



# Los Osos Wastewater Project

## Project Construction Update

### Month of December 2013

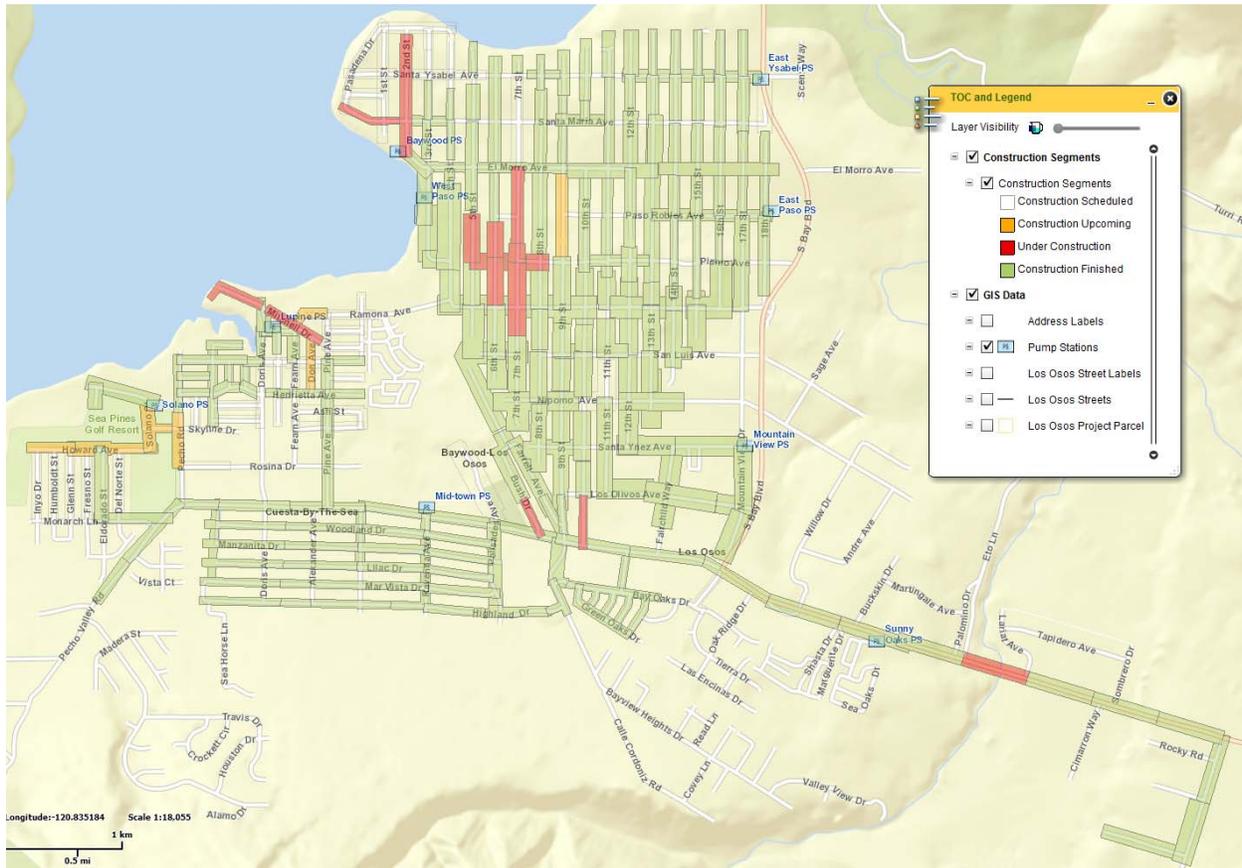


Prepared by: John Waddell, PE  
Los Osos Wastewater Project Manager

**Update Summary:** The collection system pipeline construction continued in several areas of the community, with the overall work about 80% complete. The pump station construction contractor, Mountain Cascade, is beginning their work in January. The pump station work will be combined to specific locations and will not have the significant neighborhood and traffic impact compared to the pipelines. The water recycling facility contract is planned to be awarded in January and begin construction in March.

**Notable News/Milestones:** The contractors each took a break from major construction during the two holiday weeks in December. The jack and bore operation near Los Osos Creek is planned for completion in early January and will complete the major work on Los Osos Valley Road. Work planned in January includes 10<sup>th</sup> Street at Los Osos Valley Road and the 2<sup>nd</sup> Street business district.

