



MONTARA WATER & SANITARY DISTRICT

Serving the Communities of Montara and Moss Beach

P.O. Box 370131

8888 Cabrillo Highway

Montara, CA 94037-0131

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REVISED

NOTICE OF SPECIAL MEETING

The Agenda has been revised to add new business item 2. Review and Possible Action Concerning Schoolhouse Tank West Construction Contract Change Order No. 1

AGENDA

District Board of Directors

8888 Cabrillo Highway
Montara, California 94037

August 29, 2013 at 7:30 p.m.

CALL TO ORDER

ROLL CALL

PRESIDENT'S STATEMENT

ORAL COMMENTS (Items other than those on the agenda)

PUBLIC HEARING

CONSENT AGENDA

OLD BUSINESS

1. Review and Possible Action Concerning Approval of Water and Sewer Budgets and Capital Improvement Programs (Operating Plan) FY 13-14.

NEW BUSINESS

1. Review and Possible Action Concerning Well Rehabilitation Program Contract Approval
2. Review and Possible Action Concerning Schoolhouse Tank West Construction Contract Change Order No. 1

REPORTS

FUTURE AGENDAS

CONVENE IN CLOSED SESSION

ADJOURNMENT

The District has a curfew of 11:00 p.m. for all meetings. The meeting may be extended for one hour by vote of the Board.

NOTE: In accordance with the Government Code, members of the public may address the Board on specific agenda items when that matter is discussed by the Board. Any other items of interest that is within the subject matter jurisdiction of the District may be addressed during the Oral Comments portion of the meeting. Upon request, this agenda will be made available in appropriate alternative formats to persons with a disability. Request for a disability-related modification or an accommodation in order to participate in the public meeting should be made at (650) 728-3545. Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available in the District Clerk's office during normal business hours. Such documents may also be available on the District's web site (www.mwsd.montara.org) subject to staff's ability to post the documents before the meeting.



MONTARA WATER AND SANITARY DISTRICT AGENDA

For Meeting Of: **August 29, 2013**

TO: BOARD OF DIRECTORS

FROM: Clemens Heldmaier, General Manager

**SUBJECT: Review and Possible Action Concerning Draft
Water and Sewer Budget.**

A draft water and sewer budget developed under Director Thollaugh's direction was presented for discussion at the August 1 meeting. Since then the Finance Committee met and further discussed the budget document that is presented today. The accompanying Water and Sewer Capital Improvement Programs were previously presented at the June 6 meeting.

For new water rates to be effective on October 1, a public hearing needs to be held to revise the Master Fee Schedule accordingly at the October 17 meeting. Public Notice of the hearing is required in two subsequent editions of the local newspaper. In addition, district Legal Counsel recommends budget approval before September 1.

At the last meeting the draft budget was referred to the finance committee. The committee met twice to review and suggested further changes.

At the time of preparation of this staff report no final document was available.

RECOMMENDATION:

Discuss the presented budget, revise accordingly and approve revised water and sewer budget. Adopt Resolution No. RESOLUTION OF THE MONTARA WATER AND SANITARY DISTRICT APPROVING BUDGET FOR THE FISCAL YEAR 2013-2014.

Attachments (Resolutions provided at the meeting)



MWSD — Operating Plan FY 2013 - 2014

Start / Change: Start Change

	Water			Sewer			Comparison	
	2012-13 YTD (June 2013)	2012-13 Budget	Water in Progress	2012-13 YTD (June 2013)	2012-13 Budget	Sewer in Progress	Water in Progress vs. 2012-13 YTD (June 2013)	delta as %
Revenue								
Cell Tower Lease:	28,909	29,375	31,100	28,909	29,000	31,100	2,191	8%
Administrative Fees (New Construction):	1,000	4,500	2,250	0	6,000	2,250	1,250	125%
Administrative Fees (Remodel):	2,158	2,500	900	1,320		900	(1,258)	(58%)
Inspection Fees (New Construction):	0	4,500	2,100	830	6,000	2,100	2,100	-
Inspection Fees (Remodel):	407	2,500	850	830		850	443	109%
Mainline Extension Fees:	0		0	0		0	-	-
Remodel Fees:				7,331	4,000	2,200	-	-
Other Fees:	0		0	0		0	-	-
Fees:	3,565	14,000	6,100	10,311	16,000	8,300	2,535	71%
Grants:	0		0	0		0	-	-
Property Tax Receipts:	304,550	250,000	225,000	304,550	250,000	225,000	(79,550)	(26%)
Sewer Service Charges:				1,952,513	1,932,000	1,991,016	-	-
Sewer Service Refunds, Customer:				0		(2,000)	-	-
Testing, Backflow:	9,098	11,500	11,500				2,402	26%
Waste Collection Revenues:				12,980	11,000	13,000	-	-
Water Sales, Domestic:	1,557,945	1,467,700	1,604,700	3%			46,755	3%
Water Sales, Fire Protection:	0						-	-
Water Sales Refunds, Customer:	(3,945)	(2,000)	(4,000)				(55)	1%
Other Revenue:	548		0	14		0	(548)	(100%)
Total Revenue:	1,900,670	1,770,575	1,874,400	2,309,278	2,238,000	2,266,416	(26,270)	(1%)



MWSD — Operating Plan FY 2013 - 2014

Start / Change: Start Change

	Water			Sewer			Comparison	
	2012-13 YTD (June 2013)	2012-13 Budget	Water in Progress	2012-13 YTD (June 2013)	2012-13 Budget	Sewer in Progress	Water in Progress vs. 2012-13 YTD (June 2013)	delta as %

Expenses

Administrative

Management, Administrative:	0	98,290	91,389	0	94,480	79,896	(91,389)	-
Staff, Administrative:	0		145,379	0	63,920	67,716	(145,379)	-
Staff Overtime, Administrative:	0		9,660	0		0	(9,660)	-
Labor, Administrative:	585,674	98,290	246,428	230,862	158,400	147,612	339,246	58%
Bank Fees:	9,075	6,500	9,000	3,074	3,000	3,100	75	1%
Board Meetings:	2,135	1,000	2,000	2,135	3,000	2,000	135	6%
Director Fees:	3,450	2,500	2,500	3,450	3,600	2,500	950	28%
Election Expenses:	0		10,000	0		10,000	(10,000)	-
Board of Directors:	5,585	3,500	14,500	5,585	6,600	14,500	(8,915)	(160%)
CDPH Fees:	14,152	25,000	20,000				(5,848)	(41%)
Conference Attendance:	4,274	2,667	5,000	431	1,000	2,000	(726)	(17%)
Information Systems:	1,300	500	6,000	1,300	3,000	3,000	(4,700)	(362%)
Fidelity Bond:	0		900		900	900	(900)	-
Property & Liability Insurance:	1,425	1,200	1,500	1,425	1,200	1,500	(75)	(5%)
Insurance:	1,425	1,200	2,400	1,425	2,100	2,400	(975)	(68%)
LAFCO Assessment:	1,544	1,800	1,700	1,107	1,500	1,300	(156)	
Meeting Attendance, Legal:	9,218	12,000	10,000	7,376	15,300	10,000	(782)	(8%)
General Legal:	57,912	64,000	70,000	14,057	20,000	20,000	(12,088)	(21%)
Litigation:	19,770	45,000		0		0	19,770	100%
Legal:	86,900	121,000	80,000	21,433	35,300	30,000	6,900	8%
Maintenance, Office:	0	2,000	1,500	2,780	2,000	1,500	(1,500)	-
Meetings, Local:	314	2,667	300	0	1,000	300	14	5%
Memberships:	17,175	16,000	17,500	0	2,500	0	(328)	(2%)
Office Supplies:	14,533	15,500	9,000	3,408	10,000	9,000	5,533	38%
Postage:	4,561	8,000	8,000	2,887	4,000	4,000	(3,439)	(75%)
Printing & Publishing:	378	7,000	2,000	2,441	6,000	2,000	(1,622)	(428%)
Accounting:	62,480	80,000	25,000	64,790	60,000	25,000	37,480	60%
Audit:	12,550	16,000	13,000	12,550	18,000	13,000	(450)	(4%)
Consulting:	10,938	20,000	31,500	11,287	12,000	11,500	(20,562)	(188%)
Data Services:				5,092	5,500	5,500	-	-
Labor Representation:	8,250	9,000	9,000	0		0	(750)	(9%)
Payroll Services:	220		800	172		800	(580)	(263%)
Other Professional Services:	1,953	30,000	0	0		0	1,953	100%
Professional Services:	96,392	155,000	79,300	93,891	95,500	55,800	17,092	18%
San Mateo County Tax Roll Charges:				0	3,000	3,000	-	-
Telephone & Internet, Administrative:	7,321	7,500	5,100	6,402	1,500	5,100	2,221	30%
Travel, Local:	1,236	2,667	1,500	1,290	1,000	1,500	(264)	(21%)
Reference Materials:	380	1,500	800	35	100	200	(420)	(110%)
Other Administrative:	0	1,000	0	100		0	-	-
Total Administrative:	852,219	479,290	510,028	378,452	337,500	286,312	342,191	40%



