

The format of 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. Each record (last record excluded) must be terminated with a carriage return. Required fields are in **bold**. The record format is defined as follows:

Field	Field Name	Length	Field Contents
1	<i>FIELD_SAMPLE_ID</i>	C25	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	<b>LAB_ID</b>	C10	Code or identifier for a lab. Has list of values.
3	<b>ANALYTICAL_METHOD</b>	C30	Analytical method used. Has list of values.
4	<b>ANALYSIS_DATE</b>	Date	Date of analysis, MM/DD/YYYY or DD-MON-YY
5	<b>PARAMETER_CODE</b>	C12	Analyte CAS Number or other code (for those parameters that do not have a CAS Number).
6	<b>RESULT_TYPE_CODE</b>	C5	Code identifying the type of result (Target, TOC, Surrogate, Spike, etc.). Has list of values.
7	<i>LAB_RESULT</i>	C10	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	<b>LAB_UNITS</b>	C10	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	Actual reporting limit realized by the lab, adjusted for preparation, dilution, etc. Required for all non-spiked samples.
10	<b>LAB_MATRIX</b>	C10	Matrix of sample as analyzed by the lab. Has list of values.
11	<b>LAB_SAMPLE_ID</b>	C20	Internal ID assigned by lab to a sample.
12	<b>ANALYSIS_TIME</b>	Time	Time of analysis (HH:MM), military time.
13	LAB_QUALIFIER	C10	Laboratory qualifier.
14	<i>RETENTION_TIME</i>	Time	Retention time (MM:SS), required for TICS only. For others enter NA or leave blank.

Field	Field Name	Length	Field Contents
15	<i>DILUTION_FACTOR</i>	C7	Dilution factor if the sample was diluted.
16	PREP_METHOD	C20	Preparation method (if applicable)
17	PREP_DATE	Date	Date of preparation MM/DD/YYYY (if applicable)
18	<b>ANALYSIS_LOT_ID</b>	C20	Laboratory analysis batch number or ID.
19	PREP_AMOUNT	C10	Amount of sample used in the preparation.
20	PREP_UNITS	C10	Unit or measure of sample preparation amount. Has list of values.
21	PREP_AMT_BASIS	C5	The basis of the weight of the amount of the sample prepared: W or D are the only valid values.
22	<b>SAMPLE_DELIVERY_GROUP</b>	C20	Laboratory sample delivery group.
23	LAB_BLANK_SAMPLE_ID	C20	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	+/- 2-sigma error (pertains to radiological results only)
25	<b>PARAMETER_NAME</b>	C60	Name of parameter. Any correct synonym is acceptable.
26	<b>ANALYSIS_TYPE_CODE</b>	C5	Coded value specifying type of analysis (e.g., Initial, Reanalysis, Re-extraction, Dilution, etc.). Has list of values.
27	<b>FILTERED_FLAG</b>	C1	Flag to identify whether sample was filtered or not. The only valid values are Y or N.
28	<b>LEACHED_FLAG</b>	C1	Flag to identify whether sample was leached prior to being analyzed. The only valid values are Y and N.
29	LEACHATE_METHOD	C20	Method used to leach a sample (if applicable)
30	LEACHATE_DATE	Date	Sample leachate date MM/DD/YYYY (if applicable)
31	LEACHATE_TIME	Time	Sample leachate time (if applicable) HH:MM, military time.
32	SAMPLE_PREP_LOT_ID	C20	Laboratory prep lot number or ID (if applicable).
33	LEACHATE_LOT_ID	C20	Laboratory leachate lot number or ID (if applicable)
34	PREP_TIME	Time	Time of preparation HH:MM (if applicable).
35	METHOD_DETECTION_LIMIT	C10	Method detection limit.
36	<i>SAMPLE_DATE</i>	Date	Date sample was created in the lab: MM/DD/YYYY, Should be left blank for field originated samples (see discussion below for SAMPLE_PURPOSE)