### Areas of work for December 2013:

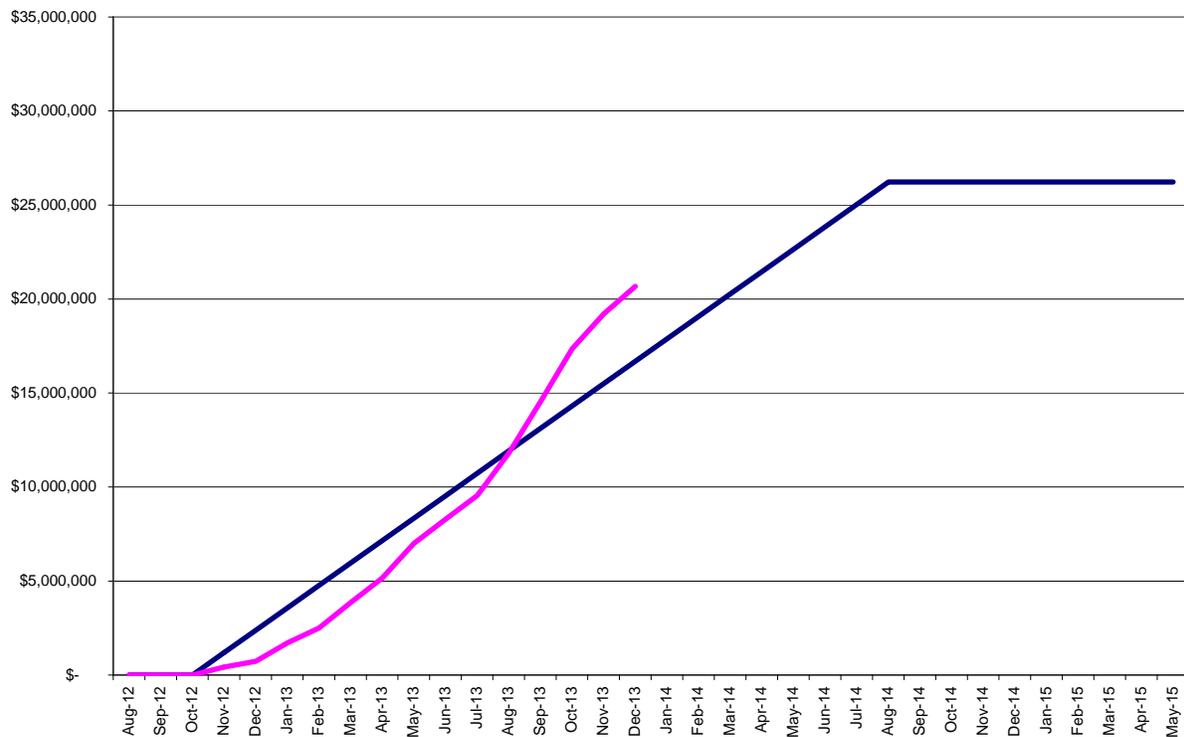


**Collection System Area A&D Contract  
Contract No. 300448.08.01.AD**

<b>Contract Summary</b>			
Contractor	ARB Inc.	Notice to Proceed Date	8/13/2012
Contract Value	\$26,223,855	Original Contract Days	694
Approved Cost Changes	\$ 16,170	Approved Extra Days	0
Adjusted Contract Value	\$26,223,855	Planned Substantial Completion Date	7/8/2014
Approved Payment to Date	\$20,810,369	% complete	83%

<b>Summary of Work</b>	<b>Last Month</b>	<b>Total To Date</b>
Blocks/Segments completed	15	142
Total feet of pipe laid	9,800	112,800
Number of laterals installed	190	2,181

**Collection System Area A&D**



**In the last month, ARB worked in the following areas:**

- Continuing pipeline and lateral installation in Area A in the Baywood Park business district around 2<sup>nd</sup> Street.
- Completing remaining pipeline and road restoration work in Area D in the areas of 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Streets.
- Completing pipeline installation and road restoration on El Morro Ave.

- Continue installing pump station wet wells at various locations.

