

FILED

AUG 07 2012

CONNIE MAZZEI
CLERK OF THE SUPERIOR COURT
~~J. NICHOLSON~~ DEPUTY

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9 **SUPERIOR COURT OF CALIFORNIA**
10 **COUNTY OF MONTEREY**

11 CALIFORNIA AMERICAN WATER,

12 Plaintiff,

13 vs.

14 CITY OF SEASIDE, et al.,

15 Defendants.

Case No.: M66343

**NOTICE OF FILING OF WATERMASTER
RESPONSE TO MARCH 7, 2012 MINUTE
ORDER**

Assigned for All Purposes to the
Honorable Roger D. Randall (Ret.)

16 MONTEREY PENINSULA WATER
17 MANAGEMENT DISTRICT,

18 Intervenor,

19 MONTEREY COUNTY WATER
20 RESOURCES AGENCY,

21 Intervenor,

22 AND RELATED CROSS-ACTIONS.

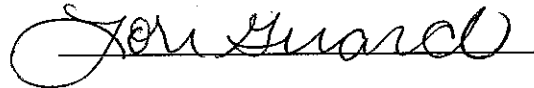
23 **TO ALL PARTIES AND TO THEIR RESPECTIVE COUNSEL OF RECORD:**

24
25 **PLEASE TAKE NOTICE** that the attached Watermaster Response to March 7,
26 2012 Minute Order is hereby filed with the Court by California American Water on behalf
27 of the Seaside Groundwater Basin Watermaster ("Watermaster"). By Minute Order
28 dated March 7, 2012 ("Minute Order"), the Court directed the Watermaster to supply the

1 Court with further information regarding the matters set forth in the Minute Order.

2
3 Respectfully submitted,

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6 Dated: August 7, 2012



7 Lori Girard
8 Attorney for Plaintiff
9 California American Water
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SERVICE LIST

Judge Roger D. Randall

JUDGE'S COPY

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COUNTY OF MONTEREY

WATERMASTER EXECUTIVE OFFICER

**SEASIDE GROUNDWATER BASIN WATERMASTER
WATERMASTER RESPONSE TO
MARCH 7, 2012 MINUTE ORDER
August 1, 2012**

The Seaside Basin Watermaster submits the following report in response to the Minute Order of the Court dated March 7, 2012.

The Minute Order in part directs that the Watermaster supply the Court with further information regarding two issues pertaining to the Watermaster's 2011 Annual Report. Each of the issues is shown in boldface *italics*. The responses immediately follow each of the listed issues.

Issue 1 – Use and Investment of the Replenishment Fund, Attachment 8, Page 9 contains a table for the Fiscal Year 2012 Adopted Replenishment Fund Budget which reflects that a substantial amount of money was on hand in the Replenishment Fund at the close of WY 2011. The Court does not recall receiving any information in prior years, nor in the present Annual Report, regarding how funds generated by the replenishment assessments are being invested, nor what is being done to explore replenishment options.

Response: Currently, there are no moneys in the Replenishment Fund (“RF”) and therefore there are no funds being generated to invest. There have been no actual cash payments made by Producers for Replenishment Assessments (“RAs”) levied during the existence of the Watermaster. California American Water (“CAW”) and the City of Seaside (“Seaside”) are the only Producers against whom RAs have been levied. Both CAW and Seaside (in accordance with the Court’s Amended Decision and subsequent Memorandums of Understanding with the Watermaster) have received credits towards their respective RAs.

