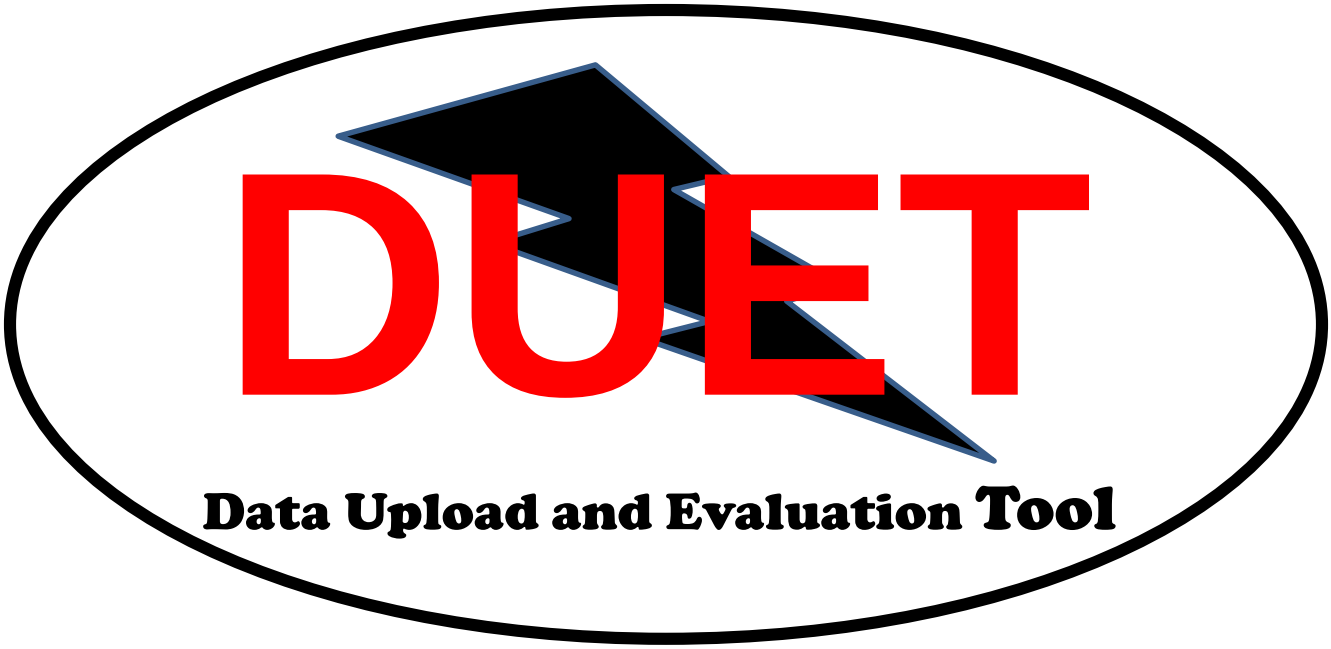

Tidal, Nontidal and Volunteer Monitoring
(Non-Traditional Partners)

Data Submittal
Lookup Tables
(WQ_DATA & WQ_EVENT)

Version 3.1
28 March 2016
Mike Mallonee

WQ_DATA (WQ_DATA_BMDL same) Lookup Table Fields

- PROJECT (required)
- SOURCE (required)
- LAYER (required)
- SAMPLE_TYPE (required)
- SAMPLE_ID (required)
- PARAMETER (required)
- QUALIFIER (optional, as needed)
- UNITS (required)
- METHOD (required)
- LAB (optional, as needed)
- PROBLEM (optional, as needed)
- BIAS_PC (optional, as needed)
- PRECISION_PC (DUET assigns)

WQ_EVENT
Lookup Table Fields

- CRUISE (required)
- SOURCE (required)
- AGENCY (required)
- PROGRAM (required)
- PROJECT (required)
- EVENT_TYPE (optional, as needed)
- EVENT_REMARK (optional, as needed)
- WIND SPEED (optional)
- WIND DIRECTION (optional)
- PRECIP TYPE (optional)
- CLOUD COVER (optional)

AGENCY Lookup Table

AGENCY	DESCRIPTION
CBI	CHESAPEAKE BAY INSTITUTE; JOHNS HOPKINS UNIVERSITY
DCDOH	DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH
DEDNREC	DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
ICPRB	INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN
IHDNSWC	INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER
MDDNR	MARYLAND DEPARTMENT OF NATURAL RESOURCES
MDE	MARYLAND DEPARTMENT OF THE ENVIRONMENT
PADEP	PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMCM	ST MARY'S COLLEGE OF MARYLAND
SRBC	SUSQUEHANNA RIVER BASIN COMMISSION
USGSWV	USGS WEST VIRGINIA WATER SCIENCE CENTER
VADEQ	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

CLOUD_COVER Lookup Table

CLOUD_COVER	DESCRIPTION
0	CLEAR (0-10%)
1	SCATTERED TO PARTLY CLOUDY (10-50%)
2	PARTLY TO BROKEN (50-90%)
3	OVERCAST (>90%)
4	FOGGY
5	HAZY
6	CLOUD (NO PERCENTAGE)

EVENT_REMARK Lookup Table

EVENT_REMARK_ID	EVENT_REMARK	DESCRIPTION
1	NF	Normal flow sampling location used given conditions at sampling site
2	LF	Low flow sampling location used given conditions at normal sampling site
3	HF	High flow sampling location used given conditions at normal sampling site
4	AL	Alternate sampling location used given inaccessibility to normal sampling site

NOTE: Not used for tidal data submittals.

EVENT_TYPE Lookup Table

EVENT_TYPE_ID	EVENT_TYPE	DESCRIPTION
1	R	Routine monthly fixed interval sample
2	RSI	Routine Storm Impacted monthly fixed interval sample
3	S	Storm sample
4	ONS	Other, not storm sample
5	OS	Other storm sample

NOTE: Not used for tidal data submittals.

