



LABBUILD CODE DESCRIPTIONS

ERROR CODES

CODE	REASON	DETAILED DESCRIPTION
01	Invalid SAMP_TYPE	The sample matrix must be "S" for soil or "W" for water. Vapor data can be entered as soil (recommended if depth-sensitive) or water (recommended if date-sensitive). Vapor data can be queried uniquely through Program Code (e.g. program code of "V" for Vapor).
02	Invalid RES_CLASS	Res Class must be one of the following: "P" (primary), "B" (blanks), "C" (control sample), "S" (matrix spike), or "D" (duplicate control sample or matrix spike).
03	Invalid RES_TYPE	Res Type must be one of the following: P0# (primaries); D## (duplicates of primaries); S## (splits of primaries); R## (rinsate blanks); T## (trip blanks); F## (field blanks or field spikes); M## (method blanks); L## (lab blanks); B## (blind control samples); K## (known control samples); L## (lab spikes). [# = number between 1 and 9]
04	LAB_ID Required	Laboratory Id is a required field.
05	METH_ID Required	Method Id is a required field.
06	PF_CODE Required	Preparation Fraction is a required field.
07	LBATCH_ID Required	Lab Batch Id is required for this record.
08	Invalid TEST_ORIG	The Test_Orig should contain the res_type of the sample that was spiked. For example, a "P01" in Test_Orig indicates that a primary sample was used for the matrix spike.
09	Invalid RES_ORIG	For multiple result sets, the res_orig field identifies the result set from which this result came. For a detailed description, review the "Understanding Multiple Result Sets" help document.
10	SAMP_DATE Required	Sample Date is required for this record.
11	Invalid SAMP_TIME	The sample time is invalid. If none was provided by the laboratory, enter "00:00".
12	SAMP_DEPTH Too Precise	Sample depth is in hundredths (for feet) or thousandths (for meters).
13	Undefined PT_CODE	PT_Code, the program code, is a user-defined field and must be defined in the database.
14	Invalid FILTERED	The Filtered field indicates whether the sample was filtered in the field. Valid entries for Filtered are: "Y" (yes), "N" (no), or "U" (unknown).
15	Invalid ICED	The Iced field indicates whether the sample was iced. Valid entries for Iced are: "Y" (yes), "N" (no), or "U" (unknown).
16	Invalid PRESERVED	The Preserved field indicates the type of preservative used for the sample. Valid entries for Preserved are: "H" (HCl); "N" (HNO3); "S" (H2SO4); "U" (unknown); " " (i.e., null; for none); or "O" (other).
17	CASE_ID Required	Case Id is a user-defined field that represents the sampling event (e.g., 99Q01). Case Id is a required field.
18	BLANK_ID Required	Blank Id is the field that links Field Blanks to Primaries and is required for field blanks. We recommend that for all records that are NOT primaries or field blanks, Blank Id be left empty (LabBuild will then automatically populate these fields with internal values).
19	Undefined PRIME_LAB	The Prime_Lab field is only required for Split records and indicates the laboratory that tested the primary sample.
20	ALIAS_NUM Required	Alias number is a required field. Run the LabBuild "CAS Reconciliation" to resolve this error.
21	Embedded Space in C_UNIT	There must be no spaces for chemistry units.
22	Invalid CONC	Valid characters include numbers, "E" (scientific notation); "+" (greater than); and "+/-" (uncertain). Concentrations should be empty if below the limit.
23	Invalid LIMIT_1	Valid characters include numbers, "E" (scientific notation), and "?" (unknown).
24	Invalid LIMIT_2	Valid characters include numbers, "E" (scientific notation), and "?" (unknown).
25	Negative DUP_RPD	The Duplicate RPD value cannot be negative.

ERROR CODES (continued)

