



Florida Department of Environmental Protection

Environmental Assessment and Restoration

Flow of Communication for Fifth Year Inspections

March 31, 2016





Review of Draft FYI List

- AEQAs reviews the draft list with Standards Development Section(SDS) to determine if there are any Hierarchy 1 standards in effect or in process for NNC of the receiving waters.



Finalizing the List

- A final list of facilities and schedule is issued for FY15 studies.
- District staff complete facility summaries and send to Biology, AEQAs, and ROCs.
 - Summary includes:
 - Conducted or plans to conduct biological monitoring
 - Conducted or plans to conduct how far downstream facility's effluent has reasonable potential to cause NNC impairment.



Preparing for FYI5

- ROCs and Biology gather info about the facility, the discharge point and the receiving water body.
 - Use GIS, SBIO, previous reports, and local knowledge to select potential, relevant sampling stations for control and test locales.
- Agree via teleconference over the following
 - Study design-locations and parameters to be sampled
 - Waterbody type of downstream waters in relation to NNC applicability
 - Available data from SBIO (i.e. SCI, HA, LVI, RPS)
- May need FYI5 planning meeting



Site Recon

- **WHO** is involved?
 - ROCs, DI, PW, and facility representatives
- **WHY** is site reconnaissance conducted?
 - To determine if sites are appropriate for NCC and/or FYI assessment
 - Determine whether NNC or narrative criteria apply to receiving waters and downstream waters
- **HOW** to determine the estimate the point of no longer imposing potential impairment?
 - Specific conductance method
 - Observing flow volume to estimate effluent influence downstream



Recon Template

- Summarizes info about the facility
- Info about NNC compliance of receiving water body

Numeric Nutrient Criteria Assessment Reconnaissance and Study Plan:

Facility Name (FLxxxxxxx)

Purpose: To summarize the results of a reconnaissance survey of receiving waters and a preliminary study plan for the assessment of whether the receiving waters attain the applicable numeric nutrient criteria (NNC) for this facility.

1. Site Description:

Facility:	
NPDES #:	
Location (City, County) (Figure 1):	
Facility Type:	
Type of Discharge:	<i>Batch reactor? Approx. interval?</i>
Permitted volume of discharge:	
Outfall / immediate receiving water:	
Downstream receiving water:	
Estimated downstream point at which effluent does not have reasonable potential to cause impairment (if known):	<i>Provide any available information, including waterbody, <u>lat/longs</u>, road crossing, and distance downstream.</i>
Do the immediate or downstream receiving waters have a Hierarchy I interpretation for NNC? If so, list here:	<i>Ask for help from Water Quality Standards program staff if needed. Shapefile will soon be available on Basin 411 page with this information.</i>
Nutrient Region (if stream or estuary):	



Recon Template

- Info regarding conditions of the facility during reconnaissance
- A map detailing sampling locations, the facility and its discharge point

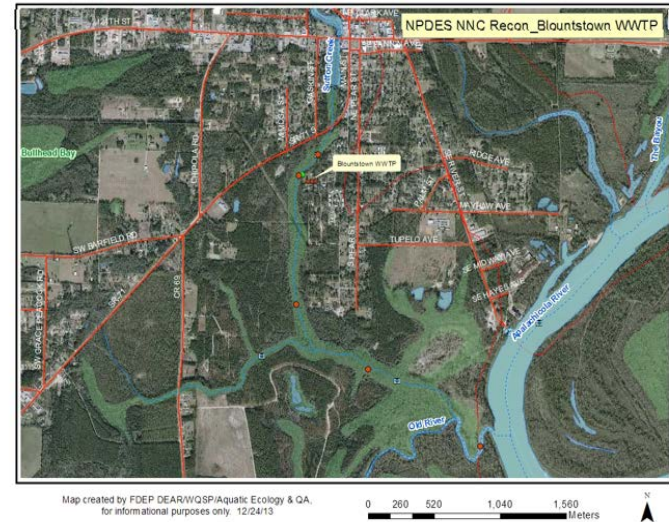


Figure 1. Location of the **City of Blountstown WWTF**, **Sutton Creek**, **Old River** and **Apalachicola River**. Red dots represent recon sites. Green dot represents the facility's outfall.

2. Recon Event – See Table 1 for recon information for each site. See Figures 2-X for recon photos.

Recon date:	
Recon staff and affiliation:	
Facility discharging at time of visit?	
If not, time of last discharge:	

Include text here for brief recon description or any information too lengthy to include in Table 1.



Recon Template

- Describes receiving waterbody, determine which criteria apply
- Outlines assessments needed

3. Determination of Waterbody Type, Applicable Nutrient Criteria and Parameters to be Sampled

Receiving Water Site Name	Site 1	Site 2	Site 3	
Description	Control/near/etc.			
Is there flowing water?				
Is there a defined channel?				
Are aquatic plants routinely managed (sprayed or removed) within the channel?				
Other notes for determining the applicable criteria				
NNC Waterbody Type				
Numeric or Narrative Criteria Apply?				
Parameters to sample	Nutrients, LVS, RPS, SCI			

- Briefly summarize any additional information about the receiving and downstream waters, the water body types, and whether numeric criteria or the narrative would apply. Use definition of Stream from 62-302 (below) as a guide, including information about whether or not there is a defined channel with banks and whether the system is consistently flowing.
- Include any additional information about the Habitat Assessment for the site recons as it relates to determining the criteria that apply. (discussion on channelization, habitat diversity and availability, and any routine maintenance of the receiving water; these factors are used to determine if NNC apply, per page 57 of the Implementation document (below).)



Recon Template

- Water chemistry at time of the visit is recorded, can use conductivity as surrogate to trace most effluent
- Sampling plan for the FYI5 is should be included

Table 1. Site recon information for the City of Blountstown WWTF receiving and downstream waters. (Include brief description here, but if detailed paragraph needed, include in section 2 above.)

Receiving Water Site Name	control-test/near-far	control-test/near-far	control-test/near-far	control-test/near-far
Time of visit				
Reasonable potential of effluent to cause nutrient impairment?				
How was reasonable potential determined?				
Describe conditions at site: (riparian, habitat, flow, etc)				
Describe changes from previous visits: (riparian, habitat, etc.)?				
Relevant, useful historical background:				
Aquatic plants observed >2m ² ?				
Algae observed in nuisance amounts?				
Observable factors with potential to affect expression of nutrient impacts: (canopy, time of yr, riparian veg, etc.)				
Other notes about site: (floodplain so high potential rainfall effects, how access site, special permissions or contacts)				
Measured field parameters				
Temperature (°C)				
pH (SU)				
Specific Conductance (µmhos)				
DO (% sat)				
DO (mg/L)				



Approval of Sampling Plan

- NNC consideration may require nutrient and/or biological sampling further downstream than in past FYI5 assessments.
- ROCs use Report Tracker to gain approval for sampling strategy.
- When approved, ROCs consult with the person performing LIMS scheduling (Jen Walters) to obtain necessary materials for FYI5.
- If another biological sampling event is required, ROCs schedule the receiving water sampling event 3 months prior to FYI5 event.



Approved

- ROCs collect samples and field data for FYI5 and NNC compliance.
- District staff sends updated facility summary (with photos for inclusion in report) to Biology.