LAB Lookup Table

LAB	DESCRIPTION
ALS	ALS ENVIRONMENTAL – ROCHESTER, NY LABORATORY
ALS-MIDDLETOWN	ALS ENVIRONMENTAL – MIDDLETOWN, PA LABORATORY
AMRL	OLD DOMINION UNIVERSITY APPLIED MARINE RESEARCH LABORATORY (THIS LAB BECAME THE ODU LAB IN MAY, 2000)
BPFL	BLUE PLAINS FIELD LABORATORY
CBL	UNIVERSITY OF MARYLAND CHESAPEAKE BIOLOGICAL LABORATORY
CRL	USEPA-CENTRAL REGIONAL LABORATORY (moved to FT Meade 1999)
DEDNREC	DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
MDHMH	MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE
MDHMH-WM	MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE-WESTERN MARYLAND LAB
NYDEC	COLUMBIA ANALYTICAL SERVICES (WILL BE UPDATED TO ALS)
ODU	OLD DOMINION UNIVERSITY LABORATORY
OWML	OCCOQUAN WATERSHED MONITORING LABORATORY
PADEP	PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION LAB
SMRP	ST MARY'S RIVER PROJECT
SRBC	SUSQUEHANNA RIVER BASIN COMMISSION LAB
UMCES-AL	UNIVERSITY OF MARYLAND APPALACHIAN LABORATORY
USGS-KDSL	UNITED STATES GEOLOGICAL SURVEY KENTUCKY DISTRICT SEDIMENT LABORATORY
USGS-NWQL	UNITED STATES GEOLOGICAL SURVEY NATIONAL WATER QUALITY LABORATORY
VADCLS	VIRGINIA DIVISION OF CONSOLIDATED LABORATORY SERVICES
VCU	VIRGINIA COMMONWEALTH UNIVERSITY
VIMS	VIRGINIA INSTITUTE OF MARINE SCIENCE

LAYER Lookup Table

LAYER_ID	LAYER	DESCRIPTION
1	AB	FIXED ABOVE BOTTOM
2	AP	ABOVE PYCNOCLINE
3	B	BOTTOM-MEASURED FROM SURFACE of water
4	BP	BELOW PYCNOCLINE
5	BS	SAMPLE TAKEN BELOW SURFACE-for CMON/DFLO only
6	I	Vertical portion of stream depth is represented in 1 (Avg) sample. Sampler fills down then up to surface.
7	M	MID-DEPTH
8	M1	MIDDLE 1/3 OF TOTAL STATION DEPTH
9	M2	MIDDLE 2/3 OF TOTAL STATION DEPTH
10	S	SURFACE-measure from surface to the sampling depth
11	VP	Vertical Profile-measurements taken at fixed depths by meter. Separate measurements taken. SWM program.
12	VH	Vert/Horiz portion of stream is represented in 1 average sample. NTN program.

METHOD Lookup Table

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
4	AS	L01	206.2	TOTAL ARSENIC ATOMIC ABSORPTION FURNACE TECHNIQUE
5	BATT	NA		BATTERY VOLTAGE
6	BIOSI	L01		PARTICULATE BIOGENIC SILICA
7	BOAT_SPEED	NA		BOAT_SPEED IN KNOTS
8	BOD20F	L01		20 DAY BOD; FILTERED
9	BOD20W	L01		20 DAY BOD; UNFILTERED
10	BOD5F	L01	405.1	5-DAY BIOCHEMICAL OXYGEN DEMAND; FILTERED
11	BOD5W	L01	405.1	5-DAY BIOCHEMICAL OXYGEN DEMAND; UNFILTERED
12	CA	L01	215.1	TOTAL CALCIUM
13	CAF	L01		CALCIUM; WF; DIRECT AAS
14	CAF	L02		METALS; WF; ICP-AES
15	CAF	L03	200.6	METALS
16	CD	L01	200.7	TOTAL CADMIUM; ATOMIC EMISSION SPECTROMETRIC
17	CDOM_440	L01		DISSOLVED ORGANIC MATTER ABSORPTION COEFFICIENT (GELBSTOFF)
18	CDOM_SLOPE	L01		SLOPE OF CDOM ABSORPTION COEFFICIENT SPECTRUM (400 TO 500 NM)
19	CHL_A	L01	446.0	TRICHROMATIC CHLOROPHYLL A
20	CHL_B	L01	446.0	TRICHROMATIC CHLOROPHYLL B
21	CHL_C	L01	446.0	TRICHROMATIC CHLOROPHYLL C
22	CHLA	F01		FLUOROMETIC CHLOROPHYLL USING PROBE
23	CHLA	L01	446.0	MONOCHROMATIC; SPECTROPHOTOMETRIC
24	CHLA	L02		MONOCHROMATIC; SPECTROPHOTOMETRIC
25	CHLA	L03	445.0	FLUOROMETRIC; IN-VITRO CHLOROPHYLL A
26	CLF	L02	300.6	ION CHROMATOGRAPHY
27	CLW	L01	325.3	TITRIMETRIC; MERCURIC NITRATE
28	CLW	L02	300	ION CHROMATOGRAPHY
29	CLW	L03	325.2	AUTOMATED COLORIMETRY

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
30	COD	L01	410.1	TITRIMETRIC; MID-LEVEL
31	COD	L02	410.3	TITRIMETRIC; HIGH LEVEL FOR SALINE WATERS
32	COD	L03	410.4	COLORIMETRIC; AUTOMATED OR MANUAL
34	CR	L01	200.7	TOTAL CHROMIUM; ATOMIC EMISSION SPECTROMETRIC
35	CU	L01	200.7	TOTAL COPPER; ATOMIC EMISSION SPECTROMETRIC
48	DO	F01	360.1	IN-SITU MEMBRANE ELECTRODE
49	DO	F02	360.1	DISSOLVED OXYGEN
50	DO	F03	360.2	DISSOLVED OXYGEN; MODIFIED WINKLER
51	DO	F04		IN-SITU DISSOLVED OXYGEN; OPTICAL DO PROBE
54	DO_SAT_P	F01		DO RELATIVE TO THEORETICAL VALUE AT SATURATION (%)
56	DOC	L01		COMBUSTION INFRARED METHOD
57	DOC	L02		WET OXIDATION METHOD
58	DOC	L03		UV OR HEATED PERSULFATE OXIDATION
59	DOC	L04		DOC; 0.45U SILVER; PERSULFATE IR
75	DON	L01		UNDOCUMENTED USGS METHOD
88	EPAR_S	F01		EPAR AT SURFACE
89	EPARD_Z	F01		IN-SITU; SENSOR DOWN; UPWELLING PAR
90	EPARU_Z	F01		IN-SITU; SENSOR UP; DOWNWELLING PAR
91	FCOLI_C	L02		FECAL COLIFORM MEMBRANE FILTER; M-FC MEDIUM
92	FCOLI_M	L01		FECAL COLIFORM - EC MEDIUM; MPN
93	FCOLI_M	L03		DIRECT TEST; A-1 MEDIUM
94	FE_M	L01		TOTAL IRON; PHENANTHROLINE METHOD
95	FE_M	L02		ATOMIC EMISSION SPECTROMETRIC
96	FE_U	L02	200.7	TOTAL IRON; ATOMIC EMISSION SPECTROMETRIC
97	FE_U	L03	200.7	METALS; WF; ICP-AES; USGS METHODOLOGY