RAs are levied at the end of each Water Year (“WY”) on Producers whose production exceeds their allocation of the established Basin Natural Safe Yield or established Operating Yield. The estimated balance of the RF at the end of WY 2011 as presented in the Fiscal Year (“FY”) 2012 RF Budget document submitted with the 2011 Annual Report was \$1,079,211. The estimated amounts for the Proposed Budget 2012 (incorrectly labeled Proposed Budget 2011) were approximately the same as the FY 2011 estimated budget amounts, and did not include any anticipated credits, thus resulting in a projected \$4,824,492 fund balance at the end of WY 2012. *See attached Seaside Groundwater Basin Watermaster Fiscal Year 2012 Adopted Replenishment Fund Budget – Attachment 8, Page 9 of 2011 Annual Report.*

For WYs 2006 through 2010 in the 2012 Adopted RF Budget, the assessment and credit amounts listed were actual amounts. The WY 2011 information and the proposed 2012 Budget were *only estimates* due to the 2011 Annual Report being prepared prior to finalization of production and assessments for the year.

At the time of the submitted 2011 Annual Report, CAW had a total of \$17,757,534 in RAs levied against it for WYs 2006 through 2010. CAW received RA credits for each of these WYs pursuant to Section III. M.1.d of the Amended Decision. A \$465,648 credit was applied against the assessment total for WY 2006 for 411 acre-feet ("AF") of replenishment related to the ASR project. Pursuant to the Amended Decision and CAW's MOU with the Watermaster, a \$12,305,924 credit was applied to WY 2008 against the assessment total for expenditures CAW had made in calendar year 2006, a \$3,741,714 credit was applied to WY 2009 for expenditures CAW had made in calendar year 2007, and a \$5,095,213 was applied to WY 2010 for expenditures CAW had made in calendar year 2008. These credits totaled \$21,608,499. The CAW credit balance at the end of WY 2010 was \$3,850,984 (\$21,608,499 in credits - \$17,757,534 in assessments). The *estimated* WY 2011 assessment for production exceeding Natural Safe Yield for CAW was \$3,319,320. (Actual was ultimately \$3,187,854.) CAW did not exceed its Operating Yield allocation in WY 2011.

At the time of the submitted 2011 Annual Report, Seaside had a total of \$1,576,329 in RAs levied against it for WYs 2006 through 2010 for Standard Production and \$402,812 for Alternative Production. Pursuant to the Amended Decision and Seaside's MOU with the Watermaster, an \$888,349 credit was applied against the assessment total for Seaside's In-lieu Replenishment Program (\$2,780 per AF for 319.55 AF of water provided by Marina Coast Water District for golf course irrigation) in 2010. Seaside's unpaid balance at the end of WY 2010 was \$1,179,678 (\$1,979,141 in assessments + \$88,887 in 5% late payment fees - \$888,349 in credits). The *estimated* WY 2011 assessment for production exceeding Natural Safe Yield and Operating Yield overproduction for the City of Seaside was \$431,178. (Actual was ultimately \$141,335.)

The adjusted balance of the RF after updating with actual data at the end of WY 2011 was -\$6,102,019 due to:

- (1) A credit applied in FY 2011 of \$5,425,799 for expenditures CAW had made in calendar year 2009 for water supply augmentation that it contended would result in replenishment of the Basin,
- (2) A Seaside In-lieu Replenishment Program credit of \$191,264 (\$2,780 per AF for 68.8 additional AF of water provided by Marina Coast Water District) delivered in WY 2009 and applied to WY 2010, and
- (3) A Seaside In-lieu Replenishment Program credit of \$1,142,858 (\$2,780 per AF for 411.1 AF of water provided by Marina Coast Water District) delivered in and applied to WY 2011.

The *updated estimates* for the FY 2012 RA Fund Budget, using actual FY 2011 assessment and credit amounts, is -\$2,356,738 as reported in the RF financial report as of May 31, 2012 provided to the Board at its June 6, 2012 meeting. *See attached Watermaster RF Financial Report as of May 31, 2012.*

Pursuant to Section III.L.3.j.iii of the Amended Decision, each year the Watermaster has determined that Artificial Replenishment Water is not available to offset Operating Yield Over-Production during the ensuing Water Year. Potential sources for future Basin Artificial Replenishment Water have been researched, discussed, listed and prioritized at Watermaster Technical Advisory Committee meetings.