MWSD — Operating Plan FY 2013 - 2014

Start / Change: Start Change

Operations

	<u>Water</u>			<u>Sewer</u>			<u>Comparison</u>	
	<u>2012-13 YTD (June 2013)</u>	<u>2012-13 Budget</u>	<u>Water in Progress</u>	<u>2012-13 YTD (June 2013)</u>	<u>2012-13 Budget</u>	<u>Sewer in Progress</u>	<u>Water in Progress vs. 2012-13 YTD (June 2013)</u>	<u>delta as %</u>
Management, Operations:	0		90,924	0		2,696	(90,924)	-
Staff, Operations:	0	490,610	236,997	0		12,031	(236,997)	-
Staff Certification, Operations:	0	13,800	15,464	0		0	(15,464)	-
Staff Overtime, Operations:	0	30,300	50,728	0		0	(50,728)	-
Staff Standby, Operations:	0	11,500	16,711	0		0	(16,711)	-
Labor, Operations:	0	546,210	410,824	0	0	14,727	(410,824)	-
Backflow Prevention:	2,120		2,100	0		0		
Claims, Property Damage:	0	10,000	10,000	0	10,000	10,000	(10,000)	-
Communications Equipment, Expensed:	17,402	10,000	17,500	0		0	(98)	(1%)
Internet & Telephone, Communicaitons:	3,279	7,500	3,200	0	1,500	0	79	2%
Communications:	20,682	17,500	20,700	0	1,500	0	(18)	(0%)
Education & Training:	1,840	8,000	0	219	1,000	1,000	1,840	
Meeting Attendance, Engineering:	9,851	26,000	10,000	0		5,000	(149)	(2%)
General Engineering:	23,284	75,000	25,000	30,013	22,000	25,000	(1,716)	(7%)
Water Quality Engineering:	189,573	30,000	100,000	0		0	89,573	47%
Engineering:	222,708	131,000	135,000	30,013	22,000	30,000	87,708	39%
Equipment & Tools, Expensed:	12,627	10,500	13,000	0		0	(373)	(3%)
Alarm Services:	0	800	300	10,430	2,500	4,500	(300)	-
Landscaping:	3,600	4,500	3,600	2,280	3,000	2,400	-	-
Facilities:	3,600	5,300	3,900	12,710	5,500	6,900	(300)	(8%)
Lab Supplies & Equipment:	198	1,000					198	100%
Meter Reading:	1,421	10,000	2,000				(579)	(41%)
Pumping Fuel & Electricity:	43,957	40,000	45,000	27,179	35,000	35,000	(1,043)	(2%)
Pumping Maintenance, Generators:	1,671	15,000	15,000	0		0	(13,329)	(798%)
Pumping Maintenance, General:	0	11,000	0	0	20,000	0	-	-
Pumping Equipment, Expensed:	483		25,000	0		0	(24,517)	(5079%)
Pumping:	46,110	66,000	85,000	27,179	55,000	35,000	(38,890)	(84%)
Maintenance, Supply Mains:	4,388	5,000	5,000				(612)	(14%)
Maintenance, Wells:	457	1,000	1,000				(543)	(119%)
Water Purchases:	0		280,000				(280,000)	-
Supply:	4,845	6,000	286,000	0	0	0	(281,155)	(5804%)
Hydrants:	2,091	2,000	2,000				91	4%
Maintenance, Mains:	36,123	50,000	50,000				(13,877)	(38%)
Maintenance, Service Lines:	15,361	30,000	30,000				(14,639)	(95%)
Maintenance, Tanks:	6,318	1,000	6,500				(182)	(3%)
Maintenance, Transmission General:	6,189	3,000	6,500				(311)	(5%)
Maintenance, Collection System:	0			2,013	20,000	20,000	-	-
Meters:	3,186	5,000	5,000	0		0	(1,814)	(57%)
Collection / Transmission:	69,267	91,000	100,000	2,013	20,000	20,000	(30,733)	(44%)
Chemicals & Filtering:	20,623	20,000	21,000				(377)	(2%)



MWSD — Operating Plan FY 2013 - 2014

Start / Change: **Start** **Change**

	Water			Sewer			Comparison	
	2012-13 YTD (June 2013)	2012-13 Budget	Water in Progress	2012-13 YTD (June 2013)	2012-13 Budget	Sewer in Progress	Water in Progress vs. 2012-13 YTD (June 2013)	delta as %
Maintenance, Treatment Equipment:	4,779	7,500	7,500				(2,721)	(57%)
Treatment Analysis:	21,066	36,000	23,000	0			(1,934)	(9%)
Treatment:	46,468	63,500	51,500	0	0	0	(5,032)	(11%)
Uniforms:	8,473	7,000	8,500	0		0	(27)	(0%)
Fuel:	8,737	12,500	10,000	0		0	(1,263)	(14%)
Vehicular Equipment, Expensed:	20		1,000	0		0	(980)	(4900%)
Vehicular Repairs:	861	4,000	2,000	0		0	(1,139)	(132%)
Vehicles:	9,617	16,500	13,000	0	0	0	(3,383)	(35%)
Other Operations:	1,666	5,000	0	6,690		0	1,666	100%
SAM Collections:				281,340	281,337	332,868	-	-
SAM Operations:				655,776	642,036	657,204	-	-
SAM Prior-Year Adjustment:				(39,958)	(10,000)	(286,787)	-	-
SAM Maintenance, Collection System:				62,052	40,000	40,000	-	-
Sam Maintenance, Pumping:	0			0	40,000	40,000	-	-
Total SAM:	0	0	0	959,210	993,373	803,285	0	-
Total Operations:	451,643	994,510	1,141,524	1,038,033	1,108,373	920,912	(689,882)	(153%)
Contingency:			132,100			36,200	(132,100)	-
Total Expenses:	1,303,862	1,473,800	1,783,652	1,416,485	1,445,873	1,243,424	(479,790)	(37%)
Net Change in Assets from Operations:	596,808	296,775	90,748	892,793	792,127	1,022,992	(506,060)	(85%)

Other Revenue / Expense

Other Revenue

Connection Fees, Residential New Const:	1,444		72,800	22,215		111,600	71,356	4943%
Connection Fees, Residential Remodel:	0		2,900	14,110		14,000	2,900	-
Connection Fees, Residential Fire:	32,457		38,100				5,643	17%
Connection Fees, Residential Remodel Fire:	0		9,100				9,100	-
Connection Fees, Well Conversion:	0		0				-	-
Connection Fees:	33,901		122,900	36,325		125,600	88,999	263%
General Obligation Bonds, Assessment Receipts:	1,230,365		1,150,436	0		0	(79,929)	(6%)
Employee Loans, Interest:						4,134	-	-
LAIF, Interest:	0		0	7,919		8,000	-	-
Other Revenue:	1,264,266		1,273,336	44,244		137,734	9,070	1%



