Potential to Impact Gro	undwater Evaluation Form (Was	stewater Effluent, Sludge and Se	ptage Land Application)
Name of Project and any existing NPDES			
or ND Permit Numbers?			
Report the type(s) of Land Application:	<u>Effluent</u>	<u>Septage</u>	<u>Sludge</u>
Are there currently Groundwater	Yes		No
Monitoring Wells at the site?			
THE FOLLOWING OUESTIONS ARE II	THE RELATIVE POTENTIAL STREET OF THE POTENTIAL S	AL FOR LAND APPLICATION TO IMPACT THE	ENVIRONMENT OR PUBLIC HEALTH.
	potential for impact if such conditions are	present at any land application site covered ation for any question not answered.	
DOTENTIAL TO IMPACT	•		LICUEST
POTENTIAL TO IMPACT	LOWER	HIGHER	HIGHEST
Compliance History (if none, select this box)	No Notice of Violation(s) (NOV) related to wastewater effluent application or sludge/septage land application since permit effective date	NOV (related to a wastewater or sludge or septage land application) issued since permit effective date OR New site	Under a Consent order specifically related to an effluent, septage, or sludge land application site, or a wastewater treatment system processing wastewater, septage, or sludge.
Nitrate Nitrogen level detected in existing monitoring well network (if "No wells", select this box.)	Less than two (2) mg/L for all wells	Between two (2) to seven and one half (7 1/2) mg/L for any well	Greater than seven and one half (7 1/2)mg/L OR a rapidly increasing trend which may exceed seven and one half (7 1/2)mg/L in future.
Site(s) distance to potable drinking water wells (for multiple application sites, report for the site with the closest potable drinking water wells).	Greater than 200 Feet	100 to 200 feet	Less than 100 feet
Geologic setting	Confining unit below surficial aquifer (Cooper Marl)	Piedmont / Lower Coastal Plain	Upper Coastal Plain / Sand Hills
Plant Available Nitrogen in upper 12 inches of Soil	Less than 50 lb/ac	50-150 lb/ac	More than 150 lb/ac
Total Nitrogen in wastewater effluent, septage, or sludge material (Nitrate-Nitrogen + Ammonia- Nitrogen + Organic-Nitrogen)	Less than 10 mg/l for last two (2) years or the last twelve (12) samples OR equivalent using a dry weight basis	Between 10 mg/l and 20 mg/l for last two (2) years or the last twelve (12) samples OR equivalent using a dry weight basis	Greater than 20 mg/l for last two (2) years or the last twelve (12) samples OR equivalent using a dry weight basis
Consistency of Nitrogen content in the wastwater effluent, septage, or sludge (using statistical methods)	Variance of less than 10 for last two (2) years or the last twelve (12) samples	Variance 10 to 19 for last 2 years or the last twelve (12) samples or no data available (e.g. a new facility)	Variance of 20 or greater for the last two (2) years or the last twelve (12) samples
Are PAHs, PCBs, BTEX, Dioxin, Trihalomethanes, or Chlorinated Solvents present in the wastewater effluent or process water.	Not known to be present in any stage of the treatment works	Known to be present in the influent but not the effluent / sludge	Known to be present in effluent / sludge
Percent of recommended Plant Available Nitrogen (PAN) Applied Annually	Thirty-three (33%) or less	Thirty four (34%) to sixty-six(66%)	More than sixty-six (66%)
Year round crop/cover on site (for golf course effluent irrigation, report N/A)	Yes	N/A	No

Seasonal High Water Table (SHWT)	Greater than 10 feet	Between five(5) and ten (10) feet	Less than five (5) feet
Inorganic Nitrogen Fertilizer Applied	None	100 lb/ac or less	Greater than 100 lb/ac
Application frequency	Every fourth year or greater	Every other OR third year	Every year
Application occurs immediately prior to planting or during periods of high growth(nutrient uptake)	Always	Sometimes	Never
Irrigation (For sludge sites only, select this box for any other type.)	No		Yes
Application Timing (For "golf course" land application sites, select this box)	Split in order to maximize uptake, no winter application	Spread One-time OR at variable spray rates by season	Constant
Distance to nearest surface water (including intermittent streams) as defined by R.61-69 (Classified Waters).	Greater than 200 feet	Between 100 and 200 feet	Less than 100 feet
Flood Plain (note if the flood plain identification is due to Coastal Zone Classification) For effluent irrigation, select this box, unless the site does not meet R61-9.505.41(p), then answer question.	Above the 500 year FEMA flood level. (Zone C)	Between the 100 year and 500 year FEMA flood level. ( Zone B)	Inside the 100 year FEMA flood zone.
Vegetative buffer	All buffers are multiple zone riparian buffers with slopes less than 3%	Some vegetation or features which impair the flow of water	No vegetation or flow reduction measures in setback area
Site Slope	All fields less than 3%	3 to 10%	Greater than 10 % in any field
Crop fate (where/how is the harvested crop (e.g. grass, hay, etc.) taken off the land application site used)	To market or used for onsite energy production	Given away	To landfill or burned
Nutrient Source Acquisition (where/how is the current source of nitrogen for the land application site being acquired or planned to be acquired (for new projects/sites).	Paid for/Purchased (e.g. commercial fertilizer)	Given/ Own/Transfer from another location	The applicant is paid to take the nitrogen source
Based on the information above, propose an overall risk ranking for the land application project (sludge, effluent or both). Low or High.	Select this box for Low RIsk		Select this box for High Risk

Provide supplemental comments here or include an attachment:

Regulatio 61-9 505.41(a) Misrepresentation of Information. (1) Any person making application for a Land Application permit or State permit or filing any record, report, or other document pursuant to a regulation of the Department, shall certify that all information contained in such document is true. All application facts certified to by the applicant shall be considered valid conditions of the permit issued pursuant to the application. (2) Any person who knowingly makes any false statement, representation, or certification in any application, record, report, or other documents filed with the Department pursuant to the State law, and the rules and regulations pursuant to that law, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for pursuant to 48-1-320 or48-1-330.