General Manager's Report

Report on Water System Operations for:	June,2016		
Metering Period:	04/01/2016	- THRU -	04/30/2016
Billing Period:	04/18/2016	- THRU -	05/16/2016
Activity Period:	05/01/2016	- THRU -	05/31/2016

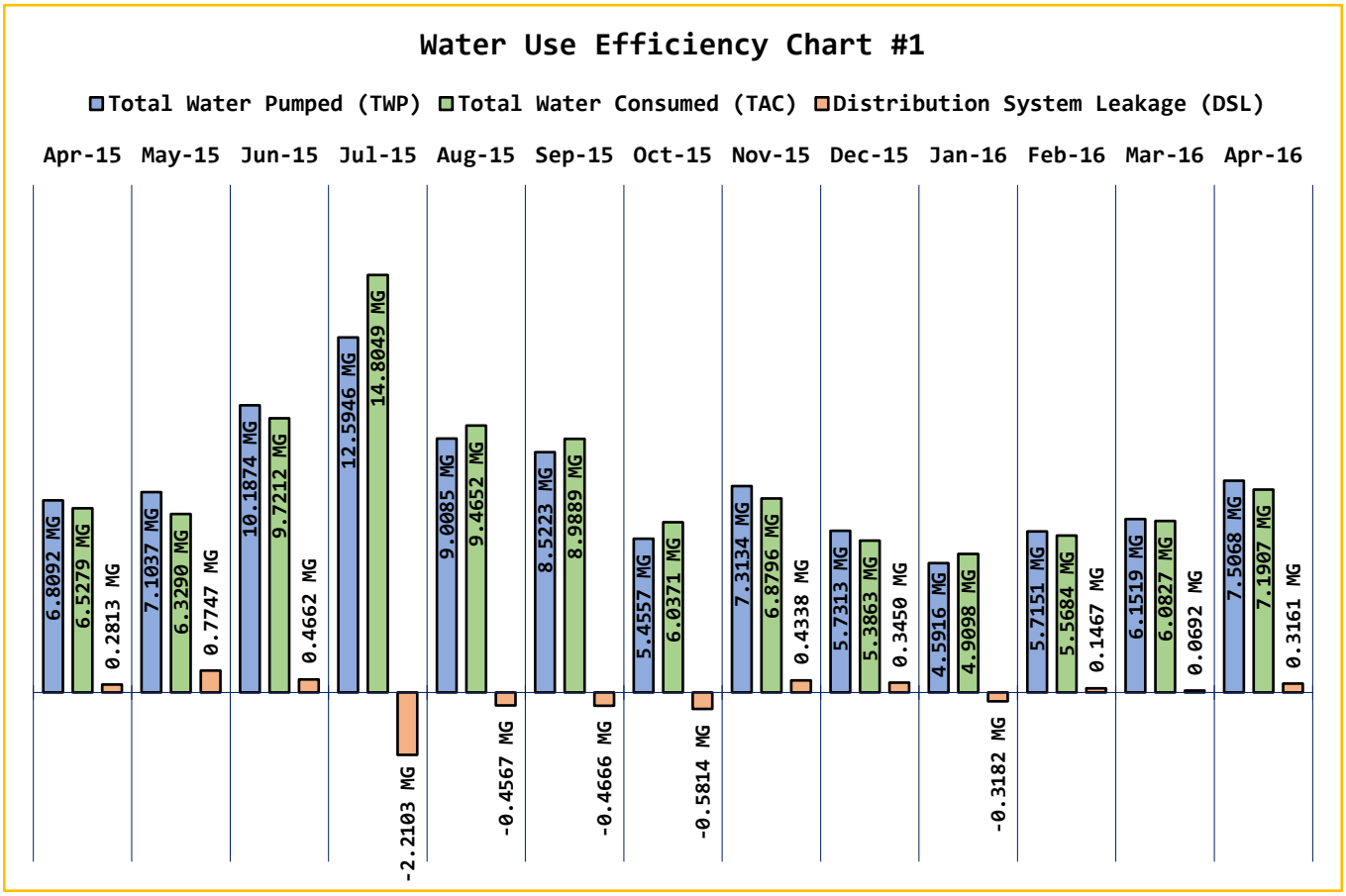
(MG= Million Gallons) (Mg/L= milligrams per liter) (Ug/L= micrograms per liter) (MCL= Maximum Contaminant Level) (c.f.= Cubic Feet)

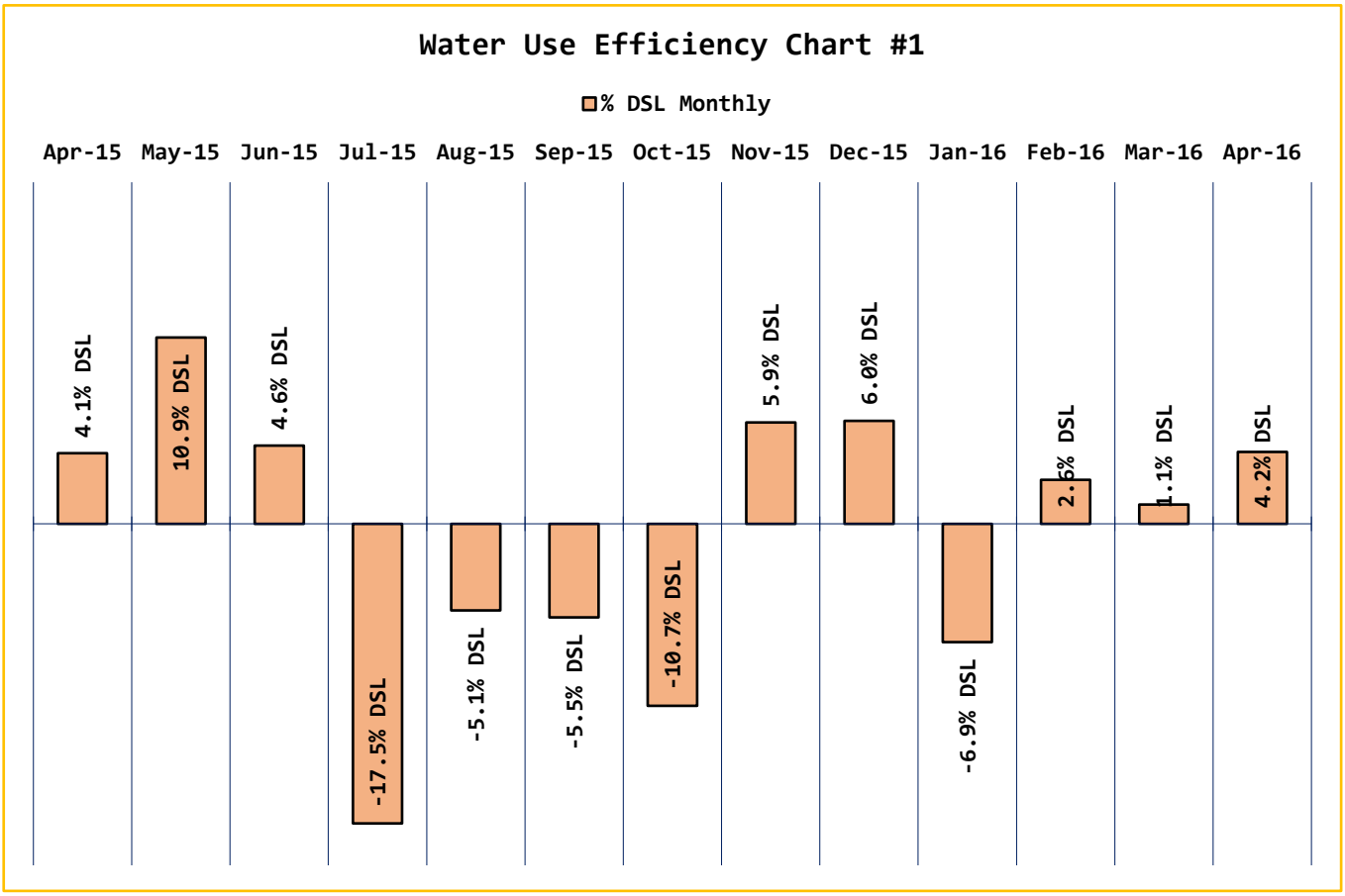
Total Water Pump From All Wells in Metering Period (TWP)	7.5068	MG
Total Water Sold in Metering Period	7.1471	MG
Total Filter Plant Backwash Water in Metering Period	0.0391	MG
Total Water Main Flushing Water in Metering Period	0.0045	MG
Total Other Authorized Water Use in Metering Period	0.0000	MG
Total Authorized Consumption in Metering Period (TAC)	7.1907	MG
Total **Distribution System Leakage** in Metering Period (DSL)	0.3161	MG
Percentage of DSL in Metering Period	4.2%	%
12 Month Running Total of TWP	89.8823	MG
12 Month Running Total of TAC	91.3638	MG
12 Month Running Total of DSL	-1.4815	MG
12 Month Average of Percentage of DSL	-1.6%	%