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
98	FLOW_AVG	F01		STREAMFLOW; MEAN DAILY
99	FLOW_INS	F01		STREAMFLOW; INSTANTANEOUS
419	FLUOR	NA		MARYLAND DNR FLUORESCENCE METHOD
101	FLUORESCENCE	NA		FLUORESCENCE
102	FS	L01	160.4	FIXED SOLIDS
108	FSS	L01	160.4	FIXED SUSPENDED SOLIDS
110	GAGE_HEIGHT	F01		FLOW GAGE HEIGHT; MEASURED IN THE FIELD
111	HARDNESS	L01	130.2	TITRIMETRIC; EDTA
112	HARDNESS	L02	130.1	COLORIMETRIC; AUTOMATED EDTA
113	HG	L01	245.2	TOTAL MERCURY; AUTOMATED COLD VAPOR TECHNIQUE
114	IBOD5F	L01		CARBONACEOUS BOD5; INHIBITED; FILTERED
115	IBOD5W	L01		CARBONACEOUS BOD5; INHIBITED; UNFILTERED
117	KD	F01		LIGHT ATTENUATION
118	KF	L01		POTASSIUM; WF; DIRECT AAS
422	MEASURED_DEPTH	NA		SHALLOW WATER MEASURED DEPTH METHOD
119	MGF	L01	242.1	MAGNESIUM
120	MGF	L02	200.6	METALS
123	NH4F	L01	350.1	COLORIMETRIC; AUTOMATED PHENATE (INDOPHENOL)
124	NH4F	L02		COLORIMETRIC; AUTO SALICYLATE-HYPOCHLORITE
125	NH4F	L03		UNSPECIFIED USGS LAB METHOD 1
126	NH4F	L04		UNSPECIFIED USGS LAB METHOD 2
127	NH4W	L01	350.1	COLORIMETRIC; AUTOMATED PHENATE (INDOPHENOL)
128	NH4W	L02		UNSPECIFIED USGS LAB METHOD 1
129	NH4W	L03		UNSPECIFIED USGS LAB METHOD 2
131	NO23F	C01A		CALCULATED BY ADDITION AT REGION VADEQ/NRO
136	NO23F	L01	353.2, 353.4	COLORIMETRIC; AUTOMATED CADMIUM REDUCTION
137	NO23F	L02	353.3	SPECTROPHOTOMETRIC; MANUAL CADMIUM REDUCTION
138	NO23F	L03	None	ENZYMATIC NITRATE METHOD

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
143	NO23W	L01	353.2	COLORIMETRIC; AUTOMATED CADMIUM REDUCTION
144	NO23W	L02	353.3	MANUAL; SPECTROPHOTOMETRIC; CADMIUM REDUCTION
146	NO2F	L01	353.2, 353.4	AUTOMATED; COLORIMETRIC; DIAZOTIZATION
147	NO2F	L02	354.1	MANUAL; SPECTROPHOTOMETRIC; DIAZOTIZATION
148	NO2F	L03	300	ION CHROMATOGRAPHY
149	NO2F	L04		NUTRIENTS; WF; COLORIMETRIC USGS METHODOLOGY
150	NO2W	L01	353.2	AUTOMATED; COLORIMETRIC; DIAZOTIZATION
151	NO2W	L02	354.1	MANUAL; SPECTROPHOTOMETRIC; DIAZOTIZATION
153	NO3F	C01		CALCULATED NO3F (SUBMITTED TO CBPO)
159	NO3F	L01	300.0	DISSOLVED NITRATE BY ION CHROMATOGRAPHY
167	NO3W	L01	300.0	TOTAL NITRATE BY ION CHROMATOGRAPHY
168	ORP	F01		OXIDATION REDUCTION POTENTIAL
169	PB	L01	239.2	TOTAL LEAD; ATOMIC ABSORPTION; FURNACE TECHNIQUE
170	PC	L01	440.0	PARTICULATE CARBON (INORGANIC & ORGANIC)
171	PH	F01	150.1	IN-SITU ELECTRODE METHOD
172	PH	F02	150.1	ELECTRODE METHOD
174	PH	L01	150.6	PH OF WET DEPOSITION; ELECTROLYTE DETERMINATION
175	PH	L02		LAB PH; AUTO GLASS ELECTRODE
176	PHEO	L01	446.0	MONOCHROMATIC; SPECTROPHOTOMETRIC
177	PHEO	L02		MONOCHROMATIC; SPECTROPHOTOMETRIC
178	PHEO	L03	445.0	MONOCHROMATIC; FLUOROMETRIC
179	PIC	L01	440.0	PARTICULATE INORGANIC CARBON
180	PIP	L01		PARTICULATE INORGANIC PHOSPHORUS

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
186	PN	L01	440.0	PARTICULATE NITROGEN
188	PO4F	L01	365.1, 365.5	ORTHOPHOSPHATE; AUTOMATED; ASCORBIC ACID
189	PO4F	L02	365.2	ORTHO-P; MANUAL; ASCORBIC ACID; SINGLE REAGENT
190	PO4F	L03	365.3	ORTHOPHOSPHATE MANUAL; ASCORBIC ACID; TWO REAGENT
191	PO4W	L01	365.1, 365.5	ORTHOPHOSPHATE; AUTOMATED; ASCORBIC ACID
205	PC	L02		POC; 0.45U; WET OXIDATION
218	PP	L01		PARTICULATE PHOSPHORUS; SEMI-AUTOMATED; DIRECT
220	SALINITY	F01		IN-SITU MEASUREMENT WITH PROBE
221	SALINITY	F02		CALCULATED FROM SPCOND
222	SALINITY	F03		CALCULATED FROM SPCOND
223	SALINITY	F04		UNESCO '83 CALCULATION
224	SE	L01	270.2	TOTAL SELENIUM; ATOMIC ABSORPTION; FURNACE TECHNIQ
225	SECCHI	F01		20 CM SECCHI DEPTH
226	SECCHI	F02		30 CM SECCHI DEPTH
227	SIF	L01	366.0	COLORIMETRIC; AUTOMATED; MOLYBDENUM BLUE
228	SIF	L02	370.1	SPECTROPHOTOMETRIC; MANUAL; MOLYBDOSILICATE
229	SIF	L03		SILICA; ATOMIC ABSORPTION SPECTROMETRY; DIRECT
230	SIF	L04		METALS; WF ICP-AES; USGS METHODOLOGY
232	SIW	L01	101	COLORIMETRIC; AUTOMATED; MOLYBDENUM BLUE
233	SIW	L02	370.1	SPECTROPHOTOMETRIC; MANUAL; MOLYBDOSILICATE
234	SIW	L03	200.7	SILICA BY INDUCTIVELY COUPLED PLASMA – MASS SPECTROMETRY
235	SO4F	L01	375.4	SULFATE; TURBIDIMETRIC METHOD
236	SO4F	L02	300.0	SULFATE BY ION CHROMATOGRAPHY
237	SO4F	L03	375.2	AUTOMATED COLORIMETRIC; METHYLTHYMOL BLUE
238	SO4F	L04	300.6	ION CHROMOTOGRAPHY; SIMILAR TO 300.0

