HGA US EPA Region 2 Data Model

waterloo hydrogeologic
A Schlumberger Company

Description

station

PK	ID
	Type
	Name
	X
	Y
	Zone
	TAG
	Elevation
	TOC
	Depth
	Export
	data_provider
	latitude
	longitude
	station_desc
	station_county
	station_state
	station_type_1_
	station_type_2
	source_scale
	horz_accuracy_unit
	horz_accuracy_value
	horz_datum_code
	horz_collect_method_code
	lat_long_verification
	station_comment
	coord_sys_desc
	coord_units
	coord_datum
	coord_zone
	elev_unit
	elev_datum_code
	elev_accuracy_unit
	elev_accuracy_value
	elev_collect_method_code
	subsite_id
	geometric_type_code
	data_point_sequence
	surveyor_name
	surveyor_number
	lat_long_coord_date
	within_facility_yn
	basin

data_provider

FK1	**Station**
	data_provider
	data_contact_name
	data_contact_address1
	data_contact_address2
	data_contact_email
	data_contact_phone
	data_contact_city
	data_contact_state
	data_contact_zipcode

site

FK1	**Station**
	site_id
	site_name
	address1
	address2
	site_city
	site_state
	site_zipcode
	subsite_id
	subsite_name
	subsite_purpose
	subsite_desc
	program_code
	prp_agency
	prp_contact_name
	prp_phone_number
	prp_fax_number
	prp_phone_number2
	prp_email

Monitoring Event

test_results

FK1,FK2	**Station**
FK1	**sample_id**
	analysis_date_
	analysis_location
	analysis_time_
	cas_number
	chem_preservative
	container_color
	container_size
	container_size_units
	container_type
	detect_flag
	detection_limit_unit
	dilution_factor
	duration_basis
	final_volume
	final_volume_unit
	fraction
	lab_anl_method_code
	lab_matrix_code
	lab_name_code
	lab_qualifiers
	lab_sample_id
	organic_y_n
	param_name
	percent_moisture_lab_calc
	prep_date_
	prep_method
	prep_time_
	qc_dup_original_conc
	qc_dup_spike_added
	qc_dup_spike_measured
	qc_dup_spike_recovery
	qc_dup_spike_status
	qc_level
	qc_original_conc
	qc_rpd
	qc_rpd_cl
	qc_rpd_status
	qc_spike_added
	qc_spike_lcl
	qc_spike_measured
	qc_spike_recovery
	qc_spike_status
	qc_spike_ucl
	quantitation_limit
	reportable_result
	reporting_detection_limit
	result_comment
	result_error_delta
	result_type_code
	result_unit
	result_value
	stat_type
	subsample_amount
	subsample_amount_unit
	temp_preserve_type
	temperature_basis
	test_batch_id
	test_batch_type
	test_comment
	test_type
	validator_qualifiers
	value_type
	wet_or_dry_basis

field_res

FK1	**Station**
	lower_depth
	upper_depth
	calibration_date
	cas_number
	data_provider
	depth_unit
	field_matrix_code
	field_msr_comment
	field_msr_equipment_name
	field_msr_equipment_type
	field_msr_id
	field_msr_type
	measurement_date
	measurement_time
	medium
	param_name
	result_unit
	result_value
	stat_type
	value_type
	worker_name

sample_collect_procedures

FK1	**Station**
	sample_coll_proc_id
	sample_coll_proc_name
	sample_coll_proc_desc
	sample_coll_proc_citation

sample

PK,FK1	**Station**
PK	**sample_id**
	chain_of_custody
	data_provider
	upper_depth
	lower_depth
	depth_unit
	medium
	qapp_approval_date_
	sample_coll_proc_id
	sample_comment
	sample_date_
	sample_group
	sample_id_duplicate
	sample_matrix_code
	sample_receipt_date_
	sample_source
	sample_time_
	sample_type_code
	sampler_name
	sent_to_lab_date_
	station_id
	task_code

water_level

FK1,FK2	**Station**
FK1	**screen_id**
	measurement_date
	measurement_time
	dip_or_elevation
	measured_depth_of_well
	measurement_method
	station_id
	depth_unit
	technician_name
	depth_
	water_level_depth_corrected
	water_level_elev
	water_level_elev_corrected
	water_level_historic_ref_elev
	water_level_remark
	well_dry_yn
	well_id

Geologic Description

lithology

PK,FK1	**Station**
PK	**from_**
PK	**to_**
	material_type
	consolidated_yn
	geo_unit_code_1
	geo_unit_code_2
	total_depth
	color
	remark

hydrogeology

PK,FK1	**Station**
PK	**from_**
PK	**to_**
	soil

Well Construction

geolite

FK1	**Station**
	depth_to_bedrock
	depth_to_bottom_of_screen
	depth_to_top_of_screen
	reference_point_datum_code
	reference_point_desc
	reference_point_elev
	reference_point_start_date
	reference_point_unit
	step_or_linear
	total_depth
	well_id

casing

PK,FK1	**Station**
PK	**from_**
PK	**to_**
	diam_
	segment_type
	material_type_code

drilling_activity

PK	**from_**
PK	**to_**
	start_date
	drill_event
	drill_method
	diam_
	diameter_unit
	fluid
	hammer_fall
	hammer_wt
	lift_mechanism
	new_yn
	public_yn
	purpose
	repair_yn
	replace_yn
	viscosity
	deepen_yn
	abandon_yn
FK1	ID

filling_

PK,FK1	**Station**
PK	**from_**
PK	**to_**
	segment_type
	material_type_code
	inner_diameter
	outer_diameter
	diameter_unit
	material_density
	material_quantity
	remark
	sys_well_code
	thickness
	thickness_unit
	depth_unit

screen

PK,FK1	**Station**
PK	**screen_id**
	from_
	to_
	diam_
	segment_type
	screen_type
	slot_size
	slot_size_unit
	slot_type