



Town of Discovery Bay

"A Community Services District"

AGENDA REPORT

Meeting Date

July 18, 2012

Prepared By: Rick Howard, General Manager

Submitted By: Rick Howard, General Manager

Agenda Title

Authorize Design and Engineering contracts with HERWIT Engineering for the Oxidation Ditch and Clarifier Project, Pump Station W, completion of Solar Dryers and SCADA upgrades, respectively

Recommended Action

Approve Design and Engineering Services contracts with HERWIT Engineering for; (1) Pump Station W Influent Pumps and Emergency Storage Project in the amount of \$123,590.00 (Master Plan Items 1, 2 and 3); (2) Secondary Treatment Facility Improvements in the amount of \$464,140.00 (Master Plan Item #6); (3) Solids Handling Facilities Improvements in the amount of \$182,110.00 (Master Plan Items 13 & 14); (4) Conveyance Pump Station and SCADA Improvements in the amount of \$98,920.00 (Master Plan Items 15 & 16); and authorize the General Manager to execute all contract documents

Executive Summary

The Wastewater Master Plans have identified a number of projects that are necessary to meet existing demand as well as provide redundancy in the event of emergency and maintenance shut-downs. The projects have been identified and discussed at length as part of the Master Plan review process, the Water and Wastewater Committee review, as well as the budget discussion for the current fiscal year.

Staff proposes that the projects design phase begin this fiscal year (as identified in the CIP budget), with construction to follow.

The projects are clearly identified in the four (4) project scopes that are attached as a part of this report.

The contracts will not be fully executed until the Revenue Bond Financing is in place. However, staff would like to be prepared to initiate the design process as soon as possible once the financing is finalized.

Fiscal Impact:

Amount Requested \$868,760.00

Sufficient Budgeted Funds Available?: Budgeted Pending Revenue Bond Issuance

Prog/Fund # Category: Pers. Optg. Cap. -or- CIP# Fund#

Previous Relevant Board Actions for This Item

Acceptance of Wastewater Master Plan
Adoption of FY 2012-13 Capital Improvement program Budget

Attachments

Four (4) Proposals for the above noted design and engineering projects
Copy of FY 2012-13 CIP Budget
Wastewater Master Plan Available on line at www.todb.ca.gov/page/266

AGENDA ITEM: F-3

Exhibit A

Town of Discovery Bay Community Services District
Discovery Bay, California
Master Plan Item 1, 2, and 3
Pump Station W, Influent Pumps & Emergency Storage Project

SCOPE OF SERVICES

Task 1 – 30 % Engineering Design Services – Master Plan Item 1, 2 and 3 - Pump Station W, Influent Pumps & Emergency Storage

- A. Review existing design drawings and conduct site visits needed for detailed design.
- B. Preparation of 30% plans and specifications for the Pump Station W, Influent Pumps & Emergency Storage Project.
 - 1. Pump Station W will be retrofit to allow bypassing influent flow to the emergency Storage Basin and also around the influent pump station.
 - 2. The Influent Pumps will be replaced with larger pumps to accommodate the plant build out influent flows.
 - 3. Improvements will be designed to allow the existing lagoon at Plant 1 to be used as an Emergency Storage Basin.
 - 4. Prepare plans to 30% complete to allow design review with the District and cost estimating of the building.
 - 5. Prepare Electrical Single Line and MCC Line up.
 - 6. Prepare preliminary P&IDs for all processes.
 - 7. Identify yard piping and electrical duct banks required for the project.
 - 8. Prepare technical specifications for the pumps and associated equipment to allow pre-purchasing the equipment.

Task 2 – 100 % Engineering Design Services – Master Plan Item 1, 2 and 3 - Pump Station W, Influent Pumps & Emergency Storage

- A. Preparation of 100 % Plans and Specifications for bidding of a complete design for the Project.
- B. Prepare and submit 90 % submittals for review and comment by District Staff.
- C. Incorporate 90 % comments and prepare final plans and specifications for bidding.
- D. Attend meetings at the project site.
- E. Print 8 full size sets of plans and specs for the final deliverable to the District.
- F. Provide digital PDF files of the plans and specs.
- G. Provide ACAD files.

Task 3 – Bidding Services as Directed by District

- A. District will bid the project and manage the bidding to General Contractors.

