



**ENVIRONMENTAL PROTECTION
AGENCY**

**ELECTRONIC DATA DELIVERABLE
VALID VALUES
REFERENCE MANUAL
Region 2**

**Appendix to EPA Electronic Data Deliverable (EDD)
Comprehensive Specification Manual**

**Part I – Table A-1 to A-13
And Figure A-1 and A-2**

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ELECTRONIC DATA DELIVERABLE VALID VALUES REFERENCE MANUAL
Appendix to EPA Electronic Data Deliverable (EDD) Comprehensive Specification Manual

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Valid Values Reference Manual

All tables presented within this Manual are also located in the EDD .pdf file available on the EPA Region 2 EDD website: <https://www.epa.gov/superfund/region-2-superfund-electronic-data-submission>

Table A-1 Matrix

Matrix_Code	Description	MATRIX_CLASS
AA	AMBIENT AIR	FIELD
AD	DRILLING AIR	FIELD
AE	AIR, VAPOR EXTRACTION WELL EFFLUENT	FIELD
AI	INDOOR AIR	
AO	OUTDOOR AMBIENT AIR	
AO	AIR QUALITY CONTROL MATRIX	
AOU	AQUEOUS SAMPLES FROM DESA	FIELD
AS	SOIL VAPOR	FIELD
AU	NOT OTHERWISE SPECIFIED-GAS	
CA	CINDER-ASH	FIELD
CF	FLY ASH CINDER	FIELD
DC	DRILL CUTTINGS	FIELD
DL	Drum Liquid	
DS	Drum Solid	
GE	GASEOUS EFFLUENT (STACK GAS)	FIELD
GL	HEADSPACE OF LIQUID SAMPLE	FIELD
GS	SOIL GAS	FIELD
IDW	INVESTIGATION DERIVED WASTE	
LA	AQUEOUS PHASE OF A MULTIPLE PHASE LIQUID OR	FIELD
LC	LIQUID CONDENSATE	FIELD
LD	DRILLING FLUID	FIELD
LE	LIQUID EMULSION	FIELD
LF	FLOATING/FREE PRODUCT ON GROUNDWATER	FIELD
LH	FREE-FLOWING, OR LIQUID WASTE CONTAINING	FIELD
LM	MULTIPLE PHASE LIQUID WASTE SAMPLE	FIELD
LN	NON-AQUEOUS LIQUID	
LO	ORGANIC LIQUID	FIELD
LP	PRODUCT	
LS	DNAPL	
LU	NOT OTHERWISE SPECIFIED LIQUID	FIELD
LV	LIQUID FROM VADOSE ZONE	FIELD
MH	HAZARDOUS MULTIPLE PHASE WASTE	FIELD
Oil	Oil	
PU	NOT OTHERWISE SPECIFIED-PRODUCT	
RC	ROCK CORE	
SB	BENTONITE	FIELD
SC	CEMENT	FIELD
SD	DRILL CUTTINGS, SOLID MATRIX	FIELD
SE	SEDIMENT (ASSOCIATED WITH SURFACE WATER)	FIELD
SF	FILTER SANDPACK	FIELD
SH	SOLID WASTE CONTAINING GREATER THAN OR	FIELD
SL	SLUDGE	FIELD
SM	WATER FILTER (SOLID MATERIAL USED TO FILTER	FIELD
SN	MISCELLANEOUS SOLID MATERIALS - BUILDING	FIELD
SO	SOIL	FIELD
SOI	SOIL	LAB
SP	CASING (PVC, STAINLESS STEEL, CAST IRON, IRON	FIELD
SO	SOIL/SOLID QUALITY CONTROL MATRIX	FIELD
SR	WATER FILTER RESIDUE (SOLID THAT GETS	FIELD
SS	SCRAPINGS	FIELD
ST	SOLID WASTE	FIELD