MWSD — Operating Plan FY 2013 - 2014

Start / Change:	Start		Change		Comparison			
	Water		Sewer		Comparison			
	2012-13 YTD (June 2013)	2012-13 Budget	Water in Progress	2012-13 YTD (June 2013)	2012-13 Budget	Sewer in Progress	Water in Progress vs. 2012-13 YTD (June 2013)	delta as %
Other Expense								
General Obligation Bonds, Interest Expense:	294,261		354,780	0		0	(60,519)	(21%)
I-Bank Loan, Interest Expense:				28,345		27,594	-	-
PNC Equipment Lease, Interest Expense:	12,342		22,817	12,342		22,817	(10,475)	(85%)
State Revolving Fund Loan, Interest Expense:	3,082		7,175				(4,093)	(133%)
Capital Assessment, SAM:						182,000	-	-
Other Expense:	309,685		384,772	40,687		232,411	(75,087)	(24%)
Capital Improvement Projects (CIP)								
Administrative:	0		45,800	0		9,800	(45,800)	-
Water, Existing Customers:	304,509		1,353,500				(1,048,991)	(344%)
Water, New Customers:	159,188		160,000				(812)	(1%)
Sewer:				752,558		1,759,000	-	-
Capital Improvement Projects:	463,697		1,559,300	752,558		1,768,800	(1,095,603)	(236%)
Sources of Cash								
Employee Loans, Principal:				13,879		16,533	-	-
State Revolving Fund Loan:	360,000		640,000				280,000	78%
GO Bond Acquisition and Improvement Fund:	0		0				-	-
	0		0				-	-
Sources of Cash:	360,000		640,000	13,879		16,533	280,000	78%
Uses of Cash								
General Obligation Bonds, Principal:	854,915		785,656				59,259	7%
I-Bank Loan, Principal:				24,253		24,992	-	-
PNC Equipment Lease, Principal:	22,565		30,656	22,565		30,656	(8,091)	(36%)
State Revolving Fund Loan, Principal:			69,032			0	(69,032)	-
			0				-	-
Uses of Cash:	877,480		895,344	46,818		55,648	(17,864)	(2%)
Total Other Income/Expense, Sources & Uses:	(26,597)		(926,080)	(781,940)		(1,902,592)	(899,483)	3382%
Net Change in Assets from Operations:	570,212		(835,332)	110,853		(879,600)	(1,405,544)	

Operating Plan

Admin Capital Water

Comments

Admin Capital Sewer

Building Maintenance:	4,800	\$3600 roof repair, \$3000 downspouts, \$3000 Garage painting gutters and door
Billing:	36,000	\$30K upgrade billing software and 6K new reading device
Office:	5,000	new copier
Total:	45,800	

4,800
5,000
9,800

MWSD
Five Year Capital Improvement Program
WATER SYSTEM

Existing Customer CIP	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	5-Year CIP Total
<i>Mech. Sys. Rep. & Replacements-Water</i>	\$ 10,000	\$ 10,200	\$ 10,404	\$ 10,612	\$ 10,824	\$ 52,040
<i>Water Meters</i>	\$ 10,000	\$ 25,500	\$ 52,020	\$ 53,060	\$ 54,122	\$ 194,702
<i>Water Lateral Services</i>	\$ 30,000	\$ 30,600	\$ 31,212	\$ 31,836	\$ 32,473	\$ 156,121
<i>Water Main Replacements</i>	\$ 100,000	\$ 102,000	\$ 104,040	\$ 106,121	\$ 108,243	\$ 520,404
<i>Replace Fire Hydrants</i>	\$ 5,000	\$ 5,100	\$ 5,202	\$ 5,306	\$ 5,412	\$ 26,020
Distribution System Renewal and Replacement Prog	\$ 155,000	\$ 173,400	\$ 202,878	\$ 206,936	\$ 211,074	\$ 949,288
Water Conservation Program	\$ 8,500	\$ 8,670	\$ 8,843	\$ 9,020	\$ 9,201	\$ 44,234
<i>South Airport Well Rehabilitation and Fence</i>	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000
<i>Well Rehabilitation</i>	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Well Rehabilitation Program	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Storage Tank Rehabilitation Program	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Vehicle Replacement Fund	\$ -	\$ -	\$ 30,000	\$ 25,000	\$ 25,500	\$ 80,500
<i>Schoolhouse Tank West</i>	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000
<i>Alta Vista Tank No. 2 New</i>	\$ 200,000	\$ 3,000,000	\$ -	\$ -	\$ -	\$ 3,200,000
<i>Airport Water Treatment Plant - construction</i>	\$ -	\$ 1,550,000	\$ -	\$ -	\$ -	\$ 1,550,000
<i>Airport Water Treatment Plant - design</i>	\$ 140,000	\$ -	\$ -	\$ -	\$ -	\$ 140,000
Public Works Plan Phase I Projects	\$ 940,000	\$ 4,550,000	\$ -	\$ -	\$ -	\$ 5,490,000
Pillar Ridge Rehabilitation Program	\$ -	\$ 150,000	\$ 200,000	\$ 50,000	\$ 50,000	\$ 450,000
EXISTING CUSTOMER CIP TOTAL	\$ 1,353,500	\$ 4,982,070	\$ 441,721	\$ 290,956	\$ 295,775	\$ 7,364,022
EXISTING CUSTOMER CAPITAL FUND						
Beginning Balance	\$ 1,860,000	\$ 1,233,167	\$ 97,763	\$ (57,291)	\$ (261,581)	\$ 2,872,058
<i>SRF LOAN 024</i>	\$ 140,000	\$ -	\$ -	\$ -	\$ -	\$ 140,000
<i>SRF LOAN 022</i>	\$ 500,000	\$ 2,210,000	\$ 200,000	\$ -	\$ -	\$ 2,910,000
SRF Loan Disbursements	\$ 640,000	\$ 2,210,000	\$ 200,000	\$ -	\$ -	\$ 3,050,000
ew Customer Reimbursement to Existing Customers	\$ 86,667	\$ 86,667	\$ 86,667	\$ 86,667	\$ 86,667	\$ 433,333
I-Bank Loan (proposed)	\$ -	\$ 1,550,000	\$ -	\$ -	\$ -	\$ 1,550,000
Existing Customer Capital Fund TOTAL:	\$ 2,586,667	\$ 5,079,833	\$ 384,430	\$ 29,375	\$ (174,914)	\$ 7,905,391
Existing Customer Capital Fund Balance:	\$ 1,233,167	\$ 97,763	\$ (57,291)	\$ (261,581)	\$ (470,689)	\$ 541,369
NEW CUSTOMER CIP						
New Customer CIP	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	5-Year CIP Total
Develop Additional Supply Reliability	\$ -	\$ 244,920	\$ 244,920	\$ 94,920	\$ 94,920	\$ 679,680
Portola Tank Telemetry Upgrade	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000
New and Upgraded PRV Stations	\$ 50,000	\$ 51,000	\$ 52,020	\$ 53,060	\$ 54,122	\$ 260,202
SCADA Improvements	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Schoolhouse Booster Pump Station Upgrade	\$ 50,000	\$ 230,000	\$ -	\$ -	\$ -	\$ 280,000
Valve Installation Program	\$ 10,000	\$ 15,300	\$ 15,606	\$ 15,918	\$ -	\$ 56,824
Wagner Well Pump Upgrade	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000
Water Main Upgrades	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 300,000	\$ 900,000
NEW CUSTOMER CIP TOTAL	\$ 160,000	\$ 566,220	\$ 662,546	\$ 463,899	\$ 449,042	\$ 2,301,706

Montara Water and Sanitary District

Capital Improvement Program

The District's water system requires improvements to address system renewal and replacement needs, continue to improve water supply reliability, and ensure sufficient response under daily operational scenarios, fire flow, and emergency conditions. These potential improvements make up the District's Capital Improvement Program (CIP) and include the rehabilitation of the existing infrastructure, addition of new facilities, development of new sources of supply, implementation of repair and replacement, and preventive maintenance programs.

In 2003, the Board established the CIP prioritization criteria that serve as the foundation for the District's capital improvements decision-making process to ensure a relevant implementation schedule and adequate funding for the improvements. The criteria provides a method to rate the relative importance of a particular project based upon factors such as protection of public health, employee safety, legal and regulatory requirements, and funding constraints. These criteria established which projects should be implemented in any given year and over the CIP planning horizon. The prioritization criteria used by MWSD are presented in Table 1, below, categorized into three project levels, listed from most to least critical for implementation.

In addition, following introduction of new domestic connections to the water system in 2011 by the Board, the District has developed a two-part CIP that includes projects needed for the existing customers and designed to provide appropriate levels of renewal and replacement for the current water system. The water rate revenue funds these projects. The second category of projects are designed exclusively or shared by the new customers connecting to the water system. This second category is funded through the Water Capacity Charge (WCC).

**2013–2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Table 1 Prioritization Criteria		
Prioritization Level	Description	Examples
Level 1 Mandatory Projects	“Must do”, highest priority. District has little or no control to defer.	(1) Projects required by law/legislation, regulations; (2) Projects protecting health and safety of employees and the public; and (3) Project funded by others.
Level 2 Necessary Projects	Must be done. District has moderate level of control over the timing of implementation.	(1) Projects required for providing adequate emergency storage and meeting fire flow requirements; (2) Projects reducing water system losses and reducing pipeline leaks.
Level 3 Discretionary Projects	Should be done. District has significant level of control over the timing of implementation.	Projects that are required but can be deferred to a later date. Level 3 Projects could be completed as-needed, if Level 1 or Level 2 Projects are postponed.