2,582		Residential Accounts	Paid Base Rates Totaling:		102,743.42
105		Commercial Accounts	Paid Base Rates Totaling:		7,702.40
713,100	c.f.	Residential Consumption	at $0.0289 per c.f.		20,608.59
235,200	c.f.	Commercial Consumption	at $0.0289 per c.f.		6,797.28
4		Fire-Flow Accounts	Paid Base Rates Totaling:		477.58
5,450		Surfside Contract +	264.60	Reimbursments =	5,714.60
		Other Billings:			4,696.52
		Total Amount Billed in Billing Period			148,740.39

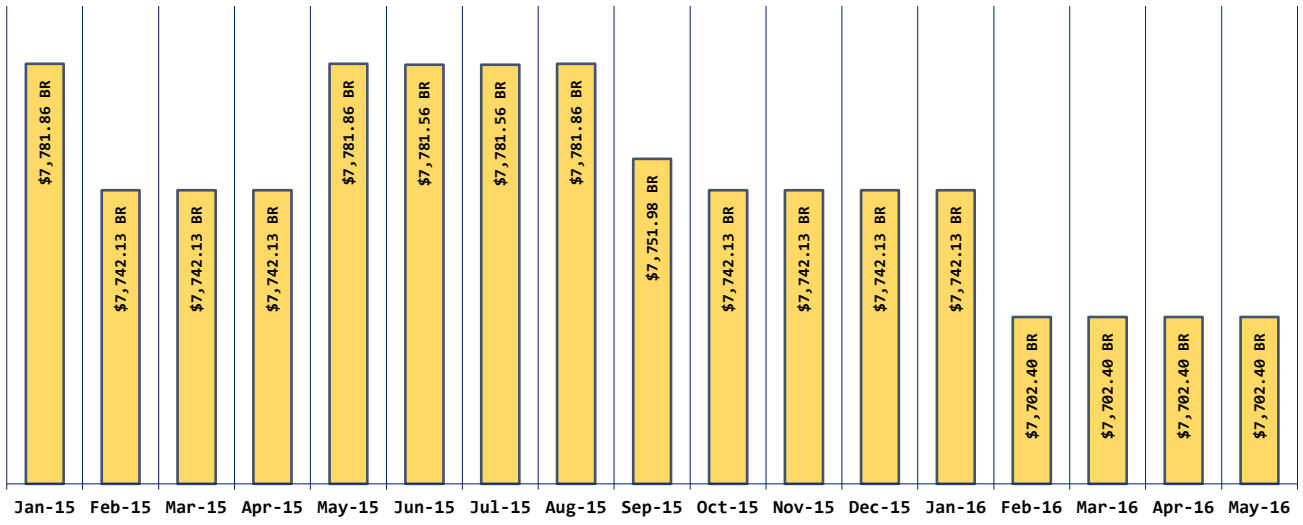
Total Accounts Past Due in Billing Period	292
Total Accounts Past Due Longer than 60 days in Billing Period	77
Total Accounts Locked Off for being past due in Billing Period	8
Total Number of Properties with Liens	25

Total Number of Water Main Locates Completed in Activity Period	46
Total Number of Water Quality Complaints in Activity Period	0
Total Number of Customer Service Calls in Activity Period	0
Total Number of Customer Valves Installed in Activity Period	2
Total Number of Service Meters Replaced in Activity Period	3

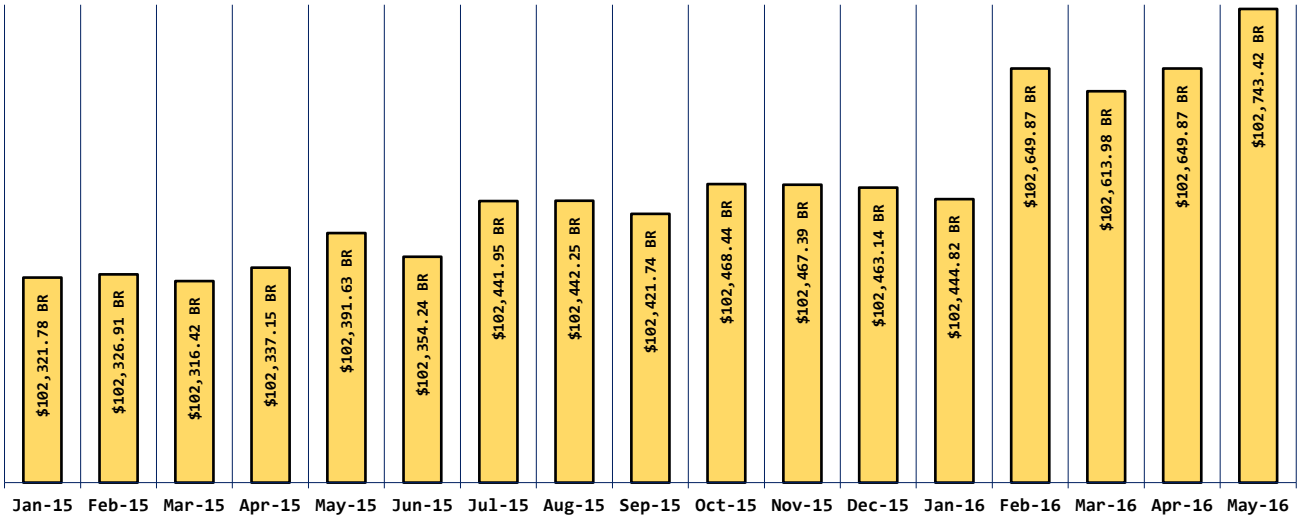

Water Use Efficiency Chart #1
Total Water Pumped (TWP)
Total Water Consumed (TAC)
Distribution System Leakage (DSL)
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
6.8092 MG
6.5279 MG
0.2813 MG
7.1037 MG
6.3290 MG
0.7747 MG
10.1874 MG
9.7212 MG
0.4662 MG
12.5946 MG
14.8049 MG
-2.2103 MG
9.0085 MG
9.4652 MG
-0.4567 MG
8.5223 MG
8.9889 MG
-0.4666 MG
5.4557 MG
6.0371 MG
-0.5814 MG
7.3134 MG
6.8796 MG
0.4338 MG
5.7313 MG
5.3863 MG
0.3450 MG
4.5916 MG
4.9098 MG
-0.3182 MG
5.7151 MG
5.5684 MG
0.1467 MG
6.1519 MG
6.0827 MG
0.0692 MG
7.5068 MG
7.1907 MG
0.3161 MG


Water Use Efficiency Chart #1
% DSL Monthly
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
4.1% DSL
10.9% DSL
4.6% DSL
-17.5% DSL
-5.1% DSL
-5.5% DSL
-10.7% DSL
5.9% DSL
6.0% DSL
-6.9% DSL
2.6% DSL
1.1% DSL
4.2% DSL

