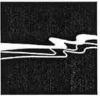
### Las Ventanas Ranch Mutual Benefit Water Company

#### **Technical Engineering Report for a Domestic Water System**

June, 2008

Prepared by:



WALLACE GROUP

612 Clarion Court San Luis Obispo, CA 93401 (805) 544-4011

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#### LAS VENTANAS RANCH MUTUAL BENEFIT WATER COMPANY

In the County of San Luis Obispo

#### **Engineer's Statement**

The water supply, distribution, and fire protection system for the Las Ventanas Ranch Mutual Benefit Water Company system (Tract 2408 – Phase 2) in the County of San Luis Obispo will adequately, dependably, and safely meet the total requirements for all water consumers under maximum consumption as defined by the CC&Rs for the development, County of San Luis Obispo standards, County Health requirements, State Health requirements, and California Division of Forestry (CDF) requirements, and will meet the requirements of Section 14314.

#### **Consent of Expert**

I, Robert S. Miller, RCE 57474, hereby consent to the inclusion of, or reference to the Engineer's Report (Technical Report) and to the inclusion of my name in the prospectus or offering circular for the Las Ventanas Ranch Mutual Benefit Water Company system.

Robert S. Miller, RCE 57474

Certification appurtenant to Technical Report dated June, 2008

PROFESSIONAL PROPERTY S. MILLER S. M

#### I. General Water System Information

<u>Introduction</u>: The Las Ventanas Ranch Mutual Benefit Water Company (Company) will be formed to service the residential needs of the east side of Tract 2408, Biddle Ranch East Development. Tract No. 2408 is located approximately 3 miles northeast of the city of Arroyo Grande in the San Luis Bay, Huasna, and San Luis Obispo Planning Areas.

Talley Farms is the developer of the 4,560-acre Biddle Ranch East Site, designated for agricultural use. This site includes 3,800 acres of open space.

Biddle Ranch East is located on the east side of Lopez Drive, south of Orcutt Road and includes 55 residential lots with an average size of 2.17 acres per lot. The project will use two on-site wells for water supply and individual septic systems for wastewater treatment and disposal.

<u>Service Connections and Types of Service Connections</u>: Biddle Ranch is comprised of 55 residential lots with an average size of 2.17 acres.

Type of Users: Biddle Ranch East will be limited to single-family lots. There will be no industrial or agricultural uses of water within the limits of Biddle Ranch East. The planning documents include a clause that requires drought tolerant plants to be used for planting outside of a 30-foot envelope surrounding buildings; and irrigation will likely be limited to within this envelope.

Consolidation Evaluation: The nearest public water system to Biddle Ranch East is the City of Arroyo Grande. The distance between Biddle Ranch East and City of Arroyo Grande is 3 miles. It was deemed impractical to connect Biddle Ranch East with the City because the cost of running a supply main would be greater than forming a decentralized supply system. In addition, the operational logistics of monitoring and maintaining the satellite system would be more costly than creating a separate mutual water company.

Map of Facilities: Figure 1 shows a site plan of the Biddle Ranch East Development Project, including the proposed water distribution system. The location of the well, storage tank, and primary transmission lines are identified on Figure 1.

#### **II. Source Water Information**

Description of Source and Water Rights: Biddle Ranch East's water comes exclusively from the Arroyo Grande Valley Sub Basin (AGVS) within the Santa Maria Groundwater Basin. Certain sub basins within the Santa Maria Groundwater Basin are in the process of being adjudicated, including Arroyo Grande Valley (though Arroyo Grande Valley continues to be unadjudicated). Talley Farms is in the process of converting 281 acres of vegetable cropland from furrow and sprinkler irrigation to drip irrigation to meet the domestic water demand without straining the groundwater resources of the AGVS. This conversion will save approximately 300 acre-feet of water per year, which more than compensates for the 14 acre-feet demand posed by Biddle Ranch East.

<u>Water Quantity</u>: Water supply for the Company consists of two wells located approximately 240 feet south of the covered bridge on the property and east of Lopez Drive. The wells are designated as Well A (primary) and Well B (secondary).

The primary well (Well A) was drilled on October 10, 2005. (State well number 2005-354). Well A was drilled to a completed depth of 140'; the static water level is 25' below the ground surface. The well has an 8-inch F480/PVC (SDR-21) casing to 80' and an 8-inch perforated F480/PVC (SDR-21) casing to 120'. The annular seal is cemented down to 50', and there is a pea gravel filter pack that extends from 50' to 140'. The well completion report indicates an estimated yield of greater than 500 gpm, though no pump test data is referenced. A Well Completion Report for this well is included as Exhibit A.

The secondary well (Well B) located approximately 168 ft south of Well A, was drilled on October 10, 1975. It was originally designated the Pennington Well. (State well number is not registered on the available drilling log). Well B was drilled to a completed depth of 80'; the static water level is 22' below the ground surface. The well has a 10-inch casing. The annular seal is cemented down to 35', and there is a pea gravel filter pack that extends from 35' to 80'. A Well Completion Report for this well is included as Exhibit A.

Biddle Ranch East is permitted for a maximum of 55 single-family residential lots, and an entry building. Drought tolerant plants are required to be used for landscaping in all public areas, except within a 30-foot envelope around residences. Calculations for water storage and supply water required by the Biddle Ranch East are collected in Exhibit B. These calculations were performed by the Wallace Group in accordance with the San Luis Obispo County Department of Public Works, "Standard Improvement Specifications and Drawings".

<u>Assessment of Vulnerability to Contamination</u>: A Drinking Water Source Assessment and Protection (DWSAP) Program Report is will completed in the future with the assistance of the County Health Department.

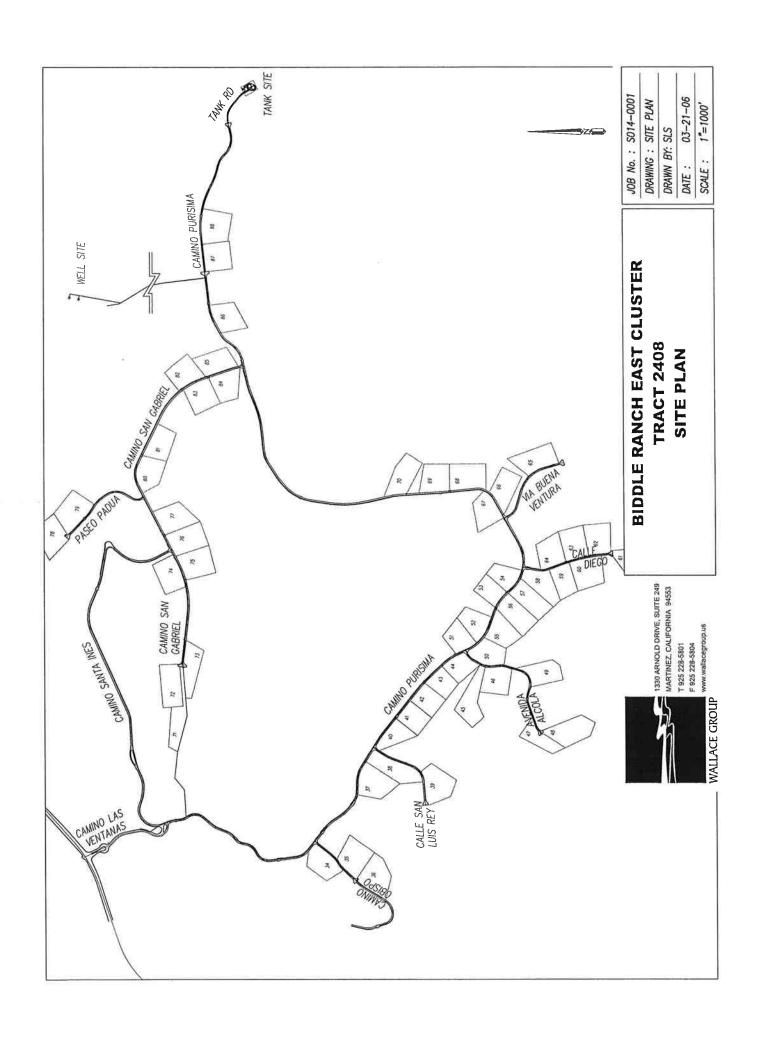
<u>Water Quality</u>: Water quality has been tested from each of the water supply wells. The water meets all requirements for primary drinking water standards. The well water also meets the recommended levels of the secondary drinking water standards. Provisions for future iron/manganese removal have been provided if needed. A chlorination system will be used to pre-treat the water.

#### III. Treatment and Design Information

<u>Description and Layout Design Capacities</u>: The domestic water supply system is comprised of two wells, each equipped with 120 gpm pumps, a 6-inch Class-350 Ductile Iron Pipe and a 6-inch Class-150 C900 dedicated supply line, sodium hypochlorite injection, two 166,000 gallon bolted steel tank (with 155,650 gallons of actual storage for each), and a gravity distribution system.

Well Construction: Well pumps were selected to meet the average daily demand of Biddle Ranch East as outlined in the San Luis Obispo County Standards. Based on 55 lots and one acre of parks and open space landscaping, the average daily demand of Biddle Ranch East will be approximately 22,400 gallons per day. One well pump, rated at 120 gpm, will supply the average daily demand in about 3 hours of pumping. Well pumps will meet the average daily residential flow for the maximum month (1/3 of the peak hourly residential) as required by SLO County Engineering Department. Proposed electrical service for the well pumps is oversized – for potential upgrades, if necessary.

Treatment Chemicals & Disinfection Facilities: Domestic water will be treated at the storage tank site, prior to entering the tank. Sodium hypochlorite will be used for disinfection prior to entering the storage tanks. The chemical feed will be able to meter sodium hypochlorite to flows up to the peak design flowrate of 220 gpm, with both wells in operation. The dose will be about 0.6 mg/L, and will be adjusted to obtain a 0.2 mg/L residual. The system will use less than 1 gallon of sodium hypochlorite per day. The layout of the treatment system is displayed on Sheet W-5 of the approved construction drawings.



#### IV. Distribution System Information

Location & Water Mains: Exhibit C displays an overview of the water distribution system. In addition, Sheet W-1 of the approved plans shows details of pipe sizes and materials for each pipe segment, pressure reducing station locations, and static pressures at each lot.

Water flows by gravity from the tank site to all lots at Biddle Ranch East. Due to the significant elevation drop across the site, four pressure reducing stations will be constructed, creating four distinct pressure zones.

Zone 1: All pipe segments between the tank site and PRV 2, on the eastern portion of the project site.

- Roads: Camino Purisima STN 67+28 to "end", Tank Road, Calle Diego, and Via Buena Ventura.
- Lot 58, 59 to 70 & Lots 86 to 88.

Zone 2: All pipe segments between PRV 2 and PRV 3, on the south branch of the system.

- Roads: Camino Purisima STN 38+00 to 67+28, Calle San Luis Rey, and Avenida Alcola.
- Lots 37 to 57 (or 58)

Zone 3: All pipe segments between PRV 1 and PRV 4, on the north branch of the system.

- Roads: Camino San Gabriel and Paseo Padua.
- Lots 71 to 85

Zone 4: All pipe segments between PRV 3 and PRV 4, comprising the "loop" down to the entrance gate, on the western portion of the site.

- Roads: Camino Purisima STN 10+00 to 38+00, Camino Las Ventanas, Camino Obispo, and the non-road section from PRV 4 (near Lot 71) to Camino Purusima STN 10+00.
- Lots 34 to 36

Tables 1 & 2 in Exhibit C show residual pressures at hydrants and at lots following peak hour demand. Table 3 in Exhibit C lists the pipe materials for each segment of the distribution system.

<u>Pumping Stations and Storage Tanks</u>: Drawings (full size) of the wells and water storage were previously approved by the San Luis Obispo County Public Works Department and are on file with the Water Company. The distribution system will not have any pumping stations. Each of the two water storage tanks has 155,650 gallons of usable storage.

#### V. Operational Plans

A preliminary water quality monitoring plan for Biddle Ranch East is included in Exhibit D. Supplemental monitoring requirements will be issued periodically by the County Health Department.

#### VI. Environmental Documentation

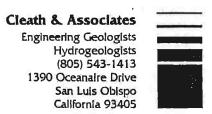
An environmental document was previously approved for the project in accordance with CEQA. A copy of the San Luis Obispo County Planning Commission staff report is on file with the Water Company.

