

This file contains version 2.0 of the EPA Region 3. Please read through the following notes as they give important information on how the EDD is to be used.

DED stands for Data Element Dictionary. This refers to the Data_Dictionary tab which contains descriptions of all of the fields used. The presentation as a dictionary is intended to facilitate mapping with other systems. The EDD, or Electronic Data Deliverable, is composed of a series of linked tables using the fields in the DED. These are broken out into individual sheets in this document.

The data element definitions have a number of columns as follows:

Table - Indicates which EDD table contains the data element.

Position - Indicates the position in the relevant EDD table.

Field Name - Gives the name of the field.

Description - Gives a description of the field.

Data type - Indicates the format in which the field but be filled out.

Required? - Indicates whether the field is needed in order to import data. Anyone using the EDD should include all fields noted as required. Other fields will also likely be required by the individual user.

Valid Values? - Indicates whether the field must be filled from a list of valid values. If a valid value is required, the relevant table is referenced.

Several notes on the use of individual EDD tables:

Field_Results - This table is included as a means for entering data which is collected in the field, such as temperature, pH, specific conductivity. Field results could also be reported as normal samples by filling out the relevant information in the Sample_Info and Test_Results tables.

Water_Level: This is a modular table. If a given user does not wish to collect this information, the table may be omitted.

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Data_Provider	1	data_provider	Name of company or agency responsible for completion & submittal of any part of this EDD. Acts as a link to the Data_Provider table.	Text (60)	Yes	No
Data_Provider	2	data_contact_name	Name of contact associated with data_provider.	Text (30)	No	No
Data_Provider	3	data_contact_address1	Contact street address and/or box number.	Text (40)	No	No
Data_Provider	4	data_contact_address2	Site address, part two. Box number or other info.	Text (40)	No	No
Data_Provider	5	data_contact_city	City of site.	Text (20)	No	No
Data_Provider	6	data_contact_state	Postal abbreviation for State of site.	Text (2)	No	State_code table
Data_Provider	7	data_contact_zipcode	Zip code of site.	Text (10)	No	No
Data_Provider	8	data_contact_email	Contact e-mail address.	Text (60)	No	No
Data_Provider	9	data_contact_phone	Contact phone number	Text (60)	No	No
Field_Results	1	data_provider	Name of company or agency responsible for completion & submittal of any part of this EDD. Acts as a link to the Data_Provider table.	Text (60)	Yes	No
Field_Results	2	station_id	Location identifier of sample collection, soil boring, well installation, field observations, etc. to appear on GIS maps graphs & tables, etc. Examples of possible station_id are MW-01, SW-1, SB6, etc. Acts as a link to the Location table.	Text (20)	Yes	No
Field_Results	3	field_msr_id	Unique measurement identifier. Each measurement must have a unique value. Example: measurement_date, measurement_time, and station_id: MM/DD/YYYY/HH:MM:SS/station_id.	Text (40)	Yes	No
Field_Results	4	field_msr_type	Code which distinguishes between different types of measurements.	Text (3)	Yes	Sample_type_code table
Field_Results	5	medium	Medium within which this measurement was taken. Valid values: "Soil", "Water", "Air", "Sediment", "Biological".	Text (10)	Yes	Valid values given in description
Field_Results	6	field_matrix_code	Code which distinguishes between different types of field measurement matrix.	Text (2)	Yes	Matrix table
Field_Results	7	measurement_date	Date of field chemistry measurement, water level measurement, etc.	Date MM/DD/YYYY	Yes	No
Field_Results	8	measurement_time	Time of water level measurement, field chemistry, etc. in 24 hour (military) format.	Text (HH:MM)	Yes	No
Field_Results	9	upper_depth	Depth (in depth_unit) to top of measurement below land surface (surf_elev). Use for groundwater only if discrete measurements are taken at different depths in a single well (packer tests, etc.). Required for point measurements (direct push, etc.).	Num (XXXX.XX XX)	No	No
Field_Results	10	lower_depth	Depth (in depth_unit) to bottom of measurement below land surface (surf_elev). Use for groundwater only if discrete measurements are taken at different depths in a single well (packer tests, etc.). Null for point measurements (direct push, etc.).	Num (XXXX.XX XX)	No	No
Field_Results	11	depth_unit	Unit of measure for depths.	Text (10)	No	Units table