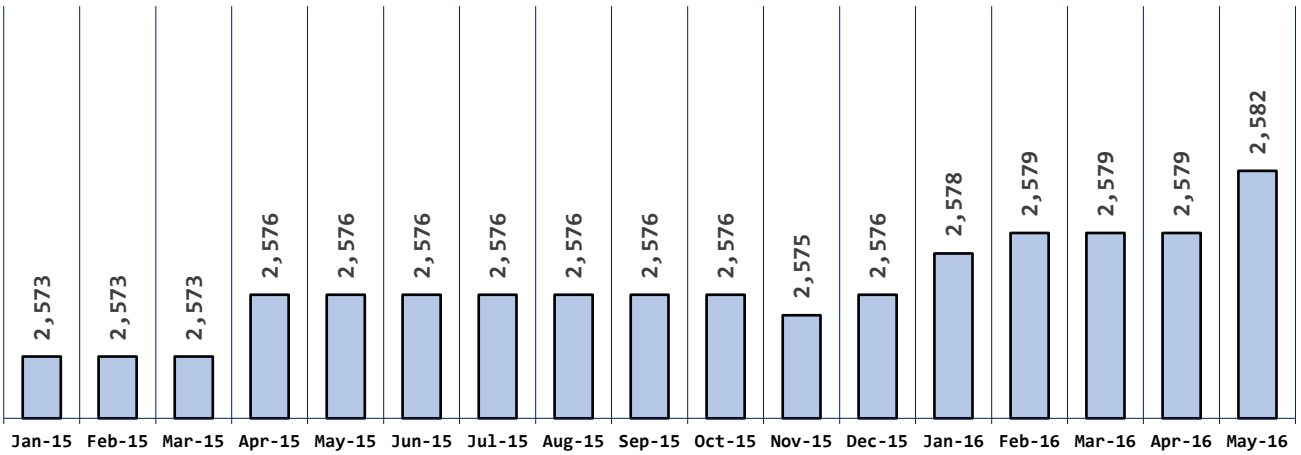
Commercial Base Rates Billed



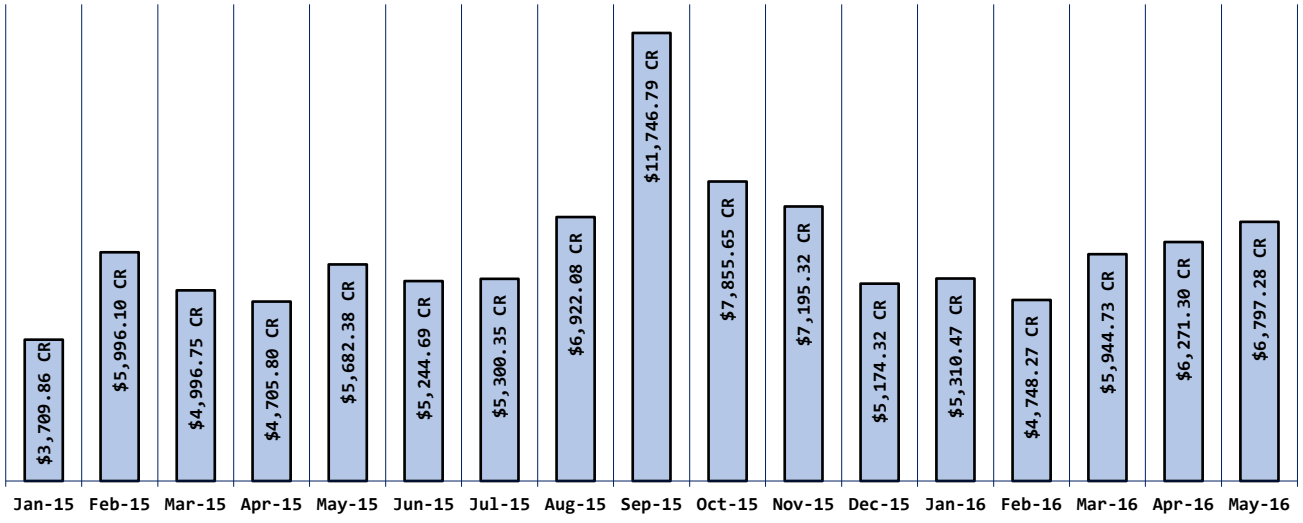
Residential Base Rates Billed



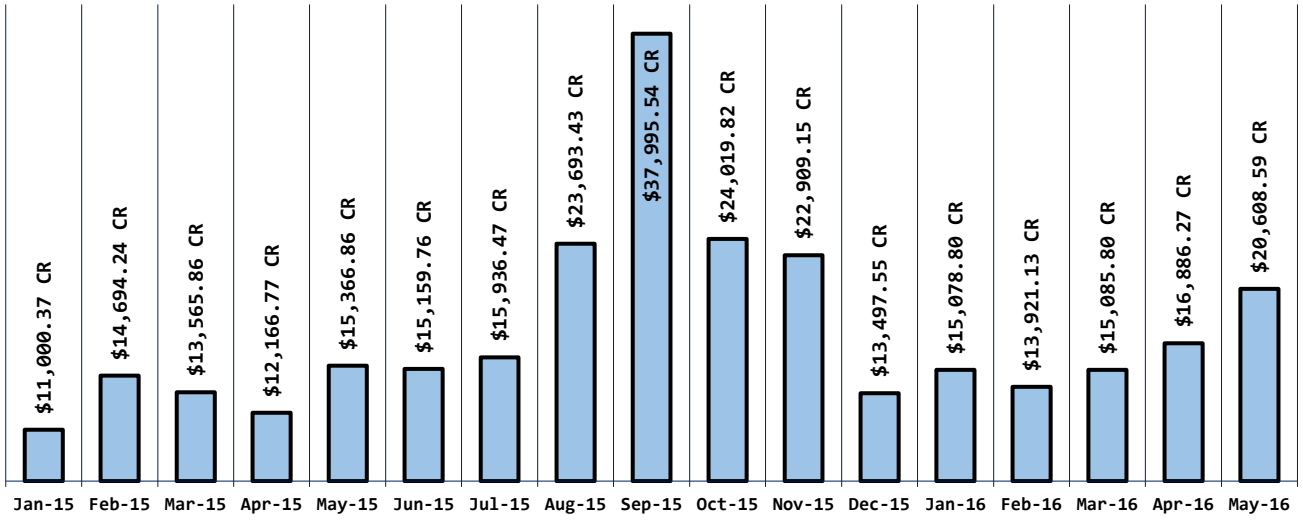
Number of Accounts By Month



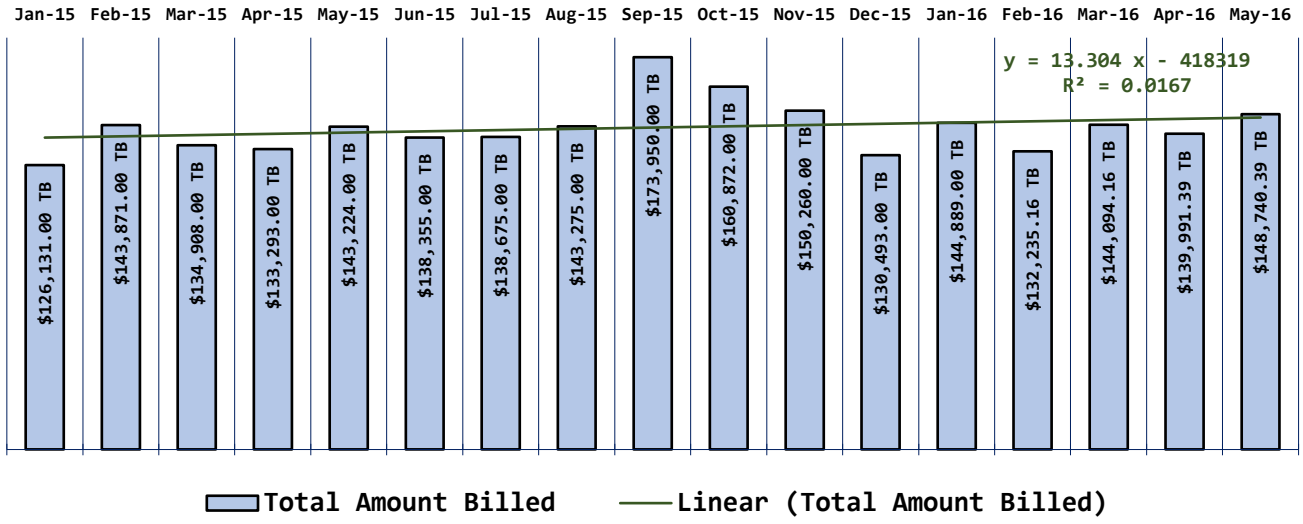
Commercial Consumption Rate Billed



Residential Consumption Rate Billed



Total Amount Billed By Month



DR4249-4253 HMGP Pre-Application

*Note-All text boxes will expand as you type. There are no limits to the number of characters.

Sub-applicant Information

Sub-Applicant: North Beach Water District **Date:** May 2016

Point of Contact: Bill Neal **Phone:** 360-665-4144

E-mail: bneal@northbeachwater.com

Street Address: 2212 272nd Street

City: Ocean Park **State:** WA **Zip:** 98640

Basic Eligibility

To which FEMA-Approved Hazard Mitigation Plan is your jurisdiction annexed?

Plan Title: Pacific County Regional Hazard Mitigation Plan Update (Approval Pending). Expiration Date: 5/1/2021

Proposal

Proposal Title: North Beach Water District Booster Pump Building Relocation

Estimated Cost: $500,000

Brief Proposal Description: The North Beach Water District provides water service and water for fire suppression to the greater Ocean Park, Klipsan, and Nahcotta communities. The proposed project would construct an approximately 600 square foot booster pump station to replace one of the District's existing booster pump stations located in a flood prone area. This booster pump station represents critical infrastructure; providing potable water and water for fire suppression. The Pacific County All Hazards Preparedness Guide developed by the Pacific County Emergency Management Agency (PCEMA), the Washington State Military Department Emergency Management Division, and the National Tsunami Hazard Mitigation Program describes floods as, "one of the most common threats in Pacific County." The existing booster pump station is located at an elevation of 23 ft above sea level in a localized low point prone to flooding. The relocated booster pump station would be constructed at an elevation of approximately 28 feet above sea level. This 5 foot increase in booster station elevation would reduce the risk of inundation and distribution system contamination. In addition, the 25 year old emergency generator at the existing booster pump station would be replaced with a new emergency generator as

part of the proposed project, ensuring reliable operation of critical infrastructure in an emergency condition. The North Beach Water District would utilize the grant monies for engineering design and construction. Engineering will be required to analyze design alternatives, optimize value and develop construction documents.

Gray & Osborne, Inc.
CONSULTING ENGINEERS

June 16, 2016

Mr. Monte Givens
Pacific County
Department of Community Development
7013 Sandridge Road
Long Beach, Washington 98631

SUBJECT: BUILDING PERMIT, WATER SUPPLY AND TREATMENT PROJECT
NORTH BEACH WATER DISTRICT, PACIFIC COUNTY,
WASHINGTON
G&O #13224.04

Dear Mr. Givens:

As you are aware, the North Beach Water District has submitted a building permit application for certain facilities related to the Water Supply and Treatment Project. Pacific County had received a complete copy of the plans for this project. However, due to budgetary constraints, the project was rebid and awarded with a reduced scope. In order to further reduce cost, the project scope was also reduced by change order, subsequent to project award. The purpose of this letter is to define the changes to the project scope resulting from rebid/change order and to better define the portions thereof to which permitting review is requested.

