Monitoring Sites

The following is a list of headings that may be used to identify and describe each abbreviated column heading and its contents.
1. SEG - This column is used to identify the river segment in which a station is located.

The segments are described as follows:

Segments in the Rio Grande Basin		
Lower Rio Grande Basin		
Segment	**Name**	**Description**
2301	Rio Grande Tidal	From the confluence with the Gulf of Mexico in Cameron County to a point 6.7 mi (10.8 km) downstream of the International Bridge in Cameron County
2302	Rio Grande below Falcon Reservoir	From a point 6.7 mi (10.8 km) downstream of the International Bridge in Cameron County to Falcon Dam in Starr County
Middle Rio Grande Basin		
Segment	**Name**	**Description**
2303	International Falcon Reservoir	From Falcon Dam in Starr County to the confluence of the Arroyo Salado (Mexico) in Zapata County, up to the normal pool elevation of 301.1 feet (impounds Rio Grande)
2304	Rio Grande below Amistad Reservoir	From the confluence or the Arroyo Salado (Mexico) in Zapata County to Amistad Dam in Val Verde County
2313	Tributary - San Felipe Creek	From the confluence with the Rio Grande in Val Verde County to a point 4.0 km (2.5 mi) upstream of US 90 in Val Verde County
Upper Rio Grande Basin		
Segment	**Name**	**Description**
2305	International Amistad Reservoir	From Amistad Dam in Val Verd County to a point 1.8 km (1.1 mi) downstream of the confluence of Ramsey Canyon on the Rio Grande Arm in Val Verde County and to a point 0.7 km (0.4 mi) downstream of the confluence of Painted Canyon on the Pecos River Arm in Val Verde County and to a point 0.6 km (0.4 mi) downstream of the confluence of Little Satan Creek on the Devil's River Arm in Val Verde County, up to the normal pool elevation of 1117 feet (impounds Rio Grande)
2306	Rio Grande above Amistad Reservoir	From a point 1.8 km downstream of the confluence of Ramsey Canyon in Val Verde County to the confluence of the Rio Conches (Mexico) in Presidio County
2307	Rio Grande below Riverside Diversion Dam	From the confluence of the Rio Conches (Mexico) in Presidio county to Riverside Diversion Dam in El Paso County
2308	Rio Grande below International Dam	From the Riverside Diversion Dam in El Paso County to International Dam in El Paso County
2309	Tributary - Devil's River	From a point 0.6 km (0.4 mi) downstream of the confluence of Little Satan Creek in Val Verde County to the confluence of Dry Devils River in Sutton County
2310	Tributary - Lower Pecos River	From a point 0.7 km (0.4 mi) downstream of the confluence of Painted Canyon in Val Verde County to the low water crossing 0.3 km (0.2 mi) downstream of the confluence of Big Fielder Draw in Val Verde County

2311	Tributary - Upper Pecos River	From the low water crossing 0.3 km (0.2 mi) downstream of the confluence of big Fielder Draw in Val Verde County to Red Bluff Dam in Loving/Reeves County
2312	Tributary - Red Bluff Reservoir	From Red Bluff Dam in Loving/Reeves County to the New Mexico state line in Loving/Reeves County, up to the normal pool elevation of 2842 feet (impounds Pecos River)
2314	Rio Grande above International Dam	From International Dam in El Paso County to the New Mexico State line in El Paso County

2. REGION - This column is used to identify the TNRCC regional office in which the stations are located, and the TNRCC regional office conducting the water quality monitoring.

The TNRCC regional offices are identified as follows:

Region #	**Regional Director**	**Location**	**Address**
Region 6	Frank Espino	El Paso	7500 Viscount Blvd., Ste 147 El Paso, TX 79925-5633 (915) 778-9634
Region 7	Jed Barker	Midland	3300 North A St., Bldg 4, Ste. 107 Midland, TX 79705-5404 (915) 570-1359
Region 13	Richard Garcia	San Antonio	140 Heimer Rd., STE. 360 San Antonio, TX 78232-5042
Region 15	Tony Franco	Harlingen	1804 West Jefferson Ave. Harlingen, TX 78550-5247

3. STATION DESCRIPTION - This column is used to describe the monitoring station locations.

4. STAT ID - The station ID is a unique TNRCC assigned number used to numerically identify the particular monitoring station.

5. START DATE/END DATE - These columns are used to identify the beginning and ending dates for which the designated sampling will take place.