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Field_Results	12	param_name	Parameter names were derived from the Chemical Abstracts Registry (CAS) Number for the parameter if available. Otherwise EPA STORET codes were used.	Text (60)	Yes	Param_name table
Field_Results	13	cas_number	Analyte code derived from the Chemical Abstracts Registry (CAS) Number for the parameter if available. Otherwise EPA STORET codes are used. See Param_name valid value table in appendix.	Text (15)	Yes	Param_name table
Field_Results	14	value_type	Value type reflected in result_value. Valid values: "actual", "estimated" or "calculated".	Text (10)	Yes	Valid values given in description
Field_Results	15	stat_type	Statistic type reflected in the result_value. Max, min, mean, etc. Leave null if no statistical value was used.	Text (20)	No	Stat_type table
Field_Results	16	result_value	The measured value of the parameter, result of analysis or test reported at an appropriate number of significant digits. May be blank for non-detects.	Text (20)	Yes	No
Field_Results	17	result_unit	Units of measurement for the result.	Text (15)	Yes	Unit table
Field_Results	18	field_msr_equipment_type	Type of gear used to take the measurement.	Text (20)	No	Equipment_type table
Field_Results	19	field_msr_equipment_name	Name of the gear used to take the measurement.	Text (60)	No	Equipment_name table
Field_Results	20	field_msr_comment	Any comment regarding this field measurement.	Text (254)	No	No
Field_Results	21	worker_name	Name of individual that took the field measurement.	Text (30)	No	No
Field_Results	22	calibration_date	Date that the field instrument used was last calibrated.	Date MM/DD/YYYY	No	No
Location	1	data_provider	'Name of company or agency responsible for completion & submittal of any part of this EDD. Acts as a link to the Data_Provider table.	Text (60)	Yes	No
Location	2	station_id	'Location identifier of sample collection, soil boring, well installation, field observations, etc. to appear on GIS maps graphs & tables, etc. Examples of possible station_id are MW-01, SW-1, SB6, etc. Acts as a link to the Location table.	Text (20)	Yes	No
Location	3	station_name	Sampling location name. May be longer description of station_id for organizations using long name formats.	Text (40)	No	No
Location	4	station_desc	Description of sampling location.	Text (254)	No	No
Location	5	station_county	Location county code.	Text (25)	No	Station_county table
Location	6	station_state_fips	Two letter state code of the location	Text (2)	No	State_code table
Location	7	station_type1	MAD Code Req#5 Primary sampling location type.	Text (20)	Yes	Station_type 1 table
Location	8	station_type2	Secondary sampling location type.	Text (30)	Yes	Station_type 2 table
Location	9	latitude	MAD Code Req#1 Latitude of sampling location in decimal degrees (dd.xxxxx).	Num (XX.XXXX XX)	Yes	No
Location	10	longitude	MAD Code Req#2 Longitude of sampling location in decimal degrees. Must be negative for western hemisphere (-ddd.xxxxx).	Num (XXX.XXX XXX)	Yes	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Location	11	source_scale	MAD Code Req#8 Scale of the source (map, air photo, etc.) used to determine the lat/long coordinates.	Text (10)	Yes	Source_scale_code table
Location	12	horz_accuracy_unit	MAD Code Req#4B Use values in unit valid value table in appendix. Unit of the horizontal accuracy value.	Text (10)	Yes	Units table
Location	13	horz_accuracy_value	MAD Code Req#4A Accuracy range (+/-) of the lat/long coordinates. EPA Method Accuracy Description Code (MAD Code) Location Data Policy (LDP) requires that only the least accurate measurement be recorded, whether it is for longitude or latitude.	Num (XXXX.XX XX)	Yes	No
Location	14	horz_datum_code	MAD Code Req#7 Reference datum used to determine the latitude and longitude measurements.	Text (3)	Yes	Horizontal_datum_code table
Location	15	horz_collect_method_code	MAD Code Req#3 Method used to determine the latitude and longitude measurements.	Text (2)	Yes	Horizontal_collect_method_code table
Location	16	lat/long_verification	MAD Code Opt#7 Indicates if the latitude and longitude has been verified by EPA staff, grantees or contractors through a given process. Indicate "Y" for yes and "N" for no.	Text (1)	No	Valid values given in description
Location	17	station_comment	MAD Code Opt#3A Comment about latitude, longitude and vertical elevation. Store information about the collection method, post processing of the data (if GPS were involved), or description of feature of the facility represented by the coordinates.	Text (254)	No	No
Location	18	coord_sys_desc	CART COORD 0 Cartographic sampling location coordinate system description for x_coord & y_coord. Valid Values = UTM, and SP (for State Plane).	Text (3)	No	No
Location	19	x_coord	CART COORD 1A x coordinate in system specified by Agency requiring submittal. System identified by coord_sys_desc. Coordinates must be ready for plotting without shifts or offsets.	Num (XXXXXXXX XXX.XXXX)	No	No
Location	20	y_coord	CART COORD 1B y coordinate in system specified by Agency requiring submittal. System identified by coord_sys_desc. Coordinates must be ready for plotting without shifts or offsets.	Num (XXXXXXXX XXX.XXXX)	No	No
Location	21	coord_units	CART COORD 2 Units for cartographic coordinate system identified by coord_sys_desc.	Text (10)	No	Units table
Location	22	coord_datum	CART COORD 3 Datum for cartographic xy coordinate system. May be different datum from horz_datum_code. Defaults to horz_datum_code if Null.	Text (3)	No	Horizontal_datum_code table
Location	23	coord_zone	CART COORD 4 Cartographic coordinate system zone. Indicate the UTM Zone or State Plane Zone.	Text (15)	No	No
Location	24	surf_elev	MAD Code Req#6A Land surface elevation (in elev_unit) at station location. For surface water samples, use elevation of water surface. For sediment samples, use elevation of top of sediment.	Num (XXXXX.XXX)	Yes	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Location	25	elev_unit	MAD Code Req#6B Unit of measurement for surf_elev. Valid values: m = meters & ft = feet.	Text (2)	Yes	Valid values given in description