The following changes to the project scope were made when the project was rebid or through change order subsequent to rebid:

Wellfield Site:

1. Grading at the wellfield site was removed from the project scope.

2. The new fence and gate at the wellfield site was removed from the project scope.

2102 Carriage Drive SW, Building I Olympia, Washington 98502 (360) 292-7481 Fax (360) 292-7517

South Wellfield Treatment Building:

1. The only interior modifications to the existing South Wellfield Treatment Building will be to install partition walls for the proposed chemical room and HVAC for the chemical room.

2. The only modifications to the building envelope will be to install exterior doors.

3. Backwash piping from the treatment building to the outlet was removed from the project scope.

4. The potassium permanganate feed system was removed from the project scope.

North Wellfield Site:

1. Fencing of the north wellfield site was removed from the project scope.

2. All modifications to the building envelope at the north wellfield treatment building were removed from the project scope.

3. The existing filters at the north wellfield treatment building will not be relocated.

4. All electrical equipment will be located between the existing filters.

5. The lab/office, bathroom, and all plumbing were removed from the project scope.

6. The potassium permanganate feed system was removed from the project scope.

A complete planset for the Water Supply and Treatment Project was submitted for review to Pacific County Community Development and an overall project cost was given on the permitting application. However, only a portion of the proposed work requires a building permit under the terms of Section 105 of the 2012 International Building Code (IBC), which specifically exempts public agencies from permitting requirements relating to the "…installation, alteration, or repair of generation, transmission, distribution or metering

or other related equipment that is under the ownership and control of public service agencies by established right." (Sec. 105.2.3).

North Beach Water District is a public service agency governed under the provisions of Title 57 of the Revised Code of Washington (RCW). Furthermore, the equipment being installed in the existing structures and on the proposed concrete slab is for production, transmission, distribution, metering and other functions related to provision of drinking water. Therefore, the permit exemption allowed under Section 105.2.3 of the IBC would apply.

Attachment A provides a breakdown of the project costs according to the work being performed. The item values provided reflect the market value of the work as seen in the low bidder's bid proposal. The type of work associated with each item is noted in the right column. At the south wellfield, work not exempted under Section 105.2.3 of the IBC includes the reinforced concrete slab, modifications to an existing building and installation of a hot water tank and emergency eyewash. At the north wellfield, all building modifications have been removed from the scope of work, eliminating all non-exempt work at the north wellfield. As shown in Attachment A, the total value of the work submitted for permitting review is $53,600.

I hope this helps to clarify the project scope and the portions thereof submitted for building permit review. Please contact the undersigned if you have any questions or concerns regarding these matters.

Sincerely,

GRAY & OSBORNE, INC.

Joe Plahuta, P.E.

JP/sp
Encl.

cc: Mr. Bill Neal, North Beach Water District

Attachement A
North Beach Water District
REBID South Wellfield Improvements
Construction - Cost Schedule of Values

SCHEDULE A

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT	CLASSIFICATION
1	Mobilization and Demobilization	1 LS	$ 92,850	$ 92,850	Administration
2	Minor Changes	1 LS	$ 10,000	$ 10,000	Administration
3	Locate Existing Utilities	1 LS	$ 2,700	$ 2,700	Services
4	Trench Excavation Safety Systems	1 LS	$ 1,930	$ 1,930	Site Work
5	Sitework	1 LS	$ 10,720	$ 10,720	Site Work
6	Special Excavation of Unsuitable Materials	20 CY	$ 55	$ 1,100	Site Work
7	Erosion Control	1 LS	$ 3,590	$ 3,590	Site Work
8	Foundation Gravel	70 CY	$ 67	$ 4,690	Site Work
9	Crushed Surfacing, Top Course	60 TN	$ 50	$ 3,000	Site Work
10	Crushed Surfacing, Base Course	35 TN	$ 73	$ 2,555	Site Work
11	Bank Run Gravel	255 TN	$ 28	$ 7,140	Site Work
12	Quarry Spalls	5 TN	$ 96	$ 480	Site Work
13	Restoration	1 LS	$ 5,395	$ 5,395	Site Work
14	Reinforced Concrete Slab	1 LS	$ 11,245	$ 11,245	New Structure
15	Treatment Building Modifications				
	Marine Plywood	1 LS	$ 17,000	$ 17,000	Existing Structure Modification
	Framing	1 LS	$ 8,355	$ 8,355	Existing Structure Modification
	Double Doors	1 LS	$ 10,000	$ 10,000	Existing Structure Modification
16	Wiegardt Well No. 1 Pump	1 LS	$ 6,665	$ 6,665	Equipment Installation
17	Wiegardt Well No. 2 Pump	1 LS	$ 6,665	$ 6,665	Equipment Installation
18	Wiegardt Well No. 3 Pump	1 LS	$ 6,665	$ 6,665	Equipment Installation
19	Carbon Filter Treatment System	1 LS	$ 326,390	$ 326,390	Equipment Installation
20	Ferric Chloride Feed System	1 LS	$ 35,350	$ 35,350	Equipment Installation
21	Permanganate Feed System	1 LS	$ 13,540	$ 13,540	Removed from Contract
22	Piping, Valves and Appurtenance				
	Wellfield Piping and Valves	1 LS	$ 95,200	$ 95,200	Equipment Installation
	Treatment Piping and Valves	1 LS	$ 90,000	$ 90,000	Equipment Installation
	Pipe Support	1 LS	$ 15,000	$ 15,000	Equipment Installation
	Hot Water Tank & Emergency Eye Wash	1 LS	$ 7,000	$ 7,000	Plumbing
23	Electrical, Telemetry, and Instrumentation				
	Control Panel	1 LS	$ 150,000	$ 145,000	Equipment Installation
	MSDS	1 LS	$ 10,000	$ 10,000	Equipment Installation
	Reservoir NEMA 3R	1 LS	$ 10,000	$ 10,000	Equipment Installation
	Conduit/Conductors	1 LS	$ 50,000	$ 50,000	Equipment Installation
	200A NEMA 3R	1 LS	$ 8,000	$ 8,000	Equipment Installation
	Programing	1 LS	$ 1,500	$ 1,500	Services
	Testing/Startup	1 LS	$ 8,000	$ 8,000	Services
	Meter Base	1 LS	$ 1,350	$ 1,350	Equipment Installation
	Subtotal			$ 1,029,075	
	Washington State Sales Tax (7.8%)			$ 80,268	
	Total Construction Cost			$ 1,109,343	
	Cost of Building Related Items			**$ 53,600**	

Attachement A
North Beach Water District
REBID North Wellfield Improvements
Construction Cost - Schedule of Values

SCHEDULE B

NO.	ITEM	QUANTITY	PRICE	AMOUNT	NOTES
1	Mobilization and Demobilization	1 LS	$ 90,725	$ 90,725	Administration
2	Minor Changes	1 LS	$ 5,000	$ 5,000	Administration
3	Fence and Gates	1 LS	$ 45,935	$ 45,935	Removed from Contract
4	Treatment Building Modifications			$ 40,175.00	Removed from Contract
5	Permanganate Feed System	1 LS	$ 14,825	$ 14,825	Removed from Contract
6	Piping, Valves and Appurtenance				
	Piping	1 LS	$ 60,000	$ 60,000	Equipment Installation
	Valves	1 LS	$ 10,000	$ 10,000	Equipment Installation
	Pipe supports	1 LS	$ 7,090	$ 7,090	Equipment Installation
7	Electrical, Telemetry, and Instrumentation				
	Control Panel	1 LS	$ 90,000	$ 90,000	Equipment Installation
	MCC	1 LS	$ 70,000	$ 70,000	Equipment Installation
	Conduit/Conductors	1 LS	$ 100,000	$ 100,000	Equipment Installation
	ATS	1 LS	$ 11,000	$ 11,000	Equipment Installation
	Programing	1 LS	$ 15,000	$ 15,000	Services
	Testing/Startup	1 LS	$ 8,000	$ 8,000	Services
	Panelboard	1 LS	$ 7,000	$ 7,000	Equipment Installation
	MSDS	1 LS	$ 6,000	$ 6,000	Equipment Installation
	Meter Base	1 LS	$ 1,300	$ 1,300	Equipment Installation

Subtotal	$	622,225
Washington State Sales Tax (7.8%)	$	48,534
Total Construction Cost	$	670,759
Cost of Building Related Items	$	-

HOMEOWNERS ASSOCIATION

WATER SYSTEM MANAGER'S REPORT

Report for (Month/Year)			June,2016
Meter Reading Period	4/29/2016	THRU	5/31/2016

Total Metered Residential Services	1,560	Total Use in Meter Period	5.2955	MG
Total Metered Commercial Services	6	Total Use in Meter Period	0.3407	MG
Total Unmetered Residential Services	400	Est. use in Meter Period	1.4416	MG
Total Estimated Demand Side Water Use (MG = Million Gallons)			7.0778	MG
Filter Backwash Water			0.1184	MG
J-Wellfield Flushing			0.0620	MG
Water Main Flushing			1.7861	MG
Main Break Water Loss			0.0000	MG
Other Authorized Water Use			0.0000	MG
Total Estimated Supply Side Water Use (MG = Million Gallons)			1.9665	MG
Well J-2			0.0330	MG
Well J-3			0.0290	MG
Well J-4			2.6250	MG
Well J-5			3.3850	MG
Well J-6			2.3960	MG
Well J-7			1.9190	MG
Total Water Pumped (TWP) (MG = Million Gallons)			10.3870	MG
Total Authorized Consumption (Demand Side + Supply Side) (TAC)			9.0443	MG
Distribution System Leakage (DSL)			1.3427	MG
Percentage of TWP that is DSL			12.9%	%
TWP - Previous 12 Months			95.7780	MG
TAC - Previous 12 Months			87.1583	MG
DSL - Previous 12 Months			8.6197	MG
Percentage of TWP that is DSL - Average of Previous 12 Months			9.0%	%

WAC 246-290-820: Distribution System Leakage Standard.