Table A-1 Matrix

Matrix_Code	Description	MATRIX_CLASS
SU	NOT OTHERWISE SPECIFIED-SOLID	
SV	SEWER VAPOR	FIELD
SW	SWAB OR WIPE	FIELD
TA	ANIMAL TISSUE	FIELD
TF	Fish Tissue	
TI	TISSUE (TYPE OF TISSUE UNKNOWN)	FIELD
TLD	Thermoluminescent Dosimeter	
TP	PLANT TISSUE	FIELD
TO	TISSUE QUALITY CONTROL MATRIX	FIELD
TW	TAB WATER	FIELD
U	UNKNOWN	FIELD
W	WATER	LAB
WA	DRILL CUTTINGS, AOUEOUS MATRIX	FIELD
WB	EFFLUENT	
WC	DRILLING WATER (USED FOR WELL	FIELD
WD	WELL DEVELOPMENT WATER	FIELD
WE	ESTUARY	FIELD
WG	GROUND WATER	FIELD
WH	EQUIPMENT WASH WATER, I.E., WATER USED FOR	FIELD
WL	LEACHATE	FIELD
WO	OCEAN WATER	FIELD
WP	DRINKING WATER	FIELD
WPR	PORE WATER	
WO	WATER QUALITY CONTROL MATRIX	FIELD
WS	SURFACE WATER	FIELD
WST	STORM WATER	
WT	WATER TREATED	FIELD
WV	WATER FROM VADOSE ZONE	FIELD
WW	WASTE WATER	FIELD
WZ	SPECIAL WATER QUALITY CONTROL MATRIX	FIELD

Table A-2 Reference Point

Reference Code	Description
AB	Administrative Building
AM	Air Monitoring Station
AS	Air Release Stack
AV	Air Release Vent
AE	Atmosphere Emissions Treatment Unit
103	Boundary Point
102	Facility Center/Centroid
101	Facility/Station Building Entrance or Street
104	Intake Point
SP	Lagoon or Settling Pond
LW	Liquid Waste Treatment Unit
LC	Loading Area Centroid
LF	Loading Facility
107	Monitoring Point
NE	Northeast Corner of Land Parcel
NW	Northwest Corner of Land Parcel
PF	Plant Entrance Freight
PG	Plant Entrance General
PP	Plant Entrance Personnel
PU	Process Unit
PC	Process Unit Area Centroid
106	Release Point
SE	Southeast Corner of Land Parcel
SW	Southwest Corner of Land Parcel
SD	Solid Waste Treatment/Disposal Unit
SS	Solid Waste Storage Area
105	Treatment/Storage Point
WM	Water Monitoring Station
WR	Water Release Pipe
WL	Well
WA	Well Protection Area
OT	Other
UN	Unknown

Table A-3 Horizontal Collection Method

Horiz Collect Method Code	Description
001	Address Matching House Number
002	Address Matching Block Face
003	Address Matching Street Centerline
004	Address Matching Nearest InterSection
005	Address Matching Primary Name
006	Address Matching Digitized
007	Address Matching Other
008	Census Block - 1990 - Centroid
009	Census Block/group - 1990 - Centroid
010	Census Block tract - 1990 - Centroid
011	Census Other
012	GPS-Carrier phase static relative positioning technique
013	GPS-Carrier phase kinematic relative positioning technique
014	GPS-Code (pseudo range) differential (DGPS)
015	GPS-Code (pseudo range) precise positioning service
016	GPS-Code (pseudo range) standard positioning service SA off
017	GPS-Code (pseudo range) standard positioning service SA on
018	Interpolation Map
019	Interpolation Photo
020	Interpolation Satellite
021	Interpolation Other
022	Loran C
023	Public Land Survey Quarter Section
024	Public Land Survey Section
026	Zip Code Centroid
027	UNKNOWN
028	GPS unspecified
029	GPS, with Canadian active control system
030	Interpolation Digital Map Source (TIGER)
031	Interpolation SPOT
032	Interpolation MSS
033	Interpolation TM
034	Public Land Survey Eighth Section
035	Public Land Survey Sixteenth Section
036	Public Land Survey Footing
037	Zip+4 Centroid
038	Zip+2 Centroid
039	Classical Surveying Techniques
040	Internet Mapping (Google Earth, ETC)
l1	Interpolation-Map

Table A-4 Horizontal Accuracy Units

Horiz_Accuracy_Unit	Description
1	Degrees (for both horz_accuracy_unit and elev_accuracy_unit)
2	Minutes (for both horz_accuracy_unit and elev_accuracy_unit)
3	Seconds (for both horz_accuracy_unit and elev_accuracy_unit)
4	Meters (for both horz_accuracy_unit and elev_accuracy_unit)
5	Feet (for both horz_accuracy_unit and elev_accuracy_unit)
6	Kilometers (for both horz_accuracy_unit and elev_accuracy_unit)
7	Miles (for both horz_accuracy_unit and elev_accuracy_unit)
8	Unknown (For horz_accuracy_unit only)

Table A-5 Horizontal Datum

Horiz_Datum_Code	Description
001	NAD27
002	NAD83
003	WGS84
004	ARBITRARY REFERENCE POINT
005	LOCAL TIDAL DATUM
O	OTHER
U	UNKNOWN