- B. HERWIT will attend pre-bid meeting and job walk through.
- C. HERWIT will answer questions during bidding and prepare project addendums as needed.

Task 4 – Optional Construction Services – (Not included in this proposal, these items will be included under a separate cost proposal.)

- A. Review shop drawings.
- B. Answer project Requests for Information (RFIs)
- C. Prepare Project Change Orders.
- D. Conduct site inspections.
- E. Conduct final inspection for acceptance.
- F. Assist in startup and training.

Assumptions:

- A. The project scope is based on making modifications to the existing structures as detailed under Tasks 1 & 2.
- B. All fees for all permits and applications shall be paid by the District.
- C. Should the project design and or construction schedule become extended for reasons outside of HERWIT's control beyond the agreed schedule, and the cost of Design Professional's performance increase materially on account of the delay, the contract cost shall be increased to accommodate the extra time required to complete the project.

Items Not Included:

The following items are not included in this scope of work. It is our understanding that the following items that may be necessary for completion of the project are contracted to others as identified below.

- A. Surveying.
- B. Geotechnical investigation.
- C. Work identified under Task 4 Construction Services.

Miscellaneous:

There will be several subconsultants working under HERWIT Engineering to complete this project. These subconsultants and areas of responsibility are as follows.

- A. Electrical Engineering, Arostegui Engineers, Project Manager Leonel Arostegui
- B. Structural Design, STRUCTCON Engineering, Project Manager Steve Stoll

Schedule

HERWIT Engineering will begin immediately upon authorization of the Contract. The approximate schedule is as follows:

Date	Action Item
August 2012	Begin Design
November 2012	30% Submittal and Review
June 2013	100% Submittal and Review
July 2013	Bid project
August 2013	Award Project
December 2013	Construction completed.

FEE

HERWIT Engineering will complete tasks identified below on a Lump Sum Basis unless otherwise indicated. The costs for all subconsultants are included in these costs. Subconsultant costs will be broken out separately on all invoices. Because of the variability in estimating the work load between tasks and subconsultants for a project of this size, the subconsultants costs are an approximate breakdown and budget assignments may be moved between subconsultants and the Prime Consultant as needed as long as the total project cost is not exceeded.

Task 1, 2 & 3 – 30 % & 100 % Engineering Design Services & Bid Services
– **Master Plan Item 1, 2 and 3** - Pump Station W, Influent Pumps and
Emergency Storage Project \$ 123,590

Task 4 - Optional Construction Services T&M as Directed by Owner

Exhibit A

**Town of Discovery Bay Community Services District
Discovery Bay, California
Master Plan Item 6
Secondary Treatment Facilities Improvements Project**

SCOPE OF SERVICES

Task 1 – 30 % Engineering Design Services – Master Plan Item 6 - Secondary Treatment Facilities Improvements

- A. Review existing design drawings and conduct site visits needed for detailed design.
- B. Preparation of 30% plans and specifications for the Secondary Treatment Facilities Improvements Project.
 - 1. Modification of the Headworks Splitter Box to accommodate Oxidation Ditch No.3.
 - 2. The addition of Oxidation Ditch No. 3.
 - 3. The addition of a new mixed liquor splitter box to accommodate Clarifier No. 5.
 - 4. The addition of Clarifier No. 5.
 - 5. The addition of RAS/WAS Pump Station No. 4 to accommodate Clarifier No. 5.
 - 6. Modifications to pumps & piping at RAS/WAS Pump Station No. 3 to allow higher RAS flows.
 - 7. The addition of Standby Floating Aerators at existing oxidation ditches.
 - 8. Prepare plans to 30% complete to allow design review with the District and cost estimating of the building.
 - 9. Prepare Electrical Single Line and MCC Line up.
 - 10. Prepare preliminary P&IDs for all processes.
 - 11. Identify yard piping and electrical duct banks required for the project.
 - 12. Prepare technical specifications for the pumps and associated equipment to allow pre-purchasing the equipment.

Task 2 – 100 % Engineering Design Services – Secondary Treatment Facilities Improvements

- A. Preparation of 100 % Plans and Specifications for bidding of a complete design for the Project.
- B. Prepare and submit 90 % submittals for review and comment by District Staff.
- C. Incorporate 90 % comments and prepare final plans and specifications for bidding.
- D. Attend meetings at the project site.
- E. Print 8 full size sets of plans and specs for the final deliverable to the District.
- F. Provide digital PDF files of the plans and specs.
- G. Provide ACAD files.