**In the current month, ARB plans to proceed with the following work:**

- Continuing pipeline installation and road restoration progress Baywood Park business district around 2<sup>nd</sup> Street.
- Continue pipeline installation and road restoration progress on 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Streets.
- Complete a jack and bore pipeline installation on 9<sup>th</sup> Street near Paso Robles Ave.
- Continue installing pump stations at various locations.

**Contract Schedule Review:** ARB is utilizing five pipeline installation crews, several lateral and paving crews, plus a dedicated pump station crew. Based on the current schedule status they are anticipated to meet the substantial completion date of 7/8/2014.

**Pictures**



Road restoration on Santa Maria Avenue



Road restoration on 16<sup>th</sup> Street



Finished manhole base



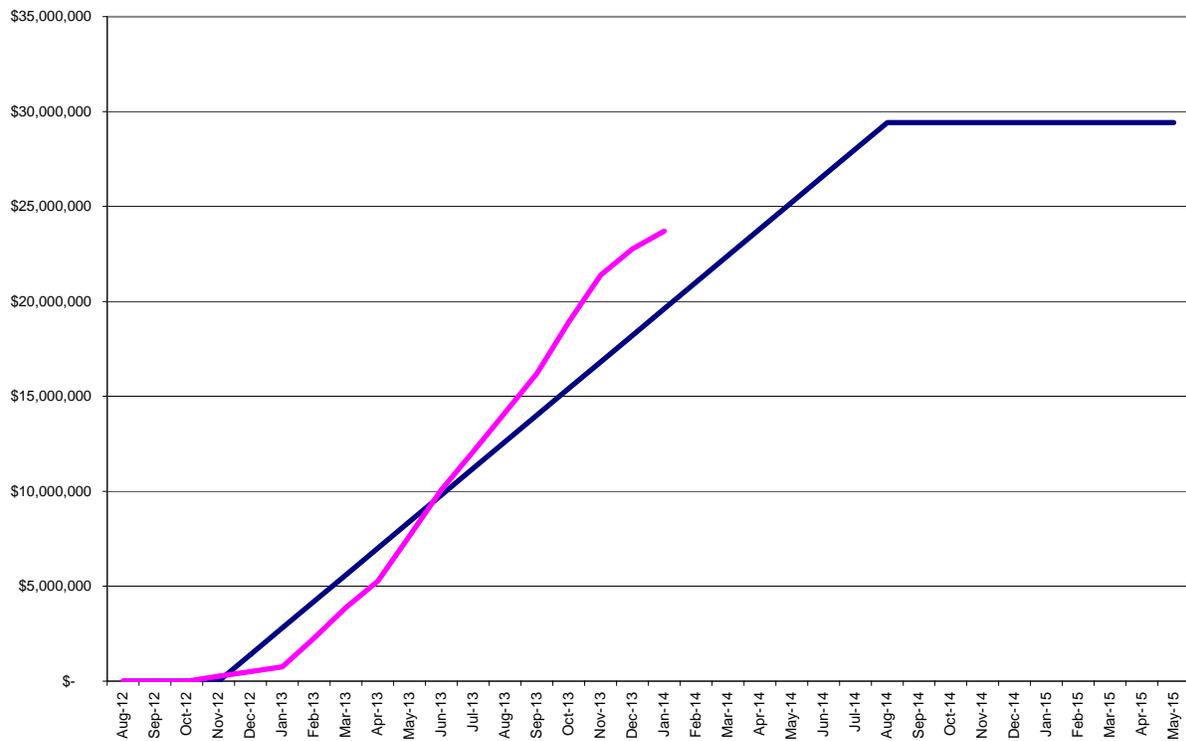
Gravity sewer installation

**Collection System Area B&C Contract  
Contract No. 300448.08.01.BC**

<b>Contract Summary</b>			
Contractor	W.A. Rasic	Notice to Proceed Date	9/4/2012
Contract Value	\$29,425,000	Original Contract Days	665
Approved Cost Changes	\$75,017	Approved Extra Days	0
Adjusted Contract Value	\$29,500,017	Planned Substantial Completion Date	7/1/2014
Approved Payment to Date	\$27,707,497	% complete	85%

<b>Summary of Work</b>	<b>Last Month</b>	<b>Total To Date</b>
Blocks/Segments completed	5	84
Total feet of pipe laid	9,500	100,700
Number of laterals installed	114	1,228

Collection System Area B&C



**In the last month, W.A. Rasic worked in the following areas:**

- Completing recycled water main and road restoration on Los Osos Valley Road.
- Completing pipeline installation and road restoration on several streets in Cuesta-by-the-Seam, including Mitchell Drive and Lupine Street.
- Continuing jack and bore pipeline installation on Los Osos Valley Road near Los Osos Creek.