Priority Level One – Mandatory Projects

Priority Level 1 projects that almost exclusively address the projected system deficiencies related to adding new customers to the system. Most of the anticipated system deficiencies are due to adding new connections to the system and increasing water demands.

<p>"Must do", highest priority. District has little or no control to defer.</p>	<p>(1) Projects required by law/legislation, regulations; (2) Projects protecting health and safety of employees and the public; and (3) Project funded by others.</p>
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This CIP focuses on the first five years of this timeline. The projects and actions described below would allow the District to address system deficiencies and continue to operate an efficient and reliable system. The proposed *Priority Level 1* near-term improvements continue the District's progress toward sustainability through investments that: (1) diversify sources of water supply, (2) improve water quality, (3) encourage conservation of water and energy, and (4) meet current and future infrastructure needs.

Table 2, below, contains all *Priority Level 1* projects that have been formulated to provide benefit to, and be paid for by, new District customers. A detailed discussion of the projects follows.

Table 2 Priority One – Mandatory Projects
1. Develop Additional Supply Reliability
2. Portola Tank Telemetry Upgrade
3. New and Upgraded PRV Stations
4. SCADA Improvements
5. Schoolhouse Booster Pump Station Upgrade
6. Valve Installation Program
7. Wagner Well Pump Upgrade
8. Water Main Upgrades
9. New Customer Reimbursement to Existing Customers
12. Water Main Upgrades

**2013–2018 MWSO Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

Develop Additional Supply Reliability

This project provides for planning, permitting, and implementation of water supply augmentation to ensure that the water system's reliability remains intact with the addition of the new water customers to the system. Currently, the District has about 20 percent reliability and redundancy in its water supply portfolio achieved by existing District's customers through adding new sources, implementing water system improvements, securing the existing Airport Wells for its water supply portfolio, and through conservation. This portion of the water supply portfolio will initially be utilized to add new customers to the system; however, the supply reliability needs to be replenished and paid for by the new customers to ensure consistent continued reliability of the water system. The project includes new groundwater source development, surface water supply augmentation, and restoration of existing wells' capacity.

Portola Wells I, III, and IV Production Restoration: The Portola Wells I, III, and IV Production Restoration Project includes re-drilling Portola Wells I, III, and IV, rehabilitating the wells, and replacing the pumping equipment to restore the wells to their original design capacity. *Balance Hydrologics* estimated that re-drilling the three wells that would likely restore their production to the design levels:

- Portola I Well depth would be increased from 332 ft to 600 ft
- Portola III Well depth would be increased from 300 ft to 600 ft
- Portola IV Well depth would be increased from 500 ft to 800 ft

This increase in depth would potentially improve the rated capacity of each well by 5 to 10 gpm for a total capacity restoration potential of 15 to 30 gpm. Environmental compliance for the project may include obtaining a Categorical Exemption (CatEx) under the California Environmental Quality Act (CEQA) and a Coastal Development Exemption (CDX) or Coastal Development Permit (CDP).

New Park Well Development: The New Park Well Development Project includes drilling and developing a new well on District-owned "Park Well" property, potentially including a treatment system for iron and manganese removal, and connecting the new well to the distribution system. The New Park Well would be located on the same property as the existing Park Well, either on the existing Tennis Court/Asphalt Pavement or near George Street, outside the flood zone. Although no test drilling has taken place, potential well capacity has been estimated at 50 – 70 gpm, and high levels of iron and manganese are anticipated. Environmental compliance for the project will likely include fulfilling CEQA and LCP requirements and amending the District's Public Works Plan (PWP).

**2013–2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Pillar Ridge Manufactured Home Community Water System Consolidation: The Pillar Ridge Manufactured Home Community Water System (Pillar Ridge) Consolidation Project is the consolidation of the Pillar Ridge water system, inclusive of the water sources, storage, and treatment, into the MWSD system. The distribution system and customer service is anticipated to remain with Pillar Ridge. With the consolidation, the following improvements would be made: incorporation of the Pillar Ridge water system controls into the MWSD Supervisory Control and Data Acquisition (SCADA) system, adjustments to the District's system to accommodate a new pressure zone, and other miscellaneous improvements. Currently, Pillar Ridge provides water to its customers from three groundwater wells and from MWSD. The average production per well is reported at 35 gpm, with a rated combined supply capacity of 70 gpm. The maximum demand on the system is approximately 70 gpm, and the difference between the well production and daily demand is met through the permanent metered connection from the MWSD system. MWSD reserves 35 gpm of its supply capacity for Pillar Ridge.

By consolidating Pillar Ridge water system with the MWSD water system, the combined water system would gain further supply reliability. MWSD will no longer have to reserve 35 gpm for Pillar Ridge to be available at a 24-hour notice. To evaluate the potential additional supply that could be acquired by MWSD, a more comprehensive analysis of the Pillar Ridge water system and the consolidation project would be necessary. There is also potential for additional source water supply to be acquired through the consolidation, as the Pillar Ridge system owns a fourth well that could be converted to a production well. Environmental compliance for the project will likely include obtaining a CDX and CatEx under CEQA. There is grant funding potential for this project.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Develop Additional Supply Reliability	\$679,680	\$-	\$244,920	\$244,920	\$94,920	\$94,920

**2013-2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Portola Tank Telemetry Upgrade

The existing Portola Tank currently operates with no telemetry link to the District's SCADA system. While this arrangement works to serve existing water customers, addition of new customers throughout the District's service area will require adding the tank to SCADA to ensure optimization of operations of the tank under new demand conditions.

- The estimated cost of this project is \$50,000 and will be paid by the new customers through the WCC.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Portola Tank Telemetry Upgrade	\$50,000	\$-	\$-	\$50,000	\$-	\$-

**2013-2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

New and Upgraded Pressure-Regulating Stations

Due to the District's water system configuration and the terrain of the service area, the District operates over 20 existing pressure-regulating stations (PRVs). With the addition of new customers throughout the service area, this project will install up to 5 new PRV stations and increase the capacity of up to 10 existing PRV stations.

- The estimated cost of this project is \$260,202 and will be paid by the new customers through the WCC.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
New and Upgraded PRV Stations	\$260,202	\$50,000	\$51,000	\$52,020	\$53,060	\$94,920

**2013–2018 MWSD Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

SCADA Improvements

The District operates an existing SCADA that has been significantly improved during the years of public ownership of the water system. However, the system operates at capacity and it's expansion is required to accommodate addition of new water customers. This project will include the equipment and installation work required to expand the existing SCADA.

- The estimated cost of this project is \$50,000 and will be paid by the new customers through the WCC.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
SCADA Improvements	\$50,000	\$-	\$50,000	\$-	\$-	\$-

**2013–2018 MWSD Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

Schoolhouse Booster Pump Station Upgrade

The District owns and operates the existing Schoolhouse Booster Pump Station. The addition of new water customers throughout the service area necessitates installation of a new set of booster pumps to accommodate the distribution system expansion for new customers and a new set of parameters under which the system would operate when demand increases. The existing booster pump station building has no room to house these new pumps, and has reached the end of its useful life, so a new building would also be required. This project will include a new set of pumps, rehabilitation and/or replacement of the existing pumps, and a new building to house two sets of pumps.

- The estimated cost of this project is \$580,000. The new customers will be responsible for \$280,000 of the total project cost.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Schoolhouse Booster Pump Station Upgrade	\$280,000	\$50,000	\$230,000	\$-	\$-	\$-

**2013–2018 MWSD Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

Valve Installation Program

As part of the distribution system upgrade to accommodate addition of new customers to the water system, under this project, the District will install up to eight new isolation and control valves in strategic locations throughout the distribution system to allow flow improvements to serve new customers.

- The estimated cost of this program is \$56,824 and will be paid by the new customers through the WCC.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Valve Installation Program	\$56,824	\$10,000	\$15,300	\$15,606	\$15,918	\$-

**2013–2018 MWSD Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

Water Main Upgrades

Under the water main upgrade program, the District will undertake the effort of designing and constructing new water main extensions in the urban areas where needed and upsizing the existing distribution system mains to accommodate increasing demands due to the addition of new water customers. This program includes an estimated additional 6,000 linear feet of 6 to 8-inch diameter mains designed and installed in the system.