Table A-6 Elevation Collection Method

Elev_Collect_Method_Code	Description
A1	ALTIMETRY
G1	GPS CARRIER PHASE STATIC RELATIVE POSITIONING TECHNIQUE
G2	GPS CARRIER PHASE KINEMATIC RELATIVE POSITIONING TECHNIQUE
G3	GPS CODE MEASUREMENTS (PSEUDO RANGE) – DIFFERENTIAL (DGPS)
G4	GPS CODE MEASUREMENTS (PSEUDO RANGE) – PRECISE POSITIONING
G5	GPS CODE MEASUREMENTS (PSEUDO RANGE) – STANDARD POSITIONING SERVICE SA OFF
G6	GPS CODE MEASUREMENTS (PSEUDO RANGE) – STANDARD POSITIONING SERVICE SA ON
L1	PRECISE LEVELING FROM A BENCH MARK
L2	LEVELING BETWEEN NON BENCH MARK CONTROL POINTS
L3	TRIGONOMETRIC LEVELING
OT	OTHER
P1	PHOTOGRAMMETRIC
S1	CLASSICAL SURVEYING TECHNIQUES
T1	TOPOGRAPHIC MAP INTERPOLATION
D1	USGS 30 METER DEM
L4	ELEVATIONS COLLECTED USING LIDAR FILES
UN	UNKNOWN

Table A-7 Elevation Datum

Elev_Datum_Code	Description
N	NOT APPLICABLE
O	OTHER
U	UNKNOWN
S1	CLASSICAL SURVEYING TECHNIQUES
001	NAVD88
002	NGVD29
003	ELEVATION FROM MEAN SEA LEVEL
004	LOCAL TIDAL DATUM

Table A-8 Source Scale

Source_Scale	Description
Ranges	
1	Source scale ranging from 1 >1:500
2	Source scale ranging from 1:500 to 1:5,000
3	Source scale ranging from 1 1:5001 to 1:10,000
4	Source scale ranging from 1 1:10,001 to 1:15,000
5	Source scale ranging from 1 1:15,001 to 1:20,000
6	Source scale ranging from 1 1:20,001 to 1:25,000
7	Source scale ranging from 1 1:25,001 to 1:50,000
8	Source scale ranging from 1 1:50,001 to 1:100,000
9	Source scale 1 < 1:100,000
Discrete values	
A	1:10,000
B	1:12,000
C	1:15,840
D	1:20,000
E	1:24,000
F	1:25,000
G	1:50,000
H	1:62,500
I	1:63,360
J	1:100,000
K	1:125,000
L	1:250,000
M	1:500,000
N	None
O	Other

Table A-9 Location Type

LOC TYPE	DESCRIPTION
AIR	AIR
AIREFFLUENT	POST TREATMENT EFFLUNEN
AIW	AIR INJECTION WELL
ANODE	ANODE
AST	ABOVE GROUND STORAGE TANK
ATM	ATMOSPHERE
BASEMENT	BASEMENT
BEDROCK	BEDROCK BORING
BORING/WELL	SOIL BORING/MONITORING WELL
CB	GAS COAL BED METHANE
CENTROID	FACILITY CENTER POINT
CHIP	CHIP SAMPLE LOCATION
COMMERCIAL	COMMERCIAL WELL
CON	CONCRETE
CORE	CORE
CP	CONE PENETROMETER TEST BORING
CRAWLSPACE	CRAWLSPACE
CREEK	Creek
CS	CONTAINER / ROLL OFF SAMPLE
DC	DITCH-CULVERT
DEWATER	DEWATER
DI_SO	DISCRETE-INTERVAL SOIL SAMPLING LOCATION
DI_SO_GW	DISCRETE-INTERVAL SOIL AND GROUNDWATER SAMPLING LOCATION
DIRPUSH	DIRECT PUSH
DOMESTIC	DOMESTIC WELL
DRAINAGE	DRAINAGE
DRUM	DRUM SAMPLE
DS	DRUM SAMPLE
DST	DUST
EXWELL	EXTRACTION WELL
FIRST FLOOR	FIRST (OR GROUND) FLOOR
G1	GAS PRODUCER
G2	GAS PRODUCER 2 ZONES
G3	GAS PRODUCER WORKED OVER
GENLOC	GENERAL LOCATION
GEOHERMAL	GEOHERMAL
GGW	DIRECT PUSH GROUND WATER
GM	GAS MONITORING PROBE
GP	GEOPROBE BORING
GSS	DIRECT PUSH SOIL SAMPLE
GSV	DIRECT PUSH SOIL VAPOR
GWEFFLUENT	COMBINED EFFLUENT FROM GW TREATMENT
GWINFLUENT	COMBINED INFLUENT TO GW TREATMENT SYSTEM FROM EXTRACTION WELLS
HA	HAND AUGER
HEAT RESERVOIR	HEAT RESERVOIR
HGW	HYDROPUNCH
INDOORAIR	INDOOR AIR
INDUSTRIAL	INDUSTRIAL WELL

