

**TAB\_QAQC**

FIELD	DESCRIPTION	TYPE (FORMAT)	LENGTH (BYTES)
EVENT_ID		Number (Long Integer)	
CRUISE	CBP cruise ID	Text	10
SOURCE (PK, FK)	Code identifying agency/contractor that generated the data	Text	10
AGENCY	Code identifying agency responsible for submitting/serving the data	Text	10
PROGRAM	Agency monitoring program code	Text	10
PROJECT (PK, FK)	Code identifying the project under which the monitoring was conducted (MAIN,TRIB)	Text	10
STATION (PK, FK)	Monitoring station name	Text	15
SAMPLE_DATE_TIME (PK)	Date and time the sample was collected	Date/Time (MM/DD/YYYY, HH:MM:SS, AM/PM)	
DEPTH (PK)	Depth at which the sample was collected	Number (Single)	5,1 (4)
<b>SAMPLE_REPLICATE_TYPE (PK, FK)</b>	Code identifying the sample description and number (e.g. FS1=first subsample of field split sample)	Text	7
LAYER (PK, FK)	Code identifying water column layer at which sample was collected	Text	2
PARAMETER (PK, FK)	Code identifying parameter name	Text	10
QUALIFIER (FK)	Code identifying a reported value outside the method detection limit	Text	5
REPORTED_VALUE	The reported value of the parameter	Number (Single)	12,4 (4)
UNIT (FK)	Unit of measurement for the reported value of the parameter	Text	10
<b>SPKCONC</b>	The concentration of the spike that was added to the background sample	Number (Single)	12,4 (4)
<b>REPS_STDDEV</b>	The number of replicates used to calculate the standard deviation	Number (Single)	2
<b>PERCENT_REC</b>	Percent recovery	Number (Single)	12,3 (4)
<b>STDDEV</b>	Standard deviation	Number (Single)	12,4 (4)
<b>SAMP_SPK</b>	The measured value of the mixture of the spike with the background sample	Number (Single)	12,4 (4)
PROBLEM (FK)	Problem code associated with parameter value	Text	2
LAB (FK)	Laboratory code where analysis was performed	Text	15
METHOD (FK)	Method code identifying field/laboratory test procedure	Text	7
DETAILS	Details related to this sample record	Memo	No limit
D_FLAG			
ADDED	Date and time added to database	Date/Time (MM/DD/YYYY, H:MM:SS, AM/PM)	
SAMPLE_DATE (PK)	Date on which the PAR readings were taken	Date/Time (MM/DD/YYYY)	8
SAMPLE_TIME (PK)	Time at which the PAR readings were taken	Date/Time (HH24:MM)	8

**TAB\_SAMPLE\_REPLICATE\_TYPE**

SAMPLE_REPLICATE_TYPE	DESCRIPTION
FS_AVG	AVERAGE OF TWO FIELD SPLIT SUBSAMPLE VALUES
FS1	FIELD SPLIT SUBSAMPLE 1
FS1/LAV	LABORATORY AVERAGE FOR FIELD SPLIT ONE
FS1/LS1	FIELD SPLIT SUBSAMPLE 1/LAB SPLIT SUBSAMPLE 1
FS1/LS2	FIELD SPLIT SUBSAMPLE 1/LAB SPLIT SUBSAMPLE 2
FS1/LS3	FIELD SPLIT SUBSAMPLE 1/LAB SPLIT SUBSAMPLE 3
FS1_AVG	AVERAGE OF LAB SPLITS GENERATED FROM FIELD SPLIT SUBSAMPLE 1
FS2	FIELD SPLIT SUBSAMPLE 2
FS2/LAV	LABORATORY AVERAGE FOR FIELD SPLIT TWO
FS2/LS1	FIELD SPLIT SUBSAMPLE 2/LAB SPLIT SUBSAMPLE 1
FS2/LS2	FIELD SPLIT SUBSAMPLE 2/LAB SPLIT SUBSAMPLE 2
FS2/LS3	FIELD SPLIT SUBSMAPLE 2/LAB SPLIT SUBSAMPLE 3
FS2_AVG	AVERAGE OF LAB SPLITS GENERATED FROM FIELD SPLIT SUBSAMPLE 2
FS3	FIELD SPLIT SUBSAMPLE 3
FS4	FIELD SPLIT SUBSAMPLE 4
LS1	LAB SPLIT SUBSAMPLE 1
LS2	LAB SPLIT SUBSAMPLE 2
LS3	LAB SPLIT SUBSAMPLE 3
M1	FIELD MEASUREMENT 1
M2	FIELD MEASUREMENT 2
M3	FIELD MEASUREMENT 3
S1	SAMPLE 1
S1/LS1	SAMPLE 1/LAB SPLIT SUBSAMPLE 1
S1/LS2	SAMPLE 1/LAB SPLIT SUBSAMPLE 2
S1/LS3	SAMPLE 1/LAB SPLIT SUBSAMPLE 3
S2	SAMPLE 2
S2/LS1	SAMPLE 2/LAB SPLIT SUBSAMPLE 1
S2/LS2	SAMPLE 2/LAB SPLIT SUBSAMPLE 2
S2/LS3	SAMPLE 2/LAB SPLIT SUBSAMPLE 3
S3	SAMPLE 3
SPK1	SPIKE SAMPLE SUBSAMPLE 1
SPK2	SPIKE SAMPLE SUBSAMPLE 2

## DUQUAT QA/QC CHECKS

QAQC	Record(s) are not associated with WQ_EVENT records.	FATAL
QAQC	Record(s) contain an CRUISE that is not in the dataset or the database	FATAL
QAQC	Record(s) contain duplicate key fields.	FATAL
QAQC	Record(s) contain key fields already in the water quality database.	FATAL
QAQC	Record(s) contain negetive or null depths.	FATAL
QAQC	Record(s) contain null sample date times.	FATAL
QAQC	Record(s) contain undefined lab codes.	FATAL
QAQC	Record(s) contain undefined or null agency codes.	FATAL
QAQC	Record(s) contain undefined or null layer codes.	FATAL
QAQC	Record(s) contain undefined or null method codes.	FATAL
QAQC	Record(s) contain undefined or null parameter codes.	FATAL
QAQC	Record(s) contain undefined or null program codes.	FATAL
QAQC	Record(s) contain undefined or null project codes.	FATAL
QAQC	Record(s) contain undefined or null sample replicate type codes.	FATAL
QAQC	Record(s) contain undefined or null source codes.	FATAL
QAQC	Record(s) contain undefined or null station codes.	FATAL
QAQC	Record(s) contain undefined or null unit codes.	FATAL
QAQC	Record(s) contain undefined problem codes.	FATAL
QAQC	Record(s) contain undefined qualifier codes.	FATAL