Issue 2 – Results of the re-sampling of the Sand City well (and analysis of same).
Attachment 12, Page 3 recommends that Sand City's Public Works well be re-sampled within the month.

Response: This well had an unusually high chloride level when it was sampled in mid-2011, so it was re-sampled in December 2011. This well is located in an area where wells in the past have also reportedly seen higher chloride levels than other wells in the Basin. The water quality in this well resembles diluted seawater, but it may be water that has been there for a long time and is just now coming out of the well.

Historical water quality data from this well has exhibited a somewhat unique chemical fingerprint relative to most other wells that have been sampled as part of the Watermaster sampling effort since the first sample was collected in 2008. Currently this is the only well sampled under the Watermaster's well monitoring program that has casing perforations in the Dune Sand/Aromas Sand aquifer of the Seaside Basin. All of the other wells that are sampled are perforated in either the Paso Robles, the Santa Margarita, or the Purisima formations, or in some cases more than one of these formations.

The most recent water quality data for this well, from the sample taken on April 3, 2012, showed that the chloride concentration was 291 mg/L, which is down slightly from the July 26, 2011 value of 330 mg/L and the re-sampling value of 326 mg/L on December 1, 2011. Ever since the first sample from this well was analyzed under the Watermaster's monitoring program in 2008, both sodium and chloride levels have been elevated relative to other coastal wells in the Basin. The water quality data from this well has also shown elevated levels of other constituents, including nitrate and fluoride, relative to other coastal wells. The Watermaster is searching historical water quality records to determine if any similar water quality observations were recorded from other now-abandoned wells that were in this area of the Basin and which were also perforated in the Dune Sand/Aromas Sand formation. The Watermaster recognizes that since the Aromas Sands aquifer is a source of recharge to the underlying aquifers (Paso Robles and Santa Margarita) it is important to monitor this well. The Watermaster TAC has determined that this well should be sampled in both the second and fourth quarters.

The Watermaster will continue to regularly re-sample this well to look for any emerging water quality trends or for seasonal variations.

Attachments:

1. Fiscal Year 2012 Adopted Replenishment Fund Budget (Attachment 8, Page 9 of 2011 Annual Report)
2. Replenishment Fund Financial Report as of May 31, 2012 prepared for June 6, 2012 Board Meeting
3. Analytical Results from the First Re-sampling of the Sand City Public Works Well in December 2011
4. Analytical Results from the Second Re-sampling of the Sand City Public Works Well in April 2012
5. Sand City Public Works Well Water Quality Data Summary Table for Years 2008-2012

Seaside Groundwater Basin Watermaster Fiscal Year 2012 Adopted Replenishment Fund Budget