Table A-9 Location Type

LOC TYPE	DESCRIPTION
INJECTION	INJECTION
IRRIGATION	IRRIGATION
IW	INJECTION WELL
LAGN	LAGOON (SURFACE IMPOUNDMENT)
LAND	LAND
LANDFILL	LANDFILL
MH	MANHOLE
MIW	MICROWELL
MONITORING	MONITORING
MUNIWELL	MUNICIPAL WELL
MW	MONITORING WELL
OB	OBSERVATION WELL
OF	OUTFALL
OFP	OUTFALL POINT
OG	OIL & GAS WELL
OTHER	OTHER
OUTDOOR	OUTDOORS NEAR BUILDING
PEB	POST EXCAVATION BOTTOM
PILE	SOIL PILE
PLANT	PLANT
PONDS	PONDS
POSTEX	POST EXCAVATION SAMPLE
PROCESSWTR	PROCESS WATER
PRODW	PRODUCTION WELL
PRW	PORE WATER SAMPLE LOCATION
PW	PRODUCTION WATER
PZ	PIEZOMETER
QC	QC
RECHARGE	RECHARGE
REMEDICATION	REMEDICATION
REPRESSURIZATION	REPRESSURIZATION
RW	RECOVERY WELL
SAN	SEWER, SANITARY
SB	SOIL BORING
SED	SEDIMENT
SED_SUFW	Sediment, Surface Water
SEEP	SEEP
SEISMIC	SEISMIC
SOIL	SOIL GRAB SAMPLE
SOIL VAPOR EXTRACT	SOIL VAPOR EXTRACTION
SOILBORE	SOIL BORING
SP	SAMPLING PORT
STACK	STACK
SUBSLAB	SUBSLAB POINT
SUBSURFSOIL	SUBSURFACE SOIL
SUMP	SUMP
SURFSOIL	SURFACE SOIL
SURFWATER	SURFACE WATER
SUS	SUB-SLAB SOIL SAMPLE
SVE	SOIL VAPOR EXTRACTION WELL

Table A-9 Location Type

LOC TYPE	DESCRIPTION
SVEEFLUNT	COMBINED EFFLUENT FROM SVE WELLS
SVEINFLUNT	COMBINED INFLUENT FROM SVE WELLS INTO TREATMENT SYSTEM
SVEWELL	SOIL VAPOR EXTRACTIION WELL
SVM	SOIL VAPOR MONITORING WELL
SVP	SOIL VAPOR POINT
SW	SURFACE WATER LOCATION
TANK	TANK
TEST HOLE	TEST HOLE
TESTPIT	TEST PIT
TS	TREATMENT SYSTEM
TW	Temporary Wells for Samplings, removed afterward
UNK	UNKNOWN
UNW	UNKNOWN WELL TYPE
UPPER FLOOR	UPPER (SECOND, THIRD, ETC.) FLOOR
UST	UNDERGROUND STORAGE TANK
VP	Vapor Port
WASTE DISPOSAL	WASTE DISPOSAL
WATER QUALITY ASSESS	WATER QUALITY ASSESSMENT
WATER SUPPLY/PROD	WATER SUPPLY/PRODUCTION
WETLND	WETLAND
WG	WASTE GRAB
WI	WIPE SAMPLE
WSTAP	FAUCET/TAP
WSWELL	WATER SUPPLY WELL
WTREFFLUENT	POST-TREATMENT EFFLUENT WATER
WTRINFLUENT	PRE-TREATMENT WATER COMBINED INFLUENT

The EDMAN program will use EPA standard qualifiers. Definitions for these qualifiers are provided below.