#### VII. Amendments to the Permit

An amendment to the water permit will be submitted if any of the following changes occur:

- Change in ownership of the water system
- The addition of new water sources
- Any changes in the method of treatment
- The addition of any storage reservoirs
- A major expansion of the service area
- Any change in the distribution system that does not comply with the waterworks standards





April 12, 2006

Eileen Stephens Wallace Group 1330 Arnold Drive, Suite 249 Martinez, California 94553

SUBJECT: Well 1 and Well 2, Biddle Ranch-Phase II, Lopez Drive, Arroyo Grande, California.

Dear Ms. Stephens:

Cleath & Associates has completed the supervision and data collection of 72-hour constant rate discharge tests and recovery tests for Well 1 (New Well) and Well 2 (Old Well) for Biddle Ranch – Phase II. The wells are located on Pennington Ranch, Lopez Drive, Arroyo Grande, California. The 72-hour pump tests were performed simultaneously from March 20 to 23, 2006. Well 1 was pumped at an average rate of 200 gallons per minute (gpm) throughout the test and Well 2 was pumped at an average rate of 190 gpm throughout the test. The well locations are shown on Figure 1. Water quality samples were obtained by Cleath & Associates two hours after the start of the test and submitted to Creek Environmental Laboratory for analysis.

#### Well 1 (New Well)

Well 1 was drilled and constructed in October 2005 by Central Coast Drilling, Inc. The well was completed to a depth of 140 feet, and screened from 80 to 140 feet depth. The cement sanitary seal extends to 50 feet depth. The Well Completion Report is included in Appendix A.

Prior to the beginning of the pump test the static water level was measured at 25.98 feet below the top of the well casing. At the end of the test, the pumping water level was 27.35 feet below the top of the well casing. Water levels dropped a total of 1.37 feet during the test. A 55-minute recovery test was conducted at the well following the pump test, beginning when the pump was shut off. During this time water levels recovered to 26.16 feet below the top of the casing, or within 0.18 feet of the static water level. The pump test data and graphs are included in Appendix B.

#### Water Quality - Well 1

Ground water quality samples were analyzed for general mineral, general physical, inorganics, boron, volatile organic compounds, semi-volatile organic compounds, and gross alpha and beta radionuclides. There were no sample results exceeding the maximum contaminant levels (MCL) established by the California Department of Health Services (DHS) for drinking water. However, the iron concentration in the sample from Well 1 was 0.3 milligrams per liter (mg/l) which is equivalent to the secondary drinking water standards MCL for iron. Contaminants listed by the DHS under secondary standards are regulated to maintain the aesthetic qualities of the water. Their presence in tap water does not pose a health hazard. The laboratory reports are included in Appendix C.



#### Well 2 (Old Well)

Well 2 was drilled and constructed in October 1975 by Arroyo Water Well Supply. According to the driller's log, the well was completed to a depth of 80 feet, with 20 feet of screen. The log did not indicate the specific screened interval or the depth of the sanitary seal. The drilling log is included in Appendix A.

Prior to the beginning of the pump test the static water level was measured at 24.83 feet below the top of the well casing. At the end of the test, the pumping water level was 26.35 feet below the top of the well casing. Water levels dropped a total of 1.52 feet during the test. A 56-minute recovery test was conducted at the well following the pump test, beginning when the pump was shut off. During this time water levels recovered to 25.07 feet below the top of the casing, or within 0.24 feet of the static water level. The pump test data and graphs are included in Appendix B.

#### Water Quality - Well 2

Ground water quality samples were analyzed for volatile organic compounds, semi-volatile organic compounds, and gross alpha and beta radionuclides. A water quality sample was obtained at Well 2 by others in July 2005, and analyzed by Creek Laboratories for general minerals, general physical, and inorganics. There were no sample results exceeding the MCLs established by the DHS for drinking water. The laboratory reports are included in Appendix C.

#### Conclusions

The pump test results indicate that there is minimal drawdown in Wells 1 and 2, and there is insignificant pumping interference from one well to the other. Water quality results indicate that the ground water produced by the two wells is suitable for domestic use.

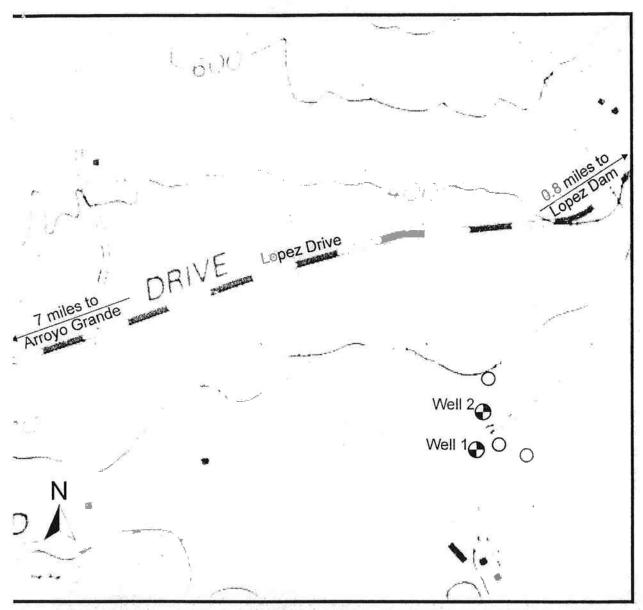
Based on the pump test results, we recommend installing a pump capable of producing 200 gpm in each well, with a pump setting of 75 feet depth in Well 1. We recommend that a down-hole video camera be used to determine the screened interval in Well 2 and that a pump be installed three to five feet above the top of the screened interval. If you have any questions regarding this letter, please contact our office.

Sincerely,

David R. Williams
Associate Geologist

Out R. Well-

Attachments



purce: U.S. Geological Survey 7.5 Minute Series topographic map, Arroyo Grande NE Quadrangle (1965).

cale: 1 inch = 500 feet ontour interval = 40 feet

#### xplanation

- Project Well
- Existing Pennington Ranch Well

Figure 1 Location Map Biddle Ranch Phase II Pennington Ranch

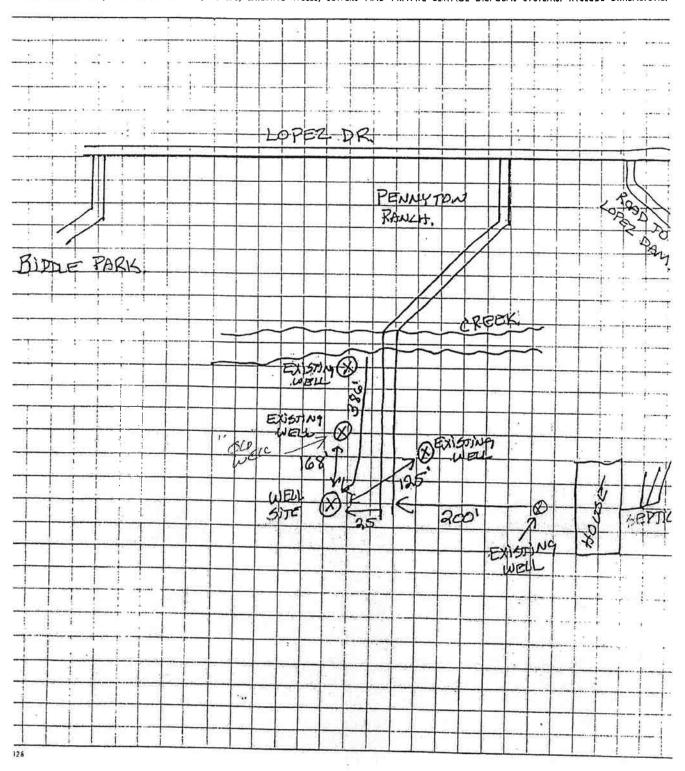
Cleath & Associates

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AN LUIS OBISPO COUNTY HEALTH DEPARTMENT 156 SIerra Way an Luis Obispo, California 93401 alephone; 805-781-5544

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INDICATE BELOW THE EXACT LOCATION OF WELL WITH RESPECT TO THE FOLLOWING ITEMS: PROPERTY LINES, WATER BODIES OR WATER COURSES, DRAINAGE PATTERN, ROADS, EXISTING WELLS, SEWERS AND PRIVATE SEWAGE DISPOSAL SYSTEMS. INCLUDE DIMENSIONS.



#### DRILLING LOG

### **Arroyo Water Well Supply**

P. O. Box 157 Arroyo Grande, Calif. 489-2258

12	Date	lan	of Well	Drill	Depth	Casing
	LORIN A. PENNINGTON	rog	01 41611	Pipe	Бери	Cosmig
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	f Pump	<u></u>	E	. 8		9
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L .	70P SOIL	FI		13		1.4
9	CLAY	150	450	14		15
.25	GRAVEL AND CLAY	FI	FI	15		16
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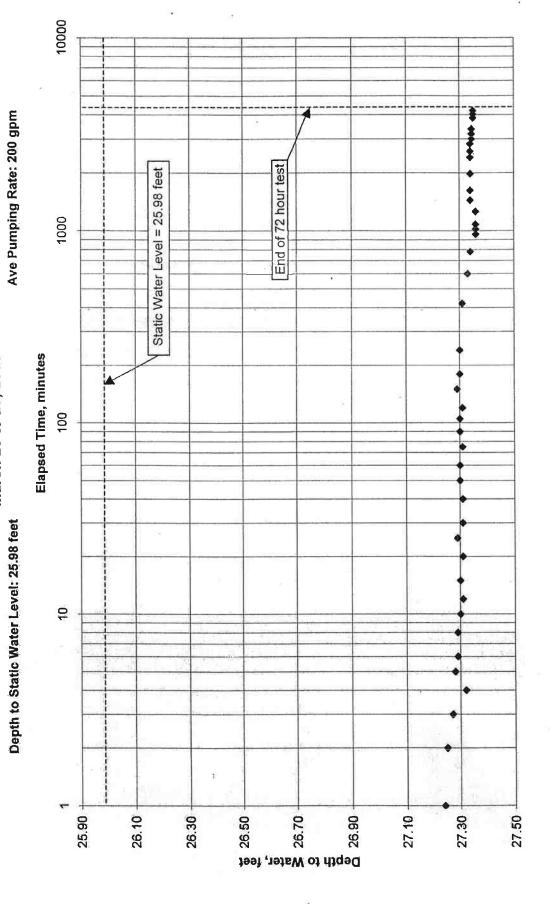
Water Well Supply - 182 BRISCO ROAD V ARROYO GRANDE, CALIF. 489-2258 WELL LOCATION. FORMATION ENCOUNTERED DATE TOTAL REMARKE

