



Locus EIM Standard EDD SPECIFICATION

EIM 53

As with all data types, EIM has standard EDD upload formats which are required for loading data into the database. Due to the nature and complexity of laboratory analytical data, Locus has developed a comprehensive EDD format that helps projects capture all required data from laboratory analysis. Additionally, Locus has developed a second EDD format to assist in collecting data in California that have special requirements for Geotracker.

EIM Standard 53

The format has the following characteristics:

- ◇ The file has to be an ASCII file with no header or footer and with each record alike with respect to format.
- ◇ Every analytical result is represented by a single record.
- ◇ No field should be enclosed in quotation marks.
- ◇ Every field must be separated by a semi-colon.
- ◇ The column titled VVL represents if a data field contains lookup valid values. These values are provided in the valid value section of Locus EIM.
- ◇ Each record (last record excluded) must be terminated with a carriage return.
- ◇ Required fields are in bold.



EIM 53 EDD Format

Field	Field Name	Length	VVL	Field Contents
1	<i>FIELD_SAMPLE_ID</i>	C25	No	Field Sample number or identifier. Must be left blank for lab-originated samples (e.g., lab control samples, method blanks, blank spikes, etc.). Should be populated for lab duplicates and matrix spikes and duplicates (if the sample that is spiked is the client sample).
2	LAB_ID	C10	Yes	Code or identifier for a lab. Has list of values.
3	ANALYTICAL_METHOD	C30	Yes	Analytical method used. Has list of values.
4	ANALYSIS_DATE	Date	No	Date of analysis, MM/DD/YYYY or DD-MON-YY
5	PARAMETER_CODE	C12	Yes	Analyte CAS Number or other code (for those parameters that do not have a CAS Number).
6	RESULT_TYPE_CODE	C5	Yes	Code identifying the type of result (Target, TOC, Surrogate, Spike, etc.). Has list of values.
7	<i>LAB_RESULT</i>	C10	No	Analytical result (see also Field #53 BASIS). Required of all samples except surrogates and spikes. If not detected, enter the laboratory reporting limit here. If detected above the MDL and below the reporting limit, enter the result in this field and a "J" in Field #13. Some facilities may specify reporting only to the reporting limit and not to the MDL. For these cases, enter the laboratory reporting limit and a "U" flag in Field #13 if the result is below the laboratory reporting limit.
8	LAB_UNITS	C10	Yes	Unit of measure of the result. Has list of values. Enter the units associated with the entry in the LAB_RESULT or SPIKED_RESULT column
9	<i>LAB_REPORTING_LIMIT</i>	C10	No	Actual reporting limit realized by the lab, adjusted for preparation, dilution, etc. Required for all non-spiked samples.
10	LAB_MATRIX	C10	Yes	Matrix of sample as analyzed by the lab. Has list of values.
11	LAB_SAMPLE_ID	C20	No	Internal ID assigned by lab to a sample.
12	ANALYSIS_TIME	Time	No	Time of analysis (HH:MM), military time.
13	LAB_QUALIFIER	C10	No	Laboratory qualifier.

Field	Field Name	Length	VVL	Field Contents
14	<i>RETENTION_TIME</i>	Time	No	Retention time (MM:SS), required for TICS only. For others enter NA or leave blank.
15	<i>DILUTION_FACTOR</i>	C7	No	Dilution factor if the sample was diluted.
16	PREP_METHOD	C20	No	Preparation method (if applicable)
17	PREP_DATE	Date	No	Date of preparation MM/DD/YYYY (if applicable)
18	ANALYSIS_LOT_ID	C20	No	Laboratory analysis batch number or ID.
19	PREP_AMOUNT	C10	No	Amount of sample used in the preparation.
20	PREP_UNITS	C10	No	Unit or measure of sample preparation amount. Has list of values.
21	PREP_AMT_BASIS	C5	No	The basis of the weight of the amount of the sample prepared: W or D are the only valid values.
22	SAMPLE_DELIVERY_GROUP	C20	No	Laboratory sample delivery group.
23	LAB_BLANK_SAMPLE_ID	C20	No	ID of laboratory method blank that is associated with the sample identified in the FIELD_SAMPLE_ID and/or LAB_SAMPLE_ID fields. Can be left blank if only one method blank is run with a given prep or analysis lot,
24	ERROR	C10	No	+/- 2-sigma error (pertains to radiological results only)
25	PARAMETER_NAME	C60	No	Name of parameter. Any correct synonym is acceptable.
26	ANALYSIS_TYPE_CODE	C5	Yes	Coded value specifying type of analysis (e.g., Initial, Reanalysis, Re-extraction, Dilution, etc.). Has list of values.
27	FILTERED_FLAG	C1	Yes	Flag to identify whether sample was filtered or not. The only valid values are Y or N.
28	LEACHED_FLAG	C1	Yes	Flag to identify whether sample was leached prior to being analyzed. The only valid values are Y and N.
29	LEACHATE_METHOD	C20	No	Method used to leach a sample (if applicable)
30	LEACHATE_DATE	Date	No	Sample leachate date MM/DD/YYYY (if applicable)
31	LEACHATE_TIME	Time	No	Sample leachate time (if applicable) HH:MM, military time.
32	SAMPLE_PREP_LOT_ID	C20	No	Laboratory prep lot number or ID (if applicable).

