

Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Wednesday, August 5, 2015 at 10:00 a.m.

Meeting Location:

Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223
(951) 845-9581

Watermaster Members:

City of Banning
City of Beaumont
Beaumont Cherry Valley Water District
South Mesa Water Company
Yucaipa Valley Water District

I. Call to Order

II. Roll Call

City of Banning: Alternate: Arturo Vela

City of Beaumont: Dave Dillon (Alternate: Kyle Warsinski)

Beaumont Cherry Valley Water District: Eric Fraser (Alternate: Tony Lara)

South Mesa Water Company: George Jorritsma (Alternate: Dave Armstrong)

Yucaipa Valley Water District: Joseph Zoba (Alternate: Jennifer Ares)

III. Pledge of Allegiance

IV. Public Comments At this time, members of the public may address the Beaumont Basin Watermaster on matters within its jurisdiction; however, no action or discussion may take place on any item not on the agenda. To provide comments on specific agenda items, please complete a Request to Speak form and provide that form to the Secretary prior to the commencement of the meeting.

V. Consent Calendar

A. Meeting Minutes

1. No Meeting Minutes for June 3, 2015

VI. Reports

A. Report from Engineering Consultant - Hannibal Blandon, ALDA Engineering

B. Report from Legal Counsel - Keith McCullough, Alvarado Smith

VII. Discussion Items

A. Proposed Budget for Fiscal Year 2015-16 [[Memorandum No. 15-14, Page 4 of 79](#)]

Recommendation: That the Watermaster Committee adopts the budget as presented.

B. Evaluation of Groundwater Conditions and Operating Safe Yield for 2014 [[Memorandum No. 15-15, Page 6 of 79](#)]

Recommendation: No recommendation

C. Presentation of the Consolidated Annual Report and Engineering Report for Calendar Year 2014 [[Memorandum No. 15-16, Page 20 of 79](#)]

Recommendation: No recommendation

D. Proposed Groundwater Storage Agreement for the Morongo Band of Mission Indians [[Memorandum No. 15-17, Page 21 of 79](#)]

Recommendation: No recommendation

- E. Overview of Oak Valley Partners Production Wells and Proposed Adjustments to Historical Groundwater Production [Memorandum No. 15-18, Page 74 of 79]
Recommendation: No recommendation
- F. Status Report on the Installation of Water Level Monitoring Equipment at Twelve Sites in the Beaumont Basin [Memorandum No. 15-19, Page 75 of 79]
Recommendation: No recommendation
- G. Discussion Regarding Overlying Users Revised Production Rights [Memorandum No. 15-20, Page 79 of 79]
Recommendation: No recommendation

VIII. Topics for Future Meetings

- A. Recycled Water Recharge Policy
- B. Adoption of the 2014 Consolidated Annual Report

IX. Comments from the Watermaster Committee Members

X. Announcements

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, October 7, 2015 at 10:00 a.m.

XI. Adjournment

Discussion Items

BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 15-14

Date: August 5, 2015

From: Joseph Zoba, Treasurer

Subject: Proposed Budget for Fiscal Year 2015-2016

Recommendation: That the Watermaster Committee adopts the budget as presented.

The attached draft budget for Fiscal Year 2015-16 provides funding for Administrative expenses in the amount of \$128,050, an increase from the prior year due to the consolidation of the Annual Report and the Engineering Report.

During the current fiscal year, the Watermaster concluded work on the safe yield study which was a special project between some of the Watermaster members. The remaining balance for the special project is shown on the draft budget as a credit for the participating agencies. At this time there are no special projects scheduled for next fiscal year. In the event that the Special Project Committee members decide to pursue additional tasks or another project, there will need to be an amendment to the Special Project budget prior to the adoption of the final budget at the next Watermaster meeting.

The draft budget was presented at the June 3, 2015 meeting.

Beaumont Basin Watermaster

Annual Operating and Special Project Budgets

Draft Budget

OPERATING REVENUE:	Account Number	Administrative Revenue	Special Pr
Carryover from Prior Fiscal Year	--	\$15,000.00	\$7
City of Banning	3120	\$22,610.00	-\$2
City of Beaumont	3105	\$22,610.00	
Beaumont Cherry Valley Water District	3110	\$22,610.00	-\$2
South Mesa Mutual Water Company	3125	\$22,610.00	-\$
Yucaipa Valley Water District	3115	\$22,610.00	-\$2
Total Operating Revenue		\$128,050.00	:

OPERATING EXPENSES:	Account Number	Amended Administrative Expenses	Spec Ex
Bank Fees & Interest	5000	\$50.00	
Miscellaneous & Meetings	5010	\$500.00	
Acquisition/Computation & Annual Report	5020	\$85,000.00	
Annual Audit	5040	\$2,500.00	
Engineering Services	5060	\$10,000.00	
Legal Expenses	5070	\$20,000.00	
Reserves	5080	\$10,000.00	
Special Project - Engineering	5910	--	
Special Project - Litigation	5915	--	
Total Operating Expense		\$128,050.00	:

Revenue Over / (Under) Expenses	\$0.00	\$
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BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 15-15

Date: August 5, 2015

From: Hannibal Blandon, ALDA

Subject: Evaluation of Groundwater Conditions and Operating Safe Yield for 2014

Recommendation: No recommendation.