Task 3 – Bidding Services as Directed by District

- A. District will bid the project and manage the bidding to General Contractors.
- B. HERWIT will attend pre-bid meeting and job walk through.
- C. HERWIT will answer questions during bidding and prepare project addendums as needed.

Task 4 – Optional Construction Services – (Not included in this proposal, these items will be included under a separate cost proposal.)

- A. Review shop drawings.
- B. Answer project Requests for Information (RFIs)
- C. Prepare Project Change Orders.
- D. Conduct site inspections.
- E. Conduct final inspection for acceptance.
- F. Assist in startup and training.

Assumptions:

- A. The project scope is based an expansion of the Secondary Treatment Facilities with new structures similar to the existing facilities.
- B. All fees for all permits and applications shall be paid by the District.
- C. Should the project design and or construction schedule become extended for reasons outside of HERWIT's control beyond the agreed schedule, and the cost of Design Professional's performance increase materially on account of the delay, the contract cost shall be increased to accommodate the extra time required to complete the project.

Items Not Included:

The following items are not included in this scope of work. It is our understanding that the following items that may be necessary for completion of the project are contracted to others as identified below.

- A. Surveying.
- B. Geotechnical investigation.
- C. Work identified under Task 4 Construction Services.

Miscellaneous:

There will be several subconsultants working under HERWIT Engineering to complete this project. These subconsultants and areas of responsibility are as follows.

- A. Electrical Engineering, Arostegui Engineers, Project Manager Leonel Arostegui
- B. Structural Design, STRUCTCON Engineering, Project Manager Steve Stoll

Schedule

HERWIT Engineering will begin immediately upon authorization of the Contract. The approximate schedule is as follows:

Date	Action Item
August 2012	Begin Design
November 2012	30% Submittal and Review
June 2013	100% Submittal and Review
July 2013	Bid project
August 2013	Award Project
January 2015	Construction completed.

FEE

HERWIT Engineering will complete tasks identified below on a Lump Sum Basis unless otherwise indicated. The costs for all subconsultants are included in these costs. Subconsultant costs will be broken out separately on all invoices. Because of the variability in estimating the work load between tasks and subconsultants for a project of this size, the subconsultants costs are an approximate breakdown and budget assignments may be moved between subconsultants and the Prime Consultant as needed as long as the total project cost is not exceeded.

Task 1, 2 & 3 – 30 % & 100 % Engineering Design Services & Bid Services
– Master Plan Item 6 - Secondary Treatment Facilities Project \$ 464,140

Task 4 - Optional Construction Services T&M as Directed by Owner

Exhibit A

**Town of Discovery Bay Community Services District
Discovery Bay, California
Master Plan Items 13 and 14
Solids Handling Facilities Improvements Project**

SCOPE OF SERVICES

Task 1 – 30 % Engineering Design Services – Master Plan Items 13 and 14 - Solids Handling Facilities Improvements

- A. Review existing design drawings and conduct site visits needed for detailed design.
- B. Preparation of 30% plans and specifications for the Solids Handling Facilities Improvements Project.
 - 1. The expansion of the existing Dewatering Facilities will include Belt Press No.3 and associated polymer dosing, pumping, flow measurement, and solids loading equipment.
 - 2. The addition of the concrete structure for Solar Dryer No. 4,
 - 3. The addition of the mechanical & electrical facilities for Solar Dryers Nos. 3 & 4.
 - 4. Prepare plans to 30% complete to allow design review with the District and cost estimating of the building.
 - 5. Prepare Electrical Single Line and MCC Line up.
 - 6. Prepare preliminary P&IDs for all processes.
 - 7. Identify yard piping and electrical duct banks required for the project.
 - 8. Prepare technical specifications for the belt press and associated equipment, and the solar dryer equipment to allow pre-purchasing the equipment.

Task 2 – 100 % Engineering Design Services – Master Plan Items 13 and 14 - Solids Handling Facilities Improvements

- A. Preparation of 100 % Plans and Specifications for bidding of a complete design for the Project.
- B. Prepare and submit 90 % submittals for review and comment by District Staff.
- C. Incorporate 90 % comments and prepare final plans and specifications for bidding.
- D. Attend meetings at the project site.
- E. Print 8 full size sets of plans and specs for the final deliverable to the District.
- F. Provide digital PDF files of the plans and specs.
- G. Provide ACAD files.

