

C. Appendix A: Lab EDD Critical Error Check

All LDD and FDD critical errors must be corrected before running the Regulatory Comparison Report or exporting data to REDD. Critical errors include some but not all of the required field checks of error code 0001 and the valid value checks of error code 0002.

The 0001 error codes are critical if the EDD is missing values in the following fields:

Client_Sample_ID

Matrix_ID

Client_Analyte_ID

Analyte_Type

Lab_Analysis_Ref_Method_ID

Lab_Sample_Id

Analyte_Name

QC_Type

Analysis_Type

PrepBatch_ID

MethodBatch_ID

The 0002 error codes are critical if the EDD has invalid values in the following fields:

Matrix_ID

Lab_Analysis_Ref_Method_ID

Combine values of Matrix_ID and Lab_Analysis_Ref_Method_ID

Client_Analyte_ID

Analyte_Name

Any other required fields with null entries or valid value fields with invalid values (codes) not listed above are not considered to be critical errors.

- Note: If critical errors occur, the LDD error check will not run all checks because missing or invalid values in these fields can cause false errors. When critical errors occur, the user is asked to correct these and re-run the error check.

D. Appendix B: Summary of non-Critical Lab EDD Errors

DEP Staff will review actions for the most common errors.

Error	Field	Error Description	Action/Discussion
0001	DateCollected	The "DateCollected" field is missing information in this record.	Return to the lab. The DateCollected is needed to evaluate sample holding times and exceedances.
0001	PercentRecovery	The "PercentRecovery" field is missing information in this record.	Is there a comment that percent recovery is not reportable due to a high level of analyte in the matrix? YES - No action is required. NO - Check for an LCS recovery. If there is no LCS recovery then return to the lab to include LCS data or an explanation.
0001	PreservationIntact	The "PreservationIntact" field is missing information in one or more records.	Has a Y qualifier been assigned? YES - If the results are below any applicable criteria, the data needs to be further evaluated by QA. If the results are above any applicable criteria, the data is usable. NO - Return the LDD back to the lab for an explanation.
0001	RelativePercentDifference	The "RelativePercentDifference" (RPD) field is missing information in this record.	Is there a comment that they did not identify duplicates, so they cannot calculate the RPD? YES - No action is required. NO - Return to the lab to include LCS data or an explanation.

Error	Field	Error Description	Action/Discussion
0002	LabID	The value 'ORL' entered in the LabID field of one or more records is invalid. Please enter the NELAC Lab ID standard value in this field.	Return to the lab for correction.
0002	PreparationType	The value '3510C' entered in the PreparationType field of this record is invalid. Please enter one of the standard values required for this field.	If the prep method is appropriate and not in the standard values table, notify QA or DEP for additions to the standard value table. If the prep method is inappropriate, return to the lab for corrections or retest.
0002	ProjectName	The value 'CENTRAL DISPOSAL' entered in the ProjectName field of one or more records is invalid. Please enter one of the standard values allowed in this field.	The lab or consultant must update their facility testsite inventory, use the ProjectName for the specific ProjectNumber (Facility Number) found in the Projects tab in the ADaPT valid values.
0002	ProjectNumber	The value 'LOWP' entered in the ProjectNumber field of one or more records is invalid. Please enter one of the standard values allowed in this field.	If the Project Number does not match the Facility ID, FDEP Databases export will fail. The lab or consultant must update their facility testsite inventory, to ensure their Facility ID is correct, or contact DEP to update the FDEP Databases facility records.
0002	ResultUnits	The ResultUnits 'ug/L' reported in this record are incorrect for Sodium in MatrixID AQUEOUS-Other analyzed by method EPA 6010 according to the project library for this method and matrix ID equivalent.	ADaPT's Regulatory Comparison report will not function and ADaPT will not be able to assign the proper STORET code upon export to FDEP Databases and export will fail. Return the LDD to the lab for correction.
0003	Result	The value 'ND' entered in the Result field of this record is not numeric. Only numeric characters can be entered in this field.	ADaPT will not be able to export non-numeric results to FDEP Databases. Return the LDD to the lab for correction. All field measured parameters must be reported in the FDD.
0006	DetectionLimit, ReportingLimit, and LabQualifiers	The Result value of 0.5 ug/L does not equal the Detection Limit value of 0.4 ug/L in this record but the Lab Qualifiers field contains U.	Is the PQL greater than any applicable criteria or standards? YES - Return the LDD to the lab for justification of the elevated MDL. If this causes the PQL to exceed the criteria or standards, then send back to consultant/permittee to resample or back to the lab to retest depending on analyte hold times. NO - Data is usable.