The attached Technical Memorandum summarizes an evaluation of groundwater level trends, change in groundwater storage, and operating safe yield for the Beaumont Basin for the 2014 calendar year. Data summarized in this TM is also included in the Draft 2014 Annual Report. Groundwater level changes were evaluated at both the local level (as measured at key monitoring wells) and on a basin-wide basis.

Technical Memorandum

DRAFT



To: Mr. Hannibal Blandon
Alda, Inc.

From: Thomas Harder, P.G., CH.G.
Thomas Harder & Co.

Date: 29-May-15

Re: Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – Calendar Year 2014

Introduction

This Technical Memorandum (TM) summarizes an evaluation of groundwater level trends, change in groundwater storage, and operating safe yield for the Beaumont Basin for the 2014 calendar year. Data summarized in this TM is for use in the Beaumont Basin Watermaster 2014 Annual Report. Groundwater level changes were evaluated at both the local level (as measured in key monitoring wells across the basin) and on a basin-wide basis.

Basin-wide changes in groundwater levels reflect the overall water balance of the basin. Rising groundwater levels in any given time period indicate that recharge from all sources (e.g. areal recharge, return flow, artificial recharge, etc.) is exceeding discharge from all sources (e.g. pumping, underflow out, evapotranspiration, etc.) and the volume of groundwater in storage increases. Declining groundwater levels indicate the opposite. Regional changes in groundwater levels were used as a basis for estimating the change in groundwater storage of the Beaumont Basin. The change in storage estimate was used to evaluate the operating safe yield (OSY) of the basin for calendar year 2014.

Sources and Types of Data

All data summarized in this TM were provided by the appropriators and overlyers within the Beaumont Basin through Alda, Inc. Other sources of information included:

- The Beaumont Basin Watermaster website

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1260 N. Hancock St., Suite 109
Anaheim, California 92807
(714) 779-3875

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Evaluation of Groundwater Conditions and Operating Safe Yield of the Beaumont Basin – 2014

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- San Geronio Pass Water Agency (SGPWA)
- United States Geological Survey (USGS)

The types of data compiled and reviewed for this TM included:

- Groundwater production data from appropriators and overlyers
- Groundwater recharge data
- Groundwater levels
- Well locations

A well map showing Appropriator and Overlyer wells is provided on Figure 1. The eight wells used in the hydrograph analysis of groundwater level trends are also shown on Figure 1.

Analysis of Groundwater Flow and Changes in Groundwater Levels

Changes in groundwater flow and groundwater levels between 2013 and 2014 were evaluated using a calibrated groundwater flow model that was previously developed to reevaluate the safe yield of the Beaumont Basin (TH&Co, 2015). For this analysis, the existing calibrated model was updated with groundwater pumping, recharge, and groundwater levels through the end of 2014. A model-generated groundwater contour map was created for Fall 2014 and compared to the model-generated Fall 2013 groundwater contour map in order to evaluate changes in groundwater flow patterns and basin-wide changes in groundwater levels. The model-generated groundwater contour maps for 2013 and 2014 are shown on Figures 2 and 3, respectively.

Groundwater flow within the Beaumont Basin generally depends on location with respect to a groundwater flow divide which occurs in the center of the basin approximately coincident with the Noble Creek drainage (see Figures 2 and 3). West of the Noble Creek drainage, groundwater generally flows to the northwest and ultimately towards San Timoteo Wash. East of the Noble Creek drainage, groundwater flows to the southeast towards the City of Banning. The groundwater flow directions did not change significantly between 2013 and 2014.

Basin-wide groundwater level trends in the Beaumont Basin were evaluated based on hydrographs from eight key wells and the groundwater level change map developed by subtracting the 2013 groundwater surface from the 2014 groundwater surface (see Figures 4 and 5). In the northwest portion of the basin, groundwater levels declined slightly between Fall 2013 and Fall 2014. In the north central portion of the basin (TW-1), groundwater levels declined in the summer of 2014 and then stabilized. In the south-central portion of the basin, groundwater levels at Oak Valley No. 1 increased in 2014. At Beaumont-Cherry Valley Water District (BCVWD) Well No. 2, groundwater levels declined throughout 2014 until December



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Evaluation of Groundwater Conditions and Operating Safe Yield of the Beaumont Basin – 2014

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when groundwater levels rose to the highest levels in eight years. At Banning Well C-4 (southeast Beaumont Basin), groundwater levels have declined in the summer of 2014 but rose at the end of the year. However, the overall trend in this well since 2013 is downward. Groundwater levels in the northeast portion of the basin (335714116565002) were stable throughout 2013 and 2014.

Analysis of Change in Groundwater Storage

Basin-wide change in groundwater storage between Fall 2013 and Fall 2014 was analyzed as a function of the difference in groundwater levels across the basin and the specific yield of the aquifer sediments. Groundwater level change across the basin was analyzed using the following procedure:

1. The Fall 2013 and Fall 2014 model-generated groundwater contour maps were each converted into three-dimensional raster surfaces.
2. The basin was discretized into 50-meter (164-ft) by 50-meter grid cells.
3. Attributes were assigned to each grid cell including groundwater level change and specific yield.
4. The resulting attribute table was processed in a Geographic Information System (GIS) for calculating the change in storage.

The specific yield distribution used for the analysis was obtained from the calibrated groundwater flow model used to evaluate the safe yield of the Beaumont Basin, as summarized in TH&Co (2015).

Results of the analysis show a decrease in groundwater storage within the adjudicated basin of approximately 4,475 acre-ft between Fall 2013 and Fall 2014.