Location	26	elev_datum_code	MAD Code Opt#6 Datum for elevation measurements. Not same as reference_point_desc or reference_point_elev.	Text (3)	Yes	Elevation_datum_code table
Location	27	elev_accuracy_unit	MAD Code Opt#5B Unit of the elevation accuracy value (in elev_unit). Valid values: m = meters & ft = feet.	Text (10)	No	Valid values given in description
Location	28	elev_accuracy_value	MAD Code Opt#5A Accuracy range (+/-) of the elevation measurement (in elev_accuracy_unit).	Num (XXX.XX XX)	No	No
Location	29	elev_collect_method_code	MAD Code Opt#4A Method used to determine the land surface elevation of the sampling location.	Text (2)	Yes	Elevation_collect_method table
Location	30	subsite_id	MAD Code Opt#9 Unique code for Operable Unit, SWMU, etc. Typically "01". Use "02", "03", etc, for additional units. Contact the EPA Project Manager if unsure of proper code.	Text (8)	Yes	No
Location	31	geometric_type_code	MAD Code Req#9 Usually Point for sample location data. Use Line or Area for GPS data describing road, railroad, pond edge, landfill perimeter, etc. Valid values: P = point, L = Line & A = area.	Text (10)	No	Valid values given in description
Location	32	data_point_sequence	MAD Code Opt#8 Number indicating the sequence in which points on a line or area are connected. Null if geometric_type_code = "P", required if geometric_type_code = "A" or "L". For an area, the maximum point is connected to the first.	Num (XXX)	No	No
Location	33	surveyor_name	MAD Code Opt#4B Name of surveyor company performing survey.	Text (254)	No	No
Location	34	survey_number	Unique identification of location survey history. Usually = 1 if location has been determined only once. May be 2 or more if location has been re-surveyed or re-determined.	Text (20)	Yes	No
Location	35	lat/long/coord_date	MAD Code Opt#2 Date location coordinates were determined.	Date MM/DD/YYYY	No	No
Location	36	within_facility_Y/N	Indicates whether this sampling location is within facility boundaries. Enter "Y" for yes or "N" for no.	Text (1)	Yes	Valid values given in description
Location	37	basin	Major basin; controlled vocabulary using HUC (Hydrologic Unit Codes). The first 8 digits of the HUC code should be entered here.	Text (14)	No	basin table
Location	38	total_depth	Total depth associated with location.	Double	No	No
Sample_Collect_Procedures	1	sample_coll_proc_id	Sample Collection Procedure ID. References Sample_Collect_Procedures table.	Text (8)	Yes	No
Sample_Collect_Procedures	2	sample_coll_proc_name	Descriptive name of this Sample Collection Procedure.	Text (60)	Yes	Gear_type table
Sample_Collect_Procedures	3	sample_coll_proc_desc	Description of this Sample Collection Procedure.	Text (254)	No	No
Sample_Collect_Procedures	4	sample_coll_proc_citation	Citation for this field procedure in the format: Title_Author_Publisher_Year_Volume and Pages_Comments	Text (254)	No	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Sample_Info	1	data_provider	'Name of company or agency responsible for completion & submittal of any part of this EDD. Acts as a link to the Data_Provider table.	Text (60)	Yes	No
Sample_Info	2	station_id	'Location identifier of sample collection, soil boring, well installation, field observations, etc. to appear on GIS maps graphs & tables, etc. Examples of possible station_id are MW-01, SW-1, SB6, etc. Acts as a link to the Location table.	Text (20)	Yes	No
Sample_Info	3	sample_id	Unique sample identifier. Each sample must have a unique value, including spikes and duplicates. Laboratory QC samples must also have unique identifiers.	Text (40)	Yes	No
Sample_Info	4	medium	Medium within which this measurement was taken. Valid values: "Soil", "Water", "Air", "Sediment", "Biological".	Text (10)	Yes	Valid values given in description
Sample_Info	5	sample_matrix_code	Code which distinguishes between different types of sample matrix.	Text (2)	Yes	Matrix table
Sample_Info	6	sample_type_code	Code which distinguishes between different types of samples.	Text (3)	Yes	Sample_type_code table
Sample_Info	7	sample_source	This field identifies where the sample came from Field or fixed-base Laboratory. Valid values: "field", and "lab".	Text (5)	Yes	Valid values given in description
Sample_Info	8	sample_coll_proc_id	Sample Collection Procedure ID. References Sample_Collect_Procedures table.	Text (8)	Yes	No
Sample_Info	9	sample_id_duplicate	Identifies the sample_id of a duplicate sample. For example, the value in this field would be the related sample_id for a blind duplicate sample.	Text (20)	No	No
Sample_Info	10	sample_group	Special ID for group of samples from a sampling event, special collection process, unusual or specialized category of stations.	Text (10)	No	No
Sample_Info	11	sample_date	Date sample was collected (in MM/DD/YYYY format for EDD).	Date MM/DD/YYYY	Yes	No
Sample_Info	12	sample_time	Time sample collection began in 24 hour (military) format.	Text (HH:MM)	No	No
Sample_Info	13	upper_depth	Depth (in depth_unit) to top of sample below land surface (surf_elev). Use for groundwater samples in a well only if discrete samples are taken at different depths in a single well (packer tests, etc.). Required for point samples (direct push, etc.).	Num (XXXX.XX XX)	No	No
Sample_Info	14	lower_depth	Depth (in depth_unit) to bottom of sample below land surface (surf_elev). Use for groundwater samples in a well only if discrete samples are taken at different depths in a single well (packer tests, etc.). Null for point samples (direct push, etc.).	Num (XXXX.XX XX)	No	No
Sample_Info	15	depth_unit	Unit of measure for depths.	Text (10)	No	Units table
Sample_Info	16	chain_of_custody	Chain of custody identifier. A single sample may be assigned to only one chain of custody.	Text (15)	No	No