Seaside Groundwater Basin Watermaster												V1B	
Replenishment Fund												10/4/2011	
Water Year 2012 (October 1 - September 30) / Fiscal Year (January 1 - December 31, 2012)													
Proposed Budget													
	2006	2007	2008	2009	2010	Estimated 2011	Total Through WY 2011	Proposed Budget 2011	Projected Total Through WY 2012				
Assessments:	WY 05/06	WY 06/07	WY 07/08	WY 08/09	WY 09/10	WY 10/11		WY 11/12					
Unit Cost:	\$1,132	\$1,132	\$2,485	\$3,040	\$2,780	\$2,780		\$2,780					
California American Water Balance Forward	\$ -	\$ 1,641,004	\$ 4,206,475	\$ (2,900,435)	\$ (2,888,685)	\$ (3,850,964)		\$ (531,644)		\$ 24,261,192			
Exceeding Natural Safe Yield Considering Alternative Producers	2,106,652	2,484,533	5,184,989	3,773,464	4,112,933	3,319,320	\$ 20,961,872	3,319,320			114,983		
Operating Yield Overproduction Replenishment	-	80,938	34,045	-	-	-		-			-		
Total California American	\$ 2,106,652	\$ 2,565,471	\$ 5,199,014	\$ 3,773,464	\$ 4,112,933	\$ 3,319,320	\$ 21,076,856	\$ 3,319,320	\$ 24,395,175		\$ 24,395,175		
CAW Credit Against Assessment	(465,648)		(12,305,924)	(3,741,714)	(6,065,213)	-	(21,608,499)	-	(21,608,499)		(21,608,499)		
CAW Unpaid Balance	\$ 1,641,004	\$ 4,206,475	\$ (2,900,435)	\$ (2,888,685)	\$ (3,850,964)	\$ (531,644)	\$ (531,644)	\$ 2,787,676	\$ 2,787,676		\$ 2,787,676		
City of Seaside Balance Forward	\$ -	\$ 230,671	\$ 413,454	\$ 1,106,116	\$ 1,737,669	\$ 1,179,678		\$ 1,610,856					
City of Seaside Municipal Exceeding Natural Safe Yield Considering Alternative Producers	169,200	173,739	385,642	399,211	231,961	369,740	\$ (1,729,493)	369,175	\$ 2,096,666		\$ 2,096,666		
Operating Yield Overproduction Replenishment	50,487	340	16,888	66,090	82,761	61,438	\$ 278,013	56,786	\$ 334,799		\$ 334,799		
Total Municipal	219,687	174,079	402,540	465,300	314,721	431,178	\$ 2,007,506	425,961	\$ 2,431,467		\$ 2,431,467		
City of Seaside - Golf Courses Exceeding Natural Safe Yield - Alternative Producer	-	-	131,705	68,701	-	-	201,406	-	201,406		201,406		
Operating Yield Overproduction Replenishment	-	-	131,705	68,701	-	-	201,406	-	201,406		201,406		
Total Golf Courses	-	-	263,410	139,402	-	-	402,812	-	402,812		402,812		
Total City of Seaside	\$ 219,687	\$ 174,079	\$ 666,950	\$ 604,702	\$ 314,721	\$ 431,178	\$ 2,410,318	\$ 426,961	\$ 2,838,279		\$ 2,838,279		
City of Seaside Late Payment 5%	10,964	8,704	26,712	26,750	15,737	-	89,987	-	89,987		89,987		
In-lieu Credit Against Assessment	-	-	-	-	(888,349)	-	(888,349)	-	(888,349)		(888,349)		
City of Seaside Unpaid Balance	\$ 230,671	\$ 413,454	\$ 1,106,116	\$ 1,737,669	\$ 1,779,678	\$ 1,610,856	\$ 6,278,343	\$ 4,824,492	\$ 2,039,617		\$ 2,039,617		
Total Replenishment Fund Balance	\$ 1,871,675	\$ 4,619,929	\$ (1,794,319)	\$ (1,131,116)	\$ (2,671,287)	\$ 1,079,211	\$ 6,746,993	\$ 4,824,492	\$ 4,824,492		\$ 4,824,492		
Replenishment Fund Balance Forward	-	\$ 1,871,675	\$ 4,619,929	\$ (1,794,319)	\$ (1,131,116)	\$ (2,671,287)		\$ 1,079,211					
Total Replenishment Assessments	2,337,323	2,748,254	5,891,676	4,404,917	4,443,391	3,750,498	23,576,059	3,745,281	27,321,340		27,321,340		
Total Replenishment Paid and/or Credited	(465,648)	-	(12,305,924)	(3,741,714)	(6,983,662)	-	(22,499,646)	-	(22,499,646)		(22,499,646)		
MRWPCA GWRP Payment	-	-	-	-	-	-	-	-	(100,000)		(100,000)		
Grand Total Replenishment Fund Balance	\$ 1,371,675	\$ 4,619,929	\$ (1,794,319)	\$ (1,131,116)	\$ (2,671,287)	\$ 1,079,211	\$ 1,079,211	\$ 4,824,492	\$ 4,721,492		\$ 4,721,492		