Task 3 – Bidding Services as Directed by District

- A. District will bid the project and manage the bidding to General Contractors.
- B. HERWIT will attend pre-bid meeting and job walk through.
- C. HERWIT will answer questions during bidding and prepare project addendums as needed.

Task 4 – Optional Construction Services – (Not included in this proposal, these items will be included under a separate cost proposal.)

- A. Review shop drawings.
- B. Answer project Requests for Information (RFIs)
- C. Prepare Project Change Orders.
- D. Conduct site inspections.
- E. Conduct final inspection for acceptance.
- F. Assist in startup and training.

Assumptions:

- A. The project scope is based an expansion of the existing Solids Handling Facilities similar to the existing facilities.
- B. All fees for all permits and applications shall be paid by the District.
- C. Should the project design and or construction schedule become extended for reasons outside of HERWIT's control beyond the agreed schedule, and the cost of Design Professional's performance increase materially on account of the delay, the contract cost shall be increased to accommodate the extra time required to complete the project.

Items Not Included:

The following items are not included in this scope of work. It is our understanding that the following items that may be necessary for completion of the project are contracted to others as identified below.

- A. Surveying.
- B. Geotechnical investigation.
- C. Work identified under Task 4 Construction Services.

Miscellaneous:

There will be several subconsultants working under HERWIT Engineering to complete this project. These subconsultants and areas of responsibility are as follows.

- A. Electrical Engineering, Arostegui Engineers, Project Manager Leonel Arostegui
- B. Structural Design, STRUCTCON Engineering, Project Manager Steve Stoll

Schedule

HERWIT Engineering will begin immediately upon authorization of the Contract. The approximate schedule is as follows:

Date	Action Item
August 2012	Begin Design
November 2012	30% Submittal and Review
June 2013	100% Submittal and Review
July 2013	Bid project
August 2013	Award Project
March 2014	Construction completed.

FEE

HERWIT Engineering will complete tasks identified below on a Lump Sum Basis unless otherwise indicated. The costs for all subconsultants are included in these costs. Subconsultant costs will be broken out separately on all invoices. Because of the variability in estimating the work load between tasks and subconsultants for a project of this size, the subconsultants costs are an approximate breakdown and budget assignments may be moved between subconsultants and the Prime Consultant as needed as long as the total project cost is not exceeded.

Task 1, 2 & 3 – 30 % & 100 % Engineering Design Services & Bid Services
– Master Plan Item 13 and 14 - Solids Handling Facilities Improvements Project \$ 182,110

Task 4 - Optional Construction Services T&M as Directed by Owner

Exhibit A

**Town of Discovery Bay Community Services District
Discovery Bay, California
Master Plan Items 15 and 16
Conveyance Pump Station & SCADA Improvements Project**

SCOPE OF SERVICES

Task 1 – 30 % Engineering Design Services – Master Plan Items 15 and 16 - Conveyance Pump Station & SCADA Improvements

- A. Review existing design drawings and conduct site visits needed for detailed design.
- B. Preparation of 30% plans and specifications for the Conveyance Pump Station & SCADA Improvements Project.
 - 1. Each pump station will be prepared on separate civil, mechanical, & electrical drawings. Equipment specifications will be included on the drawings to the greatest extent possible. The intent is to allow each pump station to be bid separately if so desired.
 - 2. Prepare plans and sections to 30% complete to allow design review with the District and cost estimating of the building.
 - 3. Prepare Electrical Single Line and Control Panel Diagrams.
 - 4. Prepare preliminary P&IDs for all processes.

Task 2 – 100 % Engineering Design Services – Master Plan Items 15 and 16 - Conveyance Pump Station & SCADA Improvements

- A. Preparation of 100 % Plans and Specifications for bidding of a complete design for the Project.
- B. Prepare and submit 90 % submittals for review and comment by District Staff.
- C. Incorporate 90 % comments and prepare final plans and specifications for bidding.
- D. Attend meetings at the project site.
- E. Print 8 full size sets of plans and specs for the final deliverable to the District.
- F. Provide digital PDF files of the plans and specs.
- G. Provide ACAD files.