Sample_Info	17	sent_to_lab_date	Date sample was sent to lab (in MM/DD/YYYY format for EDD).	Date MM/DD/YYYY	No	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Sample_Info	18	sample_receipt_date	Date that sample was received at laboratory (in MM/DD/YYYY format for EDD).	Date MM/DD/Y YYY	No	No
Sample_Info	19	sampler_name	Name of individual that collected the sample.	Text (30)	No	No
Sample_Info	20	task_code	Code used to identify the task under which the field sample was retrieved. The format for this field is XX-P#-##-##-####. Where XX is the type of task required (see valid values), and P# is the phase, and ##-##-#### is the date in month, day and year.	Text (20)	No	No
Sample_Info	21	qapp_approval_date	QAPP Approval Date.	Date MM/DD/Y YYY	No	No
Sample_Info	22	sample_comment	Comments related to the sample.	Text (254)	No	No
Site	1	site_id	Official EPA CERCLA ID, RCRA ID or valid STORET Organization ID if this data is not associated with a designated CERCLA site. References the Site table.	Text (20)	Yes	No
Site	2	site_name	Name of site or facility.	Text (60)	Yes	No
Site	3	site_address1	Site address, part one. Street address.	Text (40)	No	No
Site	4	site_address2	Site address, part two. Box number or other info.	Text (40)	No	No
Site	5	site_city	City of site.	Text (20)	No	No
Site	6	site_state	Postal abbreviation for State of site.	Text (2)	No	State_code table
Site	7	site_zipcode	Zip code of site.	Text (10)	No	No
Site	8	subsite_id	MAD Code Opt#9 Unique code for Operable Unit, SWMU, etc. Typically "01". Use "02", "03", etc, for additional units. Contact the EPA Project Manager if unsure of proper code.	Text (8)	Yes	No
Site	9	subsite_name	Name of site, operable unit or sub-site name designated by sub_site_code. Name to appear on maps, graphs and tables identifying this subsite.	Text (60)	Yes	No
Site	10	subsite_purpose	Reason for sampling at this operable unit or area.	Text (254)	Yes	No
Site	11	subsite_desc	Physical description of this operable unit or area.	Text (254)	No	No
Site	12	program_code	Code used to identify the program under which the operable unit or area is investigated. (RCRA, CERCLA, etc.)	Text (20)	No	Program_code table
Site	13	prp_agency	Name of potential responsible party or equivalent.	Text (60)	No	No
Site	14	prp_contact_name	Contact name for prp_agency.	Text (30)	No	No
Site	15	prp_phone_number1	Phone number for prp_contact_name.	Text (60)	No	No
Site	16	prp_fax_number	Fax number for prp_contact_name.	Text (60)	No	No
Site	17	prp_phone_number2	Alternative phone number for prp_contact_name as defined by Region.	Text (60)	No	No
Site	18	prp_email	E-mail address for prp_contact_name.	Text (60)	No	No
Subsite	1	subsite_id	This is a primary key and must be unique throughout the project or facility concept. For most programs, site will correspond to the permit number. Programs that do not utilize a permit as a tracking measure will use the site name or abbreviation of the site name in this field.	Text(20)	Yes	No
Subsite	2	subsite_type		Text(20)	No	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Subsite	3	site_id	This is a tracking tool to ensure all activities/permits are tracked to an individual facility/project.	Text(20)	Yes	No
Subsite	4	subsite_name	Name of facility or site.	Text(60)	Yes	No
Subsite	6	subsite_purpose	Reason for sampling at this operable unit or area.	Text(254)	Yes	No
Subsite	7	subsite_desc	Physical description of this operable unit or area.	Text(254)	No	No
Subsite	8	subsite_address1	Site address, part one. Street address.	Text(40)	No	No
Subsite	9	subsite_contact_name	Contact name for prp_agency. The person responsible for the data submittal, i.e. the environmental manager for a facility or site. Note it is possible that a facility could have different contacts for different sites within the facility.	Text (30)	No	No
Subsite	10	subsite_address2	Site address, part two. Box number or other info.	Text(40)	No	No
Subsite	11	subsite_city	City of site.	Text (20)	No	No
Subsite	12	subsite_state	Postal abbreviation for State of site.	Text(2)	No	state_code table
Subsite	13	subsite_zipcode	Zip code of site.	Text(10)	No	No
Subsite	14	subsite_phone_number1	Phone number for prp_contact_name.	Text (30)	No	No
Subsite	15	subsite_phone_number2	Alternative phone number for prp_contact_name as defined by Region.	Text (30)	No	No
Subsite	16	subsite_fax_number	Fax number for prp_contact_name.	Text (30)	No	No
Subsite	17	subsite_email	E-mail address for prp_contact_name.	Text (60)	No	No
Test_Results	1	sample_id	Unique sample identifier. Each sample must have a unique value, including spikes and duplicates. Laboratory QC samples must also have unique identifiers.	Text (20)	Yes	No
Test_Results	2	param_name	Parameter names were derived from the Chemical Abstracts Registry (CAS) Number for the parameter if available. Otherwise EPA STORET codes were used.	Text (60)	Yes	Param_name table
Test_Results	3	cas_number	Analyte code derived from the Chemical Abstracts Registry (CAS) Number for the parameter if available. Otherwise EPA STORET codes are used. See Param_name valid value table in appendix.	Text (15)	Yes	Param_name table
Test_Results	4	fraction	Portion of the sample or substance being analyzed. Eg. T =total, D=dissolved, etc	Text (10)	Yes	Fraction table
Test_Results	5	value_type	Value type reflected in result_value. Valid values: "actual", "estimated" or "calculated".	Text (10)	Yes	Valid Values included in field description
Test_Results	6	stat_type	Statistic type reflected in the result_value. Max, min, mean, etc. Leave null if no statistical value was used.	Text (20)	No	Stat_type table
Test_Results	7	duration_basis	Time over which test or analysis or observation was conducted. Use duration_basis valid values in appendix.	Text (20)	No	Duration_basis table
Test_Results	8	temperature_basis	Temperature (degrees C) at which test or analysis or observation was conducted. Not related to temperature field for groundwater or surface water temperature. Use temperature_basis valid values.	Text (20)	No	Temperature_basis table