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
Day/Yr	hr:min	minutes	feet	feet	gallons per minute
/2006	14:40	0	25.98	0	200
	14:41	1	27.24	1.26	200
	14:42	2	27.25	1.27	200
	14:43	3	27.27	1.29	200
	14:44	4	27.32	1.34	200
	14:45	5	27.28	1.30	200
	14:46	6	27.29	1.31	200
	14:48	8	27.29	1.31	200
	14:50	10	27.3	1.32	200
	14:52	12	27.31	1.33	200
	14:55	15	27.3	1.32	200
	15:00	20	27.31	1.33	200
	15:05	25	27.29	1.31	200
	15:10	30	27.31	1.33	200
	15:20	40	27.31	1.33	200
	15:30	50	27.3	1.32	200
	15:40	60	27.3	1.32	200
	15:55	75	27.31	1.33	200
	16:10	90	27.3	1.32	200
	16:25	105	27.3	1.32	200
	16:40	120	27.31	1.33	200
	17:10	150	27.29	1.31	200
	17:40	180	27.3	1.32	200
	18:40	240	27.3	1.32	200
	21:40	420	27.31	1.33	200
1/2006	0:40	600	27.33	1.35	200
1/2000	3:40	780	27.34	1.36	200
	6:40	960	27.36	1.38	200
	7:40	1020	27:36	1.38	
	8:40	1080	27.36	1.38	200 200
	11:40	1260	27.36	1.38	
	14:40	1440	27.34	1.36	200 200
	17:40	1620	27.34	1.36	200
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2/2000	22:40	3360	27.345	1.37	200
3/2006	6:40	3840	27.35	1.37	200
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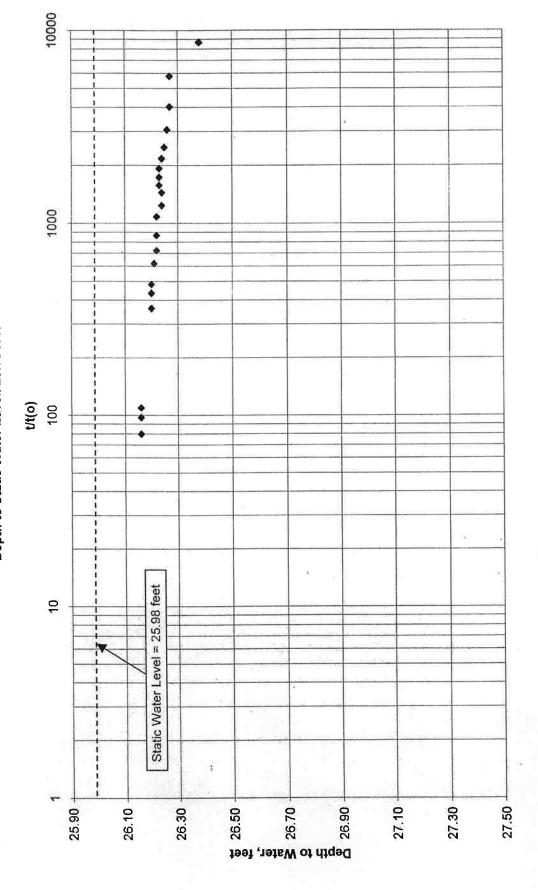
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Day	Time	Elapsed Time	Depth to Water	Elapsed Time	Recovery Time Ratio
Day/Yr	hr:min	minutes	feet	minutes	t/t(0)
very		t	S	t(0)	t/t(0)
3/2006	14:55	4335.25	26.40	0.25	17341
	14:55	4335.50	26.38	0.5	8671
	14:55	4335.75	26.27	0.75	5781
	14:56	4336.08	26.27	1.08	4015
	14:56	4336.42	26.26	1.42	3054
	14:56	4336.75	26.25	1,75	2478
	14:57	4337.00	26.24	2:00	2169
	14:57	4337.25	26.23	2,25	1928
	14:57	4337.50	26.23	2.50	1735
	14:57	4337.75	26.23	2.75	1577
	14:58	4338.00	26.24	3,00	1446
	14:58	4338.50	26.24	3.50	1240
	14:59	4339.00	26.22	4.00	1085
	15:00	4340.00	26.22	5.00	868
	15:01	4341.00	26.22	6.00	724
	15:02	4342.00	26.21	7.00	620
	15:04	4344,00	26.20	9:00	483
	15:05	4345.00	26.20	10.00	435
	15:07	4347.00	26.20	12.00	362
	15:35	4375,00	26.16	40.00	109
	15:40	4380.00	26.16	45.00	97
	15:50	4390.00	26.16	55.00	80

Pumping Test (72 hour) - Pennington Well #1 (New Well) March 20 to 23, 2006



Recovery Test - Pennington Well #1 (New Well)
March 23, 2006
Depth to Static Water Level: 25.98 feet



Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
./Day/Yr	hr:min	minutes	feet	feet	gallons per minute
0/2006	14:30	0	24.83	0	190
	14:31	1	26:08	1.25	190
	14:32	2	26.08	1.25	190
	14:33	3	26.08	1.25	190
	14:34	4	26.08	1.25	190
	14:35	5	26.08	1.25	190
	14:36	6	26.08	1.25	190
	14:38	8	26.08	1.25	190
	14:40	10	26.13	1.30	190
	14:42	12	26.16	1.33	190
	14:45	15	26.17	1.34	190
	14:50	20	26.19	1.36	190
	14:55	25	26,20	1.37	190
	15:00	30	26.21	1,38	190
	15:10	40	26.21	1.38	190
	15:20	50	26.22	1.39	190
	15:30	60	26,22	1.39	190
	15:45	75	26.23	1.40	190
	16:00	90	26.23	1.40	190
	16:15	105	26.23	1,40	190
	16:30	120	26.24	1.41	190
	17:00	150	26.26	1.43	190
	17:30	180	26.26	1.43	190
	18:30	240	26.27	1.44	190
	21:30	420	26,28	1.45	190
21/2006	0:30	600	26.29	1,46	190
21/2000	3:30	780	26.30	1.47	190
	6:30	960	26.33	1.50	190
	7:30				
	8:30	1020 1080	26.33 26.34	1.50 1.51	190
	11:30	1260			190
	14:30		26.33 26.33	1.50	190
	17:30	1440 1 <b>62</b> 0		1.50	190
			26.34	1.51	190
2000	23:30	1980	26.34	1.51	190
22/2006	6:30	2400	26.34	1.51	190
	9:30	2580	26.34	1.51	190
	13:30	2820	26.34	1.51	190
	16:30	3000	26.35	1.52	190
	19:30	3180	26.35	1.52	190
NO MODE	22:30	3360	26.35	1.52	190
23/2006	6:30	3840	26.35	1.52	190
	9:30	4020	26.35	1.52	190
	12:30	4200	26.35	1.52	190
	14:34	4324			190
2002.010	STOP	W-II A IO	Well), March 23, 20	00	

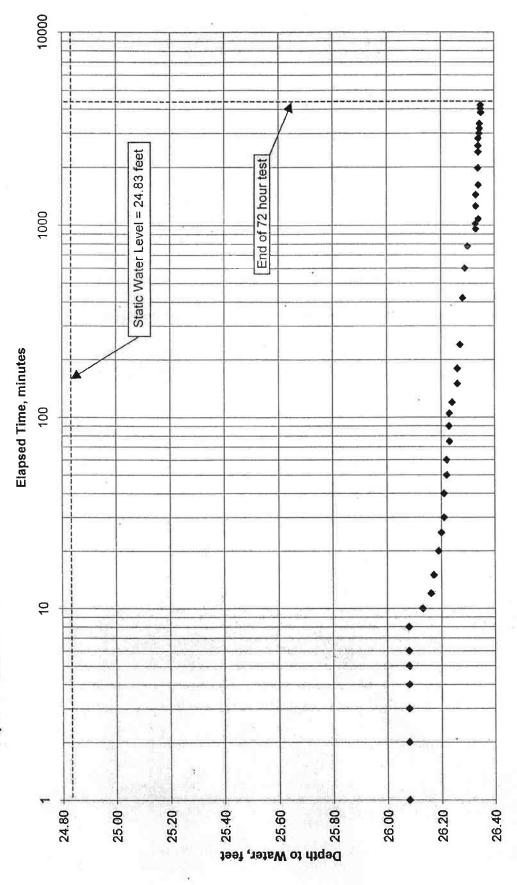
overy Test, Pennington Well 2 (Old Well), March 23, 2006

Day	Time	Elapsed Time	Depth to Water	Elapsed Time	Recovery Time Ratio
/Day/Yr	hrmin	minutes	feet	minutes	t/t(0)
very		t.	S	t(0)	t/t(0)
3/2006	14:34	4324.45	25.29	0.45	9610
	14:34	4324.83	25.25	0.83	5211
	14:35	4325:00	25,28	1.00	4325
	14:35	4325.33	25.29	1.33	3252
	14:35	4325.67	25.28	1.67	2590
	14:36	4326.00	25.22	2.00	2163
	14:36	4326.50	25.23	2.50	1731
	14:37	4327.00	25.22	3.00	1442
	14:38	4328.00	25.21	4:00	1082
	14:39	4329.00	25.21	5.00	866
	14:40	4330.00	25.21	6.00	722
	14:41	4331.00	25.21	7.00	619
	14:42	4332.00	25.21	8.00	542
	14:43	4333.00	25.21	9:00	481
	14:44	4334.00	25.21	10.00	433
	15:10	4360.00	25:09	36.00	121
	15:20	4370.00	25.08	46:00	95
	15:25	4375.00	25.08	51.00	86
	15:30	4380.00	25.07	58.00	78

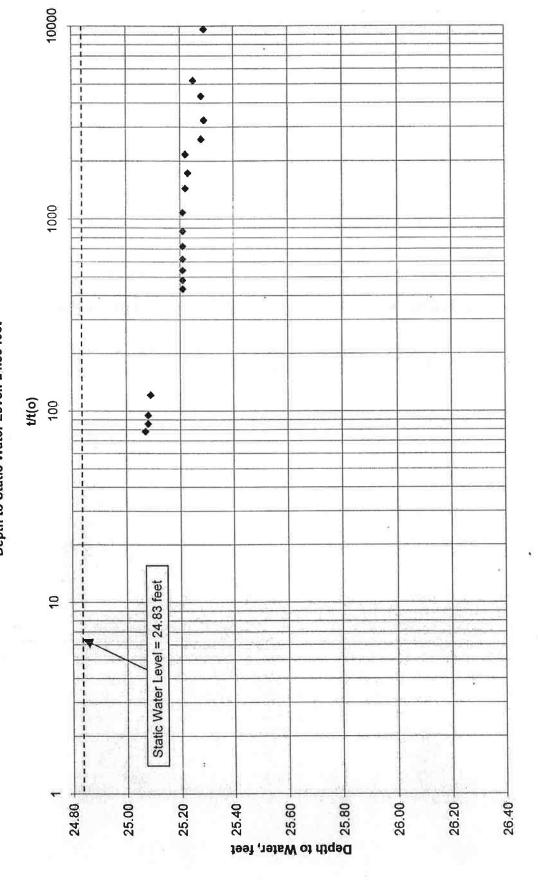
Pumping Test (72 hour) - Pennington Well #2 (Old Well) March 20 to 23, 2006



Ave Pumping Rate: 190 gpm



Recovery Test - Pennington Well #2 (Old Well)
March 23, 2006
Depth to Static Water Level: 24.83 feet





### CREEK ENVIRONMENTAL LABORATORIES, INC.

141 SUBURBAN ROAD, SLITE C-5 - SAN EUIS OBISPO, CA 91401 + (805) 545-9838 - FAK (805) 545-0107

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Ryan Talley Talley Farma P.O. Box 160 Arroyo Granda, CA 93420 Log Number: 06-C3344 Order: N1588 Received: 03/20/06

#### REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION		PLED BX			DATE & TIME MATRIX				
Well #1 now well (Well A)				03/20/064					
以以对台灣田區以下下作作以及日本日刊日刊日刊 · · · · · · · · · · · · · · · · ·	<b>美国</b> 国	P보복무장교립교통문학	45445366	** ======	2 <del>2 2 2 2</del> 2 2 2 2 2 2 2 2 2 2 2 2 2 2		作の状態はなるなる		
ANALYTE		RESULT	DLR	UNITS	HETH		ANALYZED		
Total Alkalinity as Cacos		250	2	mg/L	SM 2	3208	03/24/06		
Chloride		21	L	mg/L	EFA :	0.00	03/21/06		
Total Cyanide	Not	Detected	0.005	mg/L	EFA	335.2	03/22/06		
Color	Not	Detected	7	unita	SM 2	1209	03/20/06		
Slectrical Conductance		820	1	umhos/cm	SM 3	510	03/20/06		
Pluoride		0,3	0.1	mg/L	EPA	300.0	03/21/06		
Langlier Index (Corresivity)		0.2	-	pH unics	SM 2	330B	03/30/06		
MBAS (Anionic Surfactuate MW=340)	Not	Detected	0.05	mg/L	SM 5	640 C	03/22/06		
Nitrate as N		0.4	0.1	ng/L	EPA	300.0	03/21/06		
Nitrate as NO3		1.8	0.4	mg/L	EPA	G.ODE			
Nitrito as N	Not	Detected	0.1	mg/L	PPA	300.0	03/21/06		
Ödor	Not	Detected	1	TON	5M 2	150B	03/20/06		
рИ		7.3	0.0	unice	BPA	150.1	03/20/06		
Sulface		170	0.5	mg/L	EPA	BDO. Ö	03/21/06		
Total Dissolved Solids		540	10	m3/L	EPA	160.1	03/22/06		
Turbidity		0.7	0,1	NTU	BPA	100.1	03/20/06		
Calcium		92	6.03	mg/I.		200.7	03/28/06		
Hardnegg		410	1	mg/L CaCO3	2PA	200.7	8		
Iron		0.3	0.1	mg/L	EPA	200.7	03/29/06		
Mercury	Not	Detected	0.001	mg/L	EPA	245.1	03/24/05		
Potaggium		2.3	O.L	mg/L	BPA	200.7	03/28/06		
Magnesium		43	0.03	mg/L	EPA	200,7	03/28/05		
Sodium		15	0.05	mg/L	EPA	200.7	03/28/06		
Benzene	Not	Detected	0.5	ug/L	BPA	\$24.2	03/22/06		
Bromobenzene '	Not	Decected	0.5	ug/L	BPA	524.2	03/22/06		
Bromochloromethane	Not	Detected	0.5	ug/L	EPA	524.2	03/22/06		
Bromodichloromethane	Not	Detected	0.5	vg/L	ZPA	524.2	03/22/06		
Bronoform	Not	Detected	0.5	ug/L	EPA	524.2	03/22/05		
Bromomethane	Not	Detected	0.5	ug/L	EPA	524.3	03/22/06		
t-Butyl Alcohol (TRA)	Not	Detected	2	ug/L	EPA	524.2	03/22/06		
c-Bucylbenzena	Not	Detected	0.5	ug/L	EPA	524.2	03/22/06		