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
239	SO4W	L01	375.4	SULFATE; TURBIDIMETRIC METHOD
240	SO4W	L02		ANIONS; WF;IC; USGS METHODOLOGY
241	SPCOND	F01		IN-SITU SPECIFIC CONDUCTANCE AT 25 C
242	SPCOND	F02	120.1	SPECIFIC CONDUCTANCE AT 25 C - FIELD GRAB
245	SPCOND	L01		LABORATORY MEASURED CONDUCTIVITY
249	SSC_FINE	L01		SUSPENDED SEDIMENT PARTICLES PASSING THROUGH A 0.062 MM SIEVE
250	SSC_FINE	L02		SUSPENDED SEDIMENT PARTICLES PASSING THROUGH A 0.062 MM SIEVE
251	SSC_SAND	L01		SUSPENDED SEDIMENT PARTICLES RETAINED ON A 0.062 MM SIEVE
252	SSC_SAND	L02		SUSPENDED SEDIMENT PARTICLES RETAINED ON A 0.062 MM SIEVE
254	SSC_TOTAL	L01	NONE	GRAVIMETRIC FILTRATION METHOD; DRIED AT 90-105
255	SSC_TOTAL	L02	NONE	GRAVIMETRIC EVAPORATION METHOD; DRIED AT 90-105 DEGREES C
257	TALK	L01	310.1	ALKALINITY; TITRIMETRIC; pH 4.5
260	TCHL_PRE_CAL	F01		PRECALIBRATED FLUORESCENCE PROBE READING
261	TCOLI_C	L02		TOTAL COLIFORM MEMBRANE FILTER; M-FC MEDIUM
262	TCOLI_M	L01		STD. FERMENTATION TECHNIQUE (MPN)
273	TDN	L01		ALKALINE PERSULFATE WET OXIDATION + EPA 353.2 OR EPA 353.4
274	TDN	L02	NONE	ALKALINE PERSULFATE WET OXIDATION + ENZYME CATALYZED NITRATE REDUCTION
277	TDP	L01		ALKALINE PERSULFATE WET OXIDATION + EPA365.1OR EPA 365
278	TDP	L02		ALKALINE PERSULFATE WET OXIDATION + EPA 365.2
279	TDP	L03		ALKALINE PERSULFATE WET OXIDATION + EPA 365.3
280	TDP	L04	365.1	COLORIMETRIC; AUTOMATED; ASCORBIC ACID
281	TDP	L05	365.4	BLOCK DIGESTION;AUTOMATED ASCORBIC ACID
283	TDS	L01	160.1	TOTAL DISSOLVED SOLIDS; GRAVIMETRIC; DRIED AT 180 C

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
289	TKNF	L01	351.1	TKN COLORIMETRIC; AUTOMATED PHENATE (INDOPHENOL)
290	TKNF	L02	351.2	SEMI-AUTOMATED BLOCK DIGESTOR; COLORIMETRIC; NITRO
291	TKNF	L03	351.3	COLORIMETRIC;NESSLER;TITRIMETRIC OR POTENTIOMETRIC
309	TKNW	L01	351.1	TKN COLORIMETRIC; AUTOMATED PHENATE (INDOPHENOL)
310	TKNW	L02	351.2	SEMI-AUTOMATED BLOCK DIGESTOR; COLORIMETRIC; NITRO
311	TKNW	L03	351.3	COLORIMETRIC:NESSLER;TITRIMETIC OR POTENTIOMETRIC
339	TN	L01		ALKALINE PERSULFATE DIGESTION + EPA METHOD 353.2
340	TN	L02		UNDOCUMENTED USGS METHOD
352	TOC	L01	415.1	COMBUSTION INFRARED METHOD
353	TOC	L02		WET OXIDATION METHOD
354	TOC	L03		UV OR HEATED PERSULFATE OXIDATION
377	TON	L01		UNDOCUMENTED USGS METHOD
382	TOTAL_DEPTH	NA		SHALLOW WATER TOTAL DEPTH METHOD
388	TP	L01	365.4	COLORIMETRIC; AUTOMATED; BLOCK DIGESTOR AAII
389	TP	L02	365.2	COLORIMETRIC; MANUAL;ASCORBIC ACID; SINGLE REAGENT
390	TP	L03	365.3	COLORIMETRIC; MANUAL;ASCORBIC ACID; TWO REAGENT
391	TP	L04	365.1	COLORIMETRIC; AUTOMATED; ASCORBIC ACID
392	TP	L05	365.1	ALKALINE PERSULFATE DIGESTION AND EPA 365.1
393	TP	L06		UNDOCUMENTED USGS METHOD
394	TP	L07		WU; MICROKJ ASF; HG
396	TS	L01	160.3	TOTAL SOLIDS DRIED AT 103-105 DEGREES
397	TSS	L01	160.2	GRAVIMETRIC; DRIED AT 103-105 C

METHOD_ID	PARAMETER	METHOD	EPA_METHOD	TITLE
444	TURB_FNU	F01		IN-SITU NEPHELOMETRIC; NON-RATIOMETRIC; SINGLE DETECTOR; (YSI6136 OR EQUIVALENT)
401	TURB_FNU	F02		IN-SITU NEPHELOMETRIC; NON-RATIOMETRIC; SINGLE DETECTOR; (YSI6026 OR EQUIVALENT)
398	TURB_FTU	L01		DETERMINATION USING THE FORMAZIN TURBIDITY METHOD
399	TURB_JTU	L01		JACKSON CANDLE METHOD DETERMINATION
440	TURB_NTRU	L01	180.1	NEPHELOMETRIC; RATIOMETRIC; MULTIPLE DETECTORS
400	TURB_NTU	F01	NONE	IN-SITU NEPHELOMETRIC (YSI 6136)
402	TURB_NTU	L01	180.1	NEPHELOMETRIC; NON-RATIOMETRIC; SINGLE DETECTOR
403	TURB_NTU	UNK	NONE	IN-SITU NEPHELOMETRIC-UNKNOWN YSI
410	VSS	L01	160.4	GRAVIMETRIC; IGNITION AT 550 C
413	WTEMP	F01	170.1	IN-SITU THERMISTOR
414	WTEMP	F02	170.1	THERMOMETRIC
416	ZN	L01	200.7	TOTAL ZINC; ATOMIC EMISSION SPECTROMETRIC
417	ZNF	L01		DISSLOVED ZINC
418	ZNF	L02	289.1	DISSOLVED ZINC; ATOMIC ABSORPTION SPECTROMETRY; DIRECT

NOTE: New method codes are identified by green text.

Expanded method details are available with download of CEDR.MeasuredMetric.SampleAnalyticalMethod table.