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Test_Results	9	result_value	The measured value of the parameter, result of analysis or test reported at an appropriate number of significant digits. May be blank for non-detects.	Text (20)	No	No
Test_Results	10	result_unit	Units of measurement for the result.	Text (15)	No	Units table
Test_Results	11	container_type	Describes the style and material of the container in which this sample was collected and transported.	Text (30)	No	Container_Type table
Test_Results	12	container_size	The volume of the container specified by container_type in the format ZZZZ.ZZ.	Text (7)	No	No
Test_Results	13	container_size_units	Units for the volume specified in container_size.	Text (3)	No	Units table
Test_Results	14	container_color	Color of the container used to collect and transport sample.	Text (15)	No	Container_color table
Test_Results	15	temp_preserve_type	Specify the type of temperature preservation used.	Text (30)	No	Temp_preserve_type table
Test_Results	16	chem_preservative	A description of the chemical preservation used.	Text (10)	No	Chem_preserve_type table
Test_Results	17	lab_anl_method_code	Laboratory analytical method code. Controlled vocabulary, see the appendix for valid values.	Text (35)	Yes	Lab_anl_method_code table
Test_Results	18	analysis_date	Date of sample analysis in MM/DD/YYYY format. May refer to either beginning or end of the analysis as required by EPA.	Date MM/DD/YYYY	Yes	No
Test_Results	19	analysis_time	Time sample analysis began in 24_hr (military) format. Note that this field, combined with the analysis_date field is used to distinguish between retests and reruns (if reported).	Text (HH:MM)	Yes	No
Test_Results	20	test_type	Type of test in the laboratory. Valid values include: "initial", "reextract1", "reextract2", "reextract3", "reanalysis", "dilution1", "dilution2" and "dilution3".	Text (10)	Yes	Valid values given in definition
Test_Results	21	lab_matrix_code	Code which describes the matrix as analyzed by the lab. May differ from sample_matrix_code. See matrix valid value table in the appendix.	Text (2)	Yes	Matrix table
Test_Results	22	analysis_location	Note where was sample analyzed. Valid values: FL for mobile Field Laboratory analysis, or LB for fixed based Laboratory analysis.	Text (2)	Yes	Valid values given in description
Test_Results	23	wet_or_dry_basis	Must be either "Wet" for wet_weight basis reporting, "Dry" for dry_weight basis reporting, or "NA" for tests for which this distinction is not applicable.	Text (3)	Yes	Valid values given in description
Test_Results	24	dilution_factor	Dilution factor at which the analyte was measured effectively. Enter "1" if not diluted.	Num (XXX.XXX)	Yes	No
Test_Results	25	prep_method	Laboratory sample preparation method code. A controlled vocabulary. See appendix for valid values.	Text (35)	No	Prep_method_code table
Test_Results	26	prep_date	Date sample preparation began in MM/DD/YYYY format.	Date MM/DD/YYYY	No	No
Test_Results	27	prep_time	Time sample preparation began in 24_hr (military) format. Time zone & daylight savings must be same as analysis_date.	Text (HH:MM)	No	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Test_Results	28	lab_name_code	Unique identifier of the laboratory as defined by the EPA. Controlled vocabulary, see the appendix for valid values.	Text (10)	Yes	Lab_name_code table
Test_Results	29	qc_level	Quality control level of analysis. Must be either "screen" or "definitive".	Text (10)	No	Valid values given in description
Test_Results	30	lab_sample_id	Laboratory LIMS sample identifier. If necessary, a field sample may have more than one LIMS lab_sample_id (maximum one per each test event).	Text (20)	No	No
Test_Results	31	percent_moisture_lab_calc	Percent moisture of the sample portion used in this test; this value may vary from test to test for any sample. Report 70.1% as 70.1 not as 70.1%.	Text (5)	No	No
Test_Results	32	subsample_amount	Amount of sample used for test.	Text (14)	No	No
Test_Results	33	subsample_amount_unit	Unit of measurement for subsample amount. Controlled vocabulary, see the appendix for valid values.	Text (15)	No	Units table
Test_Results	34	test_comment	Comments about the test, analysis, procedure, etc., as necessary.	Text (254)	No	No
Test_Results	35	final_volume	The final volume of the sample after sample preparation. Include all dilution factors.	Text (15)	No	No
Test_Results	36	final_volume_unit	The unit of measure that corresponds to the final_volume.	Text (15)	No	No
Test_Results	37	result_error_delta	Error range applicable to the result value; typically used only for radiochemistry results.	Text (20)	No	No
Test_Results	38	result_type_code	Must be either "TRG" for a target or regular result, "TIC" for tentatively identified compounds, "SUR" for surrogates, "IS" for internal standards, or "SC" for spiked compounds.	Text (3)	Yes	Valid values given in description
Test_Results	39	reportable_result	Must be "yes" for results considered to be reportable, or "no" for other results.	Text (3)	Yes	Valid values given in description
Test_Results	40	detect_flag	Must be either "Y" for detected analytes or "N" for non_detects.	Text (1)	Yes	Valid values given in description
Test_Results	41	lab_qualifiers	Qualifier flags assigned by the laboratory. This is a controlled vocabulary column. See valid values in the qualifiers table in the appendix.	Text (7)	No	Qualifiers table
Test_Results	42	validator_qualifiers	Qualifier flags assigned by the validation firm. This is a controlled vocabulary column. See valid values in the qualifiers table in the appendix.	Text (7)	No	Qualifiers table
Test_Results	43	organic_Y/N	Must be either "Y" for organic constituents or "N" for inorganic constituents.	Text (1)	No	Valid values given in description