Error	Field	Error Description	Action/Discussion
0006	LabQualifiers and ResultComments	The LabQualifiers field contains J but the ResultsComment field in this record is missing a comment.	Return the LDD to the lab for the missing comments.
0007	ReportingLimit	The 1,2-Dibromo-3-Chloropropane Reporting Limit value of 0.20 ug/L reported in this record for Method EPA 504.1 in Matrix AQUEOUS-Groundwater exceeds the project library reporting limit of 0.1 ug/L (corrected for dilution, if applicable).	Error due to differences in the lab project library and Division of Waste Management Master Library. Is the PQL (RL) greater than any applicable criteria or standards? YES – Return to consultant/permittee to resample or return to lab to retest depending on the analyte hold times. NO - No action is required.
0008	DatePrepared and DateAnalyzed	The DateAnalyzed precedes the DatePrepared in one or more records where ClientSampleID = MW-H-S and LabAnalysisRefMethodID = EPA 300.0 (Sulfate).	EDD must be returned to the lab for correction and resubmitted.
0008	DateCollected and DateAnalyzed	The DateAnalyzed precedes the DateCollected in one or more records where ClientSampleID = MW-H-S and LabAnalysisRefMethodID = EPA 300.0 (Sulfate).	EDD must be returned to the lab for correction and resubmitted.
0009	Duplicate records	Two different MethodBatchIDs are reported among those records where ClientSampleID = MW-27S, Method = EPA 8260, AnalysisType = RES, TotalOrDissolved = TOT.	No action required.
0011	Missing record	A method blank result is missing for Radium-228 analyzed by method RA05 in Prep Batch ID: rad228 with the same matrix equivalent as samples reported in this QC batch and method.	No action required. All sample results < 10X the method Blank contamination will be “J” qualified with the comment that there is contamination in the Method Blank that may affect results.
0012	Missing record(s)	The LCSD for method 'EPA 6010' in Prep Batch 62864 is missing Arsenic, CAS# (7440382) as a spike. This spike must be reported based on the project library and analytes reported among samples in this batch.	Are there MS and MSD recoveries or an MS and a QC Dup (above the PQL) reported? Either QC pair may substitute.

Error	Field	Error Description	Action/Discussion
0013	Missing record(s)	No Matrix Spike results with a matrix equivalent to Water are reported in Method Batch 0 for method EPA 351.2.	The lab is required to report accuracy QC data such as MS/MSDs, if this data is not reported, make sure the lab has an appropriate comment. Too little sample to spike or the QC sample results were high and the Matrix Spike was buried.
0014	Missing record(s)	No Lab Duplicate results (where QCType = DUP) are reported for method EPA 300.0 (Chloride) and matrix equivalent to Water in MethodBatchID 8121159.	The lab is required to report precision data, either; QC sample and QC duplicates, LCS and LCSDs or MS and MSDs. There should be an appropriate comment as to why this data was not reported. Inform the lab they must report all required QC in the future.
0015	Missing record(s)	Sample 'RW1S-5' analyzed by method 'EPA 8260' and matrix Water does not report any surrogates required by the project library.	Surrogate results must be reported. If surrogate results are reported, make sure all LabSampleID field entries are the same for each ClientSampleID.
0018	Extra record(s)	LCS and/or LCSD reported for Method SM18 2320 B and Matrix AQUEOUS-Other but the project library does not require a LCS for this method and matrix equivalent.	Are these miss-identified MS and MSD samples? Are MS and MSD samples reported along with the QC sample and QC sample duplicates? If required, QC is missing. Return to the lab.
0019	Missing Record	Missing a parent sample record for Carbon-Total Organic, which was reported as a spiked analyte in BARNS RESIDENC EMS analyzed by method EPA 415.1. A parent sample record for Carbon-Total Organic analyzed by this method should be reported in ClientSampleID.	Improper identification of QC sample. Return to the lab for correction. All non-project QC sample results must be reported; they can be reported anonymously using the lab SampleID or indicating non-project QC in some other manner (BatchQC, for example).

E. Appendix C: Summary of Error Codes during FDEP Databases export

Error Code	Description	ADaPT's Action	User Action
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01	Critical required fields missing information in LDD	FDEP Databases upload disabled	Correct and try FDEP Databases upload again
02	Critical valid value fields with wrong values in LDD	FDEP Databases upload disabled	Correct and try FDEP Databases upload again
03	Errors exist in FDD	FDEP Databases upload disabled	Correct and try FDEP Databases upload again
04	Project Number in LDD not reported as WACS_Facility_ID in the FDD or vice versa	FDEP Databases upload disabled	Correct and try FDEP Databases upload again
05	Sample/Date reported in FDD not reported in LDD	FDEP Databases upload disabled	Correct and try FDEP Databases upload again
06	ClientSampleID and/or Sample/date reported in LDD not reported in FDD but this sample is a QC parent sample	FDEP Databases upload enabled in the absence of error numbers 01 through 05. User is informed these are parent QC samples not in FDD and that FDEP Databases upload will not include these samples	Proceed with upload if samples are not part of the project. If they are part of the project fix by modifying the FDD to include these sample then try FDEP Databases upload
07	ClientSampleID and/or Sample/date reported in LDD not reported in FDD and sample is not a QC parent sample	FDEP Databases upload allowed in the absence of error numbers 01 through 05. User is informed these are samples not in FDD and that FDEP Databases upload will not include these samples	Proceed with upload if samples are not part of the project. If they are part of the project fix by modifying the FDD to include these sample then try FDEP Databases upload
10	One or more of the following field(s) in the field EDD contain duplicate information: Monitoring_Testsite_ID Monitoring_Testsite_Name	FDEP Databases upload allowed in the absence of error numbers 01 through 05. User is informed of potential duplicate records created in the FDEP Databases export file	Run the "Shoe/View Error 10 Code" report. Make sure Testsite IDs and Testsite_Names match, proper Report Types are used for Field Duplicate, Confirmation and Re-

	Date_Sampled Report_Type		samples, and that the WACS_Testsite_Name for these samples are uniquely identified
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The FDD Error Check uses the same error codes as the LDD Error Check, but does NOT have critical errors. Instead, ADaPT prevents the upload of the FDD in these cases, but provides a report listing the problem.