# CREEK ENVIRONMENTAL LABORATORIES, INC. A Minority-owned Business Enterprise 141 SUBURBAN ROAD, SUITE CS - SAN LLIS DBISPO, CA 93401 - (803) 545-9838 - FAX (803) 545-0107

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Ryan Talley Talley Farms P.O. Box 360 Arroyo Grande, CA 93420 Log Number: 05-C1344 Order: N1588 Received: 03/20/06

#### ARPORT OF AVALITICAL RESULTS

		Sampled		
SAMPLE DESCRIPTION	SAMPLED BY	DATE & T	THE MATRIX	
<b>北起会自由其间中自由主义主义工作事情既然得到知识和以终相加足所以</b>	当日本本本本共享更新 <b>的</b> 原则	· 西田田村内京市市市市 東京教育市田田大	<b>建筑设备的 医金属性原始的现</b>	Description
Well #1 new well		03/20/06	e16:15 Drinking W	ater
<b>工具 化化性系统 网络阿拉伯拉拉拉拉拉拉拉拉斯 医电影 医眼睛 医甲状腺炎 计</b>	· 克里里拉拉克里里克拉克 4 多有的	THE PROPERTY AND ADDRESS OF	医克里氏征 医二甲甲基甲基	
AVALYTE	TLUCAS	DLR UNITS	METHOD	ANALYZED
Beryllium	Not Detected	0.001 mg/L	EPA 200.8	03/29/06
Baron	0.06	0.05 mg/L	EPA 200.8	03/29/05
Cadmium	0.001	0.001 mg/L	EPA 200.8	03/29/06
Chromium	Not Detected	0.01 mg/L	EPA 200.8	03/29/06
Coppex	Not Detected	0.05 mg/L	EPA 200.8	03/29/06
Lead	Not Detected	0.005 mg/L	BPA 200,8	03/29/06
Manganese	0.042	0.02 mg/L	EPA 200.8	03/29/06
Nickel	Not Detected	0.01 mg/L	EPA 200.8	03/29/06
Selenium	Not Detected	0.005 mg/L	EPA 200.8	03/29/06
Silver	Not Detected	0.01 mg/L	EPA 200.8	03/29/06
Whall ium	Not Detected	0.001 mg/L	EPA 200.8	03/29/06
Zinc	Not Detected	0,05 mg/L	EPA 200.8	03/29/06

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Diractor, Michael Ng





### CREEK ENVIRONMENTAL LABORATORIES, INC.

141 SUBURBAN ROAD, SUITE C-5 . SAN LUIS OBISPO, CA 93401 . (805) \$45-9838 . FAX (805) \$45-0107

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Ryan Talley Tulley Farms P.O. Box 360 Arroyo Grande, Ch 93420

Log Number: 05-C3344 Order: N1588 Received: 03/20/06

#### REPORT OF AMALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY		SAMPLED DATE 4		
· · · · · · · · · · · · · · · · · · ·	· 通知年四月四年二日日日日	<b>电影的 医多种性 医</b>			
Well #1 new well			, ,	6416:15 Drinking	- ·
ANALYTE	RESULT	PLR	UNITS	METHOD	ANALYZED
n-Bucylbentene	Not Detected		ug/l	EPA 521.2	03/22/06
sec-Bucyl Benzene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
Carbon Tetrachloride	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
Chlorobenzeno	Not Detected	0.5	ug/L	EPA 524.2	03/32/06
Chloroethane	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
Chloroform	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
Chloromothane	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
2-Chloratoluene	Not Detected	0.5	ug/b	EPA 524.2	03/22/06
4-Chlorotolueno	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
Dibromochloromethane	Not Desected	0.5	ug/L	EPA 524.2	03/22/05
Dibromomethane	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
1,2-Dibromoethane (EDB)	Not Datected	0.5	ug/L	EPA 524.2	03/22/06
Dichlorodifluoromethane (R12)	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
1,2-Dichlorobenzene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
1,3-Dichlorobensone	Not Decected	0.5	ug/L	SPA 524.7	03/22/06
1,4-Dichlorobenzene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
1,1-Dichlorosthane	Not Datacted	0.5	ug/L	EPA 524.2	03/22/06
1,2-Dichloroethane (EDC)	Not Detected	0.5	ug/1	EPA 524.2	03/22/06
1,1-Dichloroethene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
cis-1,2-Dichloroethene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
trans-1, 2-Dichlosthene	Not Detected	0.5	ug/L	EPA 524.2	03/32/06
1,2-Dichlozopropana	Not Detected	0.5	ug/L	BPA 524.2	03/22/06
1, )-Dichloropropane	Not Detected	0.5	ug/L	EPA 524.2	03/33/06
1, 1-Dichloropropana	Not Detected	0.5	ug/L	EPA 524.2	03/32/06
1,1-Dichloropropene	Not Datacted	0.5	ug/L	EPA 524.2	03/23/06
cis-1, 3-Dichloropropene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
trans-1, 3-Dichleropropene	Not Detected	0.5	ug/L	EPA 524.2	03/23/06
Ethyl t-Bucyl Ether (ETBE)	Not Detected	0.5	ug/L	EPA 524:2	03/22/06
Schylbensene	Not Detected	0.5	ug/L	EPA 524.2	03/22/06
Hexachlorobutadiene	Not Detected	0.5	ug/L	EPA 524.2	03/22/05
Isopropylbenzene	Not Detected	0.5	ug/L	BPA 524.2	03/22/06



## CREEK ENVIRONMENTAL LABORATORIES, INC.

141 SUBURBAN ROAD, SUITE C-5 - SAN LUIS OBISPO, CA 93401 - (805) 545-9838 - FAX (805) 545-0107

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Ryan Talley Talley Farms P.O. Box 360 Arroyo Grande, CA 93420

Log Mumber: 06-C3344 Order: N1588 Raccived: 03/20/06

#### PEPORT OF AMALYTICAL RESULTS

				SAMPLED			
SAMPLE DESCRIPTION	SAM	PLED BY		DATE # T	IME	MATRIX	
维 到月刊民法政师与保护门北部战场保护的日祖职职事者证明 明显可引出日正	===		<b>电电电阻器设计器</b> :		***		*****
Well #1 new Well				03/20/06	916:15	Drinking W	later
<b>北京的现在分词 电电子分词 医二氏性 医克尔特氏 医克特氏征 化二甲基甲甲甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲</b>	M M ve	<		-		· · · · · · · · · · · · · · · · · · ·	****
ANALYTE		RESULT	DLR	UNITS	METHO	à	ANALYZED
*********				********			
Diisopropyl Ether (DIPE)	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
4-Isopropyltoluene	Not	Detacted	0.5	ug/L	EPA S	24.2	03/22/06
Mathylene Chlotide		1.3	0.5	ug/L	EPA 5	24.2	03/22/06
Methyl t-Buryl Ether (MIRE)	Not	Detected	0.5	ug/L	EPA 5:	24.2	03/22/06
Naphthalene	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
n-Propylbenzene	Not	Detected	Q.S	ug/L	EPA 57	24.2	03/22/06
Styrene	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
t-Amyl Mathyl Ether (TAME)	Not	Detected	0.5	ug/L	EPA 5	24.1	03/22/06
1, 1, 1, 2-Tetrachlorocthane	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
1,1,2.2-Tetrachloroothane	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
Tetrachlorosthene (PCE)	Mot	Detected	0.5	ug/L	EPA S	24,2	03/22/05
Toluene	Not	Detected	0.5	nā/r	EFA 5	24.2	03/22/06
1,2,3-Trichlorobenzene	Not	Detected	0.5	ug/L	EPA S	24.2	03/22/05
1.2,4-Trichlorobenzene	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
1,1,1-Trichloroethane	Not	Detected	0.5	ug/L	EPA S	24.2	03/22/06
1,1,2-Trichlorosthans	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
Trichloroethene	Not	Detected	D,S	ug/L	EPA 5	24,2	03/22/05
Trichloroflucromethane (F11)	Not	Datected	0.5	ug/L	EPA 5	24.2	03/22/05
1.2.3-Trichloropropane	Not.	Parected	0.5	ug/L	EPA S	24.2	03/22/06
1,2,4-Trimethylbenzene	Not	Detected	0.5	ug/L	EPA 5	24,2	03/22/06
1, J,5-Trimethylbenzene	Not	Detected	a.s	ug/L	EPA 5	24.2	03/22/06
Trichlorotrifluoroethane (F113)	Not	Detected	0.5	ug/L	BPA 5	24.2	03/22/06
Vinyl Chloride	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
m, p-Kylene	Not	Deterted	0.5	ug/L	EPA 5	24.2	03/22/06
o-Kylene	Not	Detected	0.5	ug/L	EPA 5	24.2	03/22/06
Total THM's	Not	Detected	0.5	ug/L	EPA 5	24.2	
Total Xylones	Noc	Detected	0.5	ug/L	EPA 5	24.2	
Aluminum	Not	Detacted	0.05	mg/L	EPA 2	00.8	03/29/06
Aritimony	Not	Decected	0.006	mg/L	EPA 2	8.00	03/29/06
Arsenic	Not	Detected	0.002	4	EPA 2	8.00	03/29/06
Barium	Not	Datected	0.1	mg/L	PPA 2	00.4	03/29/06

No. 6789

\* Shinking the state of the

Certificate of Analysis

**ELAP Certificate #1180** 

Report Issue Date: 04/06/2006

Orval Osborne

Creek Environmental Laboratories

141 Suburban Road Suite C5

San Luis Obispo, CA 93401

BSK Submission #: 2006031714

BSK Sample ID #: 702383

Project ID: N1588

Submission Comments:

Sample Type:

Liquid

Sample Description: Well I New Well (3344)

Sample Commonts:

Project Desc:

Data Sampled: 03/20/2006 Time Sampled: 1615 Date Received: 03/22/2006

Organics							Ртер	Analysis
Amalyts	Method	2cmit	Unite	PQL	Dilution	DLR	Date	Date
Bulachlar	EPA 325.2	מא	µe/L	0.38	1	0.38	03/25/2006	03/31/2006
Diazinos	EPA 525.2	ND	HB/I	0.25	1	0,25	03/25/2006	03/31/2006
Dimelhosic (Cygon)	EPA 525.2	ND	HELL	10	1	10	03/25/2006	03/31/2006
Metalachiar	EPA 525,1	ND	µg/L	0.5	1	0.5	03/25/2006	03/31/2006
Mctrihuzia	EPA 525.3	ND	µg/L	0.5	1	5.,0	03/25/2006	03/31/2006
Molinae (Ordram)	BPA 525,2	ND	Mg/L	2.0	1	2.0	03/25/2006	03/31/2006
Prometryn (Caparal)	EPA 525 2	ND	ME/L	2.0	1	2.0	03/25/2006	03/31/2006
Propachlor	EPA 525.2	ND	LIGHT	0,5	1	0.5	03/25/2006	03/31/2006
Signazine (Princep)	EPA 525.2	ND	ug/L	1.0	1	1.0	03/25/2006	03/31/2006
Thichenearb (Bolero)	EPA 525.2	ND	Mg/L	1,0	1	10 -	03/25/2006	03/31/2006
3.Hydrocycu bofurus	EPA 331 1	ND	ug/L	3.0	1	3.0	03/27/2006	03/29/2006
Aldicurb	EPA 531.1	ND	µg/L	3.0	1	3.0	03/27/2006	03/19/2006
Aldicurb Sulfane	EPA 531.1	ND	μg/L	20	1	2.0	03/27/2006	03/29/2006
Aldicarb Sulfoxide	EPA 531.1	ND	µg/L	3.0	1	3.0	03/27/2006	03/29/2006
Carbary	PA.531.1	ND	ug/L	5,0	1	5.0	03/27/2006	03/29/2006
Cwbolitan	EPA 531.1	ND	NEL	5.0	1	5.0	03/27/2006	03/29/2006
Methony	EPA 531.1	ND	PEL	2.0	1	2.0	03/27/2006	03/29/2006
Cheantyl	EPA 111.1	ND	µg/L	20.0	$\propto$ 1	20	03/27/2006	03/29/2006
Glyphosale	EPA. 547.	ND	102/L	25	1	25	03/24/2006	03/28/2006
Endothall	EPA 541.1	ND	PP/L	45	1	45	03/27/2006	03/29/2000
Diquat	EPA 349.7	ND	pg/L	4	1	4	03/24/2006	03/24/2001
Surrogate		ramon galla deseg maken ya co se					njanaji disengram dipami rijegi p	(a) 14,000); P0044ec'[41
Bremoform	EPA 544,1	74	% Roc	-	1	N/A	03/27/2006	04/04/200
Tetrachloro-m-xylene	EPA 505	96	% Rec		1	N/A	03/25/2006	03/27/2000
DCPAA	EPA 515.3	98	% R.00		1	NIA	03/27/2006	03/23/2000
1.3.Dimethyl-2-nitrobenzene	EPA 525.2	110	%Rec		1	N/A	03/25/2006	03/31/2000
BDMC	EPA 531.1	100	% Rec	3 <b>4</b>	1	NA	03/27/2006	03/29/2004
AMPA	EPA 347	120	% Reo		1	NIA	03/24/2006	03/28/200

mg/L: Milligrems/Liter (ppm) mg/Kg: Milligrams/Kilogram (ppm) PQL: Practical Quantitation Limit DLR: Detection Limit for Reporting

H: Analyzed outside of hold time P: Proliminary result

µg/L: Micrograms/Liter (ppb)

: PQL x Dilution

B. Suspectmently, See Case Natrative for comments

Hg/Kg: Micrograms/Kilogram (ppb) "ARec: Percent Recovered (surrogates) ND: None Delected at DLR

E: Analysis performed by External laboratory See External Laboratory Report attachments.

Report Authentication Code:

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Page 5 of 3

# ANALYTICAL LABORATORIES

Orval Osborne Creek Environmental Laboratories 141 Suburban Road Suite CS San Luis Obispo, CA 93401

Certificate of Analysis ELAP Certificate #1180

Report Issue Date: 04/06/2006

BSK Submission #: 2006031714

BSK Sample ID #: 702383 Project ID: N1588

Project Desc:

Sobmission Comments:

Sample Type:

Liquid

Sample Description:

Sample Comments:

Well I New Well (3344)

Due Sampled: 03/20/2006 Time Sampled: 1615 Date Received: 03/22/2006

Organics							Prop	Analysis
Ansiyte	Method	Result	Units	PQL	Dilution	DLR	Date	Date
Dibromochloropropunc	EPA 504.1	ND	pg/L	0.01	1	0.01	03/27/2006	04/04/2006
Bully/enedibropside	EPA 504.1	ND	pg/L	0.02	1	0.02	03/27/2000	04/04/2006
Aldrin	EPA 505	ND	HE/L	0.075	1	0.075	03/26/2006	03/27/2006
Chlordano	EPA 505	ND	ng/L	0.1	1	0.1	03/26/2006	03/27/2006
Chlorothalonil (Dazoni Bravo)	EPA 505	ND	Mg/L	5.0	1	5.0	03/26/2006	03/27/2006
Dieldrin	EPA 105	ND	MB/L	0.02	1	0.02	03/26/2006	03/27/2006
Endrin	EPA 505	ND	T/But	0.1	1	0.1	03/26/2006	03/27/2006
Heptachlor	KPA 505	ND	µg/L	0.01	< 1	0.01	03/26/2006	03/27/2006
Heptechlor spoxide	505 A 505	ND	Legy	0.01	1	10.0	03/26/2006	03/27/2006
Hexachterabentens	EPA 505	מא	ME/L	0.50	1	0.50	03/26/2006	03/27/2008
Hexacidorocyclopentadiene	BYA 503	ND	µg/L	1.0	1	1,0	03/16/2006	03/27/2006
Liadane	EPA,505	ND	HE/L	0.7	1	0.2	03/26/2006	03/27/2006
Methorychlor	EPA 503	ND	T/gu	10	1	10	03/26/2006	03/27/2006
PGBs: Arachlar Screen	EPA 505	ND	ME/L	05	1	ک.0	03/26/2006	03/27/2006
Tanaphene	EPA 505	ND	ME/L	1.0	1	1.0	03/26/2006	03/27/2006
Trifferalin	EPA 505	ND	µg/L	0.1	1	1.0	03/26/2008	03/27/2001
2A.S-T	WA 515.3	ND	µg/L	1.0	1	1.0	03/27/2006	03/28/2004
2,4,3-TP (Silved)	EPA 515.3	ND	pg/L	1.0	1 '	1.0	03/27/2006	03/28/100
2,4-D	EPA 515.3	ND	μg/L	10	1	10	03/27/2006	03/28/2004
Beitittón (Burupun)	EPA 515.3	ND	He/L	2.0	1, 4	2.0	03/27/2006	03/28/2000
Dalepon	EPA 515.3	ND	µg/L	10	= 1 ·	10	03/27/2006	03/28/2000
Dicumbs (Barriel)	EPA 515.3	ND	PE/I	1.3	1	1:5	03/27/2006	03/28/200
Dinneb (DNBP)	MPA \$15.3	ND	MEL	2.0	1	2.0	03/27/2006	
Pentachlorophanol (PCP)	EPA 515.3	ND	T/Sr	0.2	1	0,2	03/27/2006	03/38/200
Picloram	EFA 515.3	ND	ME/L	1.0	1	1.0	03/27/2006	03/2B/200
Albehiar (Almara	EPA-525.2	ND	ug/L	1.0	1	1.0	03/25/2006	
Autzine (AAtres)	EPA 525.2	ND	µg/L	0,5	$J = \omega$	0,5	03/25/2006	03/31/200
Benzo(a)pyrene	EPA 525.2	ND	ME/I	0,1	1	0.1	03/25/2006	
bis(2-stylhetyl) adipote	WPA 5252	ND	hill/IT	3,0	1	3.0	03/35/2006	03/31/200
bly(2-ethylhenyl) philadale	BPA 125.2	ND	μg/L	3,0	1	3.0	03/25/2006	03/31/200
Bromicil (Hyrn)	EFA 523.2	ND	ha/T	10	1	10	03/25/2006	03/31/200

mg/L: Milligrams/Liter (ppm) mg/Kg: Milligrams/Kilogram (ppm)

µg/L: Micrograme/Liber (ppb) µg/Kg: Micrograms/Kilogram (ppb) "Rea: Percent Recovered (surrogates) PQL: Practical Quantitation Limit

DLR: Detection Limit for Reporting : PQL x Dilution

ND: None Detected at DLR

H: Analyzed outside of hold time

P: Preliminary result

S: Suspect result. See Case Narrative for comments.

E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authenticulus Codet

Page 4 of 5



Page 1

Ron Flechs
Talley Parms
P.O. Box 360
Arroyo Grande, CA 93420

Log Number: 05-C8439 Order: M3891 Project: Pennington Received: 07/28/05

#### REPORT OF ANALYTICAL RESULTS

				SAMPLED			
SAMPLE DESCRIPTION	SAMI	LED BY		DATE O T	(MB	MATRIX	
	-		********	. 4566447×		436-63657	
Well #2 (Pennington) (Well B)	L. C	rane		07/28/05	009:10	Drinking	Water
	746				*		4#23820 PC
ANALYTE		RESULT	DLR	UNITS	METHO	D	analyzed
Total Alkalinity as CaCO3		260	2	mg/L	SM 23	20B	08/03/05
Chloride		20	1	mg/L	BPA 3	00.0	07/28/05
Total Cyanide	Not	Detected	0.005	mg/L	EPA 3	35,2	08/05/05
Color	Not	Detected	1	units	SM 21	20B	07/28/05
Filectrical Conductance		830	1	umbos/cm	SM 25	10	07/28/05
Fluoride		0.4	0.1	mg/L	BPA 3	00.0	07/28/05
Langlier Index (Corrosivity)		0.5		pH units	SM. 23	30B	08/09/05
MBAS (Anionic Surfactants MW=340)	Not	Detected	0.05	mg/L	SM 55	40 C	07/29/05
Nitrate as N		3.6	0,1	mg/L	EPA 3	00.0	07/28/05
Nitrate as NO3		16	0.4	mg/L	BPA 3	00.0	07/28/05
Nitrite as N	Not	Detected	0.1	mg/L	BPA 3	00.0	07/28/05
Odor	Not	Detected	1	TON	8M 21	50B	07/28/05
PA		7.6	0.1	unite	EPA 1	50.1	07/28/05
Sulfate		130	0.5	mg/L	EPA 3	100.0	07/28/05
Total Dissolved Solids		510	70	mg/L	EPA 1	160.1	08/03/05
Turbidity	Not	Detected	0.1	NTU	BPA 1	80.1	07/28/05
Total Coliform Bacteria	Abs	ent	=		5M922	13	07/28/05
Calcium		95 74	0.03	mg/L	RPA 2		06/07/05
Hardness		- and the state of	gealog 1	mg/L CaCO3			08/07/05
Iron	Not	Detected	0.1	mg/L	EPA 2		08/07/05
Mercury	Not	Detected	0.001		BPA 2		08/02/05
Potassium		2.4	0.1	mg/L	EPA 2		08/07/05
Magnesium		38	0.03	mg/L	EPA 2		08/07/05
Sodium		27	0.05	mg/L	EFA 2		08/07/05
Aluminum	Not	Detected	0.05	mg/L	EPA 2		08/07/05
Antimony	Not	Detected	0.006		BDA 2	,	08/07/05
Arsenio		Detected	0.002		EPA 2		08/07/05
Barium		Detected	0.1	mg/L	EPA :		08/07/05
Beryllium	Not	Detected	0.001	C-10		8.00.8	08/07/05
Cadmium		0.001	0.001	mg/L	EPA :	200.8	08/07/05



Page 2

Ron Flechs
Talley Farms
P.O. Box 360
Arroyo Grande, CA 93420

Log Number: 05-C8435 Order: M3891 Project: Pennington Received: 07/28/05

#### REPORT OF AMALTTICAL RESULTS

	SAMPLED BY		SAMPLED DATE • T	ME MATRIX	
SAMPLE DESCRIPTION	SAMENSO DI	22242222		2000年20 KMmassenske	
Well #2 (Pennington)	L. Crane		07/28/05	009:10 Drinking	Water
ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Chromium	Not Detected	0,01	mg/L	EPA 200.8	08/07/05
Copper	Not Detected	0.05	mg/L	EPA 200.8	08/07/05
Lead	Not Datected			EPA 200.8	08/07/05
Manganese	0.033		mg/L	EPA 200.8	09/07/05
Nickel	Not Detected		mg/L	EPA 200.8	08/07/05
Selenium	Not Detected	0.005		EPA 200.8	08/07/05
Silver	Not Detected	The Part of the Pa	mg/L	BPA 200.8	08/07/05
Thallium	Not Detected	0.001		EPA 200.8	08/07/05
Zinc	Not Detected	0.05	mg/L	EPA 200.8	08/07/05
	*****				

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng





WALLACE GROUP

November 17, 2005

Marina Michel, Environmental Health Specialist Department of Health Services P.O. Box 1489 San Luis Obispo, CA 93406

Subject: Biddle East Water Storage Calculations (Tract 2408, Phase 2)

Dear Marina:

These storage calculations are to accompany the submittal dated September 30, 2005 for the Tract 2408 Phase 2 (Biddle Ranch East) subdivision project. The previous submittal showed storage and supply calculations based on San Luis Obispo County Standards. At your request, we are showing storage requirements based on an 800 gpd per lot use estimate for the development.

Fire flow requirement = 1000 gpm for 2 hours = 120,000 gallons

Residential flow = 800 gpd for 56 lots = 44,800 gallons

Emergency storage = 2 days residential flow = 89,600 gallons

Total = 254,400 gallons storage required.