6. SC1/SC2 - This column is used to identify the source codes which represent the entities responsible for the sampling. Source Code 1 (SC1) identifies the entity responsible for the sampling, and Source Code 2 (SC2) identifies the entity actually conducting the sampling at each station.

The following table contains a description of each abbreviation:

Source Code 1 (SC1)	**Entity**
GS	United States Geological Survey
IB	U.S. International Boundary and Water Commission
WC	Texas Natural Resource Conservation Commission
Source Code 2 (SC2)	Entity
BB	Big Bend National Park
BN	City of Brownsville
DR	City of Del Rio
FO	TNRCC Regional Office

GS	United States Geological Survey
IB	U.S. International Boundary and Water Commission
LA	City of Laredo
LE	City of Laredo Environmental Engineering Division
RN	Rio Grande International Study Center
UE	University of Texas at El Paso, Biological Sciences Department
UP	Upper Pecos Soil and Water Conservation District
ZP	Zapata County

7. MON TYPE - This code describes the type of water quality monitoring that will be conducted at a particular station.

The following table describes the program type for the Rio Grande:

Program Code	Description
IS	Intensive/Systematic (subwatershed monitoring on a cyclical basis)
RT	Routine Water Sampling/Baseline (Long-term monitoring)
SS	Special Study (for monitoring scheduled as part of an approved special study)

8. METALS WATER - The number of metals in water samples to be collected for determining compliance with water quality standards to protect aquatic life scheduled within the given sampling period. Parameters to be analyzed for are: Dissolved Aluminum (01106); Diss. Arsenic (01000); Diss. Cadmium (01025); Diss. Chromium (01030); Diss. Copper (01040); Diss. Lead (01049); Diss. Nickel (01065); Diss. Silver (01075); Diss. Zinc (01090); Diss. Calcium (00915); Diss. Magnesium (00925); Total Selenium (01147); and Total Hardness (00900).

14. ORG WATER - The number of organics in water samples to be collected within the given sampling period.

15. METALS SED - The number of metals in sediment samples to be collected within the given sampling period. Parameters to be analyzed for are: Aluminum (01108); Arsenic (01003); Barium (01008); Cadmium (01028); Chromium (01029); Copper (01043); Lead (01052); Manganese (01053); Mercury (71921); Nickel (01068); Selenium (01148); Silver (01078); and Zinc (01093). All totals.

16. ORG SED - The number of organics in sediment samples to be collected within the given sampling period.

17. CONV - The number of conventional chemical water samples to be collected within the given sampling period. Conventional parameters to be analyzed are: Total Alkalinity (00410); Chloride (00940); TDS, total dissolved solids (70300 or 70294); TOC, Total Organic Carbon (00680); TSS, total non-filterable residue (00530); VSS, volatile non-filterable residue (00535); Total Nitrite plus Nitrate (00630); Sulfate (00945); Diss. Ortho-Phosphorus (00671); Chlorophyll-A (32211); Total Ammonia-Nitrogen (00610); Total Phosphorus (00665); and Total Kjeldahl Nitrogen (00625). Conventional parameters may vary among CRP Cooperators due to minor differences in monitoring program objectives.

18. AMB TOX WAT - The number of ambient toxicity in water samples to be collected within the given sampling period.

19. AMB TOX SED - The number of ambient toxicity in sediment samples to be collected within the given sampling period.

20. BACT - The number of fecal coliform (31616) and/or E. coli bacteria (31648) samples to be collected within the given sampling period.

21. INST FLOW - The number of instantaneous flow measurements to be taken within the given sampling period.

22. FISH TISSUE - The number of fish tissue sampling events scheduled within the given sampling period. Minimum parameters to be collected are: Fish species (74990); Anatomical part (74995); Number of individuals in composite tissue sample (81614); Number of species in composite tissue sample (81615); Sample length (00024); Sample weight (00023): and Sex (84100).

23. FIELD - The number of field measurements scheduled within the given sampling period.
Minimum parameters to be collected are: Temperature (00010); PH (00400); Dissolved oxygen (00300); Specific conductance (00094); Secchi disc transparency (00078); Days since last precipitation event (72053); Flow severity (01351); Instantaneous flow (00061); Flow method (89835); Flow method (89835); Fecal coliform (31616); and/or E. coli (31648); Weather (89966); Wind intensity (89965); and Wind direction (89010). Field parameters may vary due to differences in monitoring program objectives among CRP Cooperators.

Critical vs. non-critical measurements
All data taken for CRP and entered into the State of Texas Statewide Database are considered critical.