PARAMETER Lookup Table

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
2	AG	UG/L	01077	P01077	TOTAL SILVER
5	AS	UG/L	01252		TOTAL ARSENIC
129	ATEMP	DEG C	00020	P00020	AIR TEMPERATURE
6	BATT	VOLTS			BATTERY VOLTAGE
7	BIOSI	MG/L	49574		BIOGENIC SILICA
8	BOAT_SPEED	KNOTS			BOAT SPEED IN KNOTS
9	BOD20F	MG/L			20-DAY BIOCHEMICAL OXYGEN DEMAND (FILTERED SAMPLE)
10	BOD20W	MG/L	00324	P324	20-DAY BIOCHEMICAL OXYGEN DEMAND (WHOLE SAMPLE)
11	BOD5F	MG/L			5-DAY BIOCHEMICAL OXYGEN DEMAND (FILTERED SAMPLE)
12	BOD5W	MG/L	00310	P310	WHOLE 5-DAY BIOCHEMICAL OXYGEN DEMAND
13	CA	MG/L	00916	P00916	TOTAL CALCIUM
14	CAF	MG/L	00915	P915	DISSOLVED CALCIUM AS CA
15	CD	UG/L	01027	P1027	TOTAL CADMIUM
16	CDOM_440	1/M			ABSORPTION DUE TO DISSOLVED ORGANIC MATTER
17	CDOM_SLOPE	1/NM			SLOPE OF CDOM ABSORPTION COEFFICIENT SPECTRUM (400-500 NM)
19	CHL_B	MG/L	32231	P32231	CHLOROPHYLL B
20	CHL_C	MG/L	32232	P32232	CHLOROPHYLL C
21	CHLA	UG/L	32211	P32211	ACTIVE CHLOROPHYLL-A
22	CLF	MG/L	00941	P941	DISSOLVED CHLORIDE
23	CLW	MG/L	00940	P940	TOTAL CHLORIDE
24	COD	MG/L			CHEMICAL OXYGEN DEMAND
26	CR	UG/L	01034	P01034	TOTAL CHROMIUM
27	CU	UG/L	01042	P01042	TOTAL COPPER
28	CUF	UG/L	01040	P01040	DISSOLVED COPPER

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
29	DIC	MG/L	00685	P00685	DISSOLVED INORGANIC CARBON
30	DIN	MG/L			DISSOLVED INORGANIC NITROGEN
31	DO	MG/L	00300	P300	DISSOLVED OXYGEN IN MG/L
32	DO_SAT_M	MG/L			DO SATURATION CONCENTRATION IN MG/L
33	DO_SAT_P	PCT		P301?	DO SATURATION USING PROBE UNITS IN PERCENT
34	DOC	MG/L	00681	P681	DISSOLVED ORGANIC CARBON
35	DON	MG/L	00607	P607	DISSOLVED ORGANIC NITROGEN
36	DOP	MG/L	00673	P673	DISSOLVED ORGANIC PHOSPHORUS
37	EPAR_S	UM/M**2/S			PAR MEASURED IN AIR OR ON DECK
38	EPARD_Z	UM/M**2/S			PAR WITH SENSOR POINTING DOWN; MEASURES UPWELLING
39	EPARU_Z	UM/M**2/S			PAR WITH SENSOR POINTED UP; MEASURES DOWNWELLING
131	EXTRACT_VOLUME	ML			EXTRACT VOLUME FOR OPTICAL DENSITY MEASUREMENTS
40	FCOLI_C	COL/100 ML	31616	P31616	FECAL COLIFORMS (COLONIES)
41	FCOLI_M	MPN/100 ML	31615	P31615	FECAL COLIFORMS (MOST PROBABLE NUMBER)
42	FDS	MG/L			FIXED DISSOLVED SOLIDS;IGNITED AT 550 C
43	FE_M	MG/L			TOTAL IRON
44	FE_U	UG/L	01045	P01045	TOTAL IRON
45	FLOW_AVG	CFS	00060	P60	STREAM FLOW; MEAN DAILY

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
46	FLOW_INS	CFS	00061	P61	STREAM FLOW; INSTANTANEOUS
47	FLUORESCENCE	PCT_FS			FLUORESCENCE
48	FS	MG/L			FIXED SOLIDS
49	FSS	MG/L	00540	P540	FIXED SUSPENDED SOLIDS
50	GAGE_HEIGHT	FT		P65	STREAM STAGE IN FEET
51	HARDNESS	MG/L	00900	P900	HARDNESS AS CACO3
52	HG	UG/L	71900	P71900	TOTAL MERCURY
53	IBOD5F	MG/L			INHIBITED 5-DAY BIOCHEMICAL OXYGEN DEMAND (FILTERED SAMPLE)
54	IBOD5W	MG/L			INHIBITED 5-DAY BIOCHEMICAL OXYGEN DEMAND (WHOLE SAMPLE)
127	K	MG/L	00938	P938	TOTAL POTASSIUM
55	KD	1/M			LIGHT ATTENUATION
56	KF	MG/L	00935	P935	DISSOLVED POTASSIUM AS K
132	LIGHT_PATH	CM			LIGHT PATH LENGTH USED TO MEASURE OPTICAL DENSITY
57	MGF	MG/L	00925	P925	DISSOLVED MAGNESIUM AS MG
58	MN	UG/L	01055	P01055	TOTAL MANGANESE
59	NAF	MG/L	00930	P930	DISSOLVED SODIUM AS NA
60	NH4F	MG/L	00608	P608	AMMONIUM NITROGEN AS N (FILTERED SAMPLE)
61	NH4W	MG/L	00610	P610	AMMONIUM NITROGEN AS N (WHOLE SAMPLE)
62	NI	UG/L	01067	P01067	TOTAL NICKEL
63	NO23F	MG/L	00631	P631	NITRITE+NITRATE NITROGEN AS N (FILTERED SAMPLE)
64	NO23W	MG/L	00630	P630	NITRITE+NITRATE NITROGEN AS N (WHOLE SAMPLE)