(1) Municipal water suppliers shall determine distribution system leakage annually under subsection (2) of this section or an alternative methodology under subsection (3) of this section. (a) Municipal water suppliers shall include (i), (ii), (iii) of this subsection in wager use efficiency performance reports developed under WAC 246-290-840 and water use efficiency programs developed under WAC 246-290-810: (iii) **For systems not fully metered**, the status of meter installation and any actions taken to minimize leakage. (b) **Municipal water suppliers will be considered in compliance with this section if any of following conditions are satisfied: (i) Distribution system leakage calculated in accordance with subsection (2) of this section is ten percent or less for the last three-year average;** (ii) Distribution system leakage calculated under subsection (3) of this section meets the numerical standards for the approved alternative methodology for the last three-year average; (iii) For system servicing less than 500 connections...; (iv) A water loss control plan has been developed and implemented under section (4) of this section and the system is meeting the implementation schedule.

ATEC™ Treatment Plant Report: (numbers in red are above the SMCL as set by the EPA)

Raw Water Iron	0.39	Mg/L	Raw Water Color	52.00	Hu
Finished Water Iron	0.09	Mg/L	Finished Water Color	40.00	Hu
Raw Water Manganese	0.075	Mg/L	Raw Water Tannin	0.80	Mg/L
Finished Water Manganese	0.004	Mg/L	Finished Water Tannin	0.40	Mg/L
Raw Water pH	8.70	pH	Raw Water Silica	12.0	Mg/L
Finished Water pH	8.55	Ph	Finished Water Silica	19.9	Mg/L

Distribution Water Report:

Total Chlorine	0.07	Mg/L	pH	8.21	pH
Free Chlorine	0.02	Mg/L	Iron	0.18	Mg/L
Color	32.00	Hu	Manganese	0.024	Mg/L
Temperature	59.50	°F	Tannin	0.30	Mg/L

Disinfection By-Products Report:

Site #1 — TTHM (Trihalomethanes)

Sample Date:	6/30/2015	Results	84.4
Sample Date:	9/22/2015	Results	68.5
Sample Date:	12/12/2015	Results	62.7
Sample Date:	3/21/2016	Results	104.0
Locational Running Annual Average (LRAA):			79.9

Site #2 — TTHM (Trihalomethanes)

Sample Date:	6/30/2015	Results	103.5
Sample Date:	9/22/2015	Results	54.4
Sample Date:	12/12/2015	Results	56.6
Sample Date:	3/21/2016	Results	94.8
Locational Running Annual Average (LRAA):			77.3

Site #1 — TTHM (Trihalomethanes)

Sample Date:	6/30/2015	Results	1.0
Sample Date:	9/22/2015	Results	4.1
Sample Date:	12/12/2015	Results	3.2
Sample Date:	3/21/2016	Results	6.7
Locational Running Annual Average (LRAA):			3.8

Site #2 — TTHM (Trihalomethanes)

Sample Date:	6/30/2015	Results	14.3
Sample Date:	9/22/2015	Results	6.1
Sample Date:	12/12/2015	Results	27.5
Sample Date:	3/21/2016	Results	41.2
Locational Running Annual Average (LRAA):			22.3

Microbiological Sample Report:

Routine Coliform Bacteria	2	Coliform Absent	0	Coliform Present	0	E. coli Present
Repeat Coliform Bacteria	0	Coliform Absent	0	Coliform Present	0	E. coli Present
GWR Coliform Bacteria	0	Coliform Absent	0	Coliform Present	0	E. coli Present
Invest. Coliform Bacteria	0	Coliform Absent	0	Coliform Present	0	E. coli Present
Const. Coliform Bacteria	1	Coliform Absent	0	Coliform Present	0	E. coli Present

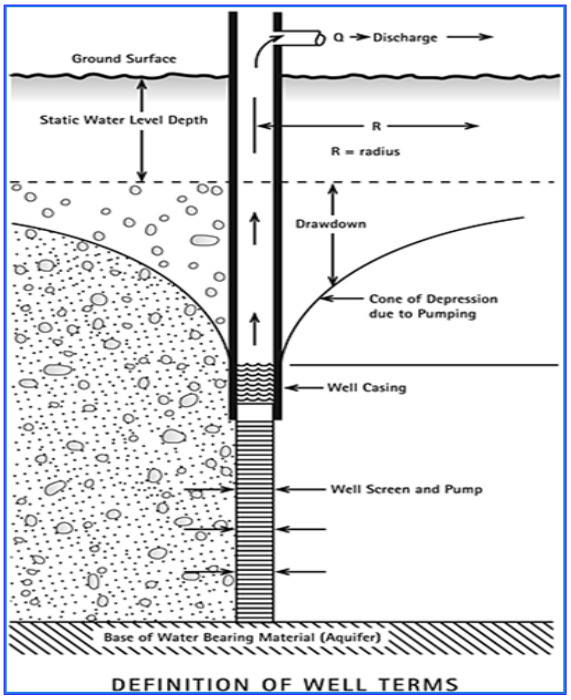
Other Samples Report:

		Mg/L / Ug/L		Mg/L / Ug/L
_____	Results		Maximum Contaminant Level	
_____	Results		Maximum Contaminant Level	
_____	Results		Maximum Contaminant Level	
_____	Results		Maximum Contaminant Level	
_____	Results		Maximum Contaminant Level	

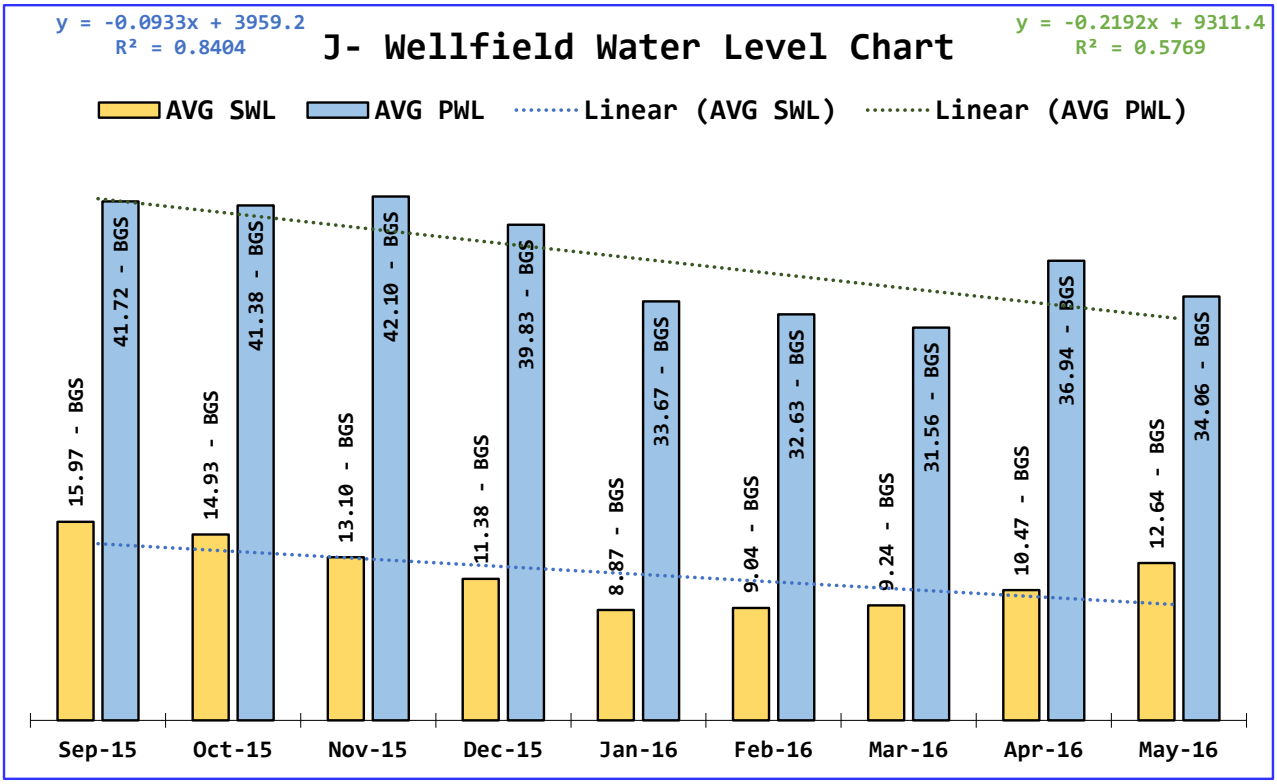
J- Wellfield Water Levels Report:

(SWL = Static Water Level) (PWL = Pumping Water Level) (BGS = Below Ground Surface)

J-1	Average SWL	13.2	BGS
J-1	Average PWL	14.3	BGS
J-2	Average SWL	13.1	BGS
J-2	Average PWL	21.1	BGS
J-3	Average SWL	12.6	BGS
J-3	Average PWL	22.0	BGS
J-4	Average SWL	13.7	BGS
J-4	Average PWL	49.6	BGS
J-5	Average SWL	13.3	BGS
J-5	Average PWL	48.0	BGS
J-6	Average SWL	11.3	BGS
J-6	Average PWL	42.6	BGS
J-7	Average SWL	11.3	BGS
J-7	Average PWL	40.8	BGS
J-WF	Average SWL	26.9	BGS
J-WF	Average PWL	44.2	BGS



Total Rainfall Recorded at the J-Wellfield: 1.1 Inches



Operations Report:

O & M Service Calls	8	Water Main Breaks Repaired	0
Water Main Locates	37	New Water Services	5
Water Main Leaks Repaired	0	Water Services Decommissioned	0

Comments:

WATER FIELD CREW:
TREATMENT PLANT: Reducing THMs is still our focus. THM formation potential samples reveal well J5 should produce the least THMs, J4 & J6 would be 2nd and 3rd best, J7 will likely produce the most THMs. The ATEC valves for vessels no. 7 & 8 were rebuilt. A new needle valve was installed in the ATEC system allowing vessel 8 to seat completely and preventing unfiltered water going into the reservoirs. A new dechlorination system is being installed prior to storage to prevent THMs from forming in the reservoirs, it should be operational by the 2nd week of June.
DISTRIBUTION:A few color complaints have resulted from making J5 our primary well. J5 has low THM formation potential but high color. We are trying different well combinations to find the best THM and color reduction. Mark Scott used a new system to GPS locate water system features for our GIS maps.
MAIN BREAKS: We had no breaks.

Cross Connection Control Report:

Activity For: June,2016		Activity from Start of CCC Program:	
Compliance Letters Mailed Out	12	Compliance Letters Mailed Out	273
CCC Investigations	1	CCC Investigations	156
Backflow Assemblies Installed	1	Backflow Assemblies Installed	85
Backflow Assemblies Tested	5	Backflow Assemblies Tested	80
Questionnaires Mailed Out	0	Questionnaires Mailed Out	4,000
Questionnaires Received	3	Questionnaires Received	1,283

Based on Questionnaires, the number of Backflow Assemblies that need to be Installed	150
Compliant Backflow Assemblies (testing is complete and satisfactory)	73
Non-compliant Backflow Assemblies (testing is not complete or unsatisfactory)	12

Comments:

Last month, finished beta testing for CCC Annual Summary Report for DOH.

Water Main Replacement (WMR) Report:

Lineal Ft of Water Main Replaced:	20	Fire Hydrants Replaced / Installed:	2
Valves Replaced / Installed:	0	Lineal Ft of Right-of-Way Restored:	0

Description of Work Accomplished:

20 feet 6" C-900. Install fire hydrant at 314th and L Place. Install fire hydrant at 314th and O Place.

Meter Replacement Project (MIP) Report:

Meters Installed This Mon.:	2	Meters Installed to Date:	1,488	Meters Remaining:	295

Description of Work Accomplished:

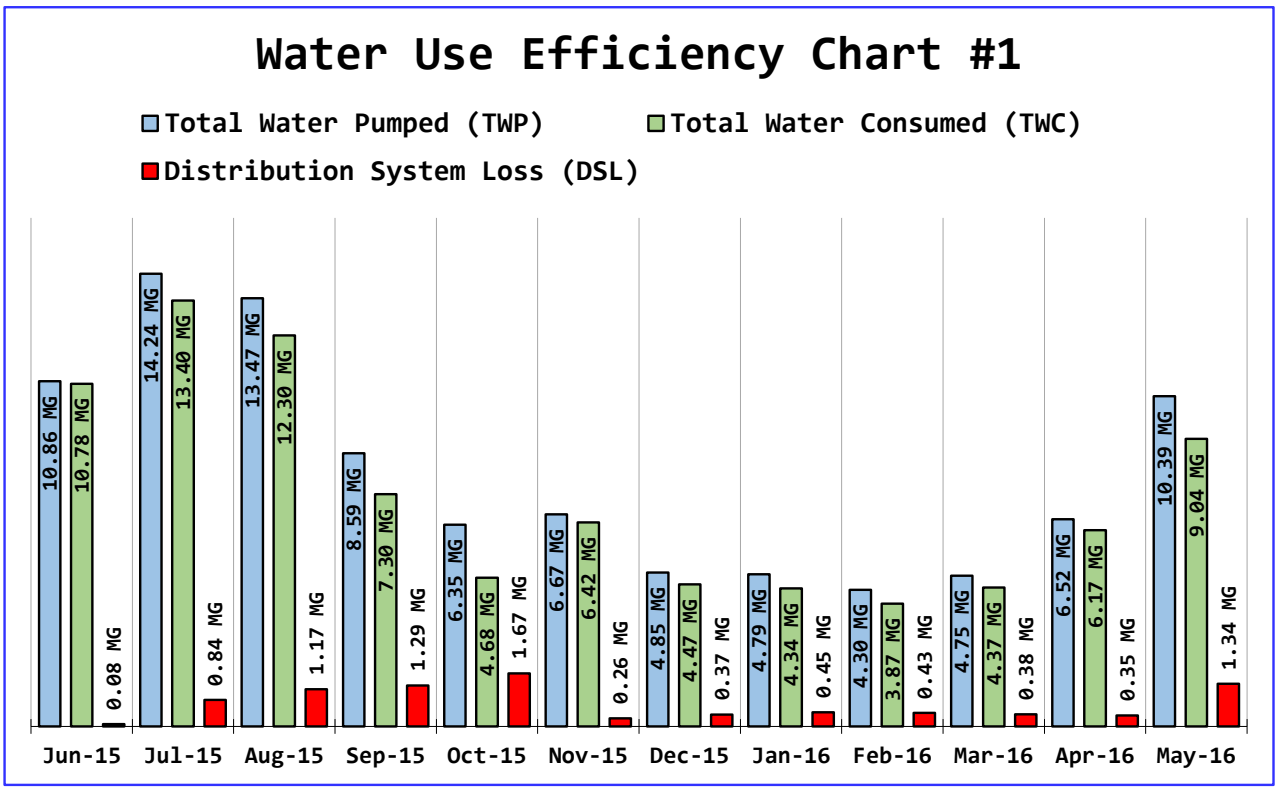
MIP Work Started the week of June 7th.

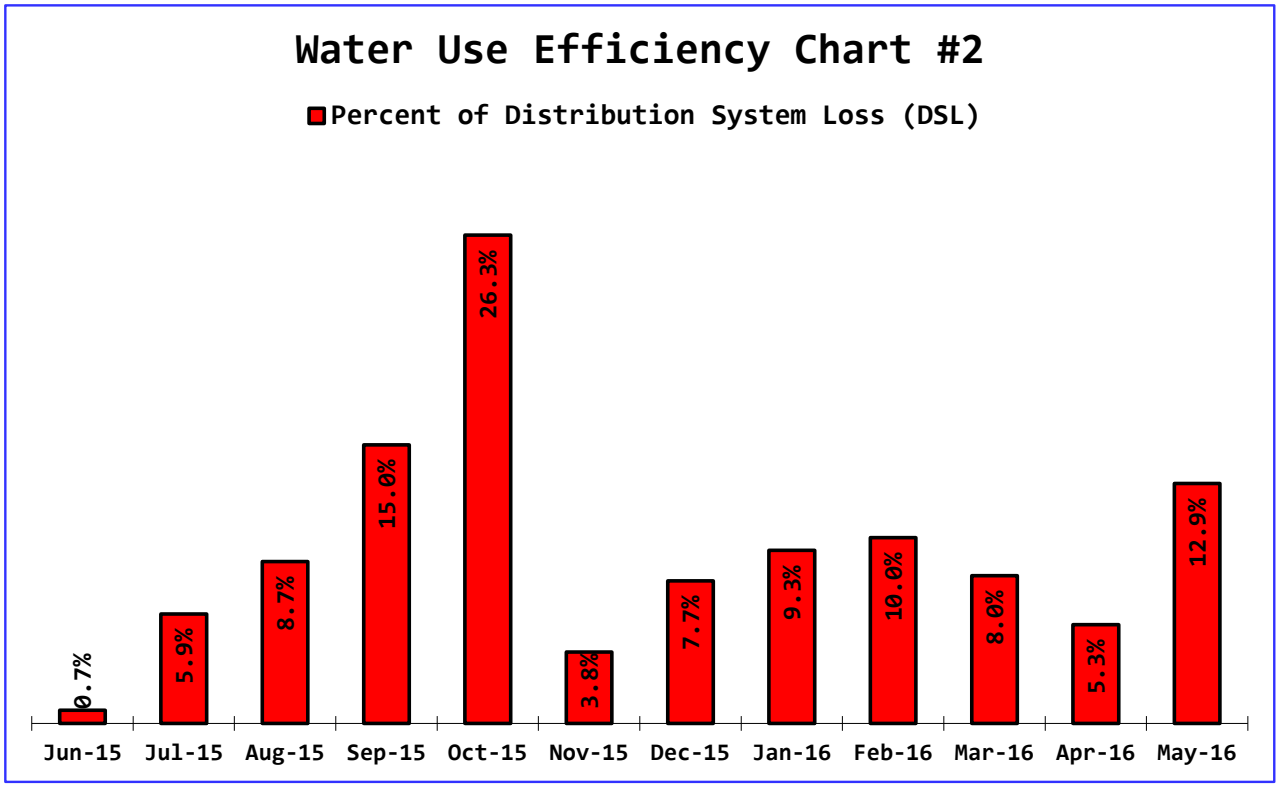
Images:

Forming the apron and sidewalks for concrete

Finished apron and sidewalks

Water Use Efficiency Charts:





High Water Users Report:

Address	C.F.	Gallons	G/P/D	Leak Status
31710 H PLACE	3,775	28,237	882	No Leak
30514 H STREET	3,799	28,417	888	No Leak
32909 J PLACE	3,814	28,529	892	Continuous Leak
35204 G STREET	3,833	28,671	896	No Leak
30403 G STREET	4,134	30,922	966	Continuous Leak
35302 G STREET	4,305	32,201	1,006	Continuous Leak
708 OYSTERVILLE RD	4,462	33,376	1,043	No Leak
809 347TH PLACE	4,656	34,827	1,088	Intermittent Leak
30707 G STREET	5,089	38,066	1,190	No Leak
30506 I STREET	5,240	39,195	1,225	No Leak
34905 G STREET	5,248	39,255	1,227	No Leak
30706 H STREET	5,450	40,766	1,274	Intermittent Leak
29753 G STREET	5,745	42,973	1,343	Intermittent Leak
707 340TH PLACE	5,787	43,287	1,353	No Leak
1506 320TH PLACE	6,165	46,114	1,441	No Leak
30701 G STREET	6,307	47,176	1,474	No Leak
912 338TH PLACE	6,789	50,782	1,587	Intermittent Leak
31309 H STREET	7,894	59,047	1,845	No Leak
30610 M PLACE	9,069	67,836	2,120	No Leak
34212 G STREET	10,231	76,528	2,391	Intermittent Leak
31305 H STREET	10,374	77,598	2,425	No Leak
32708 G STREET	10,381	77,650	2,427	No Leak
35212 G STREET	10,978	82,115	2,566	Continuous Leak
30715 G STREET	16,627	124,370	3,887	No Leak
33707 I STREET	29,245	218,753	6,836	Continuous Leak
Totals:	189,397	1,416,690	44,272	
% of Metered Residential Members:	**1.6%**			
% of Metered Residential Water Use:	**26.8%**			

Comments:

May's highest water user was an abandoned home with a 5 gallon per minute leak (33707 I Street).

Deleting 33707 I Street's use, the 25 highest water users each consumed on average 1,582 gallons per day.

104 members (including 25 highest users) consumed water greater than an average 4 person home (52% of all metered water).

504 members consumbed water that is the average for a 1-4 person home (42% of all metered water).

616 members used 1/2 the average water use for a 1 person home and could be considered vacation, these members used 6% of the water.

336 homes had zero water consumption.

Members Water Leaks Report Page #1:

Leak Letters Mailed Out ----------	17	Leaks Resolved ----------	36
Leaks Investigated ----------	9	Leaks Unresolved ----------	61

Comments:

One metered 5 gpm leak ran most of the month of May at an abandoned home and was shut off at the beginning of June.

(C.F.= Cubic Feet) (GPD= Gallons per Day) (C= Continuous I= Intermittent)

Address	Days	C.F.	Gallons	G/P/D	C/I	Comments
30007 G STREET	35	454	3,396	106	C	
807 303RD PLACE	35	447	3,344	104	C	
33600 I STREET	35	271	2,027	63	C	
33611 J PLACE	35	1,691	12,649	395	C	
30711 O PLACE	35	668	4,997	156	C	
31102 O PLACE	35	942	7,046	220	C	
30516 O PLACE	35	733	5,483	171	C	
1100 322ND STREET	35	740	5,535	173	C	
1110 324TH PLACE	35	581	4,346	136	C	
1304 322ND PLACE	35	1,135	8,490	265	C	
1308 322ND PLACE	35	263	1,967	61	C	
1400 322ND PLACE	35	830	6,208	194	C	
1602 320TH PLACE	35	1,574	11,774	368	C	
2006 320TH PLACE	35	995	7,443	233	C	
32217 R PLACE	35	2,563	19,171	599	C	
34501 F PLACE	35	290	2,169	68	C	
35212 G STREET	35	10,978	82,115	2,566	C	
34913 H PLACE	35	2,406	17,997	562	C	
812 347TH PLACE	35	465	3,478	109	C	
34709 J PLACE	35	1,187	8,879	277	C	
35405 J PLACE	35	394	2,947	92	C	
30709 H STREET	35	457	3,418	107	C	
808 OYSTERVILLE RD	35	451	3,373	105	C	
29621 K STREET	35	1,665	12,454	389	C	
29805 K STREET	35	536	4,009	125	C	
1108 302ND STREET	35	903	6,754	211	C	

Address	Days	C.F.	Gallons	G/P/D	C/I	Comments
1209 303RD STREET	35	409	3,059	96	C	
30211 O PLACE	35	3,337	24,961	780	C	
31902 J PLACE	35	2,539	18,992	593	C	
33802 I STREET	35	861	6,440	201	C	
30303 J PLACE	35	966	7,226	226	C	
WORLDMARK 1005 315th	35	14,374	107,518	3,360	C	
30517 K PLACE	35	1,203	8,998	281	C	
30809 K PLACE	35	1,671	12,499	391	C	
30708 N PLACE	35	1,158	8,662	271	C	
31311 O PLACE	35	369	2,760	86	C	
815 324TH PLACE	35	660	4,937	154	C	
32713 H PLACE	22-34	918	6,867	215	C	
32909 J PLACE	22-34	3,814	28,529	892	C	
33101 J PLACE	22-34	2,101	15,715	491	C	
33707 I STREET	22-34	29,245	218,753	6,836	C	Shut Off Water
1811 320TH PLACE	22-34	518	3,875	121	C	
34206 J PLACE	22-34	1,603	11,990	375	C	
34907 G STREET	22-34	2,410	18,027	563	C	
516 354TH PLACE	22-34	296	2,214	69	C	
35604 G STREET	22-34	575	4,301	134	C	
35302 G STREET	22-34	4,305	32,201	1,006	C	
35004 H PLACE	22-34	272	2,035	64	C	
29605 K STREET	22-34	215	1,608	50	C	
30204 J PLACE	22-34	755	5,647	176	C	
30700 L PLACE	15-21	1,793	13,412	419	C	
30403 G STREET	8-14	4,134	30,922	966	C	
1712 324TH PLACE	8-14	2,150	16,082	503	C	
1000 338TH PLACE	8-14	444	3,321	104	C	
32311 Q PLACE	3-7	2,049	15,327	479	C	
35015 H PLACE	3-7	110	823	26	C	
30505 L PLACE	3-7	124	928	29	C	
30906 L PLACE	3-7	87	651	20	C	
32808 G STREET	1-2	375	2,805	88	C	
1603 320TH PLACE	1-2	188	1,406	44	C	
1605 320TH PLACE	1-2	189	1,414	44	C	
33204 J PLACE	35	426	3,186	100	I	
33705 G STREET	35	110	823	26	I	
1410 323RD PLACE	35	73	546	17	I	