Table A-10 Qualifier

Lab_Qualifieries	Description
*	duplicate not within control limits INORGANICS – Value outside QC Limits.
+	INORGANICS- Correlation coefficient for the MSA < 0.995
<	reported value less than noted detection limit
A	Indicates tentatively identified compounds that are suspected to be aldol condensation products.
B	ORGANICS – indicates the analyte is detected in the associated blank as well as in the sample. INORGANICS – reported value was obtained from a reading that was less than the contract required detection limit (crdl) but greater than or equal to the instrument detection limit (idl). If the analyte was analyzed for but not detected a “u” shall be entered.
C	indicates pesticide results have been confirmed by gc/ms.
D	Indicates an identified compound in an analysis that has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analyses. INORGANICS – The result is faulty due to problems outside the realm of typical validation rules/ flags. This qualifier maybe affixed to a result when the data validator has reason to consider the result suspect, warranting notification of the end user of a dilution
E	ORGANICS- Indicates compounds whose concentrations exceed the calibration range of the instrument. INORGANICS- Sample Result is estimated and Biased High
F	The result is faulty due to problems outside the realm of typical validation rules/flags. This qualifier may be affixed to a result when the data validator has reason to consider the result suspect, warranting notification of the end user
G	Indicates the TCLP matrix spike recovery was greater than the upper limit of the analytical method.
H	Biased high.
HT	Exceeds Holding Time
I	matrix interference
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a report result having an associated qc problem. INORGANIC - Matrix interference
J-	estimated on the low side
J+	estimated on the high side
K	reported concentration value is proportional to dilution factor and may be exaggerated
L	Biased low.
M	Indicates that the duplicate injection precision was not met.

Table A-10 Qualifier

Lab_Qualifieries	Description
N	ORGANICS – Indicates presumptive evidence of a compound. This flag is usually used for a tentatively identified compound, where the identification is based on a mass spectral library search. INORAGNICS – Sample Result is estimated and biased low.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
P	Indicates a pesticide/aroclor target analyte had a percent difference greater than 25% between the two gc columns. The lower of the two results is reported.
R	Indicates the data are unusable. (Note: The analyte may or may not be present.)
S	Indicates that the reported values were determined by the method of standard additions.
U	Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported. INORGANIC – Indicates a pesticide/ aroclor target analyte had a percent difference greater than 25% between the two GC columns. The lower of the two results is reported.
W	Post-digestion spike out of control limits etc.
X	Recovered amount of spike is less than the project reporting limit.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table A-11 Result Type

Result_Type_Code	Description
IS	INTERNAL STANDARDS
SC	SPIKED COMPOUNDS
SUR	SURROGATES
TIC	TENTATIVELY IDENTIFIED COMPOUND
TRG	TARGET, REGULAR RESULT
CAL	CALCULATED

Table A-12 Sample Type

Sample_Type_Code	Description	Sample_type_class	Parent Sample Required
AB	AMBIENT CONDITIONS BLANK	FQ	N
ATB	Atmospheric blank		
BB	LABORATORY BUFFER BLANK		
BCKA	Anthropogenic Background Sample		
BCKAL	Anthropogenic Lite Background Sample		
BCKN	Naturally Occurring Background Sample		
BD	BLANK SPIKE DUPLICATE	LQ	Y
BDP	Blind Duplicate		
BS	BLANK SPIKE	LQ	N
DUP	Laboratory Duplicate		
EB	EQUIPMENT BLANK	FQ	N
FB	FIELD BLANK	FQ	N
FCS	Field Collocated Sample		
FD	FIELD DUPLICATE SAMPLE	FQ	Y
FR	FIELD REPLICATE	FQ	Y
FS	FIELD SPIKE	FQ	Y
FSD	FIELD SPIKE DUPLICATE		
HB	LABORATORY HOLDING BLANK (STORAGE BLANK)		
IB	INSTRUMENT BLANK		
IDW	INVESTIGATION DERIVED WASTE SAMPLE		
KD	KNOWN (EXTERNAL REFERENCE MATERIAL) DUPLICATE	LQ	N
LB	LAB BLANK	LQ	N
LCS	LAB CONTROL SAMPLE		
LCSD	Laboratory Control Sample Duplicate		
LR	LAB REPLICATE	LQ	Y
MB	MATERIAL BLANK	FQ	N
MS	LAB MATRIX SPIKE	LQ	Y

Table A-12 Sample Type

Sample_Type_Code	Description	Sample_type_class	Parent Sample Required
MSD	LAB MATRIX SPIKE AND SPIKE DUPLICATE PAIR CONSIDERED AS ONE SAMPLE	LQ	Y
N	NORMAL ENVIRONMENTAL SAMPLE	NF	N
PE	PERFORMANCE EVALUTION SAMPLE		
PS	POST SPKIE		
PUW	PURGE WATER		
RB	MATERIAL RINSE BLANK	FQ	N
RD	REGULATORY DUPLICATE	FQ	N
RM	KNOWN (EXTERNAL REFERENCE MATERIAL) RINSATE	LQ	N
SB	Storage Blank		
SD	LAB MATRIX SPIKE DUPLICATE CONSIDERD AS SEPERATE FROM SPIKE	LQ	Y
SP	SPLIT SAMPLE		
SPD	SPLIT DUP		
TB	TRIP BLANK	FQ	N
WC	Waste Characterization	NF	N