**In the current month, W.A. Rasic plans to proceed with the following work:**

- Continue pipeline installation and road restoration progress in the Cuesta-by-the-Sea area.
- Begin pipeline installation on Palisades, Bush, and 10<sup>th</sup> Streets and complete tie-ins to pipeline on Los Osos Valley Road.
- Completing jack and bore pipeline installation on Los Osos Valley Road.

**Contract Schedule Review:** W.A. Rasic is utilizing two pipeline installation crews, separate lateral and paving crews. Based on current schedule status they are anticipated to meet the substantial completion date of 7/1/2014.

**Pictures:**



Gravity sewer manhole installation on Mitchell Drive



Construction progress on Mitchell Drive



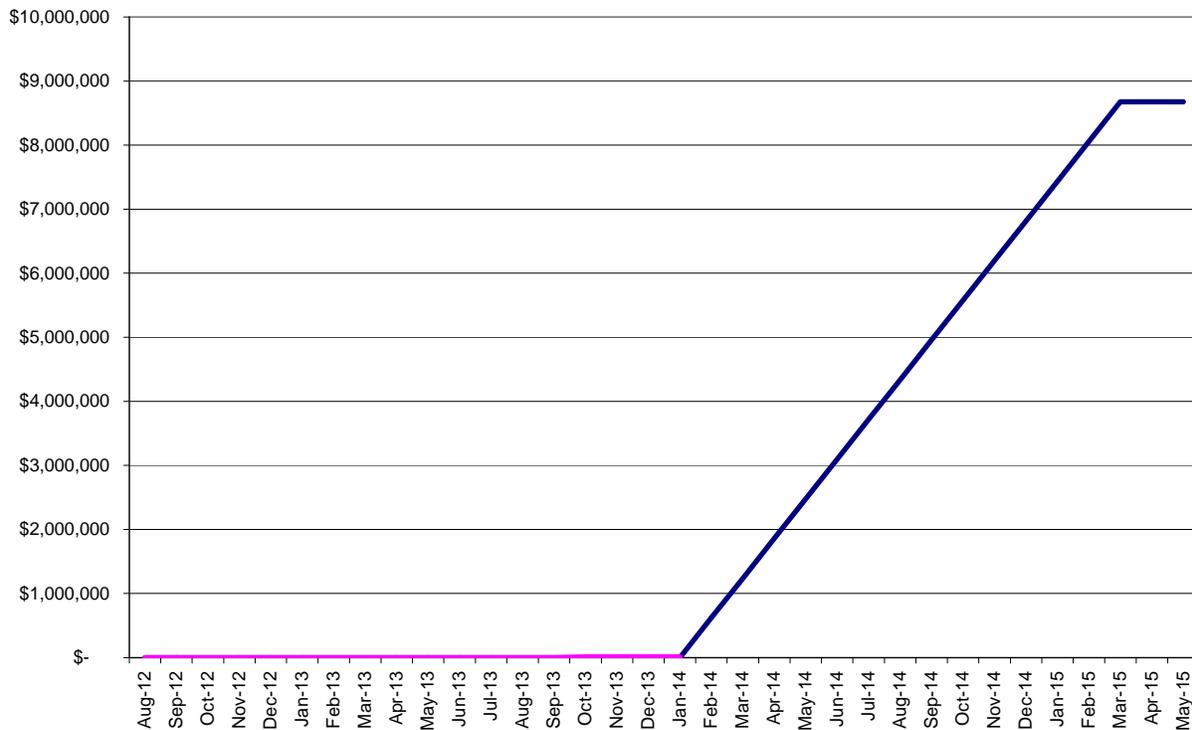
Construction progress on Los Osos Valley Road

