

EDMS APPENDIX A

Florida “Field Deliverable” Specifications and Error Checks

Data Element Name	Data Type	Description	Required?	SVL	Error Checks
Location_Code	Text (80)	Location where the sample was taken.	Yes	Yes for SFWMD, No for DEP	- Length $\leq$ 80 - If SFWMD then check SVL - If DEP then no check. - Not Null
Client_Sample_ID	Text (35)	Client’s identifier for a sample	Yes	No	- Length $\leq$ 35 - Check uniqueness against Location_Code and date. - Not Null
Sample_Depth	Text (15)	Sample Collection Depth	No	No	- Double $\leq$ 15 - Check for positive number.
Depth_Units	Text (15)	Depth Units	No	Yes	- In SVL as specified in field library. - Check If Sample Depth is not null, then this field cannot be null.
Project_Number	Text (30)	Number assigned by the client to associate a sample to a project, purchase order or requisition.	Yes	No	- Length $\leq$ 30 - Not Null
Project_Name	Text((90)	Project name assigned by the client	Yes	Yes	- Length $\leq$ 90 - In ADAPT SVL if entered
Program_Type	Text (20)	Type of program, e.g., experimental or monitoring	Yes	Yes	- SVL (Either MON or EXP) - Not Null
Sampling_Method	Text (80)	Use DEP Field SOP Number	Yes	Yes	- SVL field methods SOP library. - Not Null
Sample_Collection_Type	Text (SVL)	Sample collection type (grab, composite, etc)	Yes	Yes	- SVL of collection methods - Not Null
Matrix_ID	Text (20)	Sample matrix as listed in the SVL	Yes	Yes	- SVL of matrices - Not Null

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Field_Measurement_Method	Text (75)	Method used in measuring field parameter	No	Yes	- SVL field methods library - If “Field Parameter Name”, “Field Parameter Name”, “Result”, “Result Units” and “Field Parameter Qualifier Code” are not null, then cannot be null.
Field_Parameter_Name	Text (60)	Name of field parameter	No	Yes	- SVL field methods SVL - Unique for one Client_Sample_ID/End_Collection_Date - If “Field Measurement Method”, “Result”, “Result Units” and “Field Parameter Qualifier Code” are not null then cannot be null.
Result	Text (10)	Result for the field parameter measured	No	No	$0 \leq \text{Double} \leq 10$ - If “Field Measurement Method”, “Field Parameter Name”, “Result Units” and “Field Parameter Qualifier Code” are not null then cannot be null.
Result_Units	Text (10)	Units for field parameter result	No	Yes	- SVL field methods library - If “Field Measurement Method”, “Field Parameter Name”, “Result” and “Field Parameter Qualifier Code” are not null then cannot be null.
Field_Parameter_Qualifier_Code	Text (7)	Qualifier for field parameter result	Conditional	Yes	- SVL (D, E, R or !) excluding parameters in DEP QA Rule, 62-160 - Not null if Field_Measurement_Method, Field_Parameter_Name, Result, and Result_Units are not null
Field_Comments	Text (200)	Information about the field sample for which no specific field has been designated	If applicable	No	Length ≤ 200
Flow	Real	Water flow measurement at the time of sampling	No	No	- Double - If DEP use it as a number - If SFWMD use it as a code in SVL

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Flow_Units	Text (7)	Flow Units	No	Maybe	- SVL field flow codes and units. - If([flow Units]="marker") codes, Units), where “marker” = EST or CODE or...??? - If Flow is not code, then check SVL for Flow Units.
Weather	Text (??)	Weather conditions at the time of sampling	No	Maybe	- Length ≤150 - If DEP then free text - If SFWMD use SVL
Sampling_Personnel	Text (40)	Person collecting the sample	Yes	No	- Length ≤40 - Free Text - Not Null
Collection_Agency	Text (20)	Agency collecting the sample.	Conditional	Yes	- Length ≤20 - Not null for SFWMD - Use standard values for SFWMD
Begin_Date_Collected	Date/Time	Date and time sample collection begun. This field is optional for grab samples	No	No	- MM/DD/YYYY hh:mm - Not Null for samples collected by any means that imply a lengthy process. Check against “Sample_Collection_Type”
End_Date_Collected	Date/Time	Date and time sample collection ended.	Yes	No	- MM/DD/YYYY hh:mm - If Begin_Collection_Date is not null, then End_Collection_Date > Begin_Collection_Date - Not Null
Shipping_Batch_ID	Text (25)	Unique identifier assigned to a cooler or group of coolers or shipping containers that link samples together. The Shipping_Batch_ID is provided by the client in the Chain of Custody.	Yes	No	- Length ≤ 25 - Not Null