Based on the calculations we submitted in September (SLO County Standards), we proposed 254,200 gallons total storage for the project, which is essentially the same storage requirement.

The proposed well pumping rate is 120 gpm per well. At this rate, one well will pump the required daily residential use volume in just over 6 hours pumping time. We believe the proposed pumping capacity and storage volume are sufficient for the development.

Sincerely,

Matthew J. Wheeler, P.E. Branch Manager

M:\S014-Don Talley\S014-001 Biddle Ranch East\4.0 Proj Doc\4.14 Environ Process\4.14.03 County Health Dept\Storage Calcs 111705.doc

CIVIL ENGINEERING

CONSTRUCTION MANAGEMENT

LANDSCAPE ARCHITECTURE

ENGINEERING

PLANNING

PUBLIC WORKS ADMINISTRATION

SURVEYING /
GIS SOLUTIONS

WATER RESOURCES

WALLACE SWANSON INTERNATIONAL

WALLACE GROUP A California Corporation

1330 ARNOLD DR **SUITE 249** MARTINEZ. CALIFORNIA 94553

T 925 228-5801 F 925 228-5804

www.wallacegroup.us

Project: Fiddle Kavi - Eas		-	Vo:
Calculated By: 525	Date: 4/15)	Scale:	
Checked By:	Date:	Sheet	1 of 4
Water Demand &	Storage (	alcs	
for Sto County Standards: 11-	3\$1.1711		
		1 10	lven
		1 1 1 1	5- Lot 8
Alerage Daily Demand	5	4	= 1000 gpm
. To meet customer demands		3 ( )	12005
evietes some mist produce:		r. r. t. t.	7 210 (-3)
· Water source must produce indus ADD = 4001 + DE Agricul	try or		
HBB - 7002 + Da Agricul	ture.		
= 400 (56)			1-1-1-1
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1/200 pm for 30 nos	and confirming		
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Peak Hourly Demand (PHD)			
. To meet customer & Fire dama	nd for 120	min	
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	207,840 ga	1 + 1	56-40
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WALLACE GROUP

CIVIL ENGINEERING

CONSTRUCTION MANAGEMENT

LANDSCAPE ARCHITECTURE

MECHANICAL ENGINEERING

PLANNING

PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS:

WATER RESOURCES

WALLACE SWANSON INTERNATIONAL

4115 BROAD ST SUITE B-5 SAN LUIS OBISPO CALIFORNIA 93401

T 805 544-4011 F 805 544-4294

1330 ARNOLD DR SUITE 249 MARTINEZ CALIFORNIA 94553

T 925 228-5801 F 925 228-5804

www.wallacegroup.us

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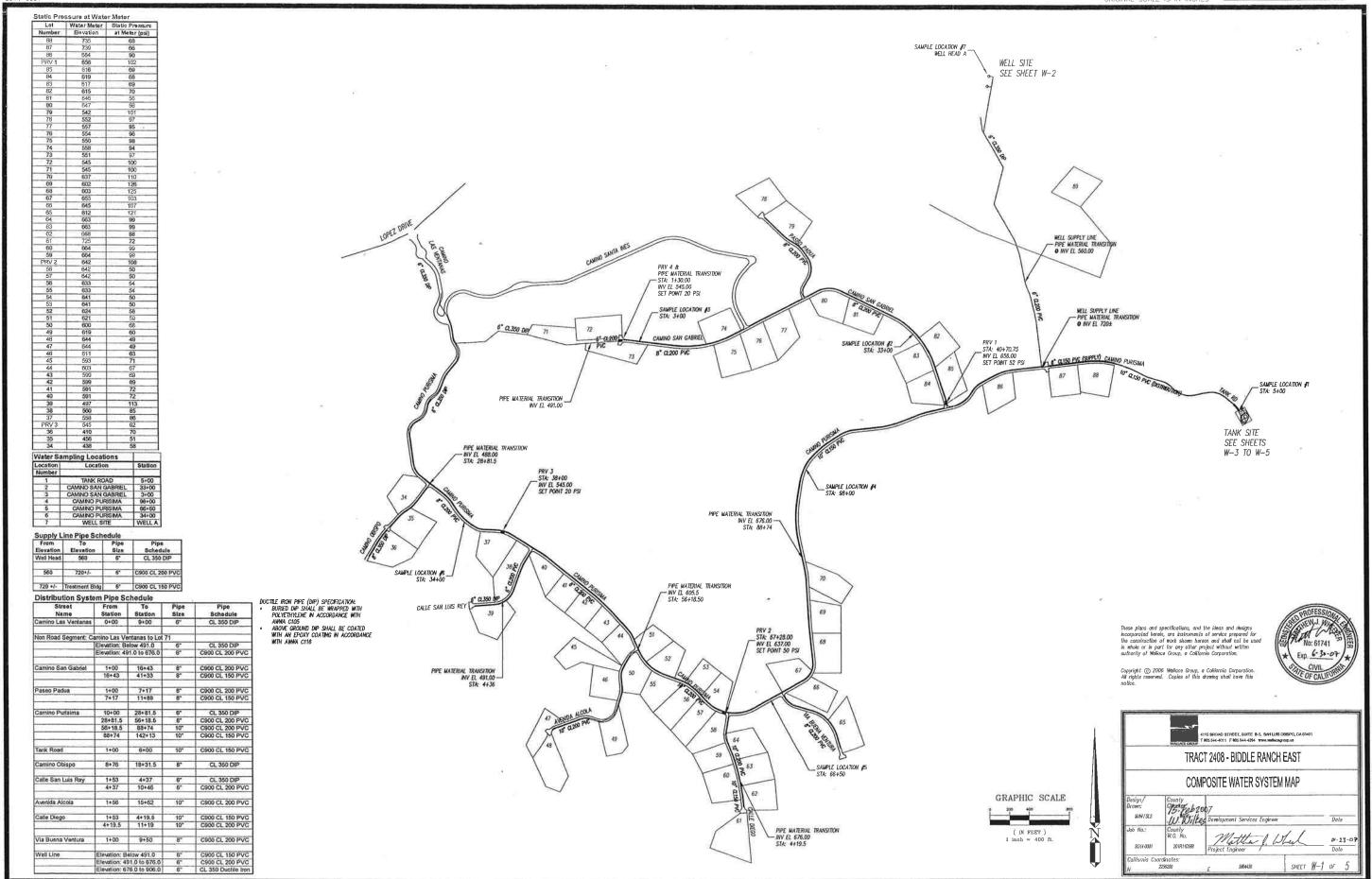
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							WALLACE GR
4. {	Required	Residential	Supply				CIVIL ENGINE
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	Stora	be + Well co	pacity m	ust provide	the Glawi	ng Por Zh	
2		Flow + 1/2 F					LANDSCAPE ARCHITECTUR
							MECHANICAL ENGINEERING
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Calculated By: SLS	Date: 4/15)	o5 Scale:	
Checked By:	Date:	Sheet 4 of	4
Water Deuna	and & Storage Cake	5	
			WALLACE GROUP
			WED ICE GROUN
1. Required Residentia	d Supply		CIVIL ENGINEERIN
b. Storage & wells		ollowing - For 3 day	
			MANAGEMENT
Min Residential Flo	ow = MRF = 1/2 Pea	K Hour Residential	Flow ARCHITECTURE
	MRF = 1/2 (3		MECHANICAL ENGINEERING
	= 1769	pm over 4320 min	PLANNING
			PUBLIC WORKS
llsw	capacity = 120	o pm	ADMINISTRATION
			SURVEYING / GIS SOLUTIONS
Req	wired Storage = 56	0 4320 min	WATER RESOURCE
	= 241,9	20001	WALLACE SWANSO
Co Pumping alone mus	t satisfy Avo Daily	Res. Flow (ADRE)	
ABRF = Y3 (PHE			
= 117 gpm			
		d	
=> wells mu	st be able to Supl	ply at least 117 gpm	
do usine, wells -	0.10		
Cla Usine, wells ->	JV/KJ		
			4115 BROAD ST
C . I	distribution in	20	SUITE B-S SAN LUIS OBISPO
Conclusion : 1.05	et two weeks, i.	AU JOHN CALCIN	CALIFORNIA 934
			T 805 544-4011 F 805 544-4294
2 1	101 Street = 2	50,000 gal-Bolted S	
			1330 ARNOLO DE
	- USA 100 126,0	& 5 gal (getual)	SUITE 249 MARTINEZ
		=29'-8%" (Inside)	CALIFORNIA 945
		F= 24'-1.5"	f 925 228-5801 F 925 228-5804
	The last	4. 6.1. 7.5	L AT2 TT0-2864
			www.wallacegro

Project: Biddle East		Proje 10: 5014-01	
Calculated By: SLS	Date: 2 - 8-06	Scale:	TO THE PARTY OF TH
Checked By:	Date:	Sheet 1 of 1	
Source Capacity & Storage From: CA Code of Regul Title 22 Chapill	lations.		WALLACE GROUP
P.18- 864564 - Source Capacity	i Storage Vol	Jme Calcs	CIVIL ENGINEERING CONSTRUCTION MANAGEMENT
(1) Max Daily Demand. Qo For Go Connections: Ch	art 1 - Qc is metered wa		LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING
(2) Since total capacity @ source ( than Qo (50 gpm) - Total Sto			PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES WALLACE SWANSON
(3) N/A  Summary: Title 22 method yi	4He 0 = 50	5000 / 1/5 60 00000	INTERNATIONAL
Actual Design for program = 352	roject calls	ere)	L.
Vistor = 311,0  i. Actual design is conservat	oo gal St	M SLO County tandards 11-351.1711	
Itali design is conservat	ive talegio	are	4115 BROAD ST SUITE B-5 SAN LUIS OBISPO CALIFORNIA 93401
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			1330 ARNOLD DR SUITE 249 MARTINEZ CALIFORNIA 94553
			T 925 228-5801 F 925 228-5804
			www.wallacegroup.us

Exhibit C: Approved Construction Drawings	

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES



SCHEDULE OF MATERIALS



#### DEPARTMENT OF PUBLIC WORKS

District of Public Works N. P. Spoken

ACTEMOLOGICAL TREES

#### WATER SYSTEM DISINFECTION SYSTEM NOTES:

1. DISMITECT WATER MAINS IN ACCORDANCE WITH PROCEDURES OUTLINED IN COUNTY OF SAN LUS OBISPO PROCEDURAL MEMORANDUM 0-3 (INCLUDED ON THIS SHEET) & ANWA STANDARDS FOR DISMITECTING WATER

- 2. POTABLE WATER SHALL BE USED FOR DISINFECTION OF THE MARIS.
- 3. AN APPROVED DECILORINATION PLAN SHALL BE REQUIRED OF CONTRACTOR PRIOR TO CHLORINATION & TANK FILLING.

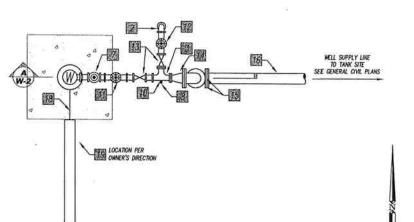
#### WATER SYSTEM CONTROLS NOTES:

- 1. RADIO CONTROLS SHALL BE USED TO COMMUNICATE BETWEEN TANK & WELL SITES. CONTRACTOR SHALL DEMONSTRATE FUNCTIONAL SYSTEM.
- 2. LOW & HIGH WATER ALARMS SHALL TRIGGER FLASHING BEACONS AT THE TANK & WELL SITES IN ADDITION TO ALERTING THE OPERATOR THROUGH A TELEPHONE CONNECTION.
- 3. WELL PUMPS SHALL BE AUTOMATICALLY CONTROLLED BY WATER ELEVATION IN THE TANKS SEE SHEET W-4 FOR SET POINTS. IF PEAK ELECTRICITY RATES APPLY TO THE SITE, PUMPS SHALL BE AUTOMATED TO FILL TANKS EACH NIGHT STARTING AT BPM.
- 4. WELL A HAS EXISTING EQUIPMENT FOR REMOVAL. ALL SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE OWNER.
- 5 CONTROLLER SHALL ALTERNATE SOURCES AND CALL PUMPS SEQUENTIALLY TO MEET ON/OFF SET POINTS.
- 6. CONTROLS FOR WELLS, FETERATION AND CHLORINATION SYSTEMS SHALL BE INTEGRATED.
  A CHOORNARDON SYSTEM SHALL DETECT FLOW IN PIPE AFTER PLITATION SYSTEM TO TRIGGER SODIUM
  HYPOCHORITE INECTION.
  B. WELL PURPS SHALL BE TURNED OFF DURING FILTER BACKWASH CYCLE. WELL PUMPS SHALL RESUME
  OPERATIONS ONCE BACKWASH CYCLE IS COMPLETED.
  C. BACKWASH SHALL BE AUTOMATED TO OCCUR WHEN HEADLOSS THROUGH FILTER IS BETWEEN 6-10 PSL
  D. CHORRARDON SYSTEM TO MISCI 12X SODIUM HYPOCHLORITE SOLUTION. APPROXIMATELY 1-2 GAL/DAY
  MILL BE CONSUMED.

