

Field Name	Field Title	Data Type	Definition
Analyte	Analyte	Plain Text	Name of the analyte or parameter for which the analysis is conducted and result is reported. A list of possible options is available at this link: AnalyteLookUpList
CollectionComments	Collection Comments	Plain Text	Comments referring to the lab collection of the sample.
CollectionDevice Description	Collection Device	Plain Text	Name of the device used to collect the sample (e.g. "MPSL-Eboat_(BigE)", "WPCL-DFG Gill Net 1(50m,1.5")", "Individual Collection by bucket sampler", etc.). Default value equals "Not Recorded" if unknown. A list of possible options is available at this link: CollectionDeviceLookUpList
CollectionMethod Name	Collection Method Name	Plain Text	Refers to the general method used to collect the sample, organism, or field observation. Depending on the data types, different types of collection methods will be stated. Some examples are: "Algae_SWAMP," "BMI_CSBP_Transect", "Sed_Core", "Water_Grab", "Autosampler24h", "Habitat_Generic", etc. The default value of "Not Recorded" is utilized if method is unknown. LabQA samples utilize "Not Applicable." A list of possible options is available at this link: CollectionMethodLookUpList
CollectionReplicate	Collection Replicate	Plain Text	Used to distinguish between replicates created at a single collection in the field. Replicate samples that are collected at the same station and date should either have a value of "2" or "3." Samples collected on different dates, even if they are from the same station, should both have a value of "1." Default value is also "1."
CollectionTime	Collection Time	Date/Time	Refers to the time when the first sample of a sampling event at a specific station was collected in the field. Format equals hh:mm in 24 hour time (e.g. 13:30 for 1:30 pm). Default value equals "00:00" if the time sampling started is unknown.
ComplianceCode	Compliance Code	Plain Text	Unique code referencing the compliance with the associated Quality Assurance Project Plan (QAPP). "Com" is used when all standards are met for the associated QAPP. Default value equals "NR" if unknown. A list of possible options and definitions is available at this link: ComplianceLookUpList

DataQuality	Data Quality	Number	<p>Describes the overall quality of the record by taking the QAcode, ResultQAcode, ComplianceCode, BatchVerificationCode, and special circumstances into account to assign it to one of the following categories:</p> <ul style="list-style-type: none"> • "Metadata, QC record"- Not a measurement of environmental conditions • "Passed QC"- Data passed all QC checks • "Some review needed"- Data did not pass minor QC checks, some effort needed to review and defend data if used • "Spatial Accuracy Unknown"- Data missing spatial datum information, data should not be used for fine scale spatial analysis • "Extensive review needed"- Data did not pass QC some critical checks, high level of effort needed to defend data if used • "Unknown Data Quality"- Data was not reviewed by the project. Data will need review before use • "Reject Data"- Data was rejected by the project or data did not pass all critical QC checks. Data deemed unusable <p>The assignments and categories are provisional. A working explanation of the data quality ranking can be found at the following link. This link is open to public comments as well: DataQualityEstimator-DecisionTree.</p>
DataQualityIndicator	Data Quality Indicator	Plain Text	<p>Explains the reason for the DataQuality value by indicating which quality assurance check the data did not pass (e.g. BatchVerificationCode, ResultQAcode, etc.). If this field contains "Special Rule," this indicates that the data falls into a special circumstance that decreases data quality. This field is left blank for values "Metadata, QC record" and "Passed QC."</p> <p>The assignments and categories are provisional. A working explanation of the data quality ranking can be found at the following link. A full explanation of the data quality ranking can be found at the following link. This link is open to public comments as well: DataQualityEstimator-DecisionTree.</p>
Datum	Datum	Plain Text	<p>Represents the associated model of the Earth from which reference points are used to calculate position measurements. GPS devices commonly use datums such as "NAD83" and "WGS84." Default value equals "NR" if unknown. A list of possible options is available at the following site (Note: search the first column in the table for "DatumList"):</p> <p>VariableCodesLookUpList</p>

DistanceFromBank	Distance From Bank	Number	The measured distance from the stream bank where the sample was taken. Default value is "None" if not applicable, or "-88" if not recorded.
DW_AnalyteName	DW Analyte Name	Plain Text	A more detailed name for the analyte. This field is included to assist with data reporting.
EventCode	Event Code	Plain Text	Represents the primary reason for the sampling event at a particular station and date (e.g. for water quality, a time series, or bioassessment sampling). A list of possible options is available at: EventLookupList
Latitude	Target Latitude	Number	The latitude in decimal degrees of the sample site (should be positive).
LocationCode	Location Code	Plain Text	Describes the physical location in the waterbody and the field survey method used where the sample was collected (e.g. "Transect at 177m from start", "First instance where sample was collected in OpenWater", "second instance where a net (e.g. gill, fyke, dip) was used at the thalweg of the waterbody", "Bank, Left", etc.). Default value equals "Not Recorded" if unknown. A list of possible options is available at this link: LocationLookupList
LocationDetail Comments	Location Detail Comments	Plain Text	Comments regarding observations about the location from which samples were taken, how the samples were taken, or comments about the samples themselves.
Longitude	Target Longitude	Number	The longitude in decimal degrees of the sample site (should be negative).
MatrixName	Matrix Name	Plain Text	Refers to the sample matrix; the substance in which the analyte is evaluated in or the components of a sample other than the analyte of interest (e.g. "samplewater", "tissue"). Default value equals "Not Recorded" if unknown. A list of possible options is available at this link: MatrixLookupList
MethodName	Method Name	Plain Text	Refers to the method used by the laboratory to analyze the sample. Default value equals "Not Recorded" if unknown. A list of possible options is available at this link: MethodLookupList
OccupationMethod	Occupation Method	Plain Text	The means by which a crew entered or occupied the sampling location and collected a sample (e.g. "Walk In", "RV Questuary", "From Bridge", etc.)
ParentProject	Parent Project Name	Plain Text	A larger or on-going project in which the specific project that the samples were collected for is associated with. A list of possible options can be found at this link: ParentProjectLookupList