Table A-13 Field Parameter

param_code	Parameter Description
ACID	ACIDITY, TOTAL
ALKC	ALKALINITY, CARBONATE (AS CaCO3)
ALKH	ALKALINITY, HYDROXIDE (AS CaCO3)
ALKP	ALKALINITY, PHENOLPHTHALEIN
BOD20	BIOCHEMICAL OXYGEN DEMAND, 20 DAY
BOD5	BIOLOGIC OXYGEN DEMAND, FIVE DAY
COD	COD – CHEMICAL OXYGEN DEMAND
COLIF	COLIFORM
COLOR	COLOR
COUNT	COUNT
CORROS	CORROSIVITY
DENSITY	DENSITY
DIOX	TOTAL DIOXINS
DIR	WIND DIRECTION
DIS_OXYGEN	DISSOLVED OXYGEN
DOC	DISSOLVED ORGANIC CARBON
DRY	PERCENT DRY
FECCOLIFOR	FECAL COLIFORM
FLASHPT	FLASH POINT

Table A-13 Field Parameter

param_code	Parameter Description
FLIQUIDS	FREE LIQUIDS
FLOWRATE	FLOW RATE
FLUX	FLUX
FOIL	FUEL OILS
FUR	TOTAL FURANS
GHEIGHT	GAGE HEIGHT (WATER LEVEL)
GAMMA	GAMMA, GROSS
GAMMA-GELI	GAMMA SPECTRALANALYSIS, GE(LI)
GAMMASITOS	GAMMA-SITOSTEROL
HARDNESS	HARDNESS (as CaCO ₃) of WATER
HBEL	HARD BOTTOM ELEVATION BASED ON PROBING DEPTH
HNU	HNU READINGS
JP7	JET FUEL JP-7
JP8	JET FUEL #8 (JP8)
JPTS	THERMALLY STABLE JET FUEL JP(TS)
LENGTH	LENGTH
LENGTHMN	LENGTH, MIN
LENGTHMX	LENGTH, MAX
LIQLIM	LIQUID LIMIT
MOIL	MOTOR OILS
MOIST	MOISTURE, PERCENT
NDOC	NONDISSOLVED ORGANIC CARBON
ODOR	ODOR
OILGREASE	OIL & GREASE, TOTAL REC
ORP	Oxidation-Reduction Potential
OVA	ORGANIC VAPOR
PAROC	PARTICULATE ORGANIC CARBON
PENET	PENETRATION DEPTH
Ph	PH
PLASIND	PLASTICITY INDEX
PLASLIM	PLASTIC LIMIT
PRECIP	PRECIPITATION
REACTIVITY	REACTIVITY
RECOVERY	SEDIMENT RECOVERY DURING CORING
RELHUM	RELATIVE HUMIDITY
RESTOT	RESIDUE, TOTAL
SAL	SALINITY
SATURATION	% SATURATION
SC	SPECIFIC CONDUCTANCE
SED_DEP	SEDIMENT PROBING DEPTH