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
65	NO2F	MG/L	00613	P613	NITRITE NITROGEN AS N (FILTERED SAMPLE)
66	NO2W	MG/L	00615	P615	NITRITE NITROGEN AS N (WHOLE SAMPLE)
67	NO3F	MG/L	00618	P618	NITRATE NITROGEN AS N (FILTERED SAMPLE)
68	NO3W	MG/L	00620	P620	NITRATE NITROGEN AS N (WHOLE SAMPLE)
133	OD480B	UE/M**2/S			OPTICAL DENSITY READING (480 NM BEFORE ACIDIFICATION)
134	OD510B	UE/M**2/S			OPTICAL DENSITY READING (510 NM BEFORE ACIDIFICATION)
135	OD630B	UE/M**2/S			OPTICAL DENSITY READING (630 NM BEFORE ACIDIFICATION)
136	OD645B	UE/M**2/S			OPTICAL DENSITY READING (645 NM BEFORE ACIDIFICATION)
137	OD647B	UE/M**2/S			OPTICAL DENSITY READING (647 NM BEFORE ACIDIFICATION)
138	OD663A	UE/M**2/S			OPTICAL DENSITY READING (663 NM AFTER ACIDIFICATION)
139	OD663B	UE/M**2/S			OPTICAL DENSITY READING (663 NM BEFORE ACIDIFICATION)
140	OD664B	UE/M**2/S			OPTICAL DENSITY READING (664 NM BEFORE ACIDIFICATION)
141	OD665A	UE/M**2/S			OPTICAL DENSITY READING (665 NM AFTER ACIDIFICATION)
142	OD750A	UE/M**2/S			OPTICAL DENSITY READING (750 NM AFTER ACIDIFICATION)
143	OD750B	UE/M**2/S			OPTICAL DENSITY READING (750 NM BEFORE ACIDIFICATION)
69	ORP	MV			OXIDATION REDUCTION POTENTIAL
70	PB	UG/L	01051	P01051	TOTAL LEAD
71	PC	MG/L	00694	P694	PARTICULATE CARBON; INORGANIC + ORGANIC
72	PERIPHY	G/M**2	49954	P49954	PERIPHYTON BIOMASS; WATER

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
73	PH	SU	00400	P400	PH CORRECTED FOR TEMPERATURE (25 DEG C)
74	PHEO	UG/L	32218	P32218	PHEOPHYTIN
75	PIC	MG/L		P688	PARTICULATE INORGANIC CARBON
76	PIP	MG/L			PARTICULATE INORGANIC PHOSPHORUS
77	PN	MG/L	00601	P601	PARTICULATE NITROGEN
78	PO4F	MG/L	00671	P671	ORTHOPHOSPHATE PHOSPHORUS AS P (FILTERED SAMPLE)
79	PO4W	MG/L	70507	P650	ORTHOPHOSPHATE PHOSPHORUS AS P (WHOLE SAMPLE)
80	POC	MG/L	00689	P689	PARTICULATE ORGANIC CARBON
81	PON	MG/L			PARTICULATE ORGANIC NITROGEN
82	PP	MG/L	00667	P667	PARTICULATE PHOSPHORUS
130	PRESSURE		00025	P25	BAROMETRIC PRESSURE
83	SALINITY	PPT	00480	P480	SALINITY UNITS ARE PARTS PER THOUSAND (PPT) AND ARE EQUAL TO PRACTICAL SALNITY UNITS (PSU).
144	SAMPLE_VOLUME	L			TOTAL VOLUME OF THE WATER SAMPLE COLLECTED FOR OPTICAL DENSITY MEASUREMENT
84	SE	UG/L	01147	P1147	TOTAL SELENIUM
85	SECCHI	M	00078	P00078	SECCHI DEPTH
86	SI	UG/L	01142	P1142	TOTAL SILICON AS SI
87	SIF	MG/L	00955	P955	SILICA AS SI (FILTERED SAMPLE)
88	SIGMA_T	NONE			WATER DENSITY; DEPENDENT ON SALINITY AND WTEMP
89	SIW	MG/L			SILICA AS SI (WHOLE SAMPLE)

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
90	SN	UG/L	01102	P1102	TOTAL TIN
91	SO3	MG/L	00740	P740	TOTAL SULFITE AS SO3
92	SO4F	MG/L			SULFATE
93	SO4W	MG/L	00945	P945	TOTAL SULFATE AS SO4
94	SPCOND	UMHOS/CM	00095	P95	CONDUCTIVITY CORRECTED FOR TEMPERATURE (25 DEG C) AND SALINITY
95	SSC_%FINE	PCT	70331	P70331	CALCULATED PERCENT FINE SAND
96	SSC_%SAND	PCT	70335	P70335	CALCULATED PERCENT SAND
97	SSC_FINE	MG/L			SUSPENDED SEDIMENT PARTICLES PASSING THROUGH A 0.062 MM SIEVE
98	SSC_SAND	MG/L			SUSPENDED SEDIMENT PARTICLES RETAINED ON A 0.062 MM SIEVE
99	SSC_TOTAL	MG/L	80154	P80154	TOTAL SUSPENDED SEDIMENT CONCENTRATION
100	TALK	MG/L	00410	P410	TOTAL ALKALINITY AS CACO3
101	TCHL_PRE_CAL	UG/L			TOTAL CHLOROPHYLL; from a PRECALIBRATED FLUORESCENCE PROBE READING
102	TCOLI_C	COL/100 ML			TOTAL COLIFORMS (COLONIES)
103	TCOLI_M	MPN/100 ML	31505	P31505	TOTAL COLIFORMS (MOST PROBABLE NUMBER)
104	TDN	MG/L	00602	P602	TOTAL DISSOLVED NITROGEN
105	TDP	MG/L	00666	P666	TOTAL DISSOLVED PHOSPHORUS
106	TDS	MG/L	70300	P70300	TOTAL DISSOLVED SOLIDS;GRAVIMETRIC; DRIED AT 180 C
161	TIC	MG/L			TOTAL INORGANIC CARBON – CARBONATE CONTENT

PARAMETER_ID	PARAMETER	UNIT	STORET_CODE	USGS_CODE	DESCRIPTION
107	TKNF	MG/L	00623	P623	TOTAL KJELDAHL NITROGEN (FILTERED SAMPLE)
108	TKNW	MG/L	00625	P625	TOTAL KJELDAHL NITROGEN (WHOLE SAMPLE)
109	TN	MG/L	00600	P600	TOTAL NITROGEN
110	TOC	MG/L	00680	P680	TOTAL ORGANIC CARBON
111	TON	MG/L	00605	P605	TOTAL ORGANIC NITROGEN
112	TOP	MG/L	00670	P00670	TOTAL ORGANIC PHOSPHORUS
114	TP	MG/L	00665	P665	TOTAL PHOSPHORUS
115	TS	MG/L	80180		TOTAL SOLIDS
116	TSS	MG/L	00530	P530	TOTAL SUSPENDED SOLIDS
163	TURB_FNU	FNU	63680	P63680	FORMAZIN NEPHELOMETRIC UNITS
117	TURB_FTU	FTU	00076	P76	TURBIDITY; TURBIDIMETER (FORMAZIN UNITS)
118	TURB_JTU	JTU	82537		TURBIDITY; JACKSON CANDLE METHOD (FORWARD SCATTER)
164	TURB_NTRU	NTRU	63676	P63676	NEPHELOMETRIC TURBIDITY RATIO UNITS
119	TURB_NTU	NTU	82079	P82079	TURBIDITY; NEPHELOMETRIC METHOD
121	VSS	MG/L	00535	P535	VOLATILE SUSPENDED SOLIDS
123	WTEMP	DEG C	00010	P10	WATER TEMPERATURE
124	ZN	UG/L	01092	P01092	TOTAL ZINC
125	ZNF	UG/L	01090	P01090	DISSOLVED ZINC

NOTE: New parameters are identified by green text.