- The estimated cost of these upgrades is \$0.9 million and will be paid by the new customers through the WCC.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Water Main Upgrades	\$900,000	\$-	\$-	\$300,000	\$300,000	\$300,000

**2013–2018 MWSD Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

Wagner Well Pump Upgrades

The existing District's Wagner Well operates within its design parameters in the existing water system. Hydraulic analysis demonstrates, however, that with increased demands due to new water customers, Wagner Well pump would be unable to pump into the system. The pump and motor replacement is required to accommodate new customers.

- The estimated cost of this upgrade is \$25,000 and will be borne by the new customers through the WCC.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Wagner Well Pump Upgrades	\$25,000	\$-	\$25,000	\$-	\$-	\$-

Priority Level Two – Necessary Projects

The District's water system requires improvements to address system renewal and replacement needs and ensure sufficient response under daily operational scenarios, fire flow, and emergency conditions. These necessary improvements make up the District's Priority Level Two, Necessary Projects, which include the rehabilitation of the existing infrastructure, repair and replacement, and preventive maintenance programs.

Level 2 Necessary Projects	Must be done. District has moderate level of control over the timing of implementation.	(1) Projects required for providing adequate emergency storage and meeting fire flow requirements; (2) Projects reducing water system losses and reducing pipeline leaks.
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Table 3 below provides a list of the Priority Two Level projects. These projects serve existing District's customers and are funded by the water rate revenues.

Table 3 Priority Two - Necessary Projects
1. Distribution System Renewal and Replacement Program
2. Water Conservation Program
3. Well Rehabilitation Program
4. Storage Tank Rehabilitation Program
5. Vehicle Replacement Fund
6. Public Works Plan Phase I Projects
7. Pillar Ridge Consolidation Project

**2013–2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Distribution System Renewal and Replacement Program

This program is an on-going rehabilitation program by the District that includes the following projects:

- Mechanical systems replacement
- Water meter replacement
- Water lateral replacement
- Water main replacement
- Fire hydrant replacement

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Distribution System R&R Program	\$949,28 8	\$155,00 0	\$173,400	\$202,87 8	\$206,93 6	\$211,07 4

**2013–2018 MWSO Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Water Conservation Program

The District continues its multi-year rebate program to encourage customers to replace their fixtures and appliances with water-efficient units.

This program is funded at \$8,500 annually, adjusted for inflation for a 5-year total of \$44,234.

**2013–2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Well Rehabilitation Program

This program includes rehabilitation of existing groundwater sources and focuses on the South Airport Well rehabilitation in the first year at a cost of \$150,000, and the remaining wells in the system, at a \$100,000 annually, inflated.

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Well Rehabilitation Program	\$670,404	\$250,000	\$102,000	\$104,040	\$106,121	\$108,243

**2013–2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Vehicle Replacement Fund

This funding is targeted to a renewal of the District fleet of trucks and starts in FY 15/16 with a \$30,000 purchase of a heavy truck followed by replacing one light truck annually at \$25,000 and \$25,500 respectively, in the following two years of the CIP.

**2013–2018 MWSD Water System Capital Improvement Program
Update – June 6, 2013 BOARD REVIEW DRAFT**

Phase I PWP Projects

The District developed its Public Works Plan (PWP) and received approval of the Coastal Commission to design and construct various improvements to the water system to improve supply and delivery reliability. Initiated in 2004, the PWP projects remaining to be implemented as part of this CIP include the following:

- Schoolhouse Tank West
- Alta Vista Tank No. 2
- Airport Wells Water Treatment Plant

These projects will be funded through a combination of the State Revolving Fund (SRF) low interest loans and water rate revenue.

	CIP Total	FY 13/14	FY 14/15
Phase I PWP Projects	\$5,490,000	\$1,640,000	\$3,850,000

**2013–2018 MWSD Water System Capital Improvement Program
Update - June 6, 2013 BOARD REVIEW DRAFT**

Pillar Ridge Rehabilitation Program

Consolidation of the Pillar Ridge Water System into the MWSD water system benefits all District's customers. The addition of new facilities, however, necessitates planning for the renewal and replacement of the Pillar Ridge treatment, supply, and storage facilities. This program is planned for systematic rehabilitation of the facilities and is proposed for the following funding:

	CIP Total	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
Pillar Ridge Rehabilitation Program	\$450,000	\$-	\$150,000	\$200,000	50,000	\$50,000

**Montara Water and Sanitary District
2013 - 2018**

5 Year Capital Priority List for Sanitary Sewer Repairs

Status: Updated May 31 , 2013

DRAFT

Fiscal Year	Capital Improvement Needs	Notes/Status
2013-2014 Fiscal Year Capital Improvement Needs		
2013-2014	Pump Station Control Upgrades - Date Harte, Seal Cove 1,2, and 3 6 EA @ \$20,000 /LF Float/Pump Starters \$120,000 1 EA @ \$30,000 /LF MCC \$30,000 Contingencies (35%) \$52,500 <hr/> \$202,500	High Priority Pump Failure Risk
2013-2014	Pump Station Mechanical Upgrades and Painting - various (see above) Mechanical @ \$15,000 LS Pipes and Valves \$15,000 Painting @ \$15,000 LS Coating structure \$15,000 Contingencies (30%) \$9,000 <hr/> \$39,000	Medium to High Priority
2013-2014	Acacia Street M730.03 - M721.03 (SAM Hot List #4) 720 LF @ \$180 /LF Pipe Burst \$129,600 Contingencies (30%) \$38,880 <hr/> \$168,480	Medium/High Priority Roots, I and I
2012-2013	Montara Area Easements Sewers, 10th at Farallone, 7th at LaConte 1,025 LF @ \$160 /LF Pipe Burst \$164,000 Contingencies (30%) \$49,200 <hr/> \$213,200	High Priority (SAM Hot List)
2013-2014	Montara Area Street Sewers, Farallone between 10th and 11th, South of Harte St 750 LF @ \$180 /LF Pipe Burst \$135,000 Contingencies (30%) \$40,500 <hr/> \$175,500	Spot Repairs Made (12/13) push back some lines (SAM Hot List)
2013-2014	Vallemar Serwer Relocation Study and Permit Review Study @ \$10,000 LS Study Preparation \$10,000 Permits @ \$5,000 LS Permit Plan Submittz \$5,000 <hr/> \$15,000	Medium to High Priority
2013-2014	Cabrillo Highway PHASE 1A+1B - Trunk Sewer (Crossing to 14th) 221 LF @ 1275 Bore and Jack \$281,775 725 LF @ \$425 /LF Open Trench \$308,125 Contingencies (35%) Night Work \$206,465 <hr/> \$796,365	Caltrans Permit Delay Carry project from 12/13 High Priority,SSO Risk Sag, Roots, Cracks

		13-14 Total	\$1,610,045	
2014-2015 Fiscal Year Capital Improvement Needs				
2014-2015	Cabrillo Highway PHASE 2A - Trunk Sewer (14th - 11th) 1,100 LF @ \$350 /LF CIPP Contingencies (35%)	\$385,000 \$134,750 \$519,750		Move from 13/14 to 14/15
2014-2015	George St Trunk Sewer West of Tamarand St 900 LF @ \$250 /LF Pipe Burst Contingencies (30%)	\$225,000 \$67,500 \$292,500		Added 2009 Med.High Priority
2014-2015	Cedar Street (Phase #3, South Section) 450 LF @ \$180 /LF Open Cut Contingencies (30%)	\$81,000 \$24,300 \$105,300		Moved from 13/14 pipe ok, flat grade need open cut repair (SAM Hot List #6)
2014-2015	6 th -7th Street Area sewers and Easements 750 LF @ \$180 /LF Open Cut Contingencies (30%)	\$135,000 \$40,500 \$175,500		Spot Repairs Made push back some lines (SAM Hot List #3)
2015-2016	Pump Station FM - Distillary Force Main (And 4 houses) 1 EA @ \$12,000 /EA Spot Repairs Contingencies (25%)	\$12,000 \$3,000 \$15,000		High Priority (Spot Repairs Made)
2014-2015	Pump Station Control Upgrades - Air Port, 5th St, 7th St, Distillary 4 EA @ \$20,000 /EA Float/Pump Starters Contingencies (35%)	\$80,000 \$28,000 \$108,000		High Priority Pump Failure Risk
		14-15 Total	\$1,216,050	
2015-2016 Fiscal Year Capital Improvement Needs				
2015-2016	Cabrillo Highway PHASE 2B - Trunk Sewer (11th - 7th + Crossing) 900 LF @ \$350 /LF CIPP Contingencies (35%)	\$315,000 \$110,250 \$425,250		Move from 14/15 to 15/16
2015-2016	Virginia St Sag Repair 1,200 LF @ \$300 /LF Open Cut Contingencies (30%)	\$360,000 \$108,000 \$468,000		Multiple Sags Grease problem (Spot Repairs needed now)
2015-2016	Nevada St and Moss Beach Area Sewers 550 LF @ \$220 /LF Pipe Burst Contingencies (30%)	\$121,000 \$36,300		Multiple Fractures (Spot Repairs needed now)