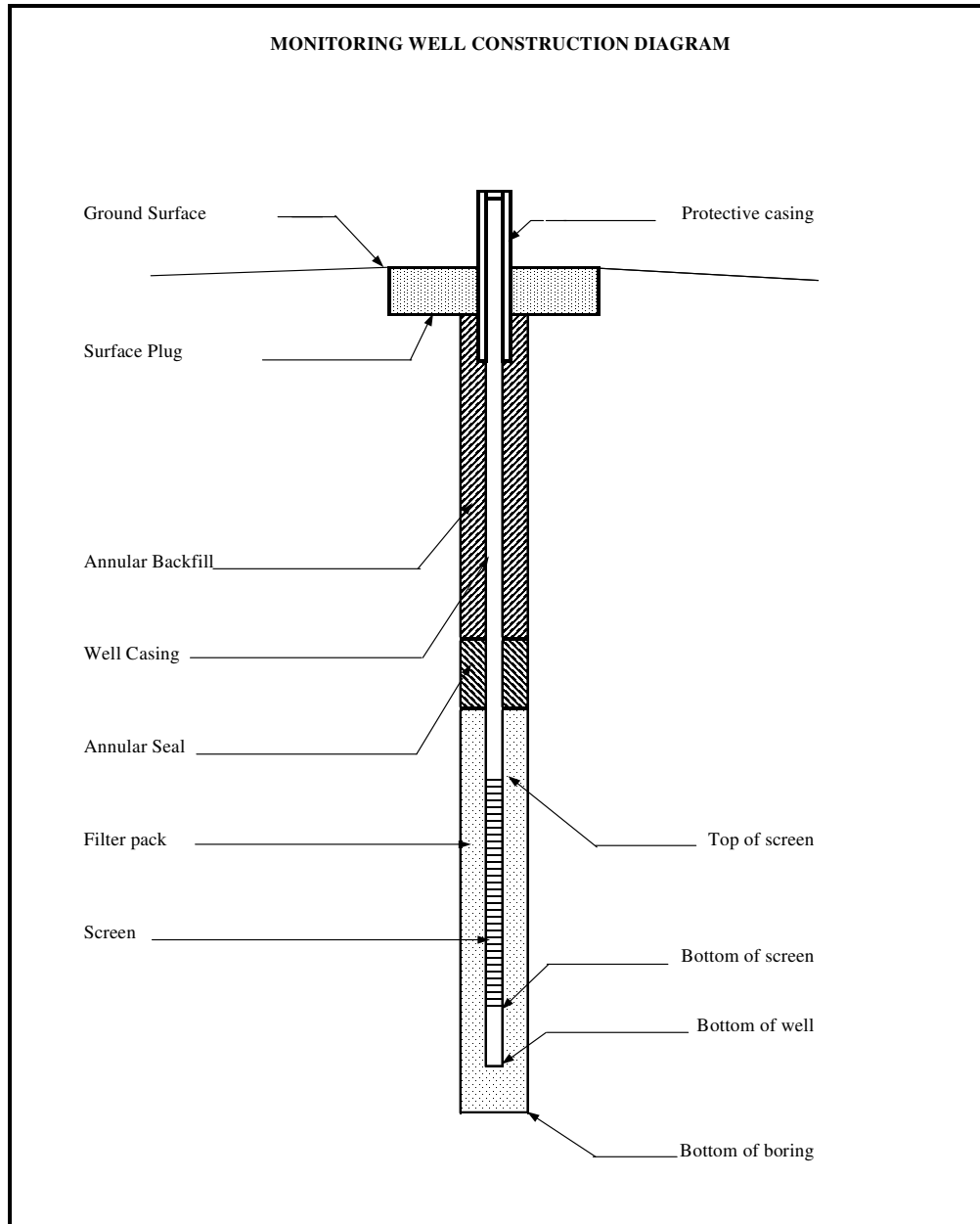
Table A-13 Field Parameter

param_code	Parameter Description
SELF POT	SELF (SPONTANEOUS) POTENTIAL
SETMAT	SETTLEABLE MATTER
SG	SPECIFIC GRAVITY
SIEVE0PT002MM	SIEVE, 0.002 MM, PERCENT PASSING
SIEVE0PT075MM	SIEVE, 0.075 MM, PERCENT PASSING
SIEVE0PT15MM	SIEVE, 0.15 MM, PERCENT PASSING
SIEVE0PT425MM	SIEVE, 0.425 MM, PERCENT PASSING
SIEVE0pt85mm	SIEVE, 0.85 mm, PERCENT PASSING
SIEVE12pt5mm	SIEVE, 12.5 mm, PERCENT PASSING
SIEVE19mm	SIEVE, 19 mm, PERCENT PASSING
SIEVE2pt00mm	SIEVE, 2.00 mm, PERCENT PASSING
SIEVE4pt75mm	SIEVE, 4.75 mm, PERCENT PASSING
SIEVE75mm	SIEVE, 75 mm, PERCENT PASSING
SIEVE9pt5mm	SIEVE, 9.5 mm, PERCENT PASSING
SOLID	SOLIDS, PERCENT
SPD	WIND SPEED
SS	SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)
TB	TOTAL BACTERIA
TDS	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)
TEMP	TEMPERATURE
TFH	TOTAL FUEL HYDROCARBONS
TFS	TOTAL FIXED SOLIDS
THICK	CAP THICKNESS
TIC	TOTAL INORGANIC CARBON
TOC	TOTAL ORGANIC CARBON
TRANS	TRANSMISSIVITY
TSO	TOTAL SOLIDS
TURB	TURBIDITY
TVO	TOTAL VOLATILE ORGANICS
TVS	TOTAL VOLATILE SOLIDS
VOIDRATIO	VOID RATIO OF SOILS
WATER_DEP	DEPTH OF WATER
WEIGHT	WEIGHT
ECO	ELECTRON CAPTURE DETECTOR
PID	PHOTOIONIZATION DETECTOR
BBUL	Brown Bullhead
NRPK	Northern Pike
PKSD	Pumpkinseed
RKBS	Rock Bass
SHIN	Spottal Shiner