**Collection System Pump Stations Contract  
Contract No. 300448.08.01.PS**

<b>Contract Summary</b>			
Contractor	Mtn. Cascade	Notice to Proceed Date	10/11/2012
Contract Value	\$8,676,850	Original Contract Days	860
Approved Cost Changes	\$0	Approved Extra Days	0
Adjusted Contract Value	\$8,676,850	Planned Substantial Completion Date	2/18/2015
Approved Payment to Date	\$0	% complete	0%

<b>Summary of Work</b>	<b>Last Month</b>	<b>Total To Date</b>
Major equipment installed	0	0
Generator buildings completed	0	0
Pump stations completed	0	0

**Collection System Pump Stations**



**In the last month, Mountain Cascade worked in the following items:**

- No pump station work completed in December.

**In the current month, Mountain Cascade plans to proceed with the following work:**

- Mobilize equipment and materials.
- Begin work on Mountain View stand-by generator building.

**Contract Schedule Review:** The Pump Stations Contract allows for 30 months of construction in order to allow for final installations after the pipeline area contracts are completed. Mountain Cascade developed a construction schedule that used 2013 to complete the material submittal and procurement process and mobilize for construction in January 2014 in order to meet the substantial completion date of 2/18/2015.

### Collection System Engineering Services during Construction

<b>Design Services Agreement Summary</b>			
Engineer	CDM Smith		
Fee Estimate	\$4,574,470	Agreement Approval Date	5/17/2011
Approved Additional Services	\$1,577,938	Original Planned Design and Construction Phase	30 months
Adjusted Fee	\$6,152,408	Actual Planned Design and Construction Phase	46 months
Billed to Date	\$5,576,607	% complete	84%

<b>Construction Management Agreement Summary</b>			
Engineer	HDR, Inc.		
Fee Estimate	\$6,891,632	Agreement Approval Date	12/13/2011
Approved Additional Services	\$0	Original Planned Construction Phase	18 months
Adjusted Fee	\$6,891,632	Actual Planned Construction Phase	30 months
Billed to Date	\$5,721,246	% complete	65%

<b>Services Summary</b>	<b>Last Month</b>	<b>Total To Date</b>
Memos/Letters	23	609
RFI's	12	333
Submittals	34	379
Survey Requests	64	811
Lateral change requests	32	941
Pending change orders	1	8

<b>Public Outreach Summary</b>	<b>Last Month</b>	<b>Total To Date</b>
Twitter Followers	0	90
Website Visitors	1,065	27,321
Website Unique Visitors	703	14,722
e-newsletter signup	3	378
24/7 DigLine Calls	59	1,717
Phone Calls/Responses	130	3,710
Email Responses	50	1,030
Office Hour Sessions	6	140
House Calls	32	669
Other Public Contact	2	175

## Water Recycling Facility

<b>Design Services Agreement Summary</b>			
Engineer	Carollo Engineers		
Fee Estimate	\$3,221,432	Agreement Approval Date	11/6/2012
Approved Additional Services	\$151,400	Planned Final Design Phase Completion	August 2013
Adjusted Fee	\$3,372,832	Planned Bidding Phase Completion	November 2013
Billed to Date	\$3,365,681	% complete	100%

## Water Conservation Program

<b>Water Conservation Program Summary</b>	<b>Last Month</b>	<b>Total To Date</b>
Toilets replaced	115	1,958
Showerheads replaced	87	1,696
Faucet aerators replaced	88	2,308
Clothes washers replaced	1	30
Value of rebates issued	\$32,123	\$558,902

## Budget Issues Summary

The following is a summary of budget issues or risks related to the project that are being addressed by the project team. See the attached Budget Status Report for cost through the end of last month.

### 1. Issue: Construction Manager and Designer engineering agreement amendments

The scope of work for both the Construction Manager and Designer is required to continue throughout the duration of the construction contracts. The planned schedule in each engineering agreement is significantly shorter than the actual construction schedule in the approved contracts for the collection system. Additionally, both the Construction Manager and Designer are incurring additional costs, beyond the scope in the agreement, due to the large number of lateral change requests and unforeseen utilities.

