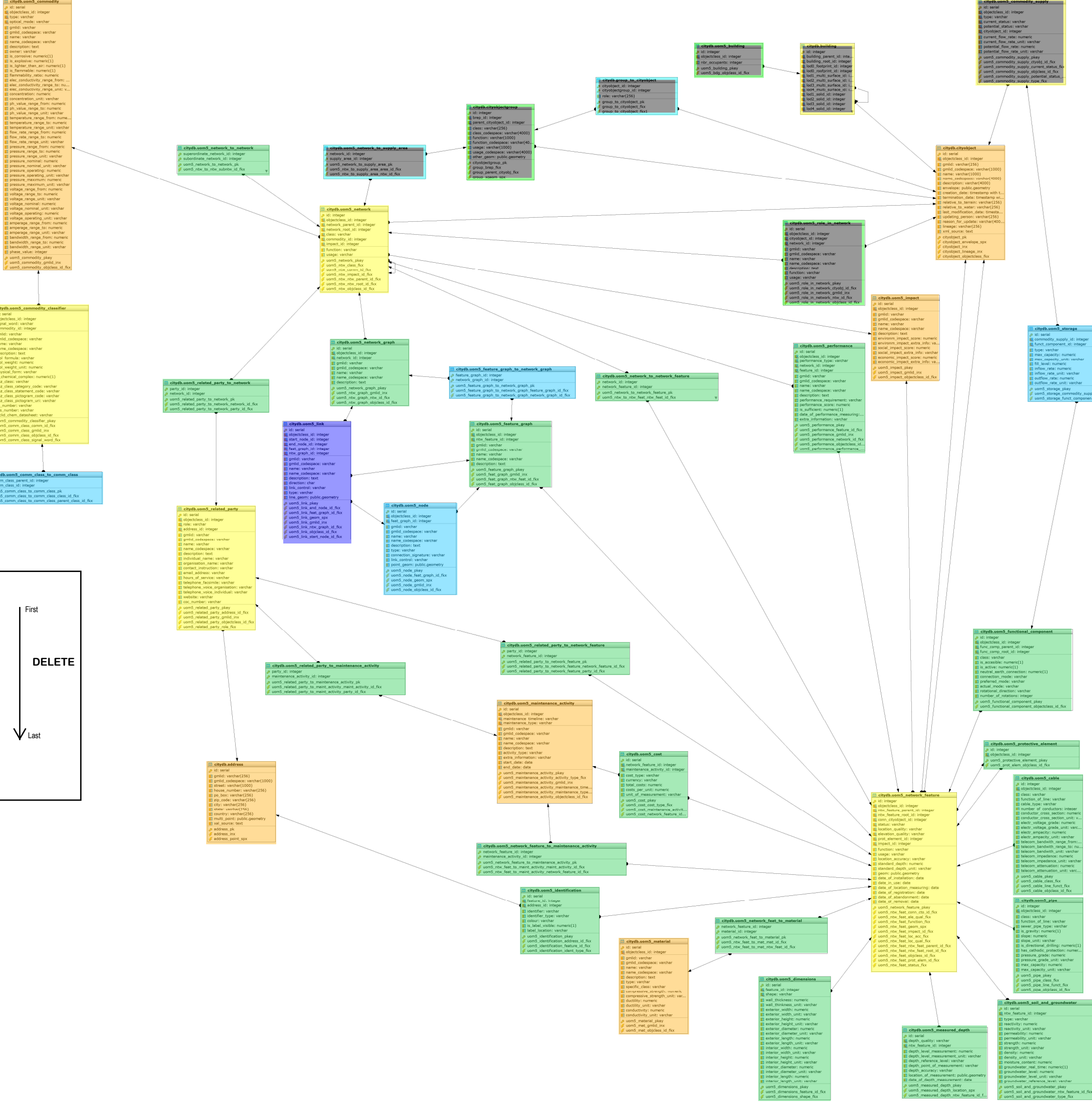


Utility Network ADE - O&M v0.5.8
Entity-relationship diagram



citydb.uom5_commodity	
id	serial
objectclass	integer
type	varchar
symbol	varchar
gridid	varchar
gridid_codepace	varchar
name	varchar
description	text
owner	varchar
is_persistent	numeric(1)
is_explosive	numeric(1)
is_higher_than_sea	numeric(1)
is_flammable	numeric(1)
flammability	numeric
elec_conductivity	range from numeric to numeric
elec_conductivity_range	range from numeric to numeric
elec_resistivity	range from numeric to numeric
elec_resistivity_range	range from numeric to numeric
concentration	numeric
concentration_unit	varchar
ph_value	range from numeric to numeric
ph_value_range	range from numeric to numeric
temperature	range from numeric to numeric
temperature_range	range from numeric to numeric
temperature_unit	varchar
class_codepace	varchar(1000)
flow_rate	range from numeric to numeric
flow_rate_range	range from numeric to numeric
flow_rate_unit	varchar
pressure	range from numeric to numeric
pressure_range	range from numeric to numeric
pressure_unit	varchar
pressure_nominal	numeric
pressure_nominal_unit	varchar
pressure_operating	numeric
pressure_operating_unit	varchar
pressure_maximum	numeric
pressure_maximum_unit	varchar
voltage	range from numeric to numeric
voltage_range	range from numeric to numeric
voltage_unit	varchar
voltage_nominal	numeric
voltage_nominal_unit	varchar
voltage_operating	numeric
voltage_operating_unit	varchar
ampereage	range from numeric to numeric
ampereage_range	range from numeric to numeric
ampereage_unit	varchar
bandwidth	range from numeric to numeric
bandwidth_range	range from numeric to numeric
bandwidth_unit	varchar
phase_value	integer
uom5_commodity_pk	integer
uom5_commodity_gmid_inx	integer
uom5_commodity_objclass_id_fnx	integer

citydb.uom5_commodity_classifier	
id	serial
objectclass	integer
signal_word	varchar
commodity	integer
gmid	varchar
name	varchar
name_codepace	varchar
description	text
mol_weight	numeric
mol_weight_unit	varchar
physical_form	varchar
is_chemical_complex	numeric(1)
haz_class	varchar
haz_class_category	varchar
haz_class_statement_code	varchar
haz_class_picturegram_code	varchar
haz_class_picturegram_unit	varchar