Field	Field Name	Length	VVL	Field Contents
33	LEACHATE_LOT_ID	C20	No	Laboratory leachate lot number or ID (if applicable)
34	PREP_TIME	Time	No	Time of preparation HH:MM (if applicable).
35	METHOD_DETECTION_LIMIT	C10	No	Method detection limit.
36	<i>SAMPLE_DATE</i>	Date	No	Date sample was created in the lab: MM/DD/YYYY, Should be left blank for field originated samples (see discussion below for SAMPLE_PURPOSE)
37	<i>SAMPLE_PURPOSE</i>	C5	Yes	Coded value identifying purpose of the sample. Should be populated only for lab originated QC samples (e.g., Lab Control Samples, Lab Control Sample Duplicates, Blank Spikes, Blank Spike Duplicates, Method Blanks, Lab Duplicates or Replicates, etc.) or lab-transformed samples (e.g., Matrix Spikes and Duplicates). Has list of values.
38	<i>ORIGINAL_LAB_RESULT</i>	C10	No	The concentration of the analyte in the original (unspiked) sample. Should be populated only for matrix spikes and duplicates.
39	SPIKE_ADDED	C10	No	Amount of spike added to sample. Applicable only to spiked samples or surrogates.
40	SPIKED_RESULT	C10	No	Concentration of the analyte in the spiked sample. Applicable only to spiked samples or surrogates.
41	<i>SPIKE_RECOVERY</i>	C10	No	Percent recovery. Applicable only to spiked samples or surrogates.
42	RPD	C10	No	Calculation of relative percent difference (applicable only to matrix spike duplicates, lab control sample duplicates, blank spike duplicates, and lab replicates or duplicates).
43	<i>RPD_LIMIT</i>	C10	No	Upper limit for RPD (percent) (applicable only to matrix spike duplicates, lab control sample duplicates, blank spike duplicates, and lab replicates or duplicates).
44	<i>UPPER_LIMIT</i>	C10	No	Upper spike recovery control limit (in percent). Applicable to surrogates or spiked samples only.
45	<i>LOWER_LIMIT</i>	C10	No	Lower spike recovery control limit (in percent). Applicable to surrogates or spiked samples only.
46	LAB_ARRIVAL_DATE	Date	No	Date that the sample arrived at the lab (mm/dd/yyyy). Applicable to field samples only.



Field	Field Name	Length	VVL	Field Contents
47	LAB_ARRIVAL_TIME	Time	No	Time that the sample arrived at the lab (HH:MM). Applicable to field samples only.
48	HARD_COPY_DUE_DATE	Date	No	Hardcopy lab report due date.
49	RUSH_TAT	C1	No	Specify if sample was submitted as "Rush" – valid values for this field are Y and N.
50	EDD_DUE_DATE	Date	No	Date (mm/dd/yyyy) the EDD (electronic data deliverable) is due.
51	SUBCONTRACT	C1	No	Enter Y (Yes) if analysis was performed by a subcontractor lab. Otherwise, field can be left blank.
52	SUBCONTRACT_LAB_ID	C10	Yes	Code or identifier for the subcontract lab. Has list of values.
53	BASIS	C3	No	Basis for reporting the result. Has list of values.
<i>Notes:</i> <i>a. Fields in Bold Regular font are required for all records (e.g., LAB_ID).</i> <i>b. Fields in Italic font are required for various subsets of samples and/or analyses.</i> <i>c. Fields In Regular font are optional.</i>				

Have Questions? Contact Locus at info@locustec.com for more information and how to use this EIM EDD format with your selected analytical laboratory.