

Pre-submittal Conference

Alissa R. Lockett, P.E., PMP

Project Engineer – Treatment & Recycle Engineering

Re-rating Phase II RFQ Schedule

Questions Due

May 1, 2012

Proposals Due

May 14, 2012

Notification

June 19, 2012













Answers Posted

May 4, 2012

Interviews (if necessary) June 2012 SAWS Board Award

August 2012



Point of Contact for Questions

Maria Franco
Contract Administration

mfranco@saws.org

Project Approach - 35 Points

- Work plan
 - Tasks / Durations
 - Resources
 - Special considerations
- Project schedule
 - 360 days, inclusive of SAWS review time
- Discuss measures for schedule and budget (design and construction) adherence
- QA / QC procedures (project specific)



Project Team and Resumes - 30 points

- Organizational Chart
- Project Manager's record of experience
- Resumes
 - Not more than 1 page per team member
 - Not more than ½ page per sub-consultant team member
- Sub-consultants
- Availability to perform the work and meet the schedule



Team Experience - 20 points

- List at least four (4) similar projects in the past five (5) years over \$10 million
- Specify respondent's / team member's roles on each project
- Include <u>current</u> references



SMWB Participation - 15 points

- Design may be TWDB funded
- Adhere to requirements listed in Addendum 1
- For assistance or clarifications, contact Mr. Rene Gonzalez, DBE & Policy Coordinator with TWDB at (512) 463-2634

Background

Changes Since 2005 Re-rating Master Plan

Reduction in Projected Wastewater Flows

- Slow down in population growth
- Maintain Leon Creek WRC at 46 mgd AADF
- Conservation

Change in Influent Wastewater Quality

- Conservation (higher strength)
- Ferrous sulfate (collection system odor control)

Future Effluent Nutrient Criteria

- Next permit renewal in 2015
- TP limits may be imposed
- TN limits on the horizon





Flow Projections Summary

Previous vs. Proposed

	Previous 2027 Flows (mgd) ¹	Proposed 2030 Flows (mgd) ²
Annual Average Daily Flow (AADF)	217	137
Maximum Month Flow (MMF)	240	165
Peak 2-hour Flow (P2HF)	439	343

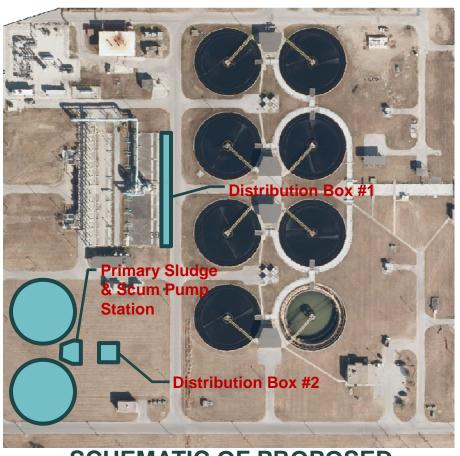
¹ Re-rating Report (CDM, 2005)



² Capacity Evaluation of Dos Rios WRC Secondary Treatment Facilities (SAWS, 2012); peaking factor increased from 2.0 to 2.5 to include diverted flows from Leon Creek WRC and SBSP (MRSO)

Proposed Facilities

Overview



- Primary Settling Tank(s)
- Primary Sludge and Scum Pump Station
- Distribution Box(es)

SCHEMATIC OF PROPOSED FACILITIES



Proposed Facilities

Considerations

- Determine optimal method for flow splitting
- Size primary settling tank(s) for future flow
- Evaluate optimal location for primary settling tank(s)
- Conduct technology evaluation for primary sludge and skimmings pumps
- New electrical buildings for existing primary settling tank electrical equipment / controls



Existing Facilities Rehabilitation

Overview



- Primary Settling Tanks
- Primary Sludge and Skimmings Pump Stations
- Primary Effluent Channel Blower Station



Existing Facilities

Primary Settling Tanks

Number of Tanks	8
Tank Diameter	140.0 ft
Side Water Depth	12.0 ft
Surface Overflow Rate at Rated Flow (125 mgd)	1,015 gpd/sf
Surface Overflow Rate at Peak 2-hr Flow (250 mgd)	2,030 gpd/sf
Detention Time At Rated Flow (125 mgd)	127 min

Dos Rios WRC Re-rating Phase II Pre-submittal Conference



Existing Facilities

Primary Sludge and Skimmings Pump Stations

Number of Stations Type of Primary Sludge Pumps

Number of Primary Sludge Pumps per Station 3

Capacity / TDH of Primary Sludge Pumps

Type of Primary Skimmings Pumps

Number of Primary Skimmings Pumps per Station

Capacity / TDH of Primary Skimmings Pumps

Plunger (triplex)

220 gpm / 125 ft

Progressive Cavity

2

150 gpm / 90 ft



Existing Facilities

Scope Items

- Replace clarifier drives, scraper arm, skimmings arm, skimmings box, etc.
- Addition of sludge withdrawal ring and other clarifier optimization package features
- Rehabilitate primary sludge and skimmings pump stations (including mixers, valves, piping, etc.)
- Rehabilitate Primary Effluent Channel Blower Station and Diffuser System



Questions







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