Seaside Groundwater Basin Watermaster

Replenishment Fund

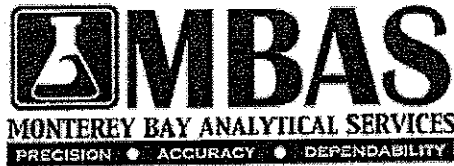
Water Year 2012 (October 1 - September 30) / Fiscal Year 2012 (January 1 - December 31)

January 1 - May 31, 2012

	2006	2007	2008	2009	2010	2011	Totals Through WY 2011	Budget 2012 WY 11/12	Projected Totals Through WY 2012
Replenishment Fund									
Assessments:	WY 05/06	WY 06/07	WY 07/08	WY 08/09	WY 09/10	WY 10/11		WY 11/12	
Unit Cost:	\$ 1,132	\$ 1,132	\$ 2,485	\$ 3,040	\$ 2,780	\$ 2,780		\$ 2,780	
California American Water Balance Forward	\$ -	\$ 1,641,004	\$ 4,206,475	\$ (2,900,435)	\$ (2,868,685)	\$ (3,850,964)		\$ (6,088,910)	\$ -
Exceeding Natural Safe Yield Considering Alternative Producers	2,106,652	2,484,533	5,164,969	3,773,464	4,112,933	3,187,854	20,850,405	3,319,320	24,149,725
Operating Yield Overproduction Replenishment	-	80,938	34,045	-	-	-	114,983	-	114,983
Total California American	\$ 2,106,652	\$ 2,565,471	\$ 5,199,014	\$ 3,773,464	\$ 4,112,933	\$ 3,187,854	\$ 20,945,388	\$ 3,319,320	\$ 24,264,708
CAW Credit Against Assessment	(465,648)		(12,305,924)	(3,741,714)	(5,095,213)	(5,425,799)	(27,034,293)	-	(27,034,293)
CAW Unpaid Balance	\$ 1,641,004	\$ 4,206,475	\$ (2,900,435)	\$ (2,868,685)	\$ (3,850,964)	\$ (6,088,910)	\$ (6,088,910)	\$ (2,769,590)	\$ (2,769,590)
City of Seaside Balance Forward	\$ -	\$ 230,671	\$ 413,454	\$ 1,106,116	\$ 1,737,589	\$ 988,414		\$ (13,109)	
City of Seaside Municipal	332.0 AF	287.7 AF	294.3 AF	293.4 AF	282.9 AF	240.7 AF			
Exceeding Natural Safe Yield Considering Alternative Producers	169,200	173,739	385,642	399,211	231,961	141,335	1,501,088	369,175	1,870,263
Operating Yield Overproduction Replenishment	50,487	340	16,898	66,090	82,761	-	216,575	56,786	273,361
Total Municipal	219,687	174,079	402,540	465,300	314,721	141,335	1,717,663	425,961	2,143,624
City of Seaside - Golf Courses									
Exceeding Natural Safe Yield - Alternative Producer	-	-	131,705	69,701	-	-	201,406	-	201,406
Operating Yield Overproduction Replenishment	-	-	131,705	69,701	-	-	201,406	-	201,406
Total Golf Courses	-	-	263,410	139,402	-	-	402,812	-	402,812
Total City of Seaside*	\$ 219,687	\$ 174,079	\$ 665,950	\$ 604,702	\$ 314,721	\$ 141,335	\$ 2,120,475	\$ 425,961	\$ 2,546,435
City of Seaside Late Payment 5%	10,984	8,704	26,712	26,750	15,737	-	88,887	-	88,887
In-lieu Credit Against Assessment*	-	-	-	-	(1,079,613)	(1,142,858)	(2,222,471)	-	(2,222,471)
City of Seaside Unpaid Balance	\$ 230,671	\$ 413,454	\$ 1,106,116	\$ 1,737,589	\$ 988,414	\$ (13,109)	\$ (13,109)	\$ 412,852	\$ 412,852
Total Replenishment Fund Balance	\$ 1,871,675	\$ 4,619,929	\$ (1,794,319)	\$ (1,131,116)	\$ (2,862,551)	\$ (6,102,019)	\$ (6,102,019)	\$ (2,356,738)	\$ (2,356,738)
Replenishment Fund Balance Forward	-	\$ 1,871,675	\$ 4,619,929	\$ (1,794,319)	\$ (1,131,116)	\$ (2,862,551)		\$ (6,102,019)	
Total Replenishment Assessments	2,337,323	2,748,254	5,891,676	4,404,917	4,443,391	3,329,189	23,154,750	3,745,281	26,900,031
Total Replenishment Paid and/or Credited	(465,648)	-	(12,305,924)	(3,741,714)	(6,174,826)	(6,568,657)	(29,256,769)	-	(29,256,769)
Grand Total Replenishment Fund Balance	\$ 1,871,675	\$ 4,619,929	\$ (1,794,319)	\$ (1,131,116)	\$ (2,862,551)	\$ (6,102,019)	\$ (6,102,019)	\$ (2,356,738)	\$ (2,356,738)