Expanded parameter details are available with download of CEDR.MeasuredMetric.SubstanceIdentification table.

PRECIP_TYPE Lookup Table

PRECIP_TYPE	DESCRIPTION
10	NONE
11	DRIZZLE
12	RAIN
13	HEAVY RAIN
14	SQUALLY
15	FROZEN PRECIPITATION
16	MIXED RAIN AND SNOW

PROBLEM Lookup Table

PROBLEM	DESCRIPTION
A	LABORATORY ACCIDENT
AA	FIELD ACCIDENT
B	CHEMICAL MATRIX INTERFERENCE
C	INSTRUMENT FAILURE
D	INSUFFICIENT SAMPLE
DD	SAMPLE SIZE NOT REPORTED (ASSUMED)
E	SAMPLE RECEIVED AFTER HOLDING TIME
F	POST-CALIBRATION FAILURE LIKELY DUE TO EQUIPMENT DAMAGE AFTER SAMPLING; DATA APPEAR NORMAL
FF	MEAN REPORTED DUE TO POOR REPLICATION BETWEEN PADS
GG	SAMPLE ANALYZED AFTER HOLDING TIME
I	SUSPECT VALUE HAS BEEN VERIFIED CORRECT
J	INCORRECT SAMPLE FRACTION FOR ANALYSIS
JJ	VOLUME FILTERED NOT RECORDED (ASSUMED)
L	LICOR CALIBRATION OFF BY >= 10% PER YEAR. USE WITH CALC KD WHERE PROB OF LU, LS, LB EXIST IN RAW
LB	LICOR CALIBRATION OFF BY >= 10% PER YEAR FOR BOTH AIR AND UPWARD FACING SENSORS
LS	LICOR CALIBRATION OFF BY >= 10% PER YEAR FOR AIR SENSOR
LU	LICOR CALIBRATION OFF BY >= 10% PER YEAR FOR UPWARD FACING SENSOR
MM	OVER 20% OF SAMPLE ADHERED TO POUCH AND OUTSIDE OF PAD
NN	PARTICULATES FOUND IN FILTERED SAMPLE
P	PROVISIONAL DATA
Q	ANALYTE PRESENT; REPORTED VALUE IS ESTIMATED; CONC IS BELOW THE RANGE FOR QUANTITATION
R	SAMPLE CONTAMINATED
RR	NO SAMPLE RECEIVED BY LAB FROM FIELD OFFICE
SS	SAMPLE REJECTED DUE TO HIGH SUSPENDED SEDIMENT CONCENTRATION
TP	TORN FILTER PAD
U	MATRIX PROBLEM RESULTING FROM THE INTERRELATIONSHIP BETWEEN VARIABLES SUCH AS PH AND AMMONIA

PROBLEM	DESCRIPTION
Un	FOR DCDOH DATA; THESE VALUES ARE ISSUES OR ARE NULLS WITH NO ASSIGNED PROBLEM CODES; 8/27/2008
V	SAMPLE RESULTS REJECTED DUE TO QC CRITERIA
WW	HIGH OPTICAL DENSITY (750 NM); ACTUAL VALUE RECORDED
X	SAMPLE NOT PRESERVED PROPERLY
	CONSISTENCY CHECK PROBLEM CODES
QQ	PART EXCEEDS WHOLE VALUE YET DIFFERENCE IS WITHIN ANALYTICAL PRECISION (PQL OR REPORTING LIMIT)
NQ	PART EXCEEDS WHOLE VALUE AND DIFFERENCE IS NOT WITHIN ANALYTICAL PRECISION
IQ	CANNOT DETERMINE IF PART EXCEEDS WHOLE VALUE AND WHETHER OR NOT DIFFERENCE IS WITHIN ANALYTICAL PRECISION
NV	NEGATIVE CALCULATED VALUE IS VALID GIVEN PRECISION OF MEASURED WATER QUALITY PARAMETERS; ACTUAL CALCULATED CONCENTRATION LIKELY IS LOW; POSSIBLY LESS THAN PQLS OF MEASURED WATER QUALITY PARAMETERS

BIAS_PC Lookup Table

	BIAS CHECK PROBLEM CODES
UB	CONCENTRATION OF FIELD BLANK REFLECTS INITIAL OR ISOLATED OCCURRENCE OF CONTAMINATION; SOURCE OF CONTAMINATION UNDER INVESTIGATION
BB	SPURIOUS OR PERSISTENT CONTAMINATION THAT APPEARS TO AFFECT BLANKS ONLY. CONTAMINATION IS RELATED TO THE MANNER OR EQUIPMENT OR SUPPLIES USED TO OBTAIN THE BLANK; SUCH AS CONTAMINATED SOURCE WATER
CB	SPURIOUS OR PERSISTENT CONTAMINATION; WHICH APPEARS TO REFLECT THE MANNER OR EQUIPMENT OR SUPPLIES USED TO OBTAIN BLANKS AND ASSOCIATED WATER QUALITY SAMPLES
BM	BIASED MEASUREMENT; CONCENTRATION COULD REFLECT CONTAMINATION BIAS; ASSOCIATED FIELD BLANK CONCENTRATIONS WERE WITHIN SAME MAGNITUDE AND COULD CONTRIBUTE AT LEAST 10% TO THE MEASURED WATER QUALITY PARAMETER CONCENTRATION (ASSIGNED BY DUET)

PRECISION_PC Lookup Table

	PRECISION CHECK PROBLEM CODES (ASSIGNED BY DUET)
HI	HIGH RELATIVE PERCENT DIFFERENCE IN DUPLICATE SAMPLE MEASUREMENTS

PROGRAM Lookup Table

PROGRAM	DESCRIPTION
NTWQM	NONTIDAL WATER QUALITY MONITORING PROGRAM
SWM	SHALLOW WATER MONITORING
TWQM	TIDAL WATER QUALITY MONITORING PROGRAM

PROJECT Lookup Table

PROJECT	DESCRIPTION
CMON	TIDAL CONTINUOUS WATER QUALITY MONITORING PROJECT
DFLO	TIDAL DATAFLOW WATER QUALITY MONITORING PROJECT
MAIN	TIDAL MAINSTEM WATER QUALITY MONITORING PROJECT
NTCMON	**NONTIDAL CONTINUOUS WATER QUALITY MONITORING PROJECT**
NTID	NONTIDAL OUT OF NETWORK WATER QUALITY MONITORING PROJECT
NTN	NONTIDAL NETWORK WATER QUALITY MONITORING PROJECT
NTPART	**NONTIDAL NON-TRADITIONAL PARTNERS**
NTSPECIAL	**NONTIDAL SPECIAL WATER QUALITY MONITORING PROJECT**
PART	**TIDAL NON-TRADITIONAL PARTNERS**
TRIB	TIDAL TRIBUTARY WATER QUALITY MONITORING PROJECT
TSPECIAL	**TIDAL SPECIAL WATER QUALITY MONITORING PROJECT**

NOTE: New fields are identified by green text.

