Perry, City

Wastewater Capital Facilities Plan

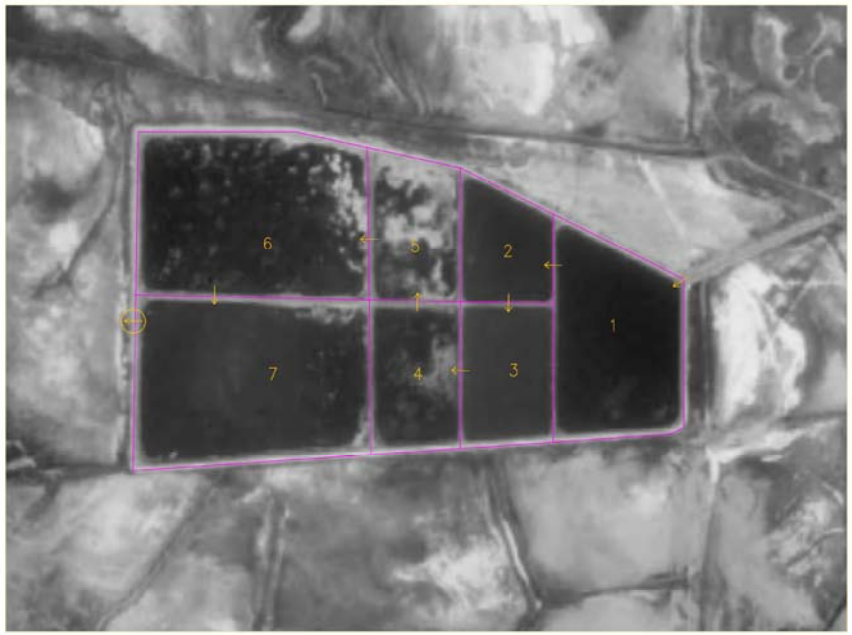
July 18, 2007

Purpose of Tonight's Meeting

- Review Existing Treatment System & Discharge Requirements
- Provide Overview of Studied Alternatives
- Review Alternatives Analyzed
- Review Selected Alternative
- Review Engineers Opinion of Probable Costs
- Review Final Costs to End Users

Existing Lagoon System

- 7 Total Cells
  - Total Volume is 64.03 MG
  - Primary Cell has a surface area of ± 9 acres
  - Sludge continues to accumulate in cell



Existing Discharge Permit

	Permit Requirement Limit
BOD, mg/l	25 mg/l
TSS, mg/l	25 mg/l
Ammonia, (as N) mg/l	
Winter (Dec-Feb)	1.43 mg/l
Summer (Jun-Aug)	0.83 mg/l
Fall (Sept-Nov)	1.06 mg/l
Spring (Mar-May)	1.06 mg/l

Existing Lagoon System Capacities

- Hydraulic Capacity
  - DWQ calculated it at 70% (Capita 2,916)
  - We calculate it at 96% (Equiv. Capita 4,110)
- Organic Capacity
  - DWQ estimated it at 157% (Capita 2,916)
  - We calculate it at 222% (Equiv. Capita 4,110)
- Cannot meet ammonia limit in future

Wastewater Treatment Alternatives Considered

- Status Quo or Do Nothing
- Expand Lagoons
- Expand Lagoons & Add Aeration
- Regionalize by Pumping to Brigham City
- Build Mechanical Treatment Plant
- Regionalize by Joining w/ Willard to Build Mechanical Treatment Plant

Does Alternative Meet Discharge Requirements?

Status Quo – Do Nothing	No
Expand Lagoons	No
Expand Lagoons Add Aeration	No
Pump to Brigham City	Yes
Build Mechanical Plant	Yes
Join w/ Willard – Build Plant	Yes

Overview of Studied Alternatives

Treatment System

- Alternative 1 – Pump to Brigham City
- Alternative 2 – Build STM – Aerotor Plant
- Alternative 3 – Build SBR - Plant
- Alternative 4 – Join with Willard & Build STM Aerotor Plant

Note: Each Alternative will Include Collection System Upgrades

Capital Costs Overview

	Alt # 1	Alt # 2	Alt # 3	Alt # 4
	Pump to Brigham City	Build STM-Aerotor Plant	Build SBR Plant	Join w/Willard Build STM – Aerotor
Collection Upgrades	$1,500,000	$1,500,000	$1,500,000	$1,500,000
Treatment Plant/ Lift Station Etc	$2,832,000	$12,000,000	$13,300,000	$10,145,000
Total Capital Cost	$4,332,000	$13,500,000	$14,800,000	$11,645,000

Net Present Value

	Alt # 1	Alt # 2	Alt # 3	Alt # 4
	Pump to Brigham City	Build STM-Aerotor Plant	Build SBR Plant	Join w/Willard Build STM – Aerotor
Capital Costs	$4,332,000	$13,500,000	$14,802,000	$11,645,000
TAC	$2,406,702			
Lift Station O&M	$648,892			
Treatment/ Collection O&M	$7,238,199	$2,356,783	$4,129,405	$1,976,951
Net Present Value	$14,625,792	$15,856,783	$18,931,405	$13,621,951

Perry/ Willard Split of Alternative #4

- Perry City
  - 2/3 Capacity of Plant
  - 2/3 O&M Costs
- Collection Upgrades
  - $1,500,000
- Plant Costs
  - $8,000,000
- Trunk Line
  - $2,145,000
- Total Capital Cost
  - $11,645,000

- Willard City
  - 1/3 Capacity of Plant
  - 1/3 O&M Costs
- Collection Upgrades
  - $13,636,000
- Plant Costs
  - $4,000,000
- Total Capital Cost
  - $17,636,000

Estimated Impact Fee for New Connections

Expense Category	Alt. # 1 Pump to Brigham City	Alt. # 2 STM Aerotor in Perry City	Alt. #3 SBR Plant in Perry City	Alt. #4 STM Aerotor in Willard
TOTAL	**$2,700**	**$5,200**	**$5,600**	**$4,600**

Estimated Monthly End User Rates

Expense Category	Alt. # 1 Pump to Brigham City	Alt. # 2 STM Aerotor in Perry City	Alt. #3 SBR Plant in Perry City	Alt. #4 STM Aerotor in Willard
Brigham City O&M and TAC	$19.91	-	-	-
New Debt Service, O&M	$10.00	$36.69	$44.06	$26.50
Existing Debt Service, O&M	$11.50	$11.50	$11.50	$11.50
TOTAL	**$41.41**	**$48.19**	**$55.56**	**$38.00**

The UDWQ Board authorized funding to proceed with Alternative #4

DWQ Board Loan	$11,350,000
Perry City Contribution	$ 295,000
Total	$11,645,000

Loan Terms are 3.0% interest 20 years