

MINUTES
OF
MEETING FOR SUGAR PINE WASTEWATER PROJECT
MONROE COUNTY/ DEP /FKAA

July 7, 2008
Fort Myers/Marathon

Introductions made. See attached attendance list. Attendees from FDEP-South District, Monroe County and FKAA were present.

Service Area of project presented by FKAA and discussion of the change from initial Master Plan (three treatment plants) to revised plan with one treatment plant on Cudjoe Key to handle the entire service area.

Project Schedule discussed. Design is underway and to be completed within about 1 year. Permitting is to be completed within similar timeframe, so construction can begin on critical project elements by middle of 2009. Construction will be phased for workload and financing this large project.

Collection Systems

- System permit application can be submitted as dry line request, as no plant is currently available. Can be 1 or more applications, depending upon phasing, contiguous areas or engineering break-out.
- FDEP input on system types
 - o Gravity preferred wherever possible for reliability
 - o El low pressure grinder pumping system/force mains okay where gravity not available
 - Need agreement with users for operations, easement, and electrical supply
 - o Vacuum systems show failure, not preferred
 - o STEP not preferred. Problems with tanks and maintenance
 - o STEG - none in District; question system capabilities

- ERP permitting needs to cover any and all wetland areas being crossed by the pipeline systems.

Channel Crossings

- Numerous waterway crossings are required for collecting and transmitted the wastewater from the islands in the service area to the new WRF on Cudjoe Key. Pipes will be attached to County and FDOT bridges to the maximum extent possible and feasible. The pipe alignment and details for these bridge crossings will be presented in the collection system permit application documents.
- The Niles Channel crossing may be most feasible by attaching the pipeline to the older bridge, currently under FDEP Heritage Park jurisdiction. If this alignment proves the most feasible and beneficial, a few hundred feet of open channel along this route would require a submerged pipeline (since a portion of the old bridge has been removed for navigation at the center of the channel). Discussion over the different techniques:
 - Open cut would be first choice. Construction means and methods and pipe details would need to show minimization of environmental impacts during and after construction.
 - Easement and submerged land approval would be required.
 - Directional drilling would be challenging in the fragmented rock, per FDEP, as drilling mud could escape and could cause both construction problems and environmental impacts.
- ERP permitting will need to cover the submerged pipeline crossing, if selected as most feasible.

Water Reclamation Facility (WRF)

- Project site located on unused cells of Cudjoe landfill
 - County needs to apply for land use change as owner
 - Agreement with FKAA for land use or ownership
 - Current stormwater permit to under SFWMD jurisdiction; but new WRF will be FDEP jurisdiction
- Project phasing
 - May apply for 2 phase permit. Phase 1 for under 1 MGD, and Phase 2 to about 1.5 MGD
 - Will allow sequencing to match collection system tie-in and flow increase, and will allow disposal options to be better pursued and financed
- Deep well requirements
 - One or two wells required when plant flow approaches 1 MGD

- Will look at overall disposal options during WRF preliminary design. A combination of reuse, shallow wells, and single deep well may provide best long-term operation.
- Reuse Feasibility Study is required per FDEP rule. FKAA and Monroe County interested in reuse option for portion of service area which looks cost competitive.
- Existing site will need evaluation for:
 - Potential migration of landfill leachate resulting from construction and/or operation of new WRF
 - Potential location for deep well(s), as the preliminary layout for WRF will be tight for 1.5 MGD AWT system

Summary of Activity Anticipated

1. Permitting

- a. Dry-line Collection Systems - 2 applications:
 - i. Central Islands (Mathews)
 - ii. Outer Islands (Chen)
- b. Environmental Resource Permit (ERP) - 3 applications:
 - i. Pipeline routes and pump station locations, if needed
 - ii. WRF Site
 - iii. Niles Channel crossing
- c. WRF Permit Application for 2 phased flow approach
- d. Injection well(s) - 2 phased approach
 - i. Shallow wells for initial plant flow
 - ii. Deep well(s) for second phase
- e. Permittee
 - i. FDEP recommended joint application as permittee - Monroe County/FKAA. Need further discussion and clarification for various permits and areas of responsibilities. Yet, FDEP would like similarity of all applications of project.

FKAA DEP Meeting

July 7, 2008

10:00 am

Abdul B. Ahmadi	DEP	239-332-6975	ext. 141
JAEC D. MYERS	"	"	113
Charles DAVOULT	"	"	x165
Ghaus Minkaj	"	"	x185
DAVE Rhodes	"	"	x125
RAY SHIMOKAWA	FKAA	305 296 2454	
Lucy Blair	DEP	239-332-6975	x157
Tom Walker	FKAA	305/296-2454	
Julie Cheon	"	"	
Judy Clark	Monroe Co.	305/295-4329	
Gus Rios	DEP Moradon	305/289/2310	
Steve Johnson	"	"	"
Ed Russell	Environmental Specialist	"	"