

4.6 Appendix F: Format for Batch Input of Data

Two batch formats for input of data into the water-quality file can be used in any release after NWIS 4.1. The original format uses 1 and * card images and the new format uses two tab-delimited files. The new format includes one file that contains sample-level information including a sample integer (**SINT**) that is used only to link file records between the two files. The second file contains the results and all of the result-level attributes. In the case of null values, the tabs must be provided (*i.e.*, **<TAB><TAB>**). For all fields except value qualifiers and null value qualifiers, entries will be changed to uppercase during the batch entry process. Both formats are described and examples are included in this appendix as a reference for those users who will be entering data by batch.

Sample-level information batch file format

Column order	Column name	Description	NWIS format	Mandatory field?	Null value behavior	Field can be overwritten during batch?
1	Sample Integer	Integer used only to link sample and result information between the two batch files	Not stored in NWIS	--	--	--
2	User Code	---	Not stored in NWIS	--	--	--
3	Agency_cd	Agency code	Char(5)	Y	Set to default (USGS)	N
4	Site_no	Station identification number	Char(15)	Y	Not allowed	N
5	Sample_start_dt	Sample start date	Date yyyymmddhhmmss	Y	Not allowed	N
6	Sample_end_dt	Sample end date	Date yyyymmddhhmmss	N	Set to blank	N
7	Medium_cd	Medium code	Char(1)	Y	Not allowed	N
8	Lab_id	Lab identification number	Char(7)	N	---	N
9	Project_cd	Project code	Char(9)	N	---	N
10	Aqfr_cd	Aquifer code	Char(8)	N	---	N
11	Samp_type_cd	Sample type	Char(1)	Y	Set to default (9)	N
12	Anl_stat_cd	Analysis status	Char(1)	Y	Set to default (H)	N

Column order	Column name	Description	NWIS format	Mandatory field?	Null value behavior	Field can be overwritten during batch?
13	Anl_src_cd	Analysis source	Char(1)	Y	Set to default (9)	N
14	Hyd_cond_cd	Hydrologic condition	Char(1)	Y	Set to default (9); if medium code = 6 or S, set to X	N
15	Hyd_event_cd	Hydrologic event	Char(1)	Y	Set to default (9); if medium code = 6 or S, set to X	N
16	Tissue_id	Tissue sample identifier	Char(8)	N	---	N
17	Body_part_cd	Body part code	Char(3)	N	---	N
18	Lab_smp_com	Lab sample comment	Varchar (300)	N	---	Y
19	Field_smp_com	Field sample comment	Varchar (300)	N	---	N
20	sample_tz_cd	Sample time datum	char(6)	N	Populated with sitefile setting	Y; but UTC stored time is not recomputed
21	tm_datum_rlbty_cd	Time-datum reliability code	char(1)	N	Set to default 'K'	Y

Result-level information batch file format

Column order	Column name	Description	NWIS format	Mandatory field?	Null value behavior	Field can be overwritten during batch?
1	Sample Integer	Integer used only to link sample and result information between the two batch files	Not stored in NWIS	Y	---	---
2	Parameter_cd	Parameter code	Char (5)	Y	---	---
3	Result_va	Result value	Float	N	'#' can be used to set a result to null as long as a null remark or null qualifier is present	Y
4	Remark_cd	Remark code	Char (1)	N	---	Y
5	QA_cd	Quality-assurance code	Char (1)	N	Set to default (A)	N
6	QW_method_cd	Method code	Char (1)	N	---	Y
7	Result_rd	Rounding code	Char (1)	N	---	Y
8	Val_qual_cd	Value qualifiers	Char (12)	N	---	Y
9	Rpt_lev_va	Report level	Float	N	---	Y
10	Rpt_lev_cd	Report level type	Varchar (6)	N	---	Y
11	dqi_cd	Data quality indicator	Char (1)	Y	Set to default (S)	N
12	Null_val_qual_cd	Null-value qualifier	Char (1)	N	---	Y
13	Prep_set_no	Preparation set number	Char (12)	N	---	Y
14	Anl_set_no	Analytical set number	Char (12)	N	---	Y
15	Anl_dt	Analysis date	Date	N	---	Y
16	Prep_dt	Preparation date	Date	N	---	Y
17	Lab_result_com	Laboratory result comment	Varchar (300)	N	---	Y
18	Field_result_com	Field result comment	Varchar (300)	N	---	N
19	Lab_std_dev	Laboratory standard deviation	Float	N	---	Y

1 and * card batch file format

Column	Description	Mandatory Field?	Field can be overwritten during batch?
1-card format			
1	Card type (1)	Y	---
2-16	Station number	Y	N
17	Medium code	Y	N
18-19	Begin year, last two digits	Y	N
20-21	Begin month, use leading zeros	Y	N
22-23	Begin day, use leading zeros	Y	N
24-27	Begin time (2400-hours system, use leading zeros)	Y	N
28-29	End month, use leading zeros	N	N
30-31	End day, use leading zeros	N	N
32-35	End time (2400-hours system, use leading zeros)	N	N
36-43	Geologic unit code	N	N
44	Analysis status code	N	Y
45	Analysis source code	N	Y
46	Hydrologic condition code	N	Y
47	Sample type code	N	Y
48	Hydrologic event code	N	Y
49-51	Blank	N	---
52-53	May be left blank. If so, the program will assume 19 if the year coded in column 18-19 is 50 or more and will assume 20 if the year is 49 or less	N	N
54-61	Blank	N	---
62-63	Data category (all values default to QW)	N	---
64-68	Agency Code (null will default to USGS)	Y	N
69-75	Laboratory ID	N	---
76	District processing status	N	Y
77-80	Blank	N	---

*-card format			
1	Card type (*)	N	---
2-76	<p>Free-field format for parameter description The format of the parameter description is: Pnnnnn = value (R:Q:M:P) where: nnnnn = a valid 5-digit parameter code value = the measurement for or analytical determination of the constituent identified by the parameter code. R = remark code qualifying the parameter value. Codes are listed in Appendix A. Q = Quality assurance code for the parameter values. Codes are listed in Appendix A. M = Method code identifying the NWQL method used to determine the parameter value. Codes are listed in Appendix A. P = a rounding code used when printing the parameter value with the “user”-rounding option</p>	N	N Y Y Y Y Y