Program	Program Name	Plain Text	The name of the program that is associated with the sample. A list of possible options is available at this link: ProgramLookUpList
Project	Project Name	Plain Text	The project to which the sample result is associated. A list of possible options is available at this link: ProjectLookUpList
ProtocolCode	Protocol	Plain Text	Represents the sampling protocol used, which includes the set of methods, methodology and/or specifications, such as "MPSL-DFG_Field_v1.0." Default value is "Not Recorded." LabQA samples will have "Not Applicable." A list of possible options is available at this link: ProtocolLookUpList
QACode	Quality Assurance Code	Plain Text	Codes that indicate data quality by describing any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result. The default code, indicating no special conditions, is "None." A list of possible options is available at this link: QALookUpList
ResultQualCode	Result Qualifier Code	Plain Text	A code that indicates specific details about the analytical result of the sample, such as if the analyte was detected but not quantifiable or if the result was a field estimation. Default value is "=", which means that the recorded result is the actual result. A list of possible options is available at this link: ResQualLookUpList
Result	Result	Number	Final numeric result of a given analyte, stored as text to retain trailing zeros. The result should be reported with the appropriate number of significant figures. Result may be left blank as long as an appropriate ResQualCode is provided.
ResultsComments	Result Comments	Plain Text	Any comments related to the results or analysis of the sample.
SampleAgency	Sampling Agency	Plain Text	Refers to the organization or agency that collected the sample. Default value equals "Not Recorded" if unknown. A list of possible options is available at this link: AgencyLookUpList
SampleComments	Sample Comments	Plain Text	Used for any notes or comments specifically related to the sampling event at a particular station and/or the GIS station information verification. This field is required when "Other" is used in the PurposeFailureCode column, and can be left blank otherwise.
SampleDate	Sample Date	Date/Time	Refers to the date the sample was collected in the field. Default value equals "01/01/1950" for unknown or null values. For samples with collection times that last longer than one day, like auto samplers, the SampleDate is the date in which sampling began.

SampleTypeCode	Sampling Type	Plain Text	Refers to the type or purpose of the sample that is collected or analyzed (i.e. indicates if the sample was used as a control, for calibration purposes, is a combination of multiple samples, used for algae bioassessment, etc.) Default value equals "Not Recorded" if unknown. A list of possible options is at this link: SampleTypeLookUpList
StartingBank	Starting Bank	Plain Text	The bank of the stream from which measurements began (i.e. on the left bank or right bank) A list of possible options is available at the following site (Note: search the first column in the table for "StartingBankList"): VariableCodesLookUpList
StationCode	Station Code	Plain Text	An alphanumeric code that represents the sampling site at which the sample was collected. The format is ###ABC123, where ### is the Hydrologic Unit number and ABC123 is an alphanumeric description of the station. An example is "111EELBRN", which is Hydrologic Unit 111 and an abbreviated code to indicate "Eel River - South Fork near Branscomb." Some stations may have a code that deviates from this format because the program or organization collecting the sample has their own code system. A complete list of stations and station information is available at this link: StationLookUpList
StationName	Station Name	Plain Text	The name of the station at which the sample was collected. A complete list of stations and station information is available at this link: StationLookUpList
StationWaterDepth	Station Water Depth	Number	Depth of the water at the area where the sampling station is located. Default value is "None" if unknown or not applicable.
StreamWidth	Stream Width	Number	Width of the stream where the sample was collected. Default value is "-88" if unknown.
TotalReach	Total Reach	Number	Transposed value of the analyte "Length, Reach" which records the total length of a reach that was sampled for bioassessment. If this value was not recorded, then value will be blank or "-88."

Unit	Unit	Plain Text	Indicates the units used in the measurement of the analyte. Chemistry results are indicated by weight of analyte/volume of sample (e.g. "ng/L"). Results from sediment and tissue samples are indicated by weight/weight and includes whether the sample result is reported as wet weight (ww) or dry weight (dw) (e.g. "ng/g ww"). Surrogate recovery results use a unit of "%". Toxicity test results are recorded as percent that survived ("%"), weight of surviving individuals ("mg/ind"), cells per volume ("cells/ml"), reproduction rate ("neonates/adults"), etc. Taxonomic units are indicated by "count" or volume/area (e.g. "um3/cm2"). A list of possible options is available at this link: UnitLookupList
UnitDistanceFrom Bank	Unit Distance From Bank	Plain Text	The units used to measure the DistanceFromBank. A list of possible options can be found at this link: UnitLookupList
UnitStationWater Depth	Unit Station Water Depth	Plain Text	The units used to measure the StationWaterDepth. A list of possible options can be found at this link: UnitLookupList
UnitStreamWidth	Unit Stream Width	Plain Text	The units used to measure the StreamWidth. A list of possible options can be found at this link: UnitLookupList
VariableResult	Variable Result	Plain Text	Records the qualitative results from observations and samples taken from the field. A list of possible options is available at the following LookUp List (Note: search the "AnalyteName" column for the corresponding analyte to see possible values and descriptions): FieldObsVarLookupList

For questions, comments, or concerns regarding these field names and definitions, please send an email with the subject line, "Habitat Data Dictionary," to: OIMA-Helpdesk@waterboards.ca.gov