacrylonitrate, Water, Unfltrd, Rec	ug/L
81595	Methyl Ethyl Ketone, Total, ug/L	ug/L
81597	Methyl Methacrylate, Total, ug/L	ug/L

Code	Long Description	Units
81607	Tetrahydrofuran, Total, ug/L	ug/L
81611	Trichlorotrifluoroethane, Total, ug/L	ug/L
81649	Pcb - 1262 (Araclor), Total, ug/L	ug/L
81651	Bisphenol, Total, ug/L	ug/L
81674	Octanoic Acid In Water, ug/L	ug/L
81679	Epiclorohydrin, Total, mg/L	mg/L
81708	Styrene, Total, mg/L	mg/L
81710	M-Xylene, Total, ug/L	ug/L
81757	Cyanazine, Total, ug/L	ug/L
81758	Ethoprop, Total, ug/L	ug/L
81815	Orthene, Total, ug/L	ug/L
81853	Trichloroethane In Water, ug/L	ug/L
81888	Disulfoton, Total, ug/L	ug/L
81890	Azodrin (Monocrotophos), Total, ug/L	ug/L
81892	Cyloate (Roneet), Total, ug/L	ug/L
81894	Eptc (Eptam), Total, ug/L	ug/L
82051	Amiben, Dissolved, ug/L	ug/L
82052	Banvel (Dicamba), Total, ug/L	ug/L
82068	Potassium 40 (K-40), Dissolved, pC/L	pC/L
82079	Turbidity, Lab, Nephelometric Turbidity Units, Ntu	NTU
82080	Trihalomethane Total By Summation, ug/L	ug/L
82081	Carbon-13 / Carbon-12 Stable Isotope Ratio Per Mil	0/00
82082	H-2 / H-1 Stable Isotope Ratio (Deuterium/Protium)	0/00
82083	Li-7/ Li-6 Stable Isotope (Ratio Per Mil)	0/00
82084	Nitrogen-15/Nitrogen-14 Stable Isotope Ratio/Mil	0/00
82085	O-18/ O-16 Stable Isotope (Ratio Per Mil)	0/00
82086	S-34/ S-32 Stable Isotope (Ratio Per Mil)	0/00
82087	Delta 13 Carbon, Pdb Standard	None
82088	Terbufos (Counter), Total, ug/L	ug/L
82105	Eicosane In Water, ug/L	ug/L
82172	Carbon 14 Percent Modern	%
82183	2,4-Dp, Total, ug/L	ug/L
82184	Ametryn, Total, ug/L	ug/L
82185	Atraton, Total, ug/L	ug/L
82197	Betasan (N-2-Mercaptoethyl Benzene Sulfmde) ug/L	ug/L
82198	Bromacil (Hyvar), Total, ug/L	ug/L
82205	Specific Gravity (Gm/L)	GM/L
82242	Acidity, Total As CaCO3 Field Data	mg/L
82244	Alkalinity Phenolphthalein Field Data (mg/L)	mg/L
82298	Bromide, Dissolved, (ug/L As Br)	ug/L
82303	Radon 222, Total, pC/L	pC/L
82305	Radon 222, Dissolved, pC/L	pC/L
82307	Cobalt 60, Dissolved, pC/L	
82316	Helium, Dissolved (ug/L As He)	ug/L
82334	Gold, Dissolved (ug/L As Au)	ug/L
82354	Endosulfan, Dissolved, ug/L	ug/L
82359	Propane, Dissolved, ug/L	ug/L
82362	Radon 222, Dissolved Gas In Water, pC/L	pC/L
82364	Thorium, Total In Water, ug/L	ug/L
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Code	Long Description	Units
82383	Aggressive Index = $Ph + Log(Ah)$	LOGA
82390	Free Acid, Total, mg/L	mg/L
82410	Penoxalin (Prowl), Total, ug/L	ug/L
82416	Paraquat, Total, ug/L	ug/L
82418	Cis Permethrin, Total, ug/L	ug/L
82420	Trans-Permethrin, Total, ug/L	ug/L
82512	M-Dichlorobenzene, Total, ug/L	ug/L
82584	3-Hydroxy Carbofuran,In Water, ug/L	ug/L
82586	Aldicarb Sulfoxide, Total, ug/L	ug/L
82587	Aldicarb Sulfone, Total, ug/L	ug/L
82611	Metribuzin, Whole Water, Total Recoverable, ug/L	ug/L
82612	Metolachlor, Whole Water, Total Recoverable, ug/L	ug/L
82614	Fonofos (Dyfonate), Whole Water, Total Recov. ug/L	ug/L
82624	Endosulfan Ii, Total, ug/L	ug/L
82625	Dibromochloropropane, Water, Total Recoverable, ug/L	ug/L
82630	Metribuzin (Sencor), Water, Dissolved, ug/L	ug/L
82637	1-Chloro-4-Methylbenzene, Total, ug/L	ug/L
82660	2, 6-Diethylaniline, Water, Filtered, ug/L	ug/L
82661	Trifluralin (Treflan), 0.7u Filt, Tot Rec, Wtr, ug/L	ug/L
82662	Dimethoate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82663	Ethalfluralin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82664	Phorate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82665	Terbacil, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82666	Linuron, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82667	Methylparathion, 0.7 Um Filt, Tot Recv, Water,ug/L	ug/L
82668	Eptc, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82669	Pebulate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82670	Tebuthiuron, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82671	Molinate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82672	Ethoprop, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82673	Benfluralin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82674	Carbofuran, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82675	Terbufos, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82676	Pronamide, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82677	Disulfoton, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82678	Triallate, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82679	Propanil, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82680	Carbaryl, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82681	Thiobencarb, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82682	Dcpa, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82683	Pendimethalin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82684	Napropamide, 0.7 Um Filter, Tot Recv, Water, ug/L	ug/L
82685	Propargite, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82686	Methylazinphos, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
82687	Cis-Permethrin, 0.7 Um Filt, Tot Recv, Water, ug/L	ug/L
85795	Meta/Paraxylene, Water, Unfltrd, Rec	ug/L
99100	Herbicides, Chlor. Acid Phenoxy, Dissolved, ug/L	ug/L
99200	Insecticides, Dissolved, ug/L	ug/L
99300	Oxygen, Dissolved (mg/L) Photometer	mg/L

Code	Long Description	Units
99301	Nitrogen, Ammonia, Dissolved (mg/L) Photometer	mg/L
99302	Iron, Dissolved (ug/L) Photometer	ug/L
99303	Iron, Ferrous, Dissolved (ug/L) Photometer	ug/L
99304	Phosphate, Dissolved (mg/L) Color Comparison	mg/L