CODE	REASON	DETAILED DESCRIPTION
26	Negative SPLIT_RPD	The Split RPD value cannot be negative.
27	DILUTION 0 or Negative	Dilution cannot be 0 or negative.
28	Invalid BASIS	Basis can be "W" (wet) or "D" (dry). This is required for soil results.
29	Negative MOISTURE	Moisture cannot be negative.
30	Invalid S_CONC	Valid characters include numbers, "E" (scientific notation); "+" (greater than); and "+/-" (uncertain). Concentrations should be empty if below the limit.
31	Invalid T_CONC	Valid characters include numbers, "E" (scientific notation); "+" (greater than); and "+/-" (uncertain). Concentrations should be empty if below the limit.
32	Invalid R_CONC	Valid characters include numbers, "E" (scientific notation); "+" (greater than); and "+/-" (uncertain). Concentrations should be empty if below the limit.
33	Negative RECOVER	Recovery cannot be negative.
34	SPIKE_DUP (Data & No Flag)	The D_CONC, D_RECOVER, and RPD fields are populated, yet the record is not indicated as a spike or control sample duplicate. These fields should be empty (or zero) for all primaries, primary duplicates, primary splits, and blanks.*
35	Invalid D_CONC	Valid characters include numbers, "E" (scientific notation); "+" (greater than); and "+/-" (uncertain). Concentrations should be empty if below the limit.*
36	Negative D_RECOVER	The duplicate recovery cannot be negative.*
37	Negative RPD	The RPD cannot be negative.*
38	Negative B_RECOVER	The lower percent recovery goal cannot be negative.*
39	Negative E_RECOVER or Below B_RECOVER	The upper percent recover goal cannot be negative and must be greater than the lower percent recovery goal.*
40	Negative MAX_RPD	The maximum allowable RPD cannot be negative.*
41	Unknown CR_C	The CLP code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
42	Unknown CR_M	The CLP code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
43	Unknown CR_Q1	The CLP code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
44	Unknown CR_Q2	The CLP code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
45	Unknown CR_Q3	The CLP code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
46	Unknown ER_Q1	The Expert Review code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
47	Unknown ER_Q2	The Expert Review code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
48	Unknown ER_Q3	The Expert Review code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
49	Unknown ER_R1	The Expert Review code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
50	Unknown ER_R2	The Expert Review code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
51	Unknown ER_R3	The Expert Review code has not been defined in the database (Chemistry - Lists and Codes - Review Codes).
52	RECEIVED before SAMP_DATE	The Sample Date/Time must be before or the same as the Received Date/Time
53	Invalid RECEIVED and/or REC_TIME	The Received Date/Time are invalid characters. Dates must be in MM/DD/YYYY format. Times must be in HH:MM format.
54	PREPARED before RECEIVED / SAMP_DATE	The Prepared Date/Time must be after or the same as the Received and Sample Date/Time
55	Invalid PREPARED and/or PREP_TIME	The Prepared Date/Time are invalid characters. Dates must be in MM/DD/YYYY format. Times must be in HH:MM format.
56	TESTED before PREPARED / RECEIVED / SAMP_DATE	The Tested Date/Time must be after or the same as the Prepared, Received, and Sample Date/Time.
57	Invalid TESTED and/or TEST_TIME	The Tested Date/Time are invalid characters. Dates must be in MM/DD/YYYY format. Times must be in HH:MM format.
58	RMETH_ID Required	A radiological method id is required for this record.

ERROR CODES (continued)

CODE	REASON	DETAILED DESCRIPTION
59	Embedded Space in R_UNIT	There must be no spaces in radiological chemistry units.
60	Invalid R_CONC	Valid characters include numbers, "E" (scientific notation); "+" (greater than); and "+/-" (uncertain). Concentrations should be empty if below the limit.
61	Invalid UNCERT_1	Invalid uncertainty for radiological data.
62	Invalid UNCERT_2	Invalid uncertainty for radiological data.
63	Invalid RLIMIT_1	Valid characters include numbers, "E" (scientific notation), and "?" (unknown).
64	Invalid RLIMIT_2	Valid characters include numbers, "E" (scientific notation), and "?" (unknown).
65	Invalid RLIMIT_3	Valid characters include numbers, "E" (scientific notation), and "?" (unknown).
66	Unknown LR_Q1	The laboratory qualifier for radiological data has not been defined in the database.
67	Unknown LR_Q2	The laboratory qualifier for radiological data has not been defined in the database.
68	Unknown LR_Q3	The laboratory qualifier for radiological data has not been defined in the database.
69	SAMP_DEPTH Out of Sampling Range	Sample Depth must be between the S_Depth (starting depth of the chemistry sample) and E_Depth (ending depth).
70	S_DEPTH Greater than E_DEPTH	The Starting Depth of the chemistry sample must be below or the same as the Ending Depth.
71	Undefined CAS_NUM	CAS number is a required field. Run the LabBuild "CAS Reconciliation" to resolve this error.
72	Invalid LM_CODE	The LM_Code field should generally be "A" for LabBuild.
73	Invalid APPROVED	The Approved Date is invalid. Dates must be in MM/DD/YYYY format.
74	Invalid REPORTED	The Reported Date is invalid. Dates must be in MM/DD/YYYY format.
75	SITE_ID contains invalid character(s)	Site Ids must follow naming rules for folders/filenames in Windows (no slashes, quotes, periods, commas, etc.). Site Ids can contain dashes.
76	PT_CODE Mismatched with Project	This sample is already in the Project Database with a different Program Code. Each sample can only have one Program Code. Change the Program Code for this sample to match that which is in the Project Database.
80	Lab Batch and Blank Ids mismatched.	For Method and Lab Blanks, the Blank Id must be the same as the Lab Batch Id. If Blank Id is empty, LabBuild will automatically populate the Blank Id field for these records.
81	SDG and Blank IDs Mismatched	For Rinsate Blanks, the Blank Id must be the same as the SDG_ID field. If Blank Id is empty, LabBuild will automatically populate the Blank Id field for these records.
82	Custody and Blank IDs Mismatched	For Trip Blanks, the Blank Id must be the same as the CUSTODY field. If Blank Id is empty, LabBuild will automatically populate the Blank Id field for these records.
99	No Parent in Current Dataset or Project	LabBuild cannot find an associated record. For example, if this is a primary duplicate record, LabBuild cannot find an associated primary record with the same SAMP_TYPE + SITE_ID + SAMP_DATE + SAMP_TIME + SAMP_DEPTH + IS_SURROG + LAB_ID + METH_ID + PF_CODE + CAS_NUM.