QUALIFIER Lookup Table

QUALIFIER_ID	QUALIFIER	DESCRIPTION
1	<	CONCENTRATION IS LESS THAN METHOD DETECTION LIMIT
2	>	CONCENTRATION NOT QUANTIFIED; EXCEEDS GIVEN VALUE (eg. FCOLI).
3	G	REPORTED VALUE IS BETWEEN MDL AND THE PRACTICAL QUANTITATION LEVEL (OR REPORTING LIMIT)

SAMPLE_ID Lookup (SAMPLE_REPLICATE_TYPE)

SAMPLE_REPLICATE_TYPE	DESCRIPTION
EB	EQUIPMENT AND FILTRATION BLANK (ADDED 07/09/2012)
FB	FIELD FILTRATION BLANK (ADDED 04/09/2012)
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
SWB	SOURCE WATER (DI) BLANK (ADDED 04/09/2012)

SAMPLE_TYPE Lookup Table

SAMPLE_TYPE	DESCRIPTION
CS	COMPOSITE SAMPLE COLLECTED SPATIALLY
CT	COMPOSITE SAMPLE COLLECTED TEMPORALLY
D	DISCRETE (GRAB) SAMPLE COLLECTED AT DEPTH
HVIC	HORIZONTAL AND VERTICALLY INTEGRATED COMP SAMPLE
ISM	IN-SITU MEASUREMENT. NO SAMPLE COLLECTED

SOURCE Lookup Table

SOURCE	DESCRIPTION
ANS	THE ACADEMY OF NATURAL SCIENCES
CBI	CHESAPEAKE BAY INSTITUTE; JOHNS HOPKINS UNIVERSITY
DCDOH	DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH
DEDNREC	DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
IHDNSWC	INDIAN HEAD DIVISION NAVAL SURFACE WARFARE CENTER
MDDNR	MARYLAND DEPARTMENT OF NATURAL RESOURCES
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ODU	OLD DOMINION UNIVERSITY
PADEP	PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMCM	ST MARY'S COLLEGE OF MARYLAND
SRBC	SUSQUEHANNA RIVER BASIN COMMISSION
USGS	UNITED STATES GEOLOGICAL SURVEY
USGSMD	USGS MARYLAND WATER SCIENCE CENTER
USGSPA	USGS PENNSYLVANIA WATER SCIENCE CENTER
USGSVA	UNITED STATES GEOLOGICAL SURVEY VIRGINIA WATER SCIENCE CENTER
USGSWV	USGS WEST VIRGINIA WATER SCIENCE CENTER
VADEQ/NRO	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY-NORTHERN REGIONAL OFFICE
VADEQ/PRO	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY-PIEDMONT REGIONAL OFFICE
VADEQ/SCRO	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY-SOUTH CENTRAL REGION LYNCHBURG
VADEQ/TRO	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY-TIDEWATER REGIONAL OFFICE
VADEQ/VRO	VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY-VALLEY OFFICE HARRISONBURG
VIMS	VIRGINIA INSTITUTE OF MARINE SCIENCE

UNITS Lookup Table

UNIT	DESCRIPTION
1/M	UNITS PER METER
1/NM	UNITS PER NANOMETER
ABS	OPTICAL DENSITY
CFS	CUBIC FEET PER SECOND
COL/100 ML	NUMBER OF COLONIES PER 100 MILLILITERS
DEG C	DEGREES CELSIUS
FT	FEET
FNU	FORMAZIN NEPHELOMETRIC UNITS
FTU	FORMAZIN UNITS
G/M**2	GRAMS PER SQUARE METER
JTU	JACKSON TURBIDITY UNITS
KG/DAY	KILOGRAMS PER DAY
KG/MONTH	KILOGRAMS PER MONTH
KG/YEAR	KILOGRAMS PER YEAR
KNOTS	SPEED
LBS/DAY	POUNDS PER DAY
LBS/MONTH	POUNDS PER DAY
LBS/YEAR	POUNDS PER YEAR
M	METERS
MG/L	MILLIGRAMS PER LITER
MPN/100 ML	MOST PROBABLE NUMBER PER 100 MILLILITERS
MV	MILLIVOLTS
NONE	PARAMETER HAS NO ASSOCIATED UNITS
NTRU	NEPHELOMETRIC TURBIDITY RATIO UNITS
NTU	NEPHELOMETRIC UNITS
PCT	PERCENT
PCT_FS	PERCENT FULL SCALE
PPT	PARTS PER THOUSAND. EQUAL TO PRACTICAL SALNITY UNITS (PSU).
SU	SPECIFIC UNITS
TONS/DAY	TONS PER DAY
TONS/MONTH	TONS PER MONTH
TONS/YEAR	TONS PER YEAR
UE/M**2/S	MICROEINSTEINS PER METER SQUARED PER SECOND
UG/L	MICROGRAMS PER LITER
UM/M**2/S	MICROMOLES PER METER SQUARED PER SECOND. EQUAL TO MICROEINSTEINS
UMHOS/CM	MICROHMS PER CENTIMETER
VOLTS	VOLTAGE

WIND_DIRECTION Lookup Table

WIND_DIRECTION	DESCRIPTION
E	FROM THE EAST (90 DEGREES)
ENE	FROM THE EAST NORTHEAST (67.5 DEGREES)
ESE	FROM THE EAST SOUTHEAST (112.5 DEGREES)
N	FROM THE NORTH (0 DEGREES)
NE	FROM THE NORTH EAST (45 DEGREES)
NNE	FROM THE NORTH NORTHEAST (22.5 DEGREES)
NNW	FROM THE NORTH NORTHWEST (337.5 DEGREES)
NW	FROM THE NORTHWEST (315 DEGREES)
S	FROM THE SOUTH (180 DEGREES)
SE	FROM THE SOUTH EAST (135 DEGREES)
SSE	FROM THE SOUTH SOUTHEAST (157.5 DEGREES)
SSW	FROM THE SOUTH SOUTHWEST (202.5 DEGREES)
SW	FROM THE SOUTH WEST (225 DEGREES)
VAR	VARIABLE WINDS
W	FROM THE WEST (270 DEGREES)
WNW	FROM THE WEST NORTHWEST (292.5 DEGREES)
WSW	FROM THE WEST SOUTHWEST (247.5 DEGREES)

WIND_SPEED Lookup Table

WIND_SPEED	DESCRIPTION
0	0 TO 1 KNOT
1	>1 TO 10 KNOTS
2	>10 TO 20 KNOTS
3	>20 TO 30 KNOTS
4	>30 TO 40 KNOTS
5	>40 KNOTS