ec_number	varchar
cas_number	varchar
uom5_commodity_classifier_pk	integer
uom5_commodity_class_gmid_inx	integer
uom5_commodity_class_gmid_inx	integer
uom5_commodity_class_objclass_id_fnx	integer
uom5_commodity_class_signal_word_fnx	integer

citydb.uom5_comm_class_to_comm_class	
comm_class_parent_id	integer
comm_class_id	integer
uom5_comm_class_to_comm_class_pk	integer
uom5_comm_class_to_comm_class_id_fnx	integer
uom5_comm_class_to_comm_class_parent_id_fnx	integer

citydb.uom5_network_to_network	
superordinate_network_id	integer
subordinate_network_id	integer
uom5_network_to_network_pk	integer
uom5_network_to_network_id_fnx	integer
uom5_network_to_network_subordinate_id_fnx	integer

citydb.uom5_network_to_supply_area	
supply_area_id	integer
uom5_network_to_supply_area_pk	integer
uom5_network_to_supply_area_id_fnx	integer
uom5_network_to_supply_area_id_fnx	integer

citydb.cityobjectgroup	
id	integer
brief	integer
parent_cityobject_id	integer
class	varchar(256)
class_codepace	varchar(4000)
function	varchar(1000)
usage	varchar(1000)
usage_codepace	varchar(4000)
other_geom	public.geometry
cityobjectgroup_pk	integer
group_brief_fnx	integer
group_parent_cityobj_fnx	integer
group_name_fnx	integer

citydb.citygroup_to_cityobject	
cityobject_id	integer
cityobjectgroup_id	integer
group_to_cityobject_pk	integer
group_to_cityobject_fnx	integer
group_to_cityobject_fnx	integer

citydb.uom5_building	
id	integer
building_parent_id	integer
nbr_occupants	integer
uom5_building_pk	integer
uom5_building_objclass_id_fnx	integer

citydb_building	
id	integer
building_parent_id	integer
building_nbr_id	integer
lod1_multi_surface_id	integer
lod2_multi_surface_id	integer
lod3_multi_surface_id	integer
lod4_multi_surface_id	integer
lod1_solid_id	integer
lod2_solid_id	integer
lod3_solid_id	integer
lod4_solid_id	integer

citydb.uom5_commodity_supply	
id	serial
objectclass	integer
type	varchar
current_flow_rate	numeric
current_flow_rate_unit	varchar
potential_flow_rate	numeric
potential_flow_rate_unit	varchar
uom5_commodity_supply_pk	integer
uom5_commodity_supply_current_status_fnx	integer
uom5_commodity_supply_current_status_fnx	integer
uom5_commodity_supply_potential_status_fnx	integer
uom5_commodity_supply_type_fnx	integer