Operating Safe Yield

For purposes of this TM, the annual operating safe yield (OSY) describes the net infiltration to the adjudicated groundwater basin (not including artificial recharge) for any given year. It is noted that the OSY is different than the Operating Yield, which is a function of the unused overlying production (Appropriative Water) and Temporary Surplus, as described in the Beaumont Basin Judgment (San Timoteo Management Authority v. Banning et al., 2004).

Operating safe yield is estimated based on the following equation:



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Evaluation of Groundwater Conditions and Operating Safe Yield of the Beaumont Basin – 2014

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$$OSY = \frac{\sum P + \Delta S - \sum AR}{\Delta T}$$

where:

$\sum P$	=	The sum of groundwater production (acre-ft)
ΔS	=	The change in groundwater storage (acre-ft)
$\sum AR$	=	The sum of artificial recharge of imported water (acre-ft)
ΔT	=	The time over which the OSY is estimated (years)

Total Beaumont Basin groundwater production in calendar year 2014 was 16,985 acre-ft (see Table 1). Total artificial recharge in calendar year 2014 was 5,013 acre-ft (see Table 2). It is noted that only the Noble Creek Recharge Facility recharge was used in the analysis of OSY (recharge at the Little San Geronio Creek facility is not included because it is outside the adjudicated area). The change in groundwater storage estimate is based on the analysis of groundwater levels described earlier in this TM. The period of time over which the OSY is evaluated is one year. The resulting OSY is estimated as:

$$OSY = \frac{16,985 + (-4,475) - 5,013}{1} = 7,497 \text{ acre} - ft$$

It is emphasized that the OSY, as presented herein, is based on one year of data. When evaluated on a long-term basis, this methodology can be used to estimate the long-term Safe Yield of the basin, as defined in the Beaumont Basin Judgment. As required by the Judgment, the Safe Yield of the basin was reevaluated in 2014.

It is also noted that there are a number of data limitations that could impact the OSY estimate. These limitations include:

- **Accuracy of Overlyer Production Data** – Production data from many of the Overlying Parties is not metered but is estimated based on a water duty method (Wildermuth Environmental, 2012). In addition to inherent limitations in this methodology, there are, in some cases, discrepancies between groundwater production estimated using the water duty method and production reported by individual parties to the California State Water Resources Control Board. Resolution of Overlyer Production is anticipated to affect the OSY (plus or minus) on the order of hundreds of acre-ft (not thousands).



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Evaluation of Groundwater Conditions and Operating Safe Yield of the Beaumont Basin – 2014

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- **Change in Storage Calculation** – Although groundwater storage change estimates will always have inherent uncertainty, it is possible to develop more representative results through collection and analysis of additional data. These data include:
 - Static groundwater levels from dedicated non-pumping wells. There is evidence that groundwater levels measured in some wells had not recovered fully between pumping cycles in the well and were not, therefore, representative of true static conditions. This can be addressed by waiting longer after pumping to collect groundwater levels or constructing/designating non-pumping groundwater monitoring wells in strategic areas.
 - Measurement of surface water flow in selected drainages, hydrogeological data near Noble Creek and San Timoteo Creek, and hydrogeological analysis of faults in the basin to help achieve a better calibrated model, resulting in more accurate groundwater head distributions. Bettering our understanding of the hydrogeology of this area will help improve the accuracy of the model and its output.

References

- San Timoteo Management Authority vs. Banning et al., 2004. Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin. Case No. RIC 389197. Filed February 4, 2004.
- Thomas Harder & Co., 2015. 2013 Reevaluation of the Beaumont Basin Safe Yield. April 3, 2015.
- Wildermuth Environmental, 2007. Beaumont Basin Watermaster First Biennial Engineers Report - July 2003 through June 2006. Dated June 2007.
- Wildermuth Environmental, 2012. Combined 7th and 8th Annual Report for the Beaumont Basin Watermaster. Dated August 1, 2012.
- Wildermuth Environmental, 2013. Unpublished groundwater levels.



Table 1

Alda, Inc. / Beaumont Basin Watermaster

Water Production by Appropriator Producer (acre-ft)