Address	Days	C.F.	Gallons	G/P/D	C/I	Comments
1301 321ST PLACE	35	856	6,403	200	I	
1813 324TH PLACE	35	46	344	11	I	
2005 324TH PLACE	35	236	1,765	55	I	
2204 304TH PLACE	35	415	3,104	97	I	
35205 F PLACE	35	100	748	23	I	
35108 H PLACE	35	1,647	12,320	385	I	
29518 H STREET	35	271	2,027	63	I	
30203 M PLACE	35	724	5,416	169	I	
30011 I STREET	35	138	1,032	32	I	
30801 I STREET	35	277	2,072	65	I	
30812 L PLACE	35	1,951	14,593	456	I	
32709 G STREET	22-34	52	389	12	I	
32805 J PLACE	22-34	1,304	9,754	305	I	
30205 G STREET	22-34	119	890	28	I	
30411 G STREET	22-34	3,214	24,041	751	I	
30104 G STREET	22-34	1,996	14,930	467	I	
33704 J PLACE	22-34	814	6,089	190	I	
31006 O PLACE	22-34	302	2,259	71	I	
30806 O PLACE	22-34	3,444	25,761	805	I	
1915 322ND PLACE	22-34	1,005	7,517	235	I	
35601 G STREET	22-34	356	2,663	83	I	
30103 H STREET	22-34	1,412	10,562	330	I	
30200 H STREET	22-34	1,648	12,327	385	I	
810 OYSTERVILLE RD	22-34	760	5,685	178	I	
1105 303RD STREET	22-34	1,301	9,731	304	I	
29753 G STREET	22-34	5,745	42,973	1,343	I	
30809 J PLACE	22-34	76	568	18	I	
30204 I STREET	22-34	864	6,463	202	I	
31206 J PLACE	22-34	1,283	9,597	300	I	
31704 G STREET	22-34	734	5,490	172	I	
32903 I STREET	15-21	2,456	18,371	574	I	
34503 J PLACE	15-21	226	1,690	53	I	
809 347TH PLACE	15-21	4,656	34,827	1,088	I	
35109 J PLACE	15-21	378	2,827	88	I	
30706 H STREET	15-21	5,450	40,766	1,274	I	
31000 H STREET	15-21	939	7,024	219	I	
32708 H PLACE	8-14	1,428	10,681	334	I	
33304 J PLACE	8-14	137	1,025	32	I	

Members Leak Report - Page #4: (C.F.= Cubic Feet) (GPD= Gallons per Day) (C= Continuous I= Intermittent)

Address	Days	C.F.	Gallons	G/P/D	C/I	Comments
33609 G STREET	8-14	2,139	16,000	500	I	
809 338TH PLACE	8-14	2,336	17,473	546	I	
32209 K PLACE	8-14	568	4,249	133	I	
34212 G STREET	8-14	10,231	76,528	2,391	I	
34518 J PLACE	8-14	2,190	16,381	512	I	
34310 J PLACE	8-14	936	7,001	219	I	
807 355TH PLACE	8-14	1,698	12,701	397	I	
910 324TH PLACE	8-14	1,733	12,963	405	I	
32006 J PLACE	8-14	1,194	8,931	279	I	
30311 G STREET	3-7	212	1,586	50	I	
30400 G STREET	3-7	212	1,586	50	I	
33015 J PLACE	3-7	374	2,798	87	I	
608 336TH	3-7	612	4,578	143	I	
1606 321ST PLACE	3-7	1,093	8,176	255	I	
705 340TH PLACE	3-7	140	1,047	33	I	
1410 301ST PLACE	3-7	230	1,720	54	I	
31716 J PLACE	3-7	419	3,134	98	I	
912 338TH PLACE	3-7	6,789	50,782	1,587	I	
31210 J PLACE	3-7	244	1,825	57	I	
30715 N PLACE	3-7	375	2,805	88	I	
32610 J PLACE	1-2	15	112	4	I	
33115 G STREET	1-2	149	1,115	35	I	
33307 J PLACE	1-2	117	875	27	I	
1413 322ND PLACE	1-2	365	2,730	85	I	
34210 G STREET	1-2	10	75	2	I	
34513 I STREET	1-2	255	1,907	60	I	
35301 G STREET	1-2	1,895	14,175	443	I	
(35204 J Pl)	1-2	819	6,126	191	I	
31405 G STREET	1-2	141	1,055	33	I	
31108 J PLACE	1-2	409	3,059	96	I	
32511 G STREET	1	284	2,124	66	I	
32606 G STREET	1	41	307	10	I	
809 OYSTERVILLE RD	1	638	4,772	149	I	
31719 G STREET	1	326	2,438	76	I	
30901 N PLACE	1	278	2,079	65	I	
811 324TH PLACE	1	223	1,668	52	I	

Dune Fire Report ---------- Bill Neal

Saturday June 4, 2016 a wildfire occurred in the dune grass west of homes on G Street near 347th Place. Northerly winds of 10 to 15 mph with 30 mph gusts caused flames to move quickly and threaten several homes.

Fire District #1 responded quickly and called in resources from other agencies to assist. The Ilwaco Fire Department, Long Beach Fire Department, Chinook Fire Department all responded to the call for assistance. Invaluable aid in fighting this fire was also provided by the Pacific County Sheriff's Office, Washington State Parks and Recreation, Washington State Department of Natural Resources, and the Surfside Water Department. The selfless efforts of Surfside's members, large and small, during this event was a testament to the true mettle of Surfside's members as individuals and as a community.

Approximately 15 acres of dune grass was burned. Due to the tireless efforts of all involved, no homes were lost to the fire, although at least one home suffered fire damage.

Water Department Personnel responding to the call were:

Aaron Brooks, Acting Superintendent

Larry Hampton, Water Distribution Manager #2, Cross Connection Control Specialist, Treatment Plant Operator #2

April Garcia, Water Distribution Manager #1, Water Treatment Plant Operator #1, Backflow Assembly Tester

William Neal, Water System Manager

The fire fighters used Surfside's fire hydrant located at G Street and 345th to fill water trucks throughout the afternoon. Although the Fire Department had some difficulty with their equipment at first, Surfside's fire hydrant perform perfectly. The water system handled the extra load with minimal difficulty.

The Surfside crew was called in to assist the fire departments in operation of the fire hydrants and monitor pumps. Due to the fragile condition of some of our water mains, the opening and closing of fire hydrants too quickly can result in catastrophic water main breaks. Generally, the water mains north of Oysterville Road are in better condition than the water mains south of Oysterville Road, with the exception of the mains that have already been replaced.

All of the fire fighters cooperated well with the Surfside's crew and the water mains were not damaged during the event.

Fighting the fire resulted in:

Total estimated water use: ----------15,000 gallons

Highest recorded pumping rate: ----------750 gallons per minute

Lowest recorded water pressure in the distribution system: ----------27 psi

Total hours of overtime ----------9 1/2 hours

Estimated cost to Surfside of incident ----------less than $500.00

DR4249-4253 HMGP Pre-Application

*Note-All text boxes will expand as you type. There are no limits to the number of characters.

Sub-applicant Information

Sub-Applicant: Surfside HOA **Date:** May 2016

Point of Contact: Bill Neal **Phone:** 360-665-4171

E-mail: water@surfsideonline.org

Street Address: 31402 H Street

City: Ocean Park **State:** WA **Zip:** 98640

Basic Eligibility

To which FEMA-Approved Hazard Mitigation Plan is your jurisdiction annexed?

Plan Title: Pacific County Regional Hazard Mitigation Plan Update (Approval Pending). Expiration Date: 5/1/2021

Proposal

Proposal Title: Surfside Homeowner's Association Property Accquisition and Structure Relocation for Business Office

Estimated Cost: $1,000,000

Brief Proposal Description: The Washington State Hazard Mitigation Plan (September 2012), recognizes that, “25 feet was determined to be a plausible wave height for a coastal or Puget Sound located tsunami to be able to reach and cause flooding and other types of damage.” An earthquake along the Cascadia subduction zone would be the incipient condition for such a tsunami. The Surfside Homeowner's Association operates a water system serving over 2,200 service connections and providing fire suppression service on the northern end of the Long Beach Peninnsula. This proposal would relocate the Surfside Homeowner's Association (HOA) business office outside of a hazard-prone area, to a new building located at a higher elevation. The new structure will also serve as a Tsunami Assembly Area/Command Center which will allow emergency responders to coordinate the local response. The elevation of the current Surfside HOA building is approximately 17 feet. The proposed relocation site is next to the Surfside Inn and Golf Course parking lot at an elevation of 48 feet. This location is already listed in the Pacific County All Hazards Preparedness Guide developed by the Pacific County Emergency

Management Agency (PCEMA), the Washington State Military Department Emergency Management Division, and the National Tsunami Hazard Mitigation Program, as a designated Pacific County Tsunami Evacuation Assembly Area. The proposed building would have a floor area of approximately 3,000 square feet and would supplement the emergency response by providing additional enclosed space for use as an emergency operations center, allowing federal, state, and local officials to efficiently coordinate disaster response. The proposed building could also be utilized as a staging area or command post for other emergency activities. In addition to augmenting emergency response functions, the business office would be able to remain operational during an emergency, allowing continued provision of potable water service and water for fire suppression. In addition, the existing parking lot could be used as a Medivac landing area for emergencies, not limited to tsunamis (i.e.; potential loss of life, limb, or eye sight). The building would be equipped with a multipurpose space and power generation facilities. Grant monies would be used for engineering design and construction. Engineering will be required to analyze alternatives, optimize value, and prepare construction documents.

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