**Approach (no change from prior month):** Agreement amendments are be required for both the Construction Manager and Designer to address the additional costs for the increased effort and longer construction schedule in order to continue their work through the end of the collection system construction. An agreement amendment with the Designer was approved by the Board on June 18, 2013. An amendment with the Construction Manager has been processed and is pending Board approval in January 2014.

### 2. Issue: Trench restoration paving

The total contract price is based on estimated quantities of various bid items, including road base and asphalt for restoring pipeline trenches. To date, the actual repair widths of

trenches required to install the pipelines has been approximately 50% greater than anticipated. In limited locations, the poor or thin condition of existing pavement has resulted in the need for repaving the full road width. The repairs are paid for at contract unit prices for base and asphalt. However, the total amount for these bid items will likely exceed the estimates in the original contract price.

**Approach (updated from prior month):** Multiple approaches are being developed to track and address this issue, which include reduces thickness of base and asphalt, negotiated unit cost reductions, utilization of County Roads forces to complete some repairs, and cost sharing from the Roads fund for restoration that provides additional road benefits beyond what is required to restore trenches. A request for authorization from the Board to use existing contract contingencies to cover the addition road restoration cost is pending Board approval in January 2014.

**3. Issue (no change from prior month): Water Recycling Facility construction costs**

The Water Recycling Facility design is complete and bids for the contract were opened on November 25. The low bid is \$46.4 million, which is slightly below the Engineer's estimate, but more that the original planning estimates of \$31.5 million developed in 2007 and included in the 2011 project budget. The estimated cost increase can be attributed to a number of factors, including additional treatment requirements and mitigation measures in the regulatory permit conditions, grading and earthwork costs resulting from the reduced size of the approved site, and inflation factors.

**Approach:** County staff is currently evaluating the bids received and developing a recommendation for the Board of Supervisors to award the contract in January 2014. A recommendation for a budget adjustment is also planned to be presented to the Board to reconcile the difference in contract costs from the original budget amount. The bid results can be viewed at this link:

[http://www.slocounty.ca.gov/PW/Design\\_Division/Bid\\_Results.htm](http://www.slocounty.ca.gov/PW/Design_Division/Bid_Results.htm)