		\$157,300	
2015-2016	Pump Station FM - Distillary Force Main (And 4 houses)		High Priority
	4 EA @ \$4,000 /EA Pump Connections	\$16,000	(Spot Repairs Made)
	320 LF @ \$325 /LF Distillary Forcemain	\$104,000	
	Contingencies (30%)	\$4,800	
		\$124,800	
2015-2016	Pump Station - Distillary Pump Station (And 4 houses)		High Priority
	4 EA @ \$15,000 /EA Pump Connections	\$60,000	(Spot Repairs Made)
	1 EA @ \$100,000 /LF Distillary Forcemain	\$100,000	
	Contingencies (35%)	\$21,000	
		\$181,000	
	15-16 Total	\$1,356,350	
2016-2017 Fiscal Year Capital Improvement Needs			
2016-2017	Cabrillo Highway PHASE 3 - Parallel Pipes (10th St to 6th Street)		Move from 15/16 to 16/17
	1,440 LF @ \$375 /LF Open Cut	\$540,000	
	Contingencies (35%)	\$189,000	
		\$729,000	
2016-2017	Nevada St and Moss Beach Area Sewers		Multiple Fractures (Spot Repairs needed now)
	1,500 LF @ \$225 /LF Pipe Burst + Open C	\$337,500	
	Contingencies (30%)	\$101,250	
		\$438,750	
2016-2017	Various Moss Beach Sewers on Steston St.		Multiple Fractures (Spot Repairs needed now)
	1,800 LF @ \$220 /LF Pipe Burst and Open	\$396,000	
	Contingencies (30%)	\$118,800	
		\$514,800	
2015-2016	Pump Station - Distillary Pump Station (And 4 houses)		High Priority
	2 EA @ \$4,000 /EA Pump Connections	\$8,000	
	1 EA @ \$69,000 /LF Distillary Forcemain	\$69,000	
	Contingencies (35%)	\$2,800	
		\$79,800	
	16-17 Total	\$1,762,350	
2017-2018 Fiscal Year Capital Improvement Needs			
2017-2018	Vallimar Sewer Relocation (Strand, Niagara, Private Pumps)		Added 2010, Errosion Risk
	1,500 LF @ \$275 /LF Open Cut	\$412,500	Mediun Priority
	10 EA @ \$15,000 /EA Open Cut	\$150,000	Long term plan
	Electrical + Distribution	\$200,000	
	PS Niagra Abandonment	\$25,000	
	Contingencies (35%)	\$275,625	
		\$1,063,125	

2017-2018	Various Moss Beach Sewers Near Buena Vista St.				Added 2009	
	2,000	LF @	\$220 ./LF	Pipe Burst and Open	\$440,000	Mediun Priority
	<u>Contingencies (30%)</u>				\$132,000	Long term plan
					\$572,000	
2017-2018	Various Moss Beach Sewers Near Carlos St.				Added 2009	
	900	LF @	\$220 ./LF	Pipe Burst and Open	\$198,000	Mediun Priority
	<u>Contingencies (30%)</u>				\$59,400	Long term plan
					\$257,400	
2017-2018	Various Montara Sewers 10th and 14th.				Added 2009	
	1,200	LF @	\$220 ./LF	Pipe Burst and Open	\$264,000	Mediun Priority
	<u>Contingencies (30%)</u>				\$79,200	Long term plan
					\$343,200	
2017-2018	Montara Montara Easements Sewers Various Locations.				Added 2009	
	1,600	LF @	\$180 ./LF	Pipe Burst and Open	\$288,000	Mediun Priority
	<u>Contingencies (30%)</u>				\$86,400	Long term plan

Montara Water and Sanitary District

2013-2014 Capital Improvement Project Cost Estimate
and Detailed Project Descriptions

July 12, 2013

Pump Station Control Upgrades - Date Harte, Seal Cove 1, 2, and 3

This project will improve the reliability sanitary sewer pump stations by the installation of redundant float motor starters and communication links as well and other miscellaneous panel improvements at Date Hart, Seal Cove 1 and 3. Seal Cove #2 requires complete MCC Panel Replacement.

6 EA	@	\$20,000	./LF	Float/Pump Starters	\$120,000
1 EA	@	\$30,000	./LF	MCC	\$30,000
Contingencies (35%)					\$52,500
					<hr/>
					\$202,500

Pump Station Mechanical Upgrades and Painting - various locations (see above)

Many of the Pump Stations Wet Wells and Discharge Header pipes and valves need maintenance, painting/coating or replacement due to age and corrosion.

Mechanical	@	\$15,000	LS	Pipes and Valves	\$15,000
Painting	@	\$15,000	LS	Bore and Jack	\$15,000
Contingencies (30%)					\$9,000
					<hr/>
					\$39,000

Acacia Street M730.03 - M721.03 (SAM Hot List #4)

SAM has to clean this sewer multiple times per year due to heavy root intrusion and various cracks which increase infiltration and over flow risks.

720 LF	@	\$180	./LF	Pipe Burst	\$129,600
Contingencies (30%)					\$38,880
					<hr/>
					\$168,480

Montara Area Easements Sewers, 10th at Farallone, 7th at LaConte, Sam Hotlist #3

The Easement sewers are difficult to clean and Manholes M201.05 to M201.13, and M440.07 to M760.07 are lines SAM has to clean this sewer multiple times per year due to heavy root intrusion and various cracks which increase infiltration and over flow risks.

1,025 LF	@	\$160	./LF	Pipe Burst	\$164,000
Contingencies (30%)					\$49,200
					<hr/>
					\$213,200

Montara Area Street Sewers, Farallone between 10th and 11th, South of Harte St

Farallone between 10th and 11th and the sewer South of Harte St on Birch, manholes M800.07-M801.09, M310.05-M311.05, are sewers SAM has to clean multiple times per year due to heavy root intrusion and various cracks which increase infiltration and over flow risks.

750	LF	@	\$180	./LF	Pipe Burst	\$135,000
Contingencies (30%)						\$40,500
						<hr/>
						\$175,500

Vallemar Sewer Relocation Study and Permits

The Vallemar sewer is currently an easement sewer in very poor condition that runs along the Strand just above the coastal cliff. It has slid into the ocean and been repaired several times. It used to serve all of East Moss Beach. When the Vallemar Pump Station was build the sewage was intercepted and pumped by the Vallemar Pump Station. There are only about 20 properties connected to this sewer and the Niagara Pump Station. This study will review the feasibility and costs for several design and private and public pumping options associated with the relocation of the sewer to the street above the houses and away from the ocean. Coastal Exemption Plan and Permits will be submitted

Layout Options	@	\$10,000	LS	Study & Prelim Plan	\$10,000	
Permits	@	\$5,000	LS	Permit Plan Submittal	\$5,000	
<hr/>						
						\$15,000

Cabrillo Highway PHASE 1A+1B - Trunk Sewer (Crossing to 14th)

221	LF	@	1275	Bore and Jack	\$281,775	
725	LF	@	\$425	./LF	Open Trench	\$308,125
Contingencies (35%)					Night Work	\$206,465
<hr/>						
						\$796,365

<hr/>					13-14 Total	\$1,610,045
<hr/>						



MONTARA WATER AND SANITARY DISTRICT AGENDA

For Meeting Of: **August 29, 2013**

TO: BOARD OF DIRECTORS

FROM: Clemens Heldmaier, General Manager

**SUBJECT: Review and Possible Action Concerning Well
Rehabilitation Program Contract Approval**

The District's 2011 Water System Master Plan, 2012 Capital Improvement Program (CIP) and Draft 2013 CIP include a Well Rehabilitation Program (Program) to address the need to rehabilitate and renew the water supply wells. The Draft 2013 CIP establishes a Fiscal Year 2013/2014 (FY13/14) budget of \$250,000 for the Program.