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Latitude_Degrees	Number (2)	The degrees portion of the angular distance on a meridian north or south of the equator	Optional	No	• $+23 \leq \text{Value} \leq +31$ • Integer • If Longitude-Degrees is not null then it cannot be null
Latitude_Minutes	Number (2)	The minutes portion of the angular distance on a meridian north or south of the equator.	Conditional	No	• $0 \leq \text{Value} \leq 59$ • Integer • If Lat-Degrees is not null then cannot be null
Latitude_Seconds	Real	The seconds portion to four significant digits of the angular distance on a meridian north or south of the equator.	Yes only if Latitude-degrees is not null	No	• Double (4 decimals) • $0 \leq \text{value} \leq 59.9999$ • If Latitude-Minutes is not null then it cannot be null
Longitude_Degrees	Number (3)	The degrees portion of the angular distance on a meridian east or west of the prime meridian.	Yes only if Latitude-degrees is not null	No	• $79 \leq \text{Value} \leq 87$ • Integer • If Latitude-Degrees is not null then it cannot be null
Longitude_Minutes	Number (2)	The minutes portion of the angular distance on a meridian east or west of the prime meridian.	Yes only if Latitude-degrees is not null	No	• $0 \leq \text{Value} \leq 59$ • Integer • If Longitude-Degrees is not null then it cannot be null
Longitude_Seconds	Real	The seconds portion to four significant digits of the angular distance on a meridian east or west of the prime meridian	Yes only if Latitude-degrees is not null	No	• Numeric (4 decimals) • $0 \leq \text{value} \leq 59.9999$ • If Longitude_Minutes is not null then it cannot be null
Locational_Collection_Method	Text (4)	The method or mechanism used to derive the measurements	Yes only if Latitude-degrees is not null	Yes	• SVL • If Latitude-Degrees is not null then it cannot be null

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Map_Source_Scale	Number (8)	If the measurement was derived from a map, the scale of the map series used.	Optional	No	- Length >8 - Integer - If Collection Method = “MMA” or “DMA” then $0 \leq \text{value} \leq 10000000$
Locational_Data_Collector	Text (30)	The name of the person taking the locational measurement.	Yes only if Latitude-degrees is not null	No	- Length >30 - If Latitude-Degrees is not null then it cannot be null
Locational_Data_Collection_Date	Date/Time	Date and time on which the locational measurement was taken.	Yes only if Latitude-degrees is not null	No	- MM/DD/YYYY hh:mm - If Latitude-Degrees is not null then it cannot be null
Coordinate_Accuracy_Level	Number (1)	The measured, estimated, or deduced degree of correctness of the measurement.	Optional	Yes	- SVL codes - If not null, then all Latitude/Longitude fields cannot be null
Datum	Text (10)	The horizontal reference for measuring locations on the Earth’s surface.	Yes only if Latitude-degrees is not null	Yes	- SVL - If Latitude-Degrees is not null then it cannot be null
Object_of_Interest	Text (25)	The entity of interest (the thing regulated, permitted, or tracked).	Yes only if Latitude-degrees is not null	No	- Length ≤25 - Free Text - If Latitude-Degrees is not null then it cannot be null
Relationship_of_Point_to_Object_of_Interest	Text (5)	What the point defined by the latitude and longitude coordinates represents relative to the object of interest – exact location, center of the lake/facility, etc.).	Yes only if Latitude-degrees is not null	Yes	- SVL of codes - If Latitude-Degrees is not null then it cannot be null
Verifier_Name	Text (30)	The name of the person verifying the measurement, if available.	Yes only if Latitude-degrees is not null	No	- Length ≤ 30 - If Latitude-Degrees is not null then it cannot be null

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Verifier_Date	Date/Time	Date and time on which the verification was performed.	Yes only if Latitude-degrees is not null	No	• MM/DD/YYYY hh:mm • If Latitude-Degrees is not null then it cannot be null

Additional Error Checks

Field Consistency Checks:

1. Field Parameter Qualifier Codes contains a “D” if Result is a field measurement.
2. Result Units and Sample_Collection_Type are consistent with Matrix_ID.
3. Flow Units and Flow are null when Matrix_ID refers to a solid.
4. Perform “duplicate” checks between new imported data and the database.

Duplicate Record Check

Duplicate records are reported if two or more records hold identical values among the following fields:

Client Sample ID
Field Parameter Name
Sample Depth