

EIM Help – Entering Field Replicates

Version 1.4
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Field replicates are separate samples or measurements identically collected as close as possible to the same point in space and time as the originals. In the case of samples, originals and replicates are stored in separate containers, each of which is identically processed and analyzed.

There are several ways to handle field replicates in EIM, depending whether it's a sample or measurement and how you code your samples. In most cases, you are encouraged to insert a Field Collection Comment for both the original and replicate. **Follow the guidance below when populating your Result Template.**

Note: DO NOT create a separate Location for a replicate sample or measurement. It should be assigned to the same Location as the original.

EXAMPLE 1. Replicate sample with different Sample ID than original Sample:

Sample ID 5649780 is primary sample and 5649781 is replicate. Note Sample Replicate Flags. (Unless you assign “Y” or “N,” EIM will assign “U” for “Unknown”).

Location_ID (B)	Field_Collection_Comment (J)	Sample_ID (R)	Sample_Replicate_Flag (T)
VCNW101-MW1	Sample 5649781 is a field replicate of Sample 5649780	5649780	N
VCNW101-MW1	Sample 5649781 is a field replicate of Sample 5649780	5649780	N
VCNW101-MW1	Sample 5649781 is a field replicate of Sample 5649780	5649780	N
VCNW101-MW1	Sample 5649781 is a field replicate of Sample 5649780	5649781	Y
VCNW101-MW1	Sample 5649781 is a field replicate of Sample 5649780	5649781	Y
VCNW101-MW1	Sample 5649781 is a field replicate of Sample 5649780	5649781	Y

EXAMPLE 2. Replicate sample with same Sample ID as original Sample:

Option A: “-Dup” or “-Rep” can be appended to Sample ID of the field replicate.

Location_ID (B)	Field_Collection_Comment (J)	Sample_ID (R)	Sample_Replicate_Flag (T)
VCNW101-MW1	Sample 5649780-Dup is a field replicate of Sample 5649780	5649780	N
VCNW101-MW1	Sample 5649780-Dup is a field replicate of Sample 5649780	5649780	N
VCNW101-MW1	Sample 5649780-Dup is a field replicate of Sample 5649780	5649780	N
VCNW101-MW1	Sample 5649780-Dup is a field replicate of Sample 5649780	5649780-Dup	Y
VCNW101-MW1	Sample 5649780-Dup is a field replicate of Sample 5649780	5649780-Dup	Y
VCNW101-MW1	Sample 5649780-Dup is a field replicate of Sample 5649780	5649780-Dup	Y

Option B: Use a Sample Field Replicate ID to distinguish between original and replicate samples with the same Sample ID. A Field Collection Comment is optional here.

Location_ID (B)	Sample_ID (R)	Sample_Field_Replicate_ID (S)	Sample_Replicate_Flag (T)
VCNW101-MW1	5649780		N
VCNW101-MW1	5649780		N
VCNW101-MW1	5649780		N
VCNW101-MW1	5649780	1	Y
VCNW101-MW1	5649780	1	Y
VCNW101-MW1	5649780	1	Y

OR (for multiple replicates)

Location_ID (B)	Sample_ID (R)	Sample_Field_Replicate_ID (S)	Sample_Replicate_Flag (T)
VCNW101-MW1	5649780		N
VCNW101-MW1	5649780		N
VCNW101-MW1	5649780	1	Y
VCNW101-MW1	5649780	1	Y
VCNW101-MW1	5649780	2	Y
VCNW101-MW1	5649780	2	Y
VCNW101-MW1	5649780	3	Y
VCNW101-MW1	5649780	3	Y

OR (in some cases, a Sample Field Replicate ID of 1 is assigned to the original sample. Note that the Sample Replicate Flag is marked “N”)

Location_ID (B)	Sample_ID (R)	Sample_Field_Replicate_ID (S)	Sample_Replicate_Flag (T)
VCNW101-MW1	5649780	1	N
VCNW101-MW1	5649780	1	N
VCNW101-MW1	5649780	1	N
VCNW101-MW1	5649780	2	Y
VCNW101-MW1	5649780	2	Y
VCNW101-MW1	5649780	2	Y

EXAMPLE 3. Replicate Measurements:

Location_ID (B)	Field Collection Comment (J)	Sample_ID (R)	Sample_Field Replicate_ID (S)	Sample Replicate_Flag (T)
VCNW101-MW1		1		N
VCNW101-MW1		1		N
VCNW101-MW1		1		N
VCNW101-MW1	Field Replicate	1	1	Y
VCNW101-MW1	Field Replicate	1	1	Y
VCNW101-MW1	Field Replicate	1	1	Y

Revision History

Revision Date	Revision No.	Summary of Changes	Reviser(s)
9/27/07	1.0	Original Document	CN, KC
10/1/08	1.1	Colum updated per data model change	CN
6/13/11	1.2	Nomenclature change - dropped 'User' from Location ID	CN
8/1/2013	1.3	Updated references to spreadsheet column headings per data model change	CN
09/07/17	1.4	Updated terminology of Result Spreadsheet to Result Template	KC