On July 18, 2013 the Board of Directors authorized staff to issue a Request for Quotation (RFQ) to two qualified drilling contractors, Maggiora Bros. Drilling and Earth Flow Drilling to complete the rehabilitation of several of the wells included in the Program. Due to schedule conflicts, Earth Flow declined to provide a quotation. Landino Drilling Co of Davenport, CA was contacted to provide the second quotation.

A site visit was performed on August 14, 2013 with Maggiora and Landino in attendance. Following the visit, Landino Drilling declined to provide a quotation due to schedule conflicts and lack of necessary equipment to perform the South Airport Well rehabilitation.

Maggiora Bros. provided the attached estimate of \$189,430.00 for cleaning and rehabilitation of the seven drinking water wells. The estimate includes video logging, well sounding, chemical cleaning and disinfection of six wells and the complete rehabilitation of the South Airport Well.

RECOMMENDATION: Authorize the General Manager to execute a contract with Maggiora Bros. Drilling, Inc. of Watsonville, California, with a not-to-exceed amount of \$190,000.

Attachment

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE
CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Project Total

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. combined total for the project

Portola Well #1	\$ 16,840.00
Portola Well #2	\$ 16,840.00
Portola Well #3	\$ 16,090.00
Portola Well #4	\$ 16,140.00
Wagner Well	\$ 16,080.00
Drake Well	\$ 16,080.00
South Airport Well	<u>\$ 91,360.00</u>
TOTAL PROJECT	<u>\$189,430.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours,


Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE

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August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: South Airport Well Project

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. proposal to obtain a San Mateo County Environmental Health Department well reconstruction permit, disconnect, pick up and set aside the existing chlorine building, pull the existing well pump and remove the existing concrete well pad. Removal of concrete well pad does not pad that pressure tank is sitting on and includes off site disposal of debris.

After surface equipment is removed, drill over existing 12" steel well casing and remove failed casing. Upon removal of existing casing, clean existing borehole to 20" diameter and reconstruct the well with 12" diameter SDR-21 PVC casing and screen, gravel pack and sanitary well seal. Once the well is completed, the well shall be developed and test pumped. After the well is developed, a new concrete well pad equivalent to the existing pad shall be constructed and the existing well pump equipment and chlorine building shall be re-installed (if equipment is worn or the production changes, and new pump equipment is needed, a proposal shall be completed at a later date).

ESTIMATED COST:

1. Mobilization/demobilization and reconstruction permit	\$ 6,000.00
2. Move existing chlorine building, fencing as necessary and pull well pump equipment	\$ 3,000.00
3. Remove and offsite disposal of existing concrete well pad	\$ 3,000.00
4. Drill out existing well casing and remove – est. 80 hours @ \$475.00 per hour	\$38,000.00
5. Drill thru rental pipe (if necessary)	\$ 3,000.00
6. 12" SDR-21 PVC well casing 50 feet @ \$56.00 per foot	\$ 2,800.00
7. 12" SDR-21 PVC factory perforation 60 feet @ \$76.00 per foot	\$ 4,560.00
8. Sand pack and sanitary seal 110 feet @ \$50.00	\$ 5,500.00
9. Disposal of drilling spoils off site – 1 load @ \$2,000.00 per load	\$ 2,000.00
10. Hauling of drilling fluids and development water – 10 loads @ \$750.00 per load	\$ 7,500.00
11. Air swab development – 8 hours @ \$220.00 per hour (on site disposal of water)	\$ 1,760.00
12. Install and remove test pump equipment	\$ 3,000.00
13. Development & test pumping of well - 12 hours @ \$220.00 per hour (on site disposal)	\$ 2,640.00
14. Video logging of well – 2 each @ \$800.00 each	\$ 1,600.00
15. Replace concrete pad and reinstall equipment	\$ 7,000.00
TOTAL ESTIMATED COST	<u>\$91,360.00</u>

Proposal is based on hauling initial heavy fluids to Montara Water and Sanitation District treatment plant. Once fluids begin to clear up, disposal is based on disposing of fluids and test pump water on site. Proposal does not include disposal fees. Actual time required to remove the existing casing and gravel pack is estimated only. Time required will be billed at the actual time necessary to complete that portion of the project.

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE
CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

SRT Consultants
August 15, 2013
Page 2

If you have any questions, please feel free to contact me at any time.

Very truly yours,



Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE

CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Drake Well

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. to pull the existing well pump, measure the well, video tape the well and provide an option for chemical rehabilitation. Replacement of pump equipment if necessary shall be completed on a time and materials basis once the equipment is inspected and analyzed.

Chemical development is based on the ability to get equipment on site. Removal of existing brush, trees, fencing, etc., are not included in this proposal. Deepening of well is not included in this proposal. Disposal of all well development and testing water is based on disposal on site.

ESTIMATED COST:

1. Mobilization/demobilization	\$ 1,000.00
2. Pull pump and sound well	\$ 1,500.00
3. Video logging of well – 2 @ \$800.00 each – one before and one after rehabilitation	\$ 1,600.00
4. Optional – introduce rehabilitation chemicals – 140 lf. @ \$19.00 per foot	\$ 2,660.00
5. Optional – Baker type tank rental for fluids containment	\$ 4,000.00
6. Optional – Swab and airlift/bail out after chemical – 140 lf. @ \$19.00 per foot	\$ 2,660.00
7. Disinfect the well – 140 lineal feet @ \$4.00 per foot	\$ 560.00
8. Install pump equipment	\$ 1,500.00
9. Test well performance – 1 lump sum @ \$600.00 each	\$ 600.00
TOTAL ESTIMATED COST	<u>\$16,080.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours,


Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE
CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Wagner Well

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. to pull the existing well pump, measure the well, video tape the well and provide an option for chemical rehabilitation. Replacement of pump equipment if necessary shall be completed on a time and materials basis once the equipment is inspected and analyzed.

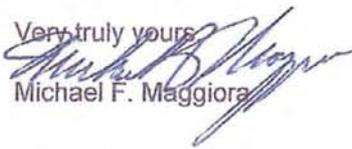
Chemical development is based on the ability to get equipment on site. Removal of existing brush, trees, fencing, etc., are not included in this proposal. Deepening of well is not included in this proposal. Disposal of all well development and testing water is based on disposal on site.

ESTIMATED COST:

1. Mobilization/demobilization	\$ 1,000.00
2. Pull pump and sound well	\$ 1,500.00
3. Video logging of well – 2 @ \$800.00 each – one before and one after rehabilitation	\$ 1,600.00
4. Optional – introduce rehabilitation chemicals – 120 lf. @ \$22.00 per foot	\$ 2,640.00
5. Optional – Baker type tank rental for fluids containment	\$ 4,000.00
6. Optional – Swab and airlift/bail out after chemical – 120 lf. @ \$22.00 per foot	\$ 2,640.00
7. Disinfect the well – 120 lineal feet @ \$5.00 per foot	\$ 600.00
8. Install pump equipment	\$ 1,500.00
9. Test well performance –1 lump sum @ \$600.00 each	\$ 600.00
TOTAL ESTIMATED COST	<u>\$16,080.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours,


Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE
CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Portola Well #4

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. to pull the existing well pump, measure the well, video tape the well and provide an option for chemical rehabilitation. Replacement of pump equipment if necessary shall be completed on a time and materials basis once the equipment is inspected and analyzed.

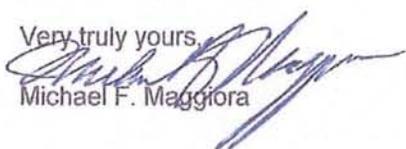
Chemical development is based on the ability to get equipment on site. Removal of existing brush, trees, fencing, etc., are not included in this proposal. Deepening of well is not included in this proposal. Disposal of all well development and testing water is based on disposal on site.

ESTIMATED COST:

1. Mobilization/demobilization	\$ 1,000.00
2. Pull pump and sound well	\$ 1,500.00
3. Video logging of well – 2 @ \$800.00 each – one before and one after rehabilitation	\$ 1,600.00
4. Optional – introduce rehabilitation chemicals – 180 lf. @ \$15.00 per foot	\$ 2,700.00
5. Optional – Baker type tank rental for fluids containment	\$ 4,000.00
6. Optional – Swab and airlift/bail out after chemical – 180 lf. @ \$15.00 per foot	\$ 2,700.00
7. Disinfect the well – 180 lineal feet @ \$3.00 per foot	\$ 540.00
8. Install pump equipment	\$ 1,500.00
9. Test well performance – 1 lump sum @ \$600.00 each	\$ 600.00
TOTAL ESTIMATED COST	<u>\$16,140.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours,


Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE
CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Portola Well #3

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. to pull the existing well pump, measure the well, video tape the well and provide an option for chemical rehabilitation. Replacement of pump equipment if necessary shall be completed on a time and materials basis once the equipment is inspected and analyzed.