Appropriator	Well Name	January	February	March	April	May	June	July	August	September	October	November	December	Total Production	
Banning, City of	Well C2-A	0.92	26.32	93.53	87.45	73.08	71.27	71.18	52.34	9.17	15.60	29.41	0.27	530.55	
	Well C3	68.23	26.68	2.45	26.86	58.57	66.84	72.88	61.87	46.67	49.20	41.33	5.18	526.85	
	Well C4	64.15	1.54	21.21	39.39	124.43	112.92	110.13	103.34	118.07	174.55	47.71	0.22	857.66	
	Well M3	98.35	71.39	96.73	80.19	26.16	68.39	29.34	37.68	92.03	69.36	0.00	0.37	670.01	
	Well M9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	From BCVWD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
	Subtotal	237.65	125.93	213.92	233.88	282.24	319.42	283.63	255.23	265.94	246.74	118.45	6.04	2585.07	
	Beaumont-Cherry Valley Water District	Well 1	0.00	0.00	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.89
		Well 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Well 3	7.45	81.36	72.53	140.86	143.45	161.90	192.28	124.14	135.01	122.24	85.06	15.61	1,281.78
Well 16		21.66	0.00	0.00	0.05	0.00	0.00	0.00	35.12	45.54	51.30	20.73	7.79	182.19	
Well 21		229.51	181.21	184.34	170.10	231.50	241.98	283.35	262.79	211.45	212.47	177.63	174.39	2,560.74	
Well 22		0.14	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	
Well 23		0.00	0.00	0.00	0.00	76.16	208.26	210.97	133.87	92.67	90.62	185.18	103.29	1,081.02	
Well 24		196.62	80.70	128.05	104.61	109.99	94.06	2.36	0.00	86.09	147.55	108.71	5.90	1,066.66	
Well 25		227.26	164.12	175.40	234.74	259.93	279.04	372.59	285.91	188.26	170.92	26.32	2.35	2,386.95	
Well 26		0.00	0.00	8.24	9.09	0.34	0.00	0.00	55.64	142.32	123.21	89.78	93.28	521.89	
Well 29	116.95	86.73	101.96	128.08	172.94	198.31	210.94	180.58	172.32	156.36	120.14	65.20	1,716.54		
Tc Banning	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	
Subtotal	803.60	596.12	671.35	794.41	994.31	1,163.47	1,272.49	1,078.06	1,073.65	1,076.68	793.56	467.82	10,805.51		
South Mesa Water Company	3rd No. 4 Well	17.43	24.26	56.87	30.32	36.34	50.25	56.87	46.55	54.69	45.88	33.22	19.04	473.72	
	Subtotal	17.43	24.26	56.87	30.32	36.34	50.25	56.87	46.55	54.69	45.88	33.22	19.04	473.72	
Yucaipa Valley Water District	Well 35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Well 48	5.13	57.04	81.70	143.34	96.60	127.08	136.46	108.92	127.87	156.59	117.87	39.87	1198.47	
Subtotal	5.13	57.04	81.70	143.34	96.60	127.08	136.46	108.92	108.92	127.87	156.59	117.87	39.87	1198.47	
Total		1,057.81	803.36	1,023.84	1,201.95	1,411.50	1,680.22	1,749.45	1,488.75	1,522.16	1,527.88	1,063.09	532.77	15,062.77	



Table 1

Alda, Inc. / Beaumont Basin Watermaster

Water Production by Overlying Parties² (acre-ft)

Overlying Party	Well Name	January	February	March	April	May	June	July	August	September	October	November	December	Total Production
Beckman, Walter M		0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66
California Oak Valley Golf and Resort LLC	Oak Valley #1	0.00	2.00	3.27	4.70	6.36	5.54	4.02	5.96	0.00	0.00	4.95	18.68	55.40
	Oak Valley #2	28.72	16.91	0.00	0.00	0.00	42.78	69.00	24.69	54.91	98.72	25.87	0.00	361.62
	Merlin Properties ^{2,3}	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.62
	Singleton Ranch #5	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	2.00
	Singleton Ranch #7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Oak Valley Partners ^{2,3}	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.50
	Irrigation Stokes													
Plantation on the Lake LLC		2.70	3.16	3.44	5.92	4.24	4.33	5.03	5.71	5.22	4.39	4.54	5.31	53.98
Rancho Calimesa		5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	69.3
Mobile Home Park ^{2,3}														
Roman Catholic Bishop of San Bernardino ²		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sharondale Mesa Owners Association	Well 1	5.14	4.03	4.95	5.98	5.01	8.71	10.11	7.04	6.54	8.85	4.89	1.76	78.00
	Well 2	4.75	3.66	4.27	5.40	6.30	6.41	6.93	4.35	5.42	5.48	4.61	1.75	59.32
	A	24.01	15.85	20.12	29.33	34.30	43.41	41.09	29.59	12.11	23.51	3.53	0.78	277.62
	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	D	55.39	29.99	34.61	63.05	114.36	127.53	119.26	111.46	134.49	85.82	58.39	15.96	950.32
Stearns, Leonard M. and Dorothy D. ^{2,3}		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.7
Albor Properties III, LP ^{2,3}		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	2.43
Nikodimov, Nick ^{2,3}		0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.77
McAmis, Ronald L. ^{2,3}		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.56
Aldame, Nicolas and Amalia ^{2,3}		0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.87
Gutierrez, Hector, et al. ^{2,3}		0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.43
Damont, Boris and Miriam ^{2,3}		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.35
Sunny Cal ^{2,3}		0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	4.34
Total		127.79	83.54	77.72	122.45	181.66	245.78	262.52	195.77	225.76	233.84	113.85	51.30	1,921.98
Basin Total		1,185.60	886.90	1,101.56	1,324.40	1,593.16	1,926.01	2,011.97	1,684.52	1,747.91	1,761.72	1,176.94	584.07	16,984.75

Notes:
¹ N/A = Not available.
² Not metered, water duty method used to estimate annual production.
³ Production estimated in all months based on annual total.