citydb.cityobject	
id	serial
objectclass	integer
gmid	varchar(256)
name	varchar(1000)
name_codepace	varchar(1000)
description	varchar(4000)
envelope	public.geometry
creation_date	timestamp with time zone
termination_date	timestamp with time zone
relative_to_basem	varchar(256)
relative_to_water	varchar(256)
last_modification_date	timestamp with time zone
reason_for_update	varchar(4000)
image	varchar(256)
xmldata_source	text
cityobject_pk	integer
cityobject_envelope_sps	integer
cityobject_inx	integer
cityobject_image_inx	integer
cityobject_objclass_id_fnx	integer

citydb.uom5_role_in_network	
id	serial
objectclass	integer
cityobject_id	integer
network_id	integer
role	varchar
name	varchar
name_codepace	varchar
neuroscience	varchar
usage	varchar
uom5_role_in_network_pk	integer
uom5_role_in_network_cityobj_id_fnx	integer
uom5_role_in_network_network_id_fnx	integer
uom5_role_in_network_role_id_fnx	integer
uom5_role_in_network_role_id_fnx	integer

citydb.uom5_impact	
id	serial
objectclass	integer
gmid	varchar
name	varchar
name_codepace	varchar
description	text
environmental_impact_score	numeric
environmental_impact_score_unit	varchar
social_impact_score	numeric
social_impact_score_unit	varchar
economic_impact_score	numeric
economic_impact_score_unit	varchar
uom5_impact_pk	integer
uom5_impact_gmid_inx	integer
uom5_impact_objclass_id_fnx	integer

citydb.uom5_storage	
id	serial
commodity_supply_id	integer
func_comp	integer
type	varchar
max_capacity	numeric
max_capacity_unit	varchar
inflow_rate	numeric
inflow_rate_unit	varchar
outflow_rate	numeric
outflow_rate_unit	varchar
uom5_storage_commodity_supply_pk	integer
uom5_storage_func_comp_inx	integer

citydb.uom5_performance	
id	serial
objectclass	integer
performance_type	varchar
network_id	integer
feature_id	integer
name	varchar
name_codepace	varchar
description	text
performance_requirement	varchar
performance_score	numeric
is_sufficient	numeric(1)
extra_information	varchar
uom5_performance_pk	integer
uom5_performance_feature_id_fnx	integer
uom5_performance_gmid_inx	integer
uom5_performance_network_id_fnx	integer
uom5_performance_objclass_id_fnx	integer
uom5_performance_performance_fnx	integer

citydb.uom5_feature_graph_to_network_graph	
feature_graph_id	integer
network_graph_id	integer
uom5_feature_graph_to_network_graph_pk	integer
uom5_feature_graph_to_network_graph_feature_id_fnx	integer
uom5_feature_graph_to_network_graph_network_graph_id_fnx	integer

citydb.uom5_network_graph	
id	serial
objectclass	integer
network_id	integer
gmid	varchar
name	varchar
name_codepace	varchar
description	text
uom5_network_graph_pk	integer
uom5_network_graph_id_fnx	integer
uom5_network_graph_objclass_id_fnx	integer

citydb.uom5_related_party_to_network	
party_id	integer
network_id	integer
uom5_related_party_to_network_pk	integer
uom5_related_party_to_network_id_fnx	integer
uom5_related_party_to_network_id_fnx	integer

citydb.uom5_link	
id	serial
objectclass	integer
start_node_id	integer
end_node_id	integer
link_graph_id	integer
link_id	integer
name	varchar
name_codepace	varchar
description	text
link_control	varchar
type	varchar
line_geom	public.geometry
uom5_link_pk	integer
uom5_link_start_node_id_fnx	integer
uom5_link_end_node_id_fnx	integer
uom5_link_graph_id_fnx	integer
uom5_link_id_fnx	integer
uom5_link_id_fnx	integer

citydb.uom5_feature_graph	
id	serial
objectclass	integer
feature_id	integer
name	varchar
name_codepace	varchar
description	text
uom5_feature_graph_pk	integer
uom5_feature_graph_id_fnx	integer
uom5_feature_graph_id_fnx	integer
uom5_feature_graph_id_fnx	integer

citydb.uom5_node	
id	serial
objectclass	integer
feature_id	integer
name	varchar
name_codepace	varchar
description	text
type	varchar
connection	signature
link_control	varchar
point_geom	public.geometry
uom5_node_pk	integer
uom5_node_feature_id_fnx	integer
uom5_node_id_fnx	integer
uom5_node_id_fnx	integer