**Exhibit A**  
Project Cost Estimates  
Los Osos Wastewater Project  
As Of 12/31/13

	Item Description	Budget	Costs to Date	Remaining Budget
1	County Financed Pre-Due Diligence costs (through 4/30/2011)	\$ 8,137,210	\$ 8,137,210	\$ -
2	<b>Administration/Preliminary Engineering</b>			
3	Carollo Engineers	\$ 174,562	\$ 167,197	\$ 7,365
4	Meyers Nave...	\$ 26,590	\$ 1,650	\$ 24,940
5	County Staff/Other Direct Costs	\$ 1,744,819	\$ 1,327,545	\$ 417,274
6	<b>Subtotal</b>	<b>\$ 1,945,971</b>	<b>\$ 1,496,392</b>	<b>\$ 449,579</b>
7	Unallocated	\$ -	\$ -	\$ -
8	<b>Total of Administration/Preliminary Engineering</b>	<b>\$ 1,945,971</b>	<b>\$ 1,496,392</b>	<b>\$ 449,579</b>
9	<b>Environmental Permits/Mitigation</b>			
10	Coastal San Luis RCD	\$ 30,361	\$ 6,790	\$ 23,571
11	Brownstein Hyatt Farber Schreck	\$ 25,000	\$ 64,987	\$ (39,987)
12	Far Western Anthropological	\$ 921,606	\$ 403,887	\$ 517,720
13	Mid Town Restoration (R. Burke Construction, Inc)	\$ 400,762	\$ 400,762	\$ -
14	Rick Engineering	\$ 89,055	\$ 89,055	\$ -
15	SLO Green Build	\$ 97,075	\$ 62,005	\$ 35,070
16	SLO Starts Plant Propogation	\$ 54,871	\$ 54,871	\$ -
17	SWCA	\$ 56,539	\$ 56,539	\$ -
18	SWCA	\$ 333,549	\$ 190,921	\$ 142,629
19	Water Conservation	\$ 3,830,000	\$ 859,522	\$ 2,970,478
20	County Staff/Other Direct Costs	\$ 1,400,000	\$ 1,118,528	\$ 281,472
21	<b>Subtotal</b>	<b>\$ 7,238,817</b>	<b>\$ 3,307,866</b>	<b>\$ 3,930,951</b>
22	Unallocated	\$ -	\$ -	\$ -
23	<b>Total of Environmental Permits/Mitigation</b>	<b>\$ 7,238,817</b>	<b>\$ 3,307,866</b>	<b>\$ 3,930,951</b>
24	<b>Collection and Recycled Water - Design and Construction</b>			
25	Camp Dresser & McKee	\$ 6,152,408	\$ 5,492,167	\$ 660,241
26	Cardno TBE	\$ 20,659	\$ 20,659	\$ -
27	Collection System Contract - Areas A & D	\$ 28,846,240	\$ 20,221,441	\$ 8,624,799
28	Collection System Contract - Areas B & C	\$ 32,367,500	\$ 19,907,129	\$ 12,460,371
29	Collection System Contract - Pump Stations	\$ 9,544,550	\$ 10,500	\$ 9,534,050
30	HDR Engineering	\$ 7,686,295	\$ 5,449,685	\$ 2,236,610
31	County Staff/Other Direct Costs	\$ 2,600,000	\$ 1,870,845	\$ 729,155
32	<b>Subtotal</b>	<b>\$ 87,217,652</b>	<b>\$ 52,972,426</b>	<b>\$ 34,245,226</b>
33	Unallocated	\$ 16,224,348	\$ -	\$ 16,224,348
34	<b>Total of Collection and Recycled Water - Design and Construction</b>	<b>\$ 103,442,000</b>	<b>\$ 52,972,426</b>	<b>\$ 50,469,574</b>
35	<b>Treatment Facility - Design and Construction</b>			
36	Carollo Engineers (Preliminary Design)	\$ 942,669	\$ 785,244	\$ 157,425
37	Carollo Engineers (Final Design)	\$ 3,382,504	\$ 3,245,748	\$ 136,756
38	HDR Engineering	\$ 4,022,979	\$ 86,107	\$ 3,936,872
39	County Staff/Other Direct Costs	\$ 750,000	\$ 447,211	\$ 302,789
40	<b>Subtotal</b>	<b>\$ 9,098,152</b>	<b>\$ 4,564,309</b>	<b>\$ 4,533,843</b>
41	Unallocated	\$ 27,012,008	\$ -	\$ 27,012,008
42	<b>Total of Treatment Facility - Design and Construction</b>	<b>\$ 36,110,160</b>	<b>\$ 4,564,309</b>	<b>\$ 31,545,851</b>
43	<b>Right of Way</b>			
44	Hamner Jewell & Associates	\$ 65,634	\$ 56,897	\$ 8,737
45	Schenberger Taylor...	\$ 66,363	\$ 50,000	\$ 16,363
46	Real Property Acquisition	\$ 2,173,000	\$ 2,181,351	\$ (8,351)
47	Price Postal Parma	\$ 130,000	\$ 105,891	\$ 24,109
48	County Staff/Other Direct Costs	\$ 365,004	\$ 393,973	\$ (28,969)
49	<b>Subtotal</b>	<b>\$ 2,800,000</b>	<b>\$ 2,788,112</b>	<b>\$ 11,888</b>
50	Unallocated	\$ -	\$ -	\$ -
51	<b>Total of Right of Way</b>	<b>\$ 2,800,000</b>	<b>\$ 2,788,112</b>	<b>\$ 11,888</b>
52	<b>Subtotal of Project Costs</b>	<b>\$ 159,674,158</b>	<b>\$ 73,266,314</b>	<b>\$ 86,407,844</b>
53	<b>Contingency</b>	\$ 6,325,842	\$ -	\$ 6,325,842
54	<b>SRF Refinance</b>	\$ 6,288,416	\$ 6,288,416	\$ -
55	<b>Interest/Finance Charges</b>	\$ 1,110,000	\$ 1,020,289	\$ 89,711
56	<b>Approved Project Budget (May 17, 2011)</b>	<b>\$ 173,398,416</b>	<b>\$ 80,575,020</b>	<b>\$ 92,823,396</b>