* 2010 = 319.55 AF golf course in-lieu replenishment and 68.8 AF 4-party agmt in-lieu replenishment

2011 = 411.1 AF golf course in-lieu replenishment



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Page 1 of 1

Thursday, December 22, 2011

Lab Number: AA82887

Collection Date/Time: 12/1/2011 11:15
Submittal Date/Time: 12/1/2011 15:55

Sample Collector: LINDBERG, T
Sample ID

Sample Description: Sand City Corp Yard

Analyte	Method	Unit	Result	Qual	PQL	MCL	Date Analyzed
Alkalinity, Total (as CaCO3)	2320B	mg/L	136		2		12/1/2011
Ammonia-N	4500NH3 D	mg/L	1.33		0.05		12/15/2011
Boron	EPA200.7	mg/L	1.39		0.05		12/8/2011
Bromide	EPA300.0	mg/L	0.67		0.05		12/2/2011
Calcium	EPA200.7	mg/L	33		0.5		12/8/2011
Chloride	EPA300.0	mg/L	326		1	250	12/2/2011
Fluoride	EPA300.0	mg/L	3.70		0.10	2.0	12/2/2011
Hardness (as CaCO3)	2340B	mg/L	107		10		12/9/2011
Iron	EPA200.7	ug/L	Not Detected		10	300	12/8/2011
Magnesium	EPA200.7	mg/L	6		0.5		12/8/2011
Manganese, Total	EPA 200.7	ug/L	29		10	50	12/8/2011
Nitrate as NO3	EPA300.0	mg/L	28		1	45	12/2/2011
Nitrite as NO2-N	EPA300.0	mg/L	Not Detected		0.05	1.00	12/2/2011
o-Phosphate-P	EPA300.0	mg/L	Not Detected		0.05		12/2/2011
pH (Laboratory)	4500-H+B	STD. Units	7.6				12/1/2011
Potassium	EPA200.7	mg/L	4.8		0.1		12/8/2011
QC Anion Sum x 100	Calculation	%	99%				12/9/2011
QC Anion-Cation Balance	Calculation	%	0				12/9/2011
QC Cation Sum x 100	Calculation	%	99%				12/9/2011
QC Ratio TDS/SEC	Calculation		0.56				12/8/2011
Sodium	EPA200.7	mg/L	314		0.5		12/8/2011
Specific Conductance (E.C)	2510B	umhos/cm	1604		1	900	12/1/2011
Sulfate	EPA300.0	mg/L	165		1	250	12/2/2011
Total Diss. Solids	2540C	mg/L	906		10	500	12/5/2011
Total Organic Carbon	SM5310C	mg/L	0.57	E	0.20		12/5/2011

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

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ELAP Certification Number: 2385