citydb.uom5_related_party	
id	serial
objectclass	integer
address	integer
gmid	varchar
name	varchar
name_codepace	varchar
description	text
individual_name	varchar
organization_name	varchar
contact_instruction	varchar
email_address	varchar
hours_of_service	varchar
telephone_facsimile	varchar
telephone_voice	varchar
telephone_voice_individual	varchar
website	varchar
cc_number	varchar
uom5_related_party_pk	integer
uom5_related_party_address_id_fnx	integer
uom5_related_party_gmid_inx	integer
uom5_related_party_objclass_id_fnx	integer
uom5_related_party_role_fnx	integer

citydb.uom5_related_party_to_network_feature	
party_id	integer
network_feature_id	integer
uom5_related_party_to_network_feature_pk	integer
uom5_related_party_to_network_feature_id_fnx	integer
uom5_related_party_to_network_feature_id_fnx	integer

citydb.uom5_maintenance_activity	
id	serial
objectclass	integer
maintenance_times	varchar
maintenance_type	varchar
gmid	varchar
name	varchar
name_codepace	varchar
description	text
activity_type	varchar
extra_information	varchar
start_date	date
end_date	date
uom5_maintenance_activity_pk	integer
uom5_maintenance_activity_id_fnx	integer
uom5_maintenance_activity_id_fnx	integer
uom5_maintenance_activity_id_fnx	integer

citydb.uom5_cost	
id	serial
network_feature_id	integer
maintenance_activity_id	integer
cost_type	varchar
currency	varchar
total_cost	numeric
cost_per_unit	numeric
unit_of_measurement	varchar
uom5_cost_pk	integer
uom5_cost_network_feature_id_fnx	integer
uom5_cost_maintenance_activity_id_fnx	integer

citydb.uom5_network_feature_to_maintenance_activity	
network_feature_id	integer
maintenance_activity_id	integer
uom5_network_feature_to_maintenance_activity_pk	integer
uom5_network_feature_to_maintenance_activity_id_fnx	integer
uom5_network_feature_to_maintenance_activity_id_fnx	integer

citydb.uom5_identification	
id	serial
feature_id	integer
address_id	integer
identifier	varchar
identifier_type	varchar
color	varchar
is_label_visible	numeric(1)
label_location	varchar
uom5_identification_pk	integer
uom5_identification_address_id_fnx	integer
uom5_identification_feature_id_fnx	integer
uom5_identification_id_fnx	integer

citydb.uom5_material	
id	serial
objectclass	integer
gmid	varchar
name	varchar
name_codepace	varchar
description	text
type	varchar
specific_class	varchar
compressive_strength	numeric
compressive_strength_unit	varchar
ductility	numeric
ductility_unit	varchar
conductivity	numeric
conductivity_unit	varchar
uom5_material_pk	integer
uom5_mat_gmid_inx	integer
uom5_mat_objclass_id_fnx	integer

citydb.uom5_dimensions	
id	serial
feature_id	integer
type	varchar
well_thickness	numeric
well_thickness_unit	varchar
exterior_width	numeric
exterior_width_unit	varchar
exterior_height	numeric
exterior_height_unit	varchar
interior_width	numeric
interior_width_unit	varchar
interior_height	numeric
interior_height_unit	varchar
interior_diameter	numeric
interior_diameter_unit	varchar
interior_length	numeric
interior_length_unit	varchar
uom5_dimensions_pk	integer
uom5_dimensions_feature_id_fnx	integer
uom5_dimensions_shape_fnx	integer

citydb.uom5_measured_depth	
id	serial
depth_quality	varchar
depth_level	integer
depth_level_measurement	numeric
depth_level_measurement_unit	varchar
depth_reference_level	varchar
depth_accuracy	numeric
location_of_measurement	public.geometry
date_of_depth_measurement	date
uom5_measured_depth_pk	integer
uom5_measured_depth_location_sps	integer
uom5_measured_depth_location_sps	integer
uom5_measured_depth_location_sps	integer

citydb.uom5_soil_and_groundwater	
id	serial
feature_id	integer
type	varchar
newdosity	numeric
reactivity	numeric
permeability	numeric
strength	numeric
density	numeric
density_unit	varchar
measure_content	numeric
groundwater_real_time	numeric(1)
groundwater_level	numeric
groundwater_level_unit	varchar
groundwater_reference_level	varchar
uom5_soil_and_groundwater_pk	integer
uom5_soil_and_groundwater_location_sps	integer
uom5_soil_and_groundwater_type_fnx	integer