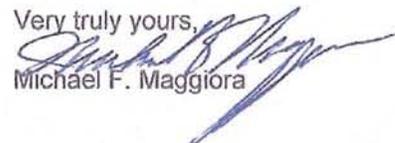
Chemical development is based on the ability to get equipment on site. Removal of existing brush, trees, fencing, etc., are not included in this proposal. Deepening of well is not included in this proposal. Disposal of all well development and testing water is based on disposal on site.

ESTIMATED COST:

1. Mobilization/demobilization	\$ 1,000.00
2. Pull pump and sound well	\$ 1,500.00
3. Video logging of well – 2 @ \$800.00 each – one before and one after rehabilitation	\$ 1,600.00
4. Optional – introduce rehabilitation chemicals – 190 lf. @ \$14.00 per foot	\$ 2,660.00
5. Optional – Baker type tank rental for fluids containment	\$ 4,000.00
6. Optional – Swab and airlift/bail out after chemical – 190 lf. @ \$14.00 per foot	\$ 2,660.00
7. Disinfect the well – 190 lineal feet @ \$3.00 per foot	\$ 570.00
8. Install pump equipment	\$ 1,500.00
9. Test well performance –1 lump sum @ \$600.00 each	\$ 600.00
TOTAL ESTIMATED COST	<u>\$16,090.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours,


Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE

CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Portola Well #2

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. to pull the existing well pump, measure the well, video tape the well and provide an option for chemical rehabilitation. Replacement of pump equipment if necessary shall be completed on a time and materials basis once the equipment is inspected and analyzed.

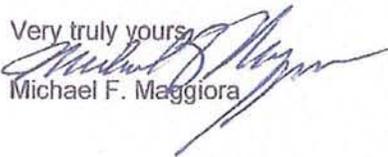
Chemical development is based on the ability to get equipment on site. Removal of existing brush, trees, fencing, etc., are not included in this proposal. Deepening of well is not included in this proposal. Disposal of all well development and testing water is based on disposal on site.

ESTIMATED COST:

1. Mobilization/demobilization	\$ 2,000.00
2. Pull pump and sound well	\$ 1,500.00
3. Video logging of well – 2 @ \$800.00 each – one before and one after rehabilitation	\$ 1,600.00
4. Optional – introduce rehabilitation chemicals – 270 lf. @ \$10.00 per foot	\$ 2,700.00
5. Optional – Baker type tank rental for fluids containment	\$ 4,000.00
6. Optional – Swab and airlift/bail out after chemical – 270 lf. @ \$10.00 per foot	\$ 2,700.00
7. Disinfect the well – 270 lineal feet @ \$2.00 per foot	\$ 540.00
8. Install pump equipment	\$ 1,500.00
9. Test well performance –1 lump sum @ \$600.00 each	\$ 600.00
TOTAL ESTIMATED COST	<u>\$16,840.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours,


Michael F. Maggiora

MAGGIORA BROS. DRILLING, INC.

DRILLING CONTRACTORS - PUMP SALES & SERVICE

CALIFORNIA CONTRACTOR'S LICENSE NO. 249957

Corporate Office
595 Airport Blvd.
Watsonville, CA 95076

Tel: (831) 724-1338
Tel: (800) 728-1480
Fax: (831) 724-3228

August 15, 2013

SRT Consultants
Attn: Jessica Adams-Weber
792 Bay Street
San Francisco, CA 94109

Re: Portola Well #1

Dear Ms. Adams-Weber,

The following is Maggiora Bros. Drilling, Inc. to pull the existing well pump, measure the well, video tape the well and provide an option for chemical rehabilitation. Replacement of pump equipment if necessary shall be completed on a time and materials basis once the equipment is inspected and analyzed.

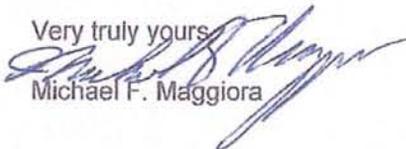
Chemical development is based on the ability to get equipment on site. Removal of existing brush, trees, fencing, etc., are not included in this proposal. Deepening of well is not included in this proposal. Disposal of all well development and testing water is based on disposal on site.

ESTIMATED COST:

1. Mobilization/demobilization	\$ 2,000.00
2. Pull pump and sound well	\$ 1,500.00
3. Video logging of well – 2 @ \$800.00 each – one before and one after rehabilitation	\$ 1,600.00
4. Optional – introduce rehabilitation chemicals – 270 lf. @ \$10.00 per foot	\$ 2,700.00
5. Optional – Baker type tank rental for fluids containment	\$ 4,000.00
6. Optional – Swab and airlift/bail out after chemical – 270 lf. @ \$10.00 per foot	\$ 2,700.00
7. Disinfect the well – 270 lineal feet @ \$2.00 per foot	\$ 540.00
8. Install pump equipment	\$ 1,500.00
9. Test well performance –1 lump sum @ \$600.00 each	\$ 600.00
TOTAL ESTIMATED COST	<u>\$16,840.00</u>

If you have any questions, please feel free to contact me at any time.

Very truly yours


Michael F. Maggiora



MONTARA WATER AND SANITARY DISTRICT AGENDA

For Meeting Of: **August 29, 2013**

TO: BOARD OF DIRECTORS

FROM: Clemens Heldmaier, General Manager

**SUBJECT: Review and Possible Action Concerning Schoolhouse
Tank West Construction Contract Change Order No. 1**

The Board has awarded the Schoolhouse Tank West Project (Project) construction contract at its June 5, 2013 meeting. The contractor, Paso Robles Tank, Inc. (PRT), has mobilized and started working on site. This is the second tank the District is erecting to improve its fire storage capacity and distribution system efficiency. Construction is under way and the contractor has already demolished the dilapidated concrete tank that had been off line since the Schoolhouse Tank East was completed.

The bid documents prepared by the District's Water System Engineer, calls for the roof rafters to be welded to the roof plates when required structurally, and any unwelded rafter connection to be sealed with caulking. All bids received were based on this roof design. During construction of the east tank 2 years ago, PRT submitted and built a superior roof design termed "press broke roof". The press broke roof design uses continuous roof panels that are bent during manufacturing to create a rafter. This technique results in the roof rafter and the roof plate being manufactured of the same piece of steel. The press broke roof offers the following advantages over a conventional roof:

- Same roof design as Schoolhouse Tank East (or SH Tank No. 1)
- Reduces risk of corrosion:
 - Eliminating the gap between the rafters and the roof plate, which is where corrosion often starts.
 - Conventional roofs require special coating techniques to coat between rafters and the roof plates.
 - The press broke roof is a superior alternative to specified caulking as the caulking may get torn during thermal expansion of the tank. Once the caulking is torn it no longer seals and protects the gap between the rafter and the roof plate from corrosion.
 - Since the press broke roof is integral with the roof plate, it eliminates the need for seismic bracing ties rods in the rafters.
 - The press broke roof results in less steel appurtenances inside the tank, which in turn results in less surface area for corrosion.



MONTARA WATER AND SANITARY DISTRICT AGENDA

For Meeting Of: **August 29, 2013**

TO: BOARD OF DIRECTORS

FROM: Clemens Heldmaier, General Manager

The press broke roof is a superior design that requires less steel but requires more welding to complete. The press broke roof design for Schoolhouse Tank No. 2 will cost an additional \$14,879 as compared to the roof specified in the bid documents.

PRT installed this roof type on SH Tank No. 1 because they estimated that they could win and still include the superior roof design in their bid. During the bidding for Schoolhouse Tank No. 2, PRT submitted a question to get the specifications changed to require a press broke roof, however they missed the deadline for questions. Subsequently, PRT bid based on the bid documents as they estimated they could potentially not win the project with the inclusion of the press broke roof. PRT was the lowest bidder by \$22,462.50. Even with the inclusion of the change order PRT would have won the project.

RECOMMENDATION: Authorize the General Manager to issue the suggested change order.