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Table 2

**Monthly Delivered Water
Noble Creek Recharge Facility**

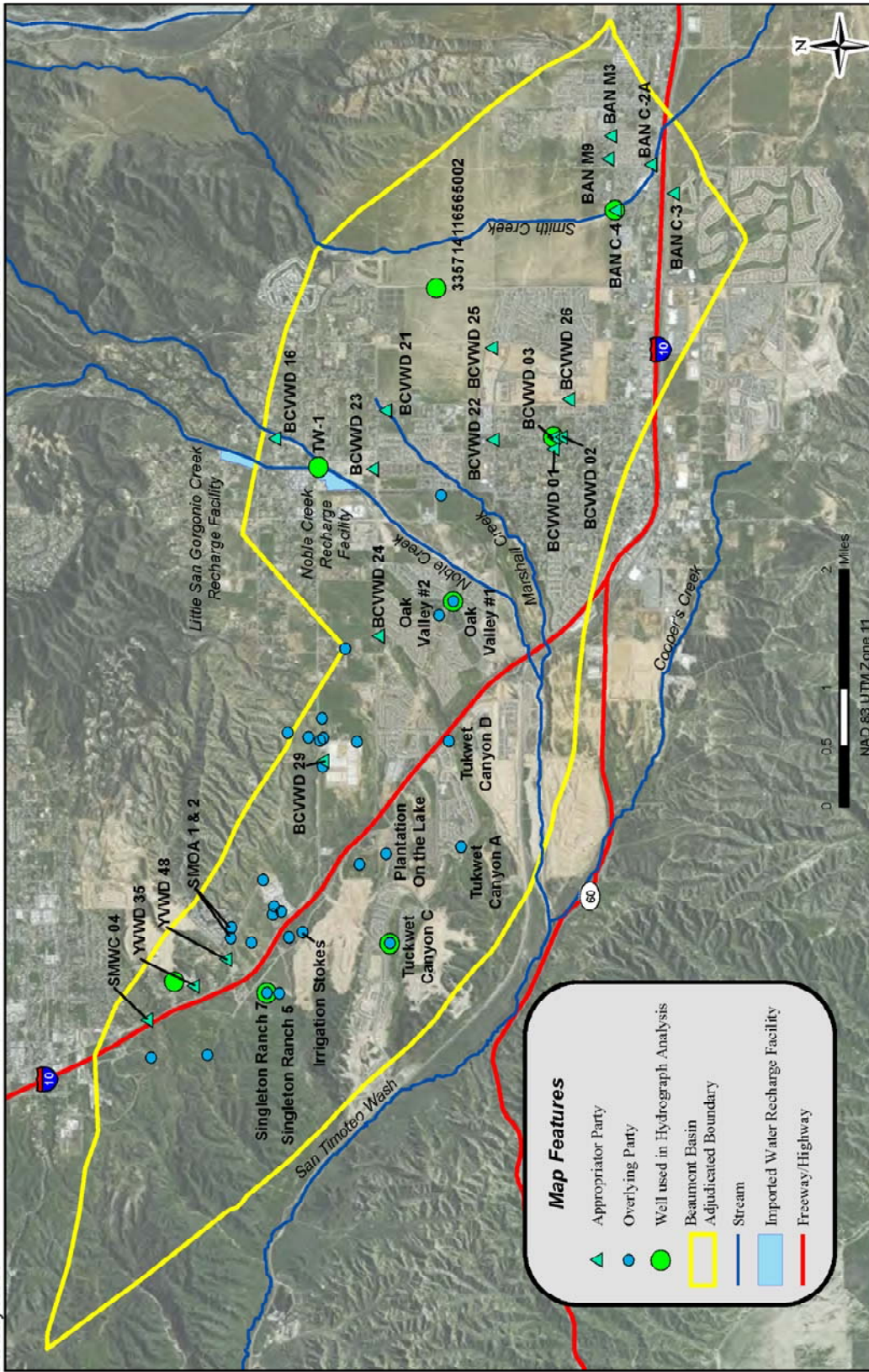
Month/Year	Basin Area (acres)	Monthly Delivered Water (acre-ft ¹)
Jan-14	10.21	311
Feb-14	10.21	0
Mar-14	10.21	0
Apr-14	10.21	654
May-14	10.21	382
Jun-14	10.21	701
Jul-14	10.21	617
Aug-14	10.21	701
Sep-14	10.21	527
Oct-14	10.21	359
Nov-14	10.21	362
Dec-14	10.21	399
Total		5,013