Task 3 – Bidding Services as Directed by District

- A. District will bid the project and manage the bidding to General Contractors.
- B. HERWIT will attend pre-bid meeting and job walk through.
- C. HERWIT will answer questions during bidding and prepare project addendums as needed.

Task 4 – Optional Construction Services – (Not included in this proposal, these items will be included under a separate cost proposal.)

- A. Review shop drawings.
- B. Answer project Requests for Information (RFIs)
- C. Prepare Project Change Orders.
- D. Conduct site inspections.
- E. Conduct final inspection for acceptance.
- F. Assist in startup and training.

Assumptions:

- A. The project scope is based on existing Pump Station Site layouts from O&M Manual figures. Minimal civil work is anticipated, with mechanical and Control Panel / SCADA replacement work called out on the drawings. Stand alone Specifications will be minimal.
- B. All fees for all permits and applications shall be paid by the District.
- C. Should the project design and or construction schedule become extended for reasons outside of HERWIT's control beyond the agreed schedule, and the cost of Design Professional's performance increase materially on account of the delay, the contract cost shall be increased to accommodate the extra time required to complete the project.

Items Not Included:

The following items are not included in this scope of work. It is our understanding that the following items that may be necessary for completion of the project are contracted to others as identified below.

- A. Surveying.
- B. Geotechnical investigation.
- C. Work identified under Task 4 Construction Services.

Miscellaneous:

There will be several subconsultants working under HERWIT Engineering to complete this project. These subconsultants and areas of responsibility are as follows.

- A. Electrical Engineering, Arostegui Engineers, Project Manager Leonel Arostegui
- B. Structural Design, STRUCTCON Engineering, Project Manager Steve Stoll

Schedule

HERWIT Engineering will begin immediately upon authorization of the Contract. The approximate schedule is as follows:

Date	Action Item
August 2012	Begin Design
November 2012	30% Submittal and Review
June 2013	100% Submittal and Review
July 2013	Bid project
August 2013	Award Project
August 2014	Construction completed.

FEE

HERWIT Engineering will complete tasks identified below on a Lump Sum Basis unless otherwise indicated. The costs for all subconsultants are included in these costs. Subconsultant costs will be broken out separately on all invoices. Because of the variability in estimating the work load between tasks and subconsultants for a project of this size, the subconsultants costs are an approximate breakdown and budget assignments may be moved between subconsultants and the Prime Consultant as needed as long as the total project cost is not exceeded.

Task 1, 2 & 3 – 30 % & 100 % Engineering Design Services & Bid Services
– Master Plan Items 15 and 16 - Conveyance Pump Station & SCADA
Improvements Project \$ 98,920