Test_Results	44	reporting_detection_limit	Concentration level above which results can be quantified with 95% confidence limit. Must reflect conditions such as dilution factors and moisture content. Report as the sample specific detection limit.	Text (20)	No	No
Test_Results	45	quantitation_limit	Concentration level above which results can be quantified with 98% confidence limit. Must reflect conditions such as dilution factors and moisture content. Report as the sample specific quantitation limit.	Text (20)	No	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Test_Results	46	detection_limit_unit	Units of measurement for the detection limit(s). Controlled vocabulary, see Units valid value table in the appendix. This field is required if a reporting_detection_limit is reported.	Text (10)	No	Units table
Test_Results	47	result_comment	Result specific comments.	Text (254)	No	No
Test_Results	48	qc_original_conc	The concentration of the analyte in the original (unspiked) sample. Might be required for spikes and spike duplicates (depending on user needs). Not necessary for surrogate compounds or LCS samples where the original concentration is assumed to be zero.	Text (14)	No	No
Test_Results	49	qc_spike_added	The concentration of the analyte added to the original sample. Might be required for spikes, surrogate compounds, LCS and any spiked sample (depending on user needs).	Text (14)	No	No
Test_Results	50	qc_spike_measured	The measured concentration of the analyte. Use zero for spiked compounds that were not detected in the sample. Might be required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample (depending on user needs).	Text (14)	No	No
Test_Results	51	qc_spike_recovery	The percent recovery calculated as specified by the laboratory QC program. Always required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample. Report as percentage multiplied by 100 (e.g., report 120% as 120).	Text (14)	No	No
Test_Results	52	qc_dup_original_conc	The concentration of the analyte in the original (unspiked) sample. May be required for spike or LCS duplicates only (depending on user needs). Not necessary for surrogate compounds or LCS samples (where the original concentration is assumed to be zero)	Text (14)	No	No
Test_Results	53	qc_dup_spike_added	The concentration of the analyte added to the duplicate sample. Might be required for spike or LCS duplicates, surrogate compounds, and any spiked and duplicated sample (depending on user needs).	Text (14)	No	No
Test_Results	54	qc_dup_spike_measured	The measured concentration of the analyte in the duplicate. Use zero for spiked compounds that were not detected in the sample. Might be required for spike and LCS duplicates, surrogate compounds, and any other spiked and duplicated sample.	Text (14)	No	No
Test_Results	55	qc_dup_spike_recovery	The duplicate percent recovery calculated as specified by the laboratory QC program. Always required for spike or LCS duplicates, surrogate compounds, and any other spiked and duplicated sample. Report as percentage multiplied by 100 (e.g., 50% as 50)	Text (14)	No	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Test_Results	56	qc_rpd	The relative percent difference calculated as specified by the laboratory QC program. Required for duplicate samples as appropriate. Report as percentage multiplied by 100 (e.g., report 30% as 30).	Text (8)	No	No
Test_Results	57	qc_spike_lcl	Lower control limit for spike recovery. Required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample. Report as percentage multiplied by 100 (e.g., report 60% as 60).	Text (8)	No	No
Test_Results	58	qc_spike_ucl	Upper control limit for spike recovery. Required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample. Report as percentage multiplied by 100 (e.g., report 120% as 120).	Text (8)	No	No
Test_Results	59	qc_rpd_cl	Relative percent difference control limit. Required for any duplicated sample. Report as percentage multiplied by 100 (e.g., report 25% as 25).	Text (8)	No	No
Test_Results	60	qc_spike_status	Used to indicate whether the spike recovery was within control limits. Use the * character to indicate failure, otherwise leave blank. Required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample.	Text (10)	No	No
Test_Results	61	qc_dup_spike_status	Used to indicate whether the duplicate spike recovery was within control limits. Use the * character to indicate failure, otherwise leave blank. Required for any spiked and duplicated sample.	Text (10)	No	No
Test_Results	62	qc_rpd_status	Used to indicate whether the relative percent difference was within control limits. Use the * character to indicate failure, otherwise leave blank. Required for any duplicated sample.	Text (10)	No	No
Test_Results	63	test_batch_type	Lab batch type. Valid values include "Prep," "Analysis," and "Leach." This is a required field for all batches.	Text (10)	Yes	Valid values given in description
Test_Results	64	test_batch_id	Unique identifier for all lab batches.	Text (20)	Yes	No
Water_Level	1	station_id	'Location identifier of sample collection, soil boring, well installation, field observations, etc. to appear on GIS maps graphs & tables, etc. Examples of possible station_id are MW-01, SW-1, SB6, etc. Acts as a link to the Location table.	Text (20)	Yes	No
Water_Level	2	well_id	Required if location is a well. Code is the same as that used for station_id, e.g., if station_id is MW-01 then well_id is MW-01. Leave null if location is other than a well.	Text (20)	Yes	No
Water_Level	3	measurement_date	Date of field chemistry measurement, water level measurement, etc.	Date MM/DD/YYYY	Yes	No
Water_Level	4	measurement_time	Time of water level measurement, field chemistry, etc. in 24 hour (military) format.	Text (HH:MM)	Yes	No