Note:
¹acre-ft = acre-feet



29-May-15

Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2014



Well Locations in the Beaumont Basin
Figure 1

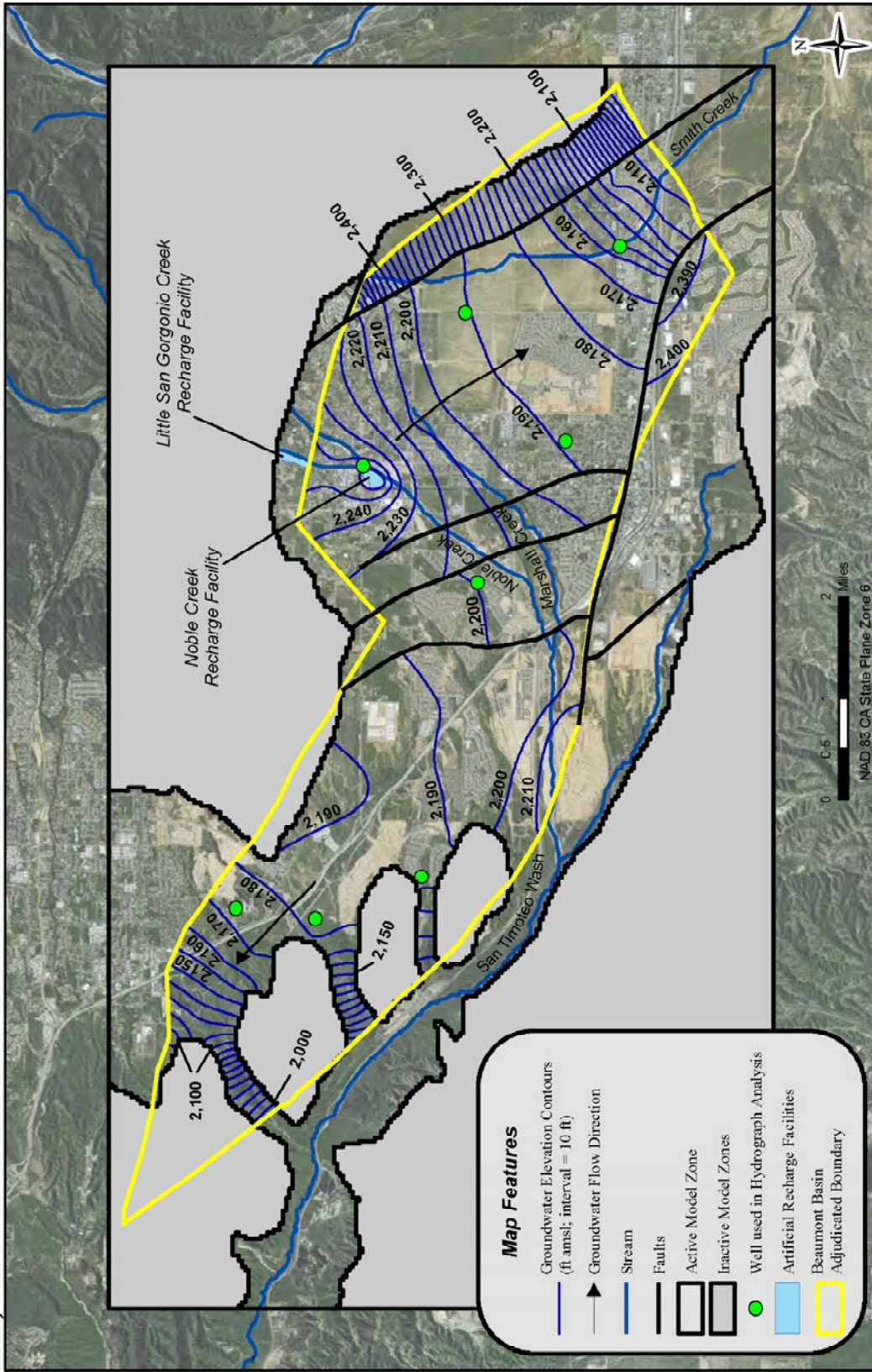
29-May-15

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Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2014

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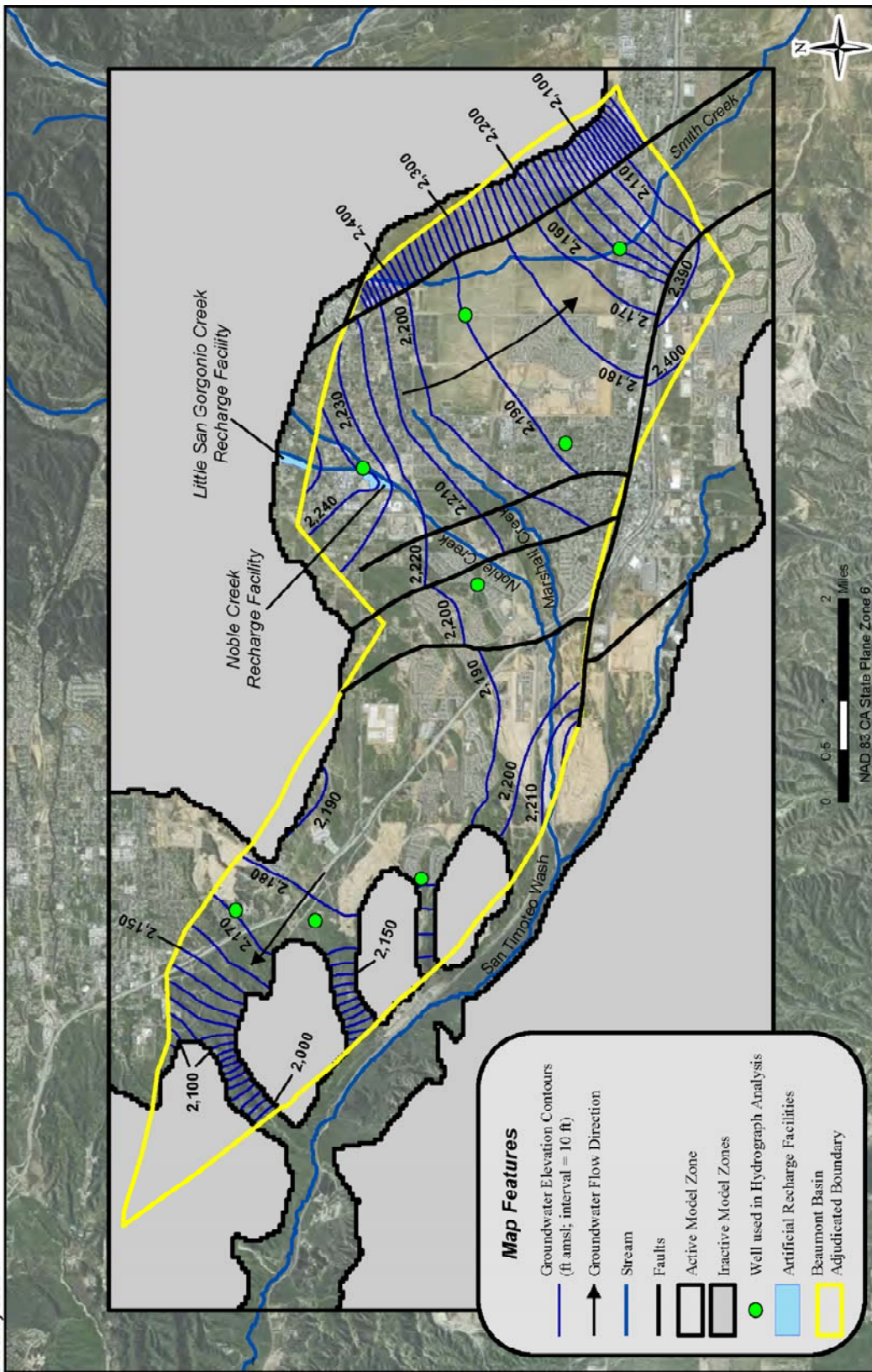
**Groundwater Contours
Fall 2013
Figure 2**