Task 4 - Optional Construction Services T&M as Directed by Owner

FY 2012-2013 Proposed Capital Improvement Budget

Pending Approved June 2012		Dept./Proj#	2010/2011 ACTUALS	2011/2012 BUDGET	2011/2012 ACTUALS April 2012	Proposed 2012/2013 Budget	Variance
Account	Account Description						
3000	Equipment		\$ -	\$ -	\$ -	\$ 105,000	\$ -
	Electronic Message Board	A				\$ 70,000	
	Boom Lift	W/VW				\$ 25,000	
	Security Camera's	WW				\$ 10,000	
3120	CIP wastewater		\$ -	\$ 1,125,665	\$ 457,316	\$ 310,000	\$ -
	Secondary Effluent Pump Station Modifications	5					
	Secondary Effluent Equalization	6					
	Effluent Filtration	7					
	Revise UV Disinfection Weirs	8					
	Conduct UV Disinfection Viral Bioassay Test	9			\$ 50,000		
	Upgrade UV Disinfection	10					
	Add Pump to Export Pump Station	12					
	Solids Improvements, phase 2: One New Solar Dryer	14					
	Collection System Pump Station Improvements	15				\$ 110,000	
	SCADA Improvements	16				\$ 150,000	
	Fiber to Plant 1					\$ 50,000	
3135	CIP Water		\$ -	\$ 124,000	\$ 115,000	\$ 251,400	\$ -
	Source Capacity						
	Well 7	1a			\$ 10,000	\$ 221,400	
	Well 8	1b					
	Well 1B pump Equipment Upgrade	1d				\$ 30,000	
	Treatment Filter at Willow Lake						
	Instrument Filter unit at Willow Lk WTP vessel, media, foundation, all new face piping & controls	2a					
	New Backwash Tank at Willow Lk WTP piping modifications & foundation	2b					
	New Recycle Pumps at Willow Lk WTP 3 pumps, piping & controls	2c					
	Recycle Pump Upgrade - Newport	2e					
3150	Structures & Improvements Wastewater		\$ -	\$ -	\$ -	\$ 1,652,781	\$ -
	Influent Pump Station Modifications	1				\$ 58,892	
	RE-Activate Pump Station W	2				\$ 21,319	
	Emergency Storage Facilities	3				\$ 14,580	
	Splitter Box, OX ditch, Clarifier, RAS pumps at Plant 2, standby Aerators	4				\$ 605,000	
	Reverse Osmosis Facilities	11					
	Solids Improvements, Phase 1: New Solar Dryers and 2 Belt Presses	13			\$ 800,000	\$ 800,000	
	Rehab Manholes					\$ 18,000	
	Raise Manholes					\$ 10,000	
	Spare NTU Sensor					\$ 60,000	
	Road Crossing Ramps					\$ 15,000	
	Salinity Project					\$ 50,000	
3165	Structures & Improvements Water		\$ -	\$ -	\$ -	\$ 185,000	\$ -
	Water Distribution System						
	Replace 8-in mainline w/new 16-in C905 - willow lk from Disco Blvd to Beaver Ln	3b				\$ 150,000	
	Storage Tanks						
	New Water Storage Tank - Newport WTP	4a					
	Willow Lake WTP Chemical Room Upgrade					\$ 25,000	
	Security Door Locks					\$ 10,000	
3180	Infrastructure Replacement Fund		\$ -	\$ 320,000	\$ 320,000	\$ 500,000	\$ -
	Sewer Infrastructure Replacement Program		\$ 150,000	\$ 150,000	\$ 150,000	\$ 200,000	
	Pumps/Motors Replacement Fund Program		\$ 40,000	\$ 40,000	\$ 40,000	\$ 50,000	
	Water Infrastructure Replacement Program		\$ 100,000	\$ 100,000	\$ 100,000	\$ 200,000	
	Facilities & Vehicles Replacement Fund		\$ 30,000	\$ 30,000	\$ 30,000	\$ 50,000	
	Encumbrance(s) Carry Over (Re-budgeted) Capital					\$ 1,562,842	
	Capital Totals		\$ 856,610	\$ 1,569,665	\$ 892,316	\$ 2,083,000	
	Bond Financed Totals					\$ 921,181	
	Growth Induced Totals						
	Total Capital		\$ -	\$ 1,569,665	\$ 892,316	\$ 3,004,181	\$ 1,434,516
	Total Capital Plus Encumbrance(s) Carry Over (Re-budgeted) Capital		\$ -	\$ 1,569,665	\$ 892,316	\$ 4,567,023	\$ 1,434,516