Table	Position	Field Name	Description	Data Type	Required ?	Valid Values ?
Water_Level	5	water_level_historic_ref_elev	Historical reference elevation (in elev_unit) used calculate elevation from past water_level_depth measurements older than reference_point_start_date	Num (XXXXX.XXX)	No	No
Water_Level	6	water_level_depth	Depth (in depth_unit) to ground water below reference_point defined in well table (Table 5.3).	Num (XXXXX.XXX)	Yes	No
Water_Level	7	water_level_elev	Elevation of water level (in elev_unit).	Num (XXXXX.XXX)	No	No
Water_Level	8	water_level_depth_corrected	Depth to water level (in depth_unit) after any necessary corrections, e.g., if corrections were necessary to water_level_depth because free product was encountered.	Num (XXXXX.XXX)	No	No
Water_Level	9	water_level_elev_corrected	Corrected water level elevation (in elev_unit).	Num (XXXXX.XXX)	No	No
Water_Level	10	measured_depth_of_well	The depth (in depth_unit) below land surface to the bottom of the well.	Num (XXXXX.XXX)	No	No
Water_Level	11	depth_unit	Unit of measure for depths.	Text (10)	No	Units table
Water_Level	12	technician_name	Name of technician measuring water level.	Text (30)	No	No
Water_Level	13	well_dry_yn	Is the well dry? "Y" for yes or "N" for no.	Text (1)	No	Valid values given in description
Water_Level	14	measurement_method	Method used to make water level measurements.	Text (20)	No	No
Water_Level	15	dip_or_elevation	Use either "elevation" or "dip." Use "elevation" if water level measurement is above the datum (i.e., artesian well) or "dip" if water level is below datum.	Text (10)	Yes	Valid values given in description
Water_Level	16	water_level_remark	Remark on measurement.	Text (254)	No	No