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29-May-15

Thomas Harder & Co.
Groundwater Consulting

Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2014

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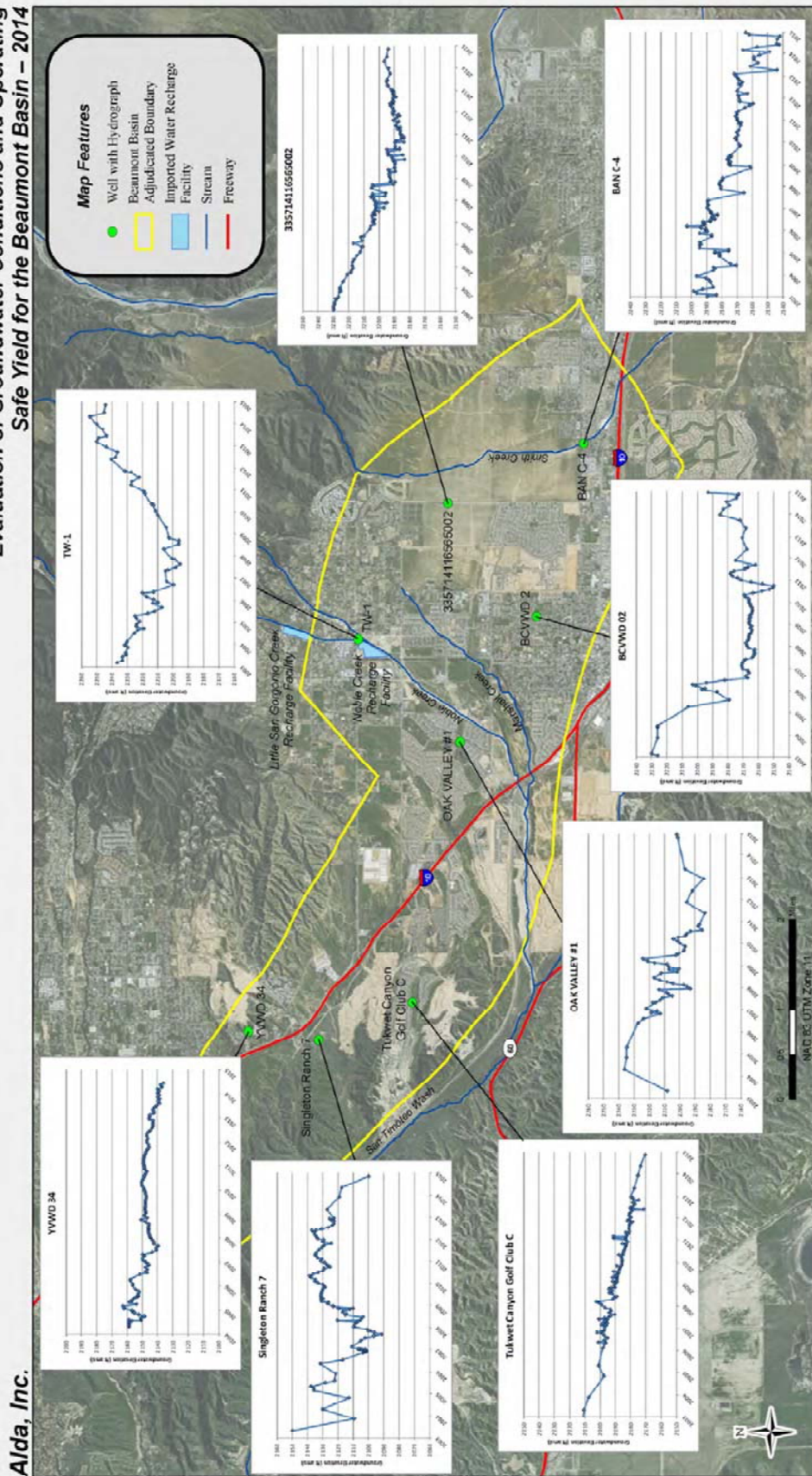