W-2 LOCATION OF WELLHEADS A & B

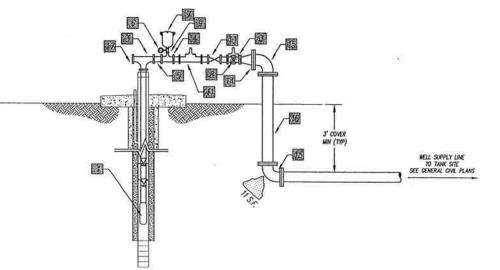


SCALE 1" = 2"



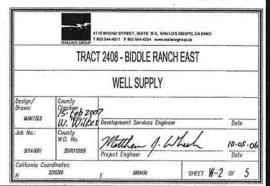
(W-2) TYPICAL WELLHEAD - PLAN VIEW

(W.2) TYPICAL WELLHEAD - SECTION VIEW



WELL A WELL B TOTAL DEPTH 180 TBO PUMPING WATER LEVEL 26 FT TBD PUMP SETTING TBO 180 DESIGN PRODUCTION RATE 120 GPM 120 CPM 672 FT 672 FT GOULDS SUBMERSIBLE WELL PUMP 150S300-17 JOHP 3450 RPM J-PHASE, 480V 2 910 3x3" TEE FITTING THREADED GALVANIZED STEEL 3 2 2 3x1" TEE FITTING THREADED GALVANIZED STEEL W [5] 3" GALVANIZED STEEL (THREADED) PRESSURE GAUGE OPERATING PRESSURE = 300PSI 6 1 1° CLA-VAL AIR/VACUUM RELEASE SERIES 371-WS.3 9 1 8 1/2" HOSE BIB ASSEMBLY 1 1" X 1/2" TEE GALVANZED STEEL 1 1/2" GALVANIZED STEEL TAPPED 1 J\* CLA-VAL CLOBE CHECK VALVE, SERES 81-02 CLASS 300, THREADED 1 1 J\* CLA-VAL GLOBE PRES RELEF VALVE SERIES 52-01 CLASS 300 LB,THREADED PRESSURE RANGE: 240-290 PSI 1 3" GATE VALVE, THREADED 2 2 6x3" REDUCER GALVANIZED STEEL 1 2 2 6" 90-DEG FITTING DI (FLANGED) 6" DI PIPE (FLANGED) 1 CONDUIT (SEE THOMA PLANS) -CONTROL PANEL (SEE THOMA PLANS)

No: 61741 Exp. 4-30-07



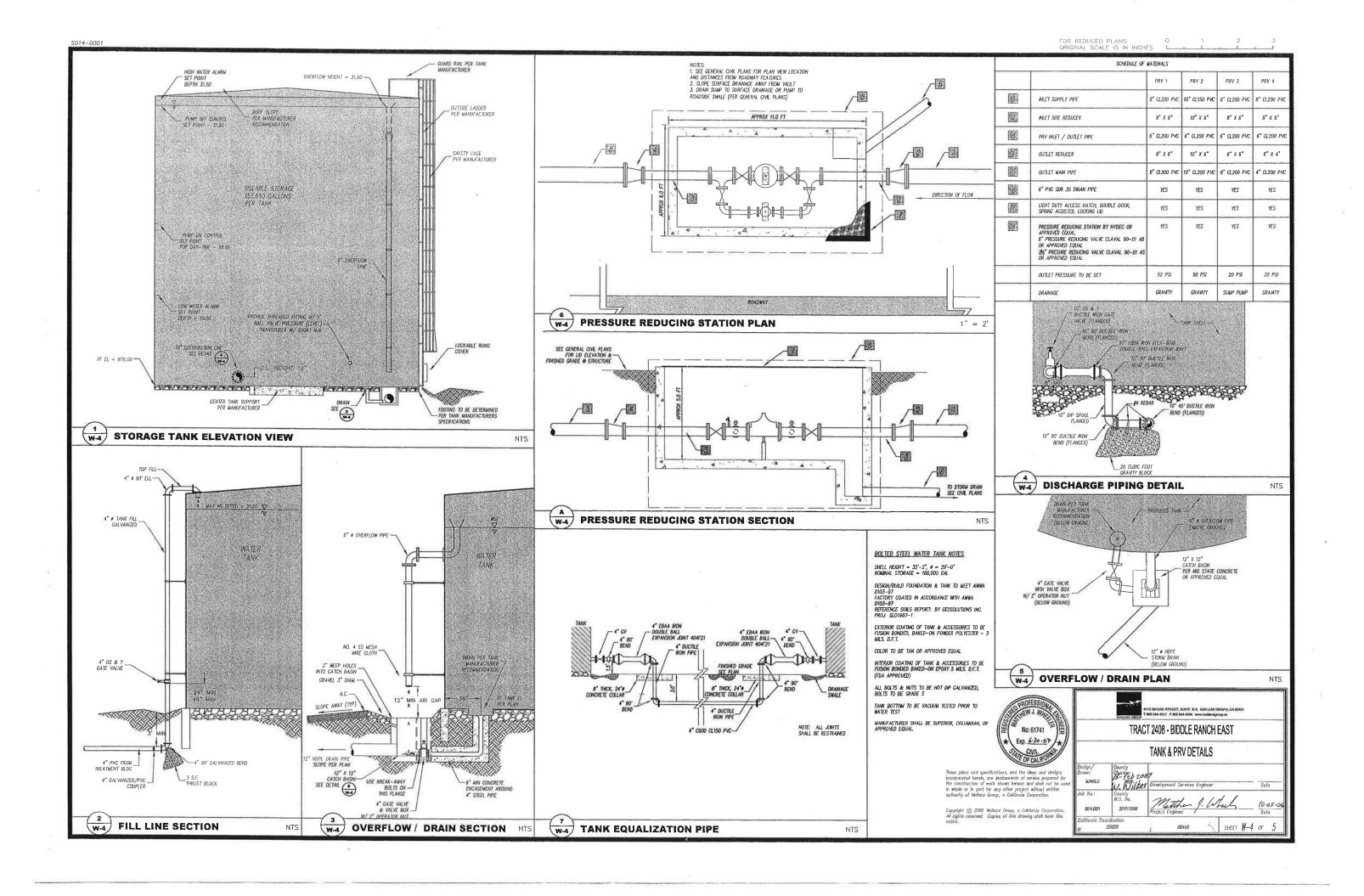
50% PROGRESS CHECKED BY:

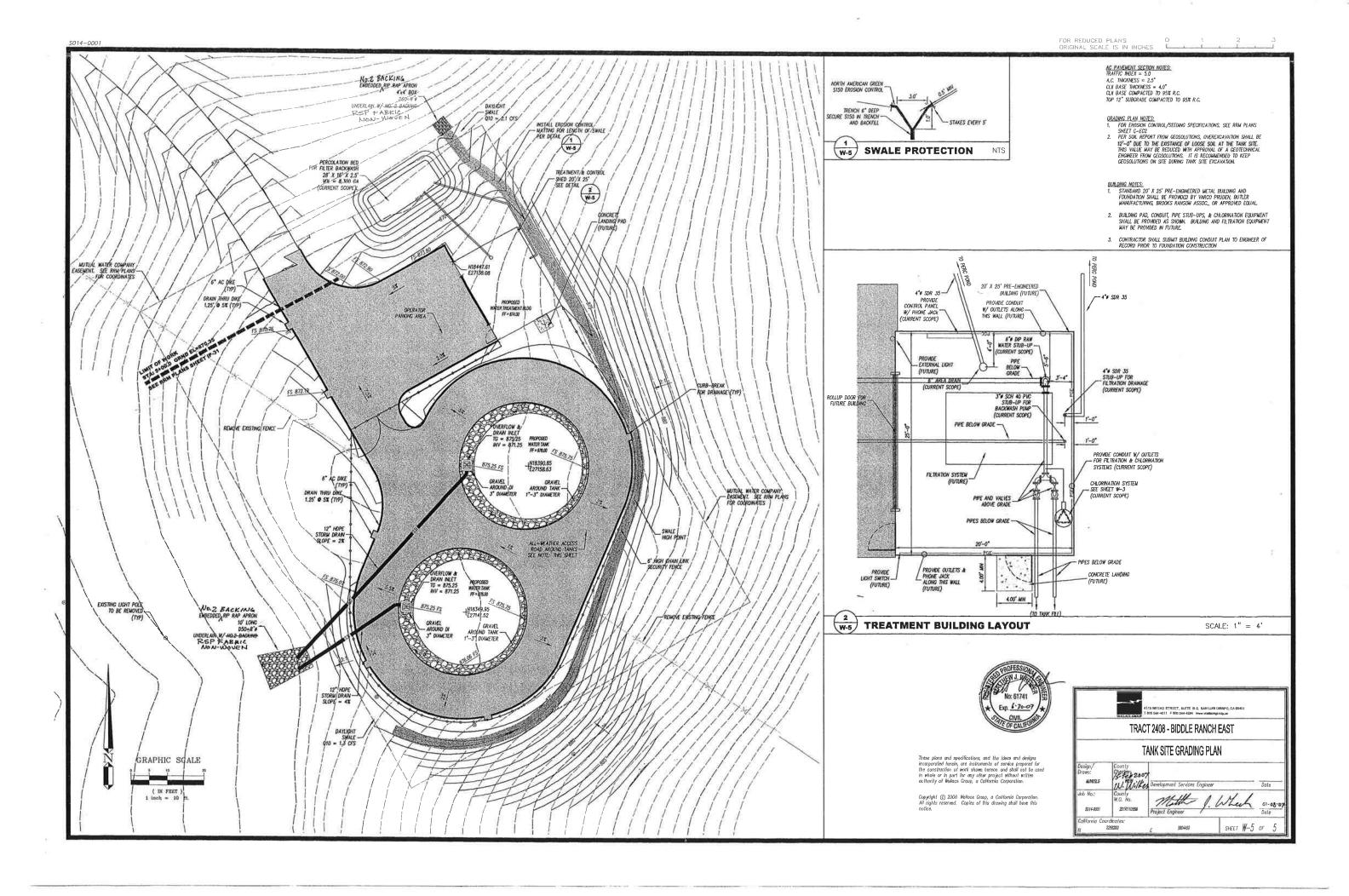
SCALE 1" = 2"

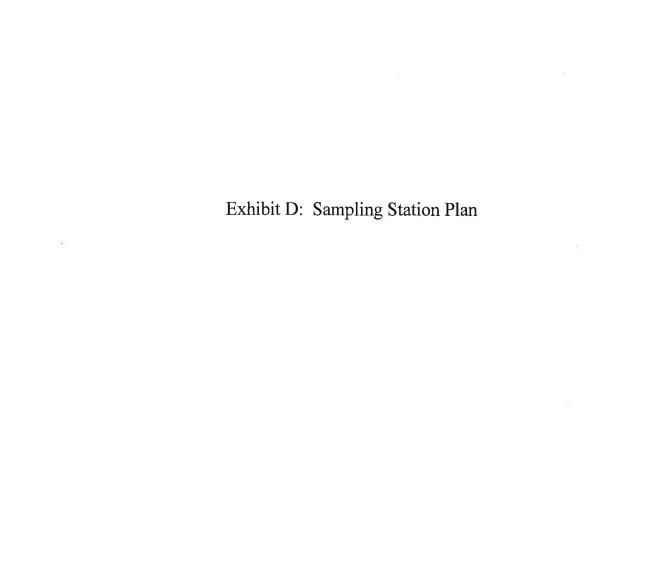
90% PROGRESS CHECKED BY:

2256200

SHEET W-3 OF 5







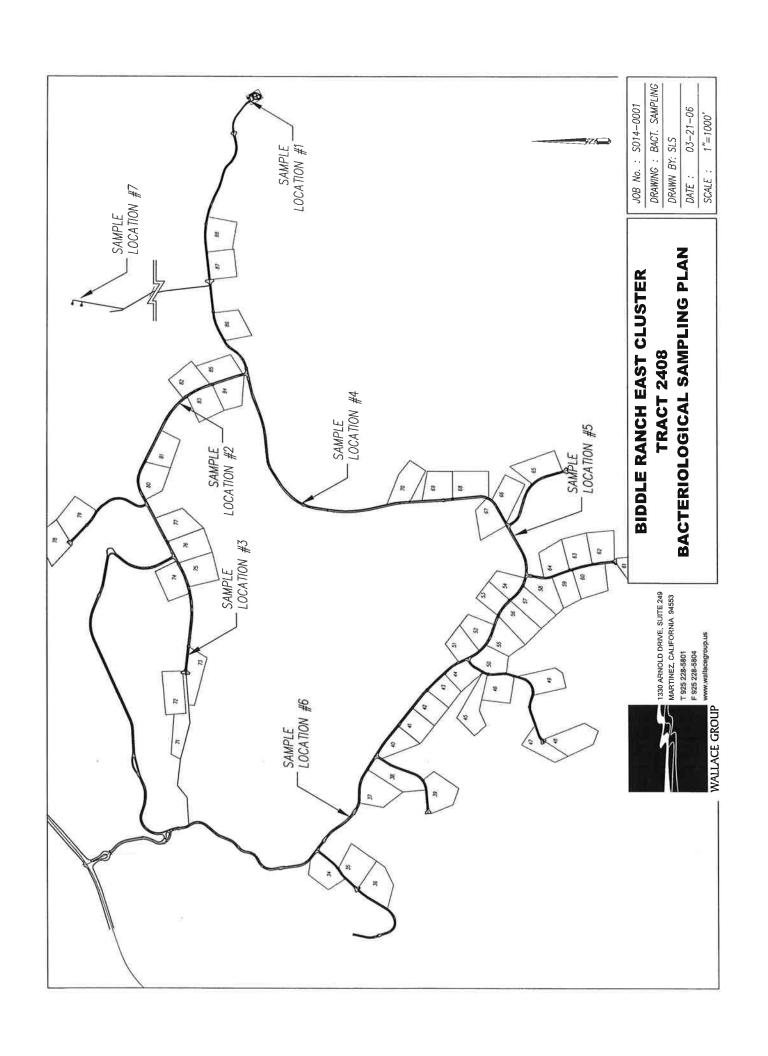


Exhibit E: Domestic Water Supply Permit from San Luis Obispo County Health Department

#### SAN LUIS OBISPO COUNTY HEALTH AGENCY



June 25, 2008

#### PUBLIC HEALTH

Environmental Health Services Division

2156 Sierra Way • P.O. Box 1489 San Luis Obispo, California 93406 805-781-5544 • FAX 805-781-4211

> Jeff Hamm Health Agency Director Craig McMillan, M.D., M.P.H. County Health Officer

Curtis A Batson, R.E.H.S. Director of Environmental Health

Robert S. Miller, P.E. Wallace Group 612 Clarion Court San Luis Obispo, CA 93401

System No: 4000815 (Las Ventanas Ranch Mutual Benefit Water Company)

Dear Mr. Miller:

The County of San Luis Obispo has considered the application of the Las Ventanas Ranch Mutual Benefit Water Company dated June 18, 2008 and has issued a domestic water supply permit. The permit is enclosed. The Las Ventanas Ranch water system will need to advise us in writing within 30 days if you do not agree to the permit and its conditions.

If you have any questions regarding this permit, please contact me at (805) 788-2049.

Sincerely,

BRADLEY PRIOR, R.E.H.S.

BWHPrior

Environmental Health Specialist II

#### STATE OF CALIFORNIA

### **DOMESTIC WATER SUPPLY PERMIT**

#### **Issued To**

## LAS VENTANAS RANCH MUTUAL BENEFIT WATER COMPANY

Public Water System No. 4000815

By



County of San Luis Obispo Environmental Health Services

DATE: June 25, 2008

#### **WHEREAS:**

- 1. The Las Ventanas Ranch Mutual Benefit Water Company submitted an application dated June 18, 2008 to County of San Luis Obispo Environmental Health Services to operate a public water system. The application was submitted in accordance with California Health and Safety Code, Section 116525.
- 2. This public water system is known as the Las Ventanas Ranch Mutual Benefit Water Company whose headquarters mailing address is located at 612 Clarion Court, San Luis Obispo, CA 93402.
- 3. The legal owner of the Las Ventanas Ranch Mutual Benefit Water Company water system is Las Ventanas Ranch Mutual Benefit Water Company. Las Ventanas Ranch Mutual Benefit Water Company, therefore, is responsible for compliance with all statutory and regulatory drinking water requirements and the conditions set forth in this permit.
- 4. The public water system for which the permit application has been submitted is as described briefly below (a more detailed description of the permitted system is described in the attached Permit Report):

Las Ventanas Ranch Mutual Benefit Water Company is a community system serving 55 residential service connections with approximately 165 consumers. The system has two active wells, each of which produces 110 gallons per minute; total production is 220 gallons per minute.

#### **And WHEREAS:**

- 1. Las Ventanas Ranch Mutual Benefit Water Company has submitted all of the required information relating to the existing operation of the Las Ventanas Ranch Water System.
- The County of San Luis Obispo Environmental Health Services has evaluated all of the information submitted by the Las Ventanas Ranch Mutual Benefit Water Company and has conducted a physical investigation of the existing Las Ventanas Ranch Water System.
- 3. The County of San Luis Obispo Environmental Health Services has been delegated authority to issue domestic water supply permits pursuant to Health and Safety Code Section 116540.

**THEREFORE:** The County of San Luis Obispo Environmental Health Services has determined the following:

- 1. The Las Ventanas Ranch Water System meets the criteria for and is hereby classified as a community water system.
- 2. The applicant has demonstrated that the existing Las Ventanas Ranch Water System has sufficient source capacity to serve the anticipated water demand for at least 10 years.
- 3. The design of the proposed water system complies with the Water Works Standards and all applicable regulations.
- 4. The applicant has demonstrated adequate technical, managerial, and financial capacity to operate reliably the proposed water system.
- 5. Provided the following conditions are complied with, the **Las Ventanas Ranch** Water System should be capable of providing water to consumers that is pure, wholesome, and potable and in compliance with statutory and regulatory drinking water requirements at all times.

THE LAS VENTANAS RANCH MUTUAL BENEFIT WATER COMPANY IS HEREBY ISSUED THIS DOMESTIC WATER SUPPLY PERMIT TO OPERATE THE LAS VENTANAS RANCH WATER SYSTEM.

The Las Ventanas Ranch Water System shall comply with the following permit conditions:

#### California Safe Drinking Water Act

1. The Las Ventanas Ranch Mutual Benefit Water Company shall comply with all State laws applicable to public water systems, including, but not limited to the Health and Safety Code and any regulations, standards, or orders adopted there under.

#### **Operator Certification Program**

 The distribution system shall be operated by personnel who have been certified in accordance with the Regulations Relating to Certification of Distribution System, California Code of Regulations, Title 22. The Las Ventanas Ranch Mutual Benefit Water Company will need a D1 certified operator for the operation of the water system.

#### **Cross-Connection Control Program**

3. The Las Ventanas Ranch Mutual Benefit Water Company shall comply with Title 17 of the California Code of Regulations (CCR), to prevent the water system and treatment facilities from being contaminated from possible cross-connections. The Las Ventanas Ranch Mutual Benefit Water Company shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow prevention devices shall be tested annually.

#### **Approved Sources**

4. The only sources approved for potable water supply are listed below. The Las Ventanas Ranch Mutual Benefit Water Company shall provide reliable chlorination treatment for the distribution system at all times and maintain a chlorine residual of minimum of 0.5-1.0 mg/l at the storage tanks.

Source	Status	PS Code
Well A	Active	4000815-001
Well B	Active	4000815-002

5. No changes, additions, or modifications shall be made to the sources or treatment mentioned in Conditions No. 4 unless an amended water permit has first been obtained from Environmental Health Services.

#### **Water Quality Monitoring**

- 6. The existing sources shall continued to be analyzed for, and prior to using a new or inactive well for domestic purposes, bacteriological and <u>complete</u> chemical analysis of the water produced, including secondary standards and inorganic chemicals shall be submitted to Environmental Health Services, to determine compliance with the California Drinking Water Quality Standards. The analyses shall be made by an approved state certified laboratory and shall be submitted electronically on state approved forms.
- 7. The Las Ventanas Ranch Mutual Benefit Water Company shall analyze at least one sample from its distribution system monthly for bacteriological quality in accordance with its approved bacteriological sample-siting plan. A bacteriological analyses report shall be submitted to this office by the tenth of the month following sampling.
- 8. The Las Ventanas Ranch Mutual Benefit Water Company shall contact this office by phone concerning any acute violation or the occurrence of a hazardous situation. MCL violations will require public notification and corrective action.

Las Ventanas Ranch Mutual Benefit Water Company June 25, 2008

This permit supersedes all previous domestic water supply permits issued for this public water system and shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the **County of San Luis Obispo Environmental Health Services**. This permit is non-transferable. Should the **Las Ventanas Ranch Mutual Benefit Water Company** Water System undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

Any change in the source of water for the water system, any modification of the method of treatment as described in the Permit Report, or any addition of distribution system storage reservoirs shall not be made unless an application for such change is submitted to the County of San Luis Obispo Environmental Health Services.

This permit shall be effective as of the date shown below.

FOR COUNTY OF SAN LUIS OBISPO ENVIRONMENTAL HEALTH SERVICES

Curtis Batson

**Director, Environmental Health Services** 

Dated: June 25, 2008

# LAS VENTANAS RANCH WATER SYSTEM SYSTEM # 4000815 WATER QUALITY MONITORING SCHEDULE

#### WELL A (4000815-001) Source Code

Chemical	<u>Frequency</u>	Last Completed	Due <u>Again</u>
Nitrate	Annually	03/2006	07/2008
Inorganic Chemicals (IOCs) Asbestos-waived	Every 3 years	03/2006	03/2009
Nitrite	Every 3 years	03/2006	03/2009
Secondary Standards Thiobencarb-waived	Every 3 years	03/2006	03/2009
Volatile Organic Chemicals (VOCs)	Every 3-6 years	03/2006	03/2009
Synthetic Organic Chemicals (SOCs) Atrazine Simazine	Once Once	03/2006 03/2006	Completed Completed
Radioactivity (Gross Alpha)	Initially quarterly for a year, then every 3-9 years	03/2006	DUE NOW
Lead & Copper **	Once every 6 months for a year, annually for 2 years, then every 3 years		

Total Trihalomethanes/Haloacetic Acids (TTHM/HAA5)

Perchlorate DUE NOW

<sup>\*</sup> Monitoring waiver extended

<sup>\*\*</sup> Samples to be collected at the consumers tap. All efforts should be made to use the same collection sites during all sampling periods. Results to be submitted with form 141-A

#### LAS VENTANAS RANCH WATER SYSTEM SYSTEM # 4000815 WATER QUALITY MONITORING SCHEDULE

#### WELL B (4000815-002) Source Code

Chemical	<u>Frequency</u>	Last Completed	Due <u>Again</u>
Nitrate	Annually	07/2005	07/2008
Inorganic Chemicals (IOCs) Asbestos-waived	Every 3 years	07/2005	07/2008
Nitrite	Every 3 years	07/2005	07/2008
Secondary Standards Thiobencarb-waived	Every 3 years	07/2005	07/2008
Volatile Organic Chemicals (VOCs)	Every 3-6 years	03/2006	03/2009
Synthetic Organic Chemicals (SOCs) Atrazine Simazine	Once Once	03/2006 03/2006	Completed Completed
Radioactivity (Gross Alpha)	Initially quarterly for a year, then every 3-9 years	03/2006	DUE NOW
Lead & Copper **	Once every 6 months for a year, annually for 2 years, then every 3 years		

Total Trihalomethanes/Haloacetic Acids (TTHM/HAA5)

Perchlorate DUE NOW

Monitoring waiver extended

<sup>\*\*</sup> Samples to be collected at the consumers tap. All efforts should be made to use the same collection sites during all sampling periods. Results to be submitted with form 141-A