EPAR3_DataProvider_v2

data_provider	data_contact_name	data_contact_address1	data_contact_address2	data_contact_city	data_contact_state	data_contact_zip	data_contact_email	data_contact_phone
Text (60)	Text (30)	Text (40)	Text (40)	Text (30)	Text (5)	Text (10)	Text (60)	Text (30)

site_id	site_name	site_address1	site_address2	site_city	site_state	site_zipcode	subsite_id	subsite_name	subsite_purpose	subsite_desc	program_code	prp_agency
Text (20)	Text (60)	Text (40)	Text (40)	Text (20)	Text (2)	Text (10)	Text (8)	Text (60)	Text (254)	Text (254)	Text (20)	Text (60)

prp_contact_name	prp_phone_number1	prp_fax_number	prp_phone_number2	prp_email
Text (30)	Text (30)	Text (30)	Text (30)	Text (60)

EPAR3_Subsite_v2

Subsite_id	Subsite_type	Site_id	Subsite_name	Subsite_purpose	Subsite_desc	Subsite_address1	Subsite_contact_name	Subsite_address2	Subsite_city	Subsite_state
Text [20]	Text [20]	Text [20]	Text [60]	Text [254]	Text [254]	Text [40]	Text [30]	Text [40]	Text [20]	Text [2]

EPAR3_Subsite_v2

Subsite_zipcode	Subsite_phone_number	Subsite_alt_phone_number	Subsite_fax_number	Subsite_email_address
Text [10]	Text [30]	Text [30]	Text [30]	Text [60]

EPAR3_Location_v2

data_provider	station_id	station_name	station_desc	station_county	station_state_fips	station_type1	station_type2	latitude	longitude	source_scale
Text (60)	Text (20)	Text (40)	Text (254)	Text (15)	Text (2)	Text (20)	Text (20)	Num (XX.XXXXXX)	Num (XXX.XXXXXX)	Text (10)

EPAR3_Location_v2

horz_accuracy_unit	horz_accuracy_value	horz_datum_code	horz_collect_method_code	lat_long_verification	station_comment	coord_sys_desc	x_coord
Text (10)	Num (XXXX.XXXX)	Text (3)	Text (2)	Text (1)	Text (254)	Text (3)	Num (XXXXXXXXXX.XXXX)

EPAR3_Location_v2

y_coord	coord_units	coord_datum	coord_zone	surf_elev	elev_unit	elev_datum_code	elev_accuracy_unit	elev_accuracy_value
Num (XXXXXXXXXX.XXXX)	Text (10)	Text (3)	Text (15)	Num (XXXXX.XXXX)	Text (2)	Text (3)	Text (10)	Num (XXXX.XXXX)

EPAR3_Location_v2

elev_collect_method_code	subsite_id	geometric_type_code	data_point_sequence	surveyor_name	survey_number	lat_long_coord_date	within_facility_Y_N	basin	total_depth
Text (2)	Text (8)	Text (10)	Num (XXX)	Text (254)	Text (20)	Date (MM/DD/YYYY)	Text (1)	Text (14)	Double

EPAR3_FieldResults_v2

data_provider	station_id	field_msr_id	field_msr_type	medium	field_matrix_code	measurement_date	measurement_time
Text (60)	Text (20)	Text (30)	Text (20)	Text (10)	Text (2)	Date (MM/DD/YYYY)	Text (HH:MM)

EPAR3_FieldResults_v2

field_msr_equipment_type Text (20)	field_msr_equipment_name Text (60)	field_msr_comment Text (254)	worker_name Text (50)	calibration_date Date (MM/DD/YYYY)

qapp_approval_date	sample_comment
Date (MM/DD/YYYY)	Text (254)

sample_coll_proc_id	sample_coll_proc_name	sample_coll_proc_desc	sample_coll_proc_citation
Text (8)	Text (60)	Text (254)	Text (254)

EPAR3_WaterLevel_v2

station_id	well_id	measurement_date	measurement_time	water_level_historic_ref_elev	water_level_depth	water_level_elev
Text (20)	Text (20)	Date (MM/DD/YYYY)	Text (HH:MM)	Num (XXXXX.XXXX)	Num (XXXXX.XXXX)	Num (XXXXX.XXXX)

EPAR3_WaterLevel_v2

water_level_depth_corrected	water_level_elev_corrected	measured_depth_of_well	depth_unit	technician_name	well_dry_yn
Num (XXXXX.XXXX)	Num (XXXXX.XXXX)	Num (XXXXX.XXXX)	Text (10)	Text (30)	Text (1)

measurement_method	dip_or_elevation	water_level_remark
Text (20)	Text (10)	Text (254)