* For spike and control sample records, lsamp_id2, samp_id2, spike_dup, d_conc, d_recover, rpd, b_recover, e_recover, max_rpd may be derived from the duplicate record (e.g, the DL11 record for a spike duplicate). When LabBuild loads the EDD, it copies the data in these fields from the duplicate record into the original spike (e.g. SL11) or control sample, and then marks the duplicate record as deleted. Therefore, to change the values in these fields, it may be necessary to edit the deleted duplicate record. You can view the deleted records by unhiding "Deleted" records (in Browse/View Options).

WARNING CODES

CODE	REASON	DETAILED DESCRIPTION
01	Undefined PF_CODE (Project)	The preparation fraction has not been defined in the Project Database (Chemistry - Lists and Codes - Preparation Fractions). LabBuild will add this preparation fraction code to the Project Database.
02	Unknown SITE_ID (Project)	The Site_Id has not been defined in the Project Database (Shared - Sample Sites). LabBuild will import this Site_Id with coordinates of 0 and as an unidentified borehole (map symbol of GISK-L99)
03	Undefined PT_CODE (Project)	The program code has not been defined in the Project Database (Shared - Program Codes). LabBuild will add this program code to the Project Database.
04	Unknown CAS_NUM (Shared)	The CAS Number supplied by the laboratory is not in the database. This CAS Number will be added to the database.
05	Unknown COMP_NAME (Shared)	The name of the compound provided by the laboratory (Lab_chem) does not exactly match any compound aliases in the database. GISKey tracks compounds by CAS_Number. Therefore, this warning can generally be ignored unless the reported compound name must be exactly the same as that reported by the laboratory.
06	Undefined/Unknown C_UNIT	The units cannot be converted to a standard ppm or ppb. This is expected for some compounds (e.g. pH, conductivity, coliform). Any non-standard units can be used in the Project Database, but must be the same for a specific compound (primary results and action levels).
07	Undefined/Unknown R_UNIT	The units cannot be converted to a standard ppm or ppb. This is expected for some compounds (e.g. pH, conductivity, coliform). Any non-standard units can be used in the Project Database, but must be the same for a specific compound (primary results and action levels).
08	Undefined LM_CODE (Project)	LM_Code should generally be "A" for LabBuild.
12	Negative RECOVER	The Recovery is negative, but will be imported as is.
13	Negative D_RECOVER	The Duplicate Recovery is negative, but will be imported as is.
14	Negative RPD	The RPD is negative, but will be imported as is.
20	SAMP_DATE Year Before 1990	Check for possible Y2K issues. Dates must be in MM/DD/YYYY format to eliminate any Y2K issues.
21	RECEIVED Year Before 1990	Check for possible Y2K issues. Dates must be in MM/DD/YYYY format to eliminate any Y2K issues.
22	PREPARED Year Before 1990	Check for possible Y2K issues. Dates must be in MM/DD/YYYY format to eliminate any Y2K issues.
23	TESTED Year Before 1990	Check for possible Y2K issues. Dates must be in MM/DD/YYYY format to eliminate any Y2K issues.
24	APPROVED Year Before 1990	Check for possible Y2K issues. Dates must be in MM/DD/YYYY format to eliminate any Y2K issues.
25	REPORTED Year Before 1990	Check for possible Y2K issues. Dates must be in MM/DD/YYYY format to eliminate any Y2K issues.
90	Dataset Duplicate	Two or more records appear to be identical (same SAMP_TYPE + SITE_ID + SAMP_DATE + SAMP_TIME + SAMP_DEPTH + IS_SURROG + LAB_ID + METH_ID + PF_CODE + CAS_NUM). LabBuild will only import the first record.