**Groundwater Contours
Fall 2014
Figure 3**

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29-May-15

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Groundwater Consulting

Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2014



28-May-15 **Groundwater Level Trends at Key Wells** Figure 4

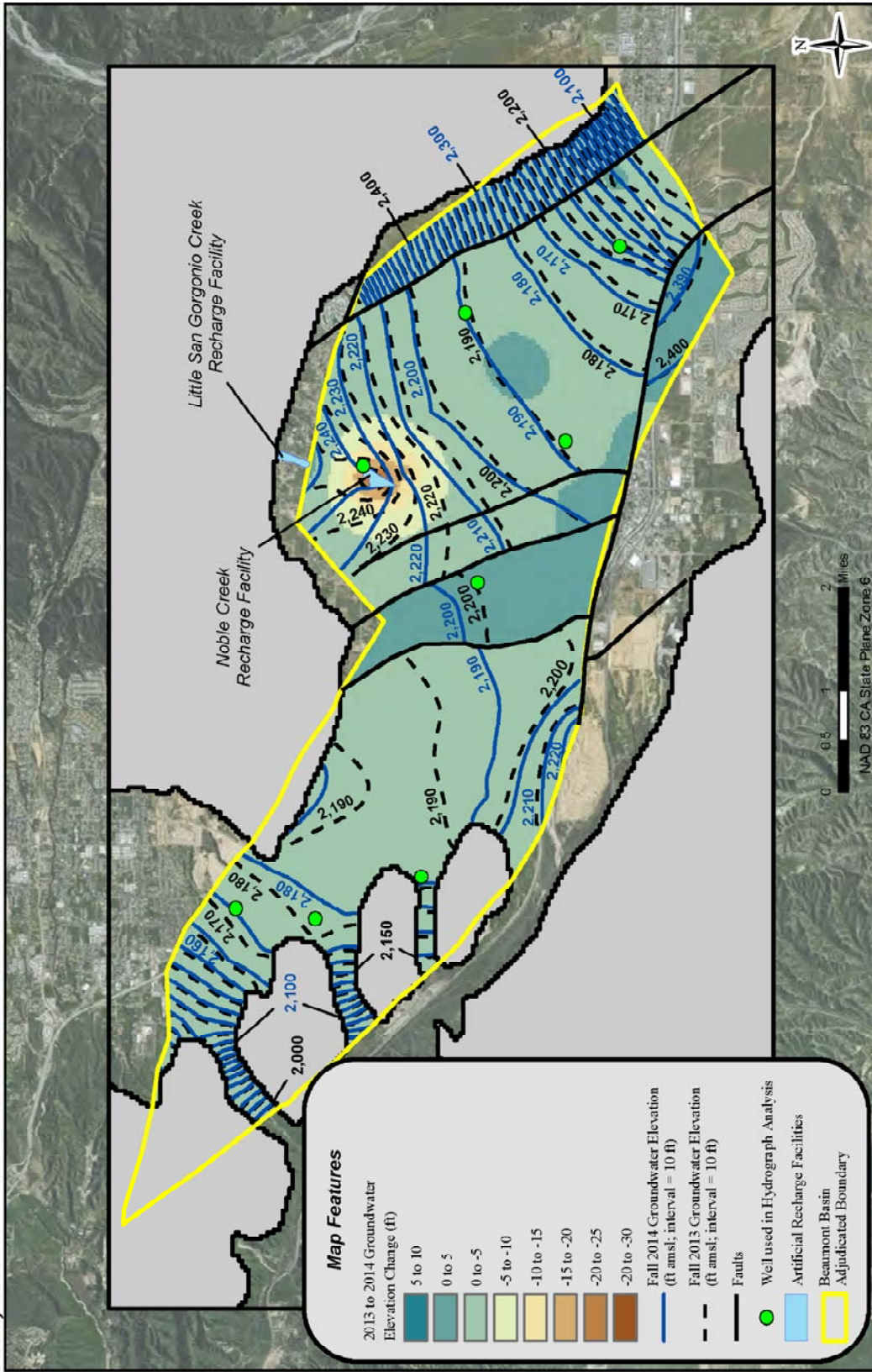
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Alda, Inc.

Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – 2014

Alda, Inc.



Groundwater Elevation Changes 2013 - 2014
Figure 5

DRAFT
29-May-15

Thomas Harder & Co.
Groundwater Consulting

BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 15-16

Date: August 5, 2015

From: Hannibal Blandon, ALDA

Subject: Presentation of the Consolidated Annual Report and Engineering Report for Calendar Year 2014

Recommendation: No recommendation.

The attached Technical Memorandum summarizes an evaluation of groundwater level trends, change in groundwater storage, and operating safe yield for the Beaumont Basin for the 2014 calendar year. Data summarized in this TM is also included in the Draft 2014 Annual Report. Groundwater level changes were evaluated at both the local level (as measured at key monitoring wells) and on a basin-wide basis.

A copy of the report is available online at the Beaumont Basin Watermaster website (<http://www.beaumontbasinwatermaster.org/>), or can be downloaded directly using the following link:

<http://documents.yvwd.dst.ca.us/bbwm/documents/2014annualreport150731.pdf>

BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 15-17

Date: August 5, 2015

From: Hannibal Blandon, ALDA

Subject: Proposed Groundwater Storage Agreement for the Morongo Band of Mission Indians

Recommendation: No recommendation.

On July 8, 2015, ALDA Inc. received a letter from Mr. Stephen B. Johnson, president of Stetson Engineers Inc., on behalf of the Morongo Band of Mission Indians, regarding the Groundwater Storage Agreement currently in place. In the letter, it was requested that Watermaster includes the Groundwater Storage Agreement