Table A-13 Field Parameter

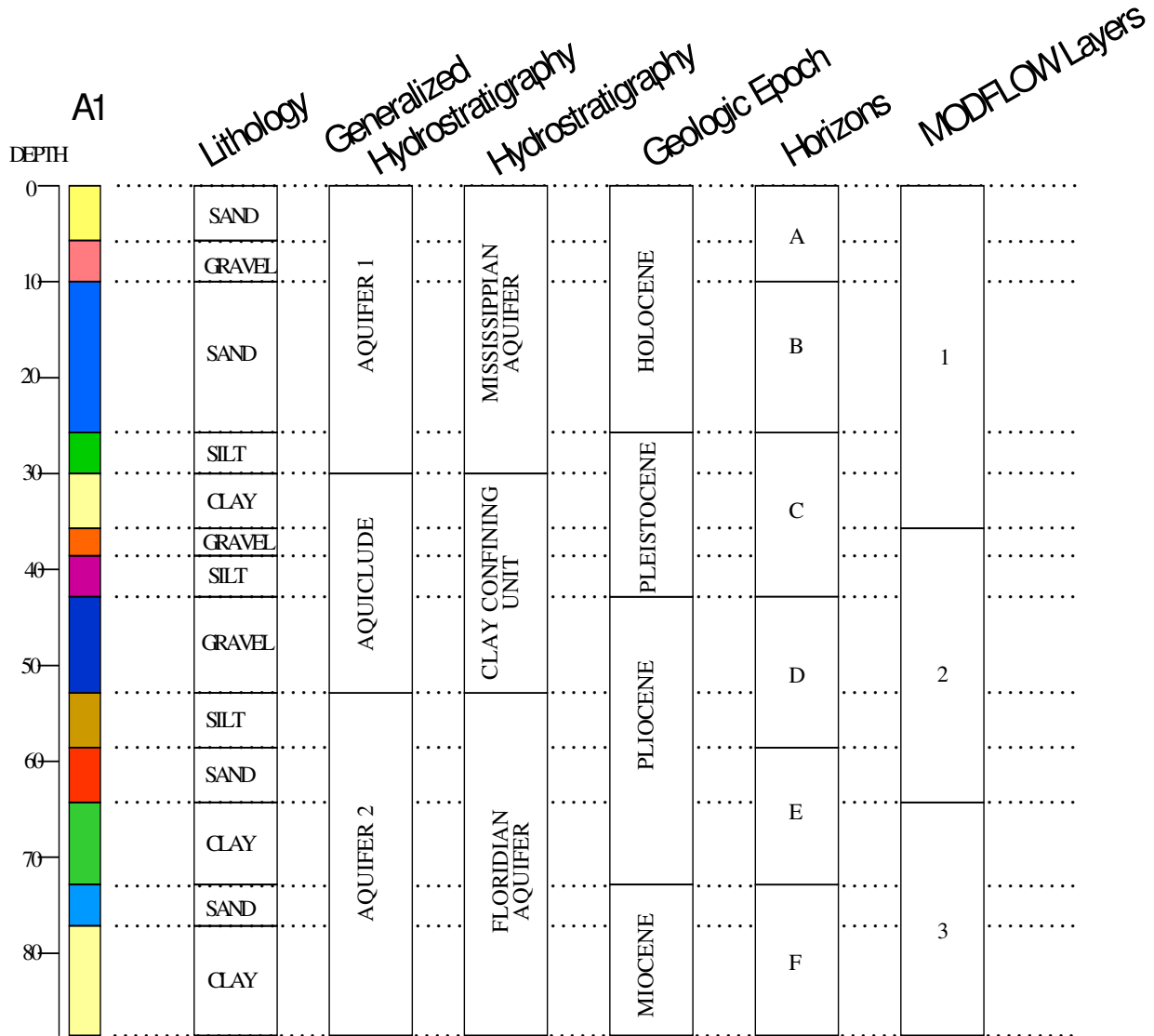
param_code	Parameter Description
SMBS	Smallmouth Bass
WLEY	Walleye
CARC	Carcass
FILL	Fillet
VISC	Viscera
WHOL	Whole fish

Figure A-1 Monitoring Well Diagram



The following figure shows the lithology and 5 possible geologic units associated with a soil boring. Data providers are requested to provide only 2 geologic units, however 5 units are shown to illustrate a number of possible geologic units.

Figure A-2 Example of Geologic Units



Please note that this depiction is entirely conceptual, and no scientific correctness in relationship between geologic units is intended. The sole purpose is to demonstrate how multiple geologic units may be utilized.