Lab Number: AA86360

Collection Date/Time: 4/3/2012 15:00 Sample Collector: LINDBERG, T
 Submittal Date/Time: 4/3/2012 15:40 Sample ID

Sample Description: Sand City Corp. Yard

Analyte	Method	Unit	Result	Qual	PQL	MCL	Date Analyzed
Alkalinity, Total (as CaCO3)	2320B	mg/L	131		2		4/12/2012
Ammonia-N	4500NH3 D	mg/L	1.25		0.05		4/9/2012
Boron	EPA200.7	mg/L	1.08		0.05		4/11/2012
Bromide	EPA300.0	mg/L	0.68		0.10		4/5/2012
Calcium	EPA200.7	mg/L	38		0.5		4/11/2012
Chloride	EPA300.0	mg/L	291		1	250	4/5/2012
Fluoride	EPA300.0	mg/L	3.54		0.10	2.0	4/5/2012
Hardness (as CaCO3)	2340B	mg/L	136		10		4/20/2012
Iron	EPA200.7	ug/L	Not Detected		10	300	4/11/2012
Magnesium	EPA200.7	mg/L	10		0.5		4/11/2012
Manganese, Total	EPA 200.7	ug/L	19		10	50	4/11/2012
Nitrate as NO3	EPA300.0	mg/L	30		1	45	4/5/2012
Nitrite as NO2-N	EPA300.0	mg/L	Not Detected		0.10	1.00	4/5/2012
o-Phosphate-P	EPA300.0	mg/L	Not Detected		0.10		4/5/2012
pH (Laboratory)	4500-H+B	STD. Units	7.3				4/3/2012
Potassium	EPA200.7	mg/L	5.3		0.1		4/11/2012
QC Anion Sum x 100	Calculation	%	95%				4/16/2012
QC Anion-Cation Balance	Calculation	%	-2				4/20/2012
QC Cation Sum x 100	Calculation	%	90%				4/20/2012
QC Ratio TDS/SEC	Calculation		0.59				4/10/2012
Sodium	EPA200.7	mg/L	251		0.5		4/11/2012
Specific Conductance (E.C)	2510B	umhos/cm	1532		1	900	4/5/2012
Sulfate	EPA300.0	mg/L	152		1	250	4/5/2012
Total Diss. Solids	2540C	mg/L	897		10	500	4/5/2012
Total Organic Carbon	SM5310C	mg/L	0.70	E	0.20		4/12/2012

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
 H = Analyzed outside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

WATER QUALITY DATA SUMMARY
SAND CITY PUBLIC WORKS WELL
YEARS 2008-2012

Sample Date	Calcium mg/L	Sodium mg/L	Magnesium mg/L	Potassium mg/L	Bicarbonate mg/L	Sulfate mg/L	Chloride mg/L	Nitrate-as- NO ₃ mg/L	Fluoride mg/L	Iron ug/L	Manganese ug/L	Orthophosphate-as P mg/L	Boron mg/L	Bromide mg/L	pH
February 26, 2008	44	215	10	6.0	158.6	134	237	39	2.23	<0.1	<0.02	<0.2	0.88	0.7	7.7
August 15, 2008	46	172	9	5.6	126.88	116	202	60	1.57	<0.1	0.025	0.4	0.76	0.7	7.6
July 6, 2009	45	140	11	6	114.68	95	158	56	0.54	<0.05	0.022	<0.05	0.46	0.6	7.5
July 30, 2010	42	196	9	5.5	131.76	125	232	29	2.17	0.016	<0.02	<0.05	0.67	0.39	7.2
July 26, 2011	39	275	9	5.1	158.60	174	330	19	4.17	<0.01	0.022	<0.05	1.05	0.94	7.9
December 1, 2011	33	314	6	4.8	165.92	165	328	28	3.7	<0.01	0.029	<0.05	1.39	0.67	7.6
April 3, 2012	38	251	10	5.3	160	152	291	30	3.54	<0.01	0.019	<0.05	1.08	0.68	7.3