FY 2012-2013 Proposed Capital Improvement Budget

Pending Approved June 2012			Proposed	Proposed	Proposed	Proposed		
Account	Account Description	Dept/J/Proj#	2013/2014 Budget	2014/2015 Budget	2015/2016 Budget	2016/2017 Budget	SUM 12/13-16/17	
3000	Equipment		\$ -	\$ -	\$ -	\$ -	\$ 105,000	
	Electronic Message Board	A					\$ 70,000	
	Boom Lift	W/WW					\$ 25,000	
	Security Camera's	WW					\$ 10,000	
3120	CIP wastewater		\$ 235,000	\$ 916,400	\$ 4,221,300	\$ 2,211,300	\$ 7,894,000	
	Secondary Effluent Pump Station Modifications	5			\$ 250,000		\$ 250,000	
	Secondary Effluent Equalization	6			\$ 680,000		\$ 680,000	
	Effluent Filtration	7		\$ 461,400	\$ 2,076,300	\$ 2,076,300	\$ 4,614,000	
	Revise UV Disinfection Weirs	8					\$ -	
	Conduct UV Disinfection Viral Bioassay Test	9					\$ -	
	Upgrade UV Disinfection	10		\$ 120,000	\$ 1,080,000		\$ 1,200,000	
	Add Pump to Export Pump Station	12		\$ 100,000			\$ 100,000	
	Solids Improvements, phase 2: One New Solar Dryer	14					\$ -	
	Collection System Pump Station Improvements	15	\$ 135,000	\$ 135,000	\$ 135,000	\$ 135,000	\$ 650,000	
	SCADA Improvements	16	\$ 100,000	\$ 100,000			\$ 350,000	
	Fiber to Plant 1						\$ 50,000	
3135	CIP Water		\$ 648,020	\$ 1,652,380	\$ 1,161,200	\$ 28,800	\$ 3,741,800	
	Source Capacity						\$ -	
	Well 7	1a	\$ 627,300	\$ 627,300			\$ 1,476,000	
	Well 8	1b		\$ 758,000	\$ 758,000		\$ 1,516,000	
	Well 1B pump Equipment Upgrade	1d					\$ 30,000	
	Treatment Filter at Willow Lake						\$ -	
	ament Filter unit at Willow Lk WTP vessel, media, foundation, all new face piping & controls	2a	\$ 20,720	\$ 238,280			\$ 259,000	
	New Backwash Tank at Willow Lk WTP piping modifications & foundation	2b		\$ 28,800	\$ 331,200		\$ 360,000	
	New Recycle Pumps at Willow Lk WTP 3 pumps, piping & controls	2c			\$ 72,000		\$ 72,000	
	Recycle Pump Upgrade - Newport	2e				\$ 28,800	\$ 28,800	
3150	Structures & Improvements Wastewater		\$ 4,473,390	\$ 4,212,210	\$ 1,375,500	\$ -	\$ 11,713,881	
	Influent Pump Station Modifications	1	\$ 981,360				\$ 1,040,242	
	RE-Activate Pump Station W	2	\$ 355,320				\$ 376,639	
	Emergency Storage Facilities	3	\$ 114,210	\$ 114,210			\$ 243,000	
	Splitter Box, OX ditch, Clarifier, RAS pumps at Plant 2, standby Aerators	4	\$ 2,722,500	\$ 2,722,500			\$ 6,050,000	
	Reverse Osmosis Facilities	11					\$ -	
	Solids Improvements, Phase 1: New Solar Dryers and 2 Belt Presses	13	\$ 300,000	\$ 1,375,500	\$ 1,375,500		\$ 3,851,000	
	Rehab Manholes						\$ 18,000	
	Raise Manholes						\$ 10,000	
	Spare NTU Sensor						\$ 60,000	
	Road Crossing Ramps						\$ 15,000	
	Salinity Project						\$ 50,000	
3165	Structures & Improvements Water		\$ 250,000	\$ 336,400	\$ 1,743,600	\$ 610,960	\$ 3,125,960	
	Water Distribution System						\$ -	
	Replace 8-in mainline w/new 16-in C905 - Willow Lk from Disco Blvd to Beaver Ln	3b	\$ 250,000	\$ 250,000	\$ 750,000	\$ 610,960	\$ 2,010,960	
	Storage Tanks						\$ -	
	New Water Storage Tank - Newport WTP	4a		\$ 86,400	\$ 993,600		\$ 1,080,000	
	Willow Lake WTP Chemical Room Upgrade						\$ 25,000	
	Security Door Locks						\$ 10,000	
3180	Infrastructure Replacement Fund		\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000	
	Sewer Infrastructure Replacement Program		\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000	
	Pumps/Motors Replacement Fund Program		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000	
	Water Infrastructure Replacement Program		\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000	
	Facilities & Vehicles Replacement Fund		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000	
	Encumbrance(s) Carry Over (Re-budgeted) Capital						\$ 1,562,842	
	Capital Totals		\$ 985,000	\$ 1,743,000	\$ 2,143,000	\$ 1,245,960	\$ 8,199,960	
	Bond Financed Totals		\$ 5,100,690	\$ 4,839,510	\$ 1,375,500		\$ 12,236,881	
	Growth Induced Totals		\$ 20,720	\$ 1,034,880	\$ 5,483,100	\$ 2,105,100	\$ 8,643,800	
	Total Capital		\$ 6,106,410	\$ 7,617,390	\$ 9,001,600	\$ 3,351,060	\$ 29,080,641	
	Total Capital Plus Encumbrance(s) Carry Over (Re-budgeted) Capital		\$ -	\$ 6,106,410	\$ 7,617,390	\$ 9,001,600	\$ 3,351,060	\$ 30,643,483