Field	Field Name	Length	Field Contents
37	<i>SAMPLE_PURPOSE</i>	C5	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	The concentration of the analyte in the original (unspiked) sample. Should be populated only for matrix spikes and duplicates.
39	<i>SPIKE_ADDED</i>	C10	Amount of spike added to sample. Applicable only to spiked samples or surrogates.
40	<i>SPIKED_RESULT</i>	C10	Concentration of the analyte in the spiked sample. Applicable only to spiked samples or surrogates.
41	<i>SPIKE_RECOVERY</i>	C10	Percent recovery. Applicable only to spiked samples or surrogates.
42	<i>RPD</i>	C10	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	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	Upper spike recovery control limit (in percent). Applicable to surrogates or spiked samples only.
45	<i>LOWER_LIMIT</i>	C10	Lower spike recovery control limit (in percent). Applicable to surrogates or spiked samples only.
46	<i>LAB_RECEIPT_DATE</i>	Date	Date that the sample arrived at the lab (mm/dd/yyyy). Applicable to field samples only.
47	<i>LAB_RECEIPT_TIME</i>	Time	Time that the sample arrived at the lab (HH:MM). Applicable to field samples only.
48	<i>HARD_COPY_DUE_DATE</i>	Date	Hardcopy lab report due date.
49	<i>RUSH_TAT</i>	C1	Specify if sample was submitted as "Rush" – valid values for this field are Y and N.
50	<i>LAB_REPORT_DATE</i>	Date	Date (mm/dd/yyyy) the EDD (electronic data deliverable) is due.
51	<i>SUBCONTRACT</i>	C1	Enter Y (Yes) if analysis was performed by a subcontractor lab. Otherwise, field can be left blank.

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Field	Field Name	Length	Field Contents
52	SUBCONTRACT_LAB_ID	C10	Code or identifier for the subcontract lab. Has list of values.
53	BASIS	C3	Basis for reporting the result. Has list of values.

Notes:

- a. Fields in **Bold Regular font** are required for all records (e.g., **LAB\_ID**).
- b. Fields in *Italic font* are required for various subsets of samples and/or analyses.
- c. Fields In **Regular font** are optional.

The table below shows suggested valid values for selected fields in the EDD. Customers are free to replace any of these values with their own. Valid values for analytical methods, lab IDs, and parameters without CAS Numbers are generally set by the customer or provided by the contracting labs. Locus can assist in this process, if requested. Locus recommends use of The International System of Units (SI), whenever possible. In the example below, we compromised the standard SI prefix for ease of input and use. For example, the letter “u” is used instead of SI-required prefix “μ” for 10<sup>-6</sup> factor.

**Table 1. Valid Values**

Field (# out of EIM in parentheses)	Valid Values	Values Description
ANALYSIS_TYPE_CODE (26)	INIT	Initial analysis.
	REANL	Reanalysis (without reextraction).
	REAN2	Second reanalysis (without reextraction)
	REAN3	Third reanalysis (without reextraction)
	REEXT	Reextraction (presumes reanalysis).
	REEX2	Second reextraction (presumes reanalysis)
	REEX3	Third reextraction (presumes reanalysis)
	DIL	Dilution
	CONF	Confirmatory analyses
FILTERED_FLAG (27)	Y	Yes, the sample was filtered.
	N	No, the sample was not filtered.
LAB_UNITS (8)*	ug/L	micrograms/liter**
	mg/L	milligram/liter
	ug/kg	micrograms/kilogram**
	mg/kg	milligrams/kilogram
	Wt %	Weight percent
	Eq	Equivalents
	Meq	Milliequivalents
	g	grams
	mg	milligrams
	L	Liter
	mL	Milliliters
	s.u.	standard units
deg C	Degrees C***	

Field (# out of EIM in parentheses)	Valid Values	Values Description
	deg F	Degrees F
	g/mL	grams/milliliter
	mV	Millivolts
	Ratio	Unitless ratio (numerator and denominator posses the same units)
	umoles/g	micromoles/gram
	ppmV	Parts per million – volume (air measurements)
	ppbV	Parts per billion – volume (air measurements)
	mg/m <sup>3</sup>	milligrams/cubic meter (air measurements)
	ug/m <sup>3</sup>	micrograms/cubic meter (air measurements)**
	mg/m <sup>2</sup>	milligrams/square meter (wipes or area measurements)
	ug/m <sup>2</sup>	micrograms/square meter (wipes of area measurements)**
	ntu	Turbidity units
	%	Percent recovery
	megohm/cm	Mega ohms per centimeter
	meq/kg	Milliequivalents per kg
	MFL	Million fibers per liter (asbestos)
	MHOS	Mhos – units of conductivity
	mm/s	Millimeters per second; units of ignitability
	pCi/g	Picocuries per gram
	pCi/L	Picocuries per liter
	Pos/Neg	Positive/negative result (Positive = 1; Negative = 0); Field #7.
	ug/Wipe	Micrograms per wipe**
	Yes/No	Yes/No results (Yes = 1; No = 0)
LAB_MATRIX (10)	AIR	Air sample.
	LIQUID	Any liquid phase not adequately described by other valid values.
	SOLID	Any solid phase not adequately described by other valid values.
	WASTE	Waste sample: covers remaining non-aqueous samples.
	SOIL	Soil sample.
	WATER	Water sample.
	DNAPL	Dense non-aqueous phase liquid.

Field (# out of EIM in parentheses)	Valid Values	Values Description
	LNAPL	Light non-aqueous phase liquid.
	BIOTA	Biological samples.
	GAS	Gas
	LEACHATE	Leachate
	SLUDGE	Sludge
	VAPOR	Vapor
	WIPE	Wipe
	RO	Dioxin: This qualifier is used to indicate a labeled standard has an ion abundance ratio that is outside of the acceptable QC limits, most likely due to a co-eluting interference. This may have caused the percent recovery of the standard to be over-estimated, therefore, all quantitation associated with this standard may be underestimated.
LEACHED_FLAG (28)	Y	Yes, the sample was leached prior to being analyzed.
	N	No, the sample was not leached prior to being analyzed.
RESULT_TYPE_CODE (6)	IS	Internal Standard.
	SPK	Spiked compounds.
	SUR	Surrogate.
	TIC	Tentatively Identified Compound.
	TRG	Target Analyte.
SAMPLE_PURPOSE (37)	BS	Blank Spike.
	BSD	Blank Spike Duplicate.
	LCS	Laboratory Control Spike.
	LCSD	Laboratory Control Spike Duplicate.
	MB	Method Blank.
	MS	Matrix Spike.
	MSD	Matrix Spike Duplicate.
	LR	Lab Replicate
	AS	Analytical Spike
	REG	Regular sample
	AB	Ambient blank
	DUP	Duplicate

Field (# out of EIM in parentheses)	Valid Values	Values Description
	EB	Equipment blank
	FD	Field duplicate
	TB	Trip Blank
	MSI	Matrix spike insoluble spike (i.e., Cr(VI) analyses)
	LCSI	Laboratory control sample insoluble spike (i.e., Cr(VI) analyses)
	MSDI	Matrix spike duplicate insoluble spike (i.e., Cr(VI) analyses)
	LCSDI	Laboratory control sample duplicate insoluble spike (i.e., Cr(VI) analyses)
	FB	Field blank
BASIS (53)	W	Wet weight basis (soil samples)
	D	Dry weight basis (soil samples)
<p><i>Notes:</i></p> <p>* See description of SI units below.</p> <p>** All micro symbols represented by the letter "u" are not standard SI prefixes, and users are advised to substitute them with the Greek symbol "μ" (10<sup>-6</sup>) when reporting to regulatory agencies. The symbol μ can be typed in a Microsoft Office document by holding down the ALT key and typing the number 0181 (its ACSII code)</p> <p>*** For degrees C, correct SI symbol is deg °C. For simplicity of input "°" is omitted. In final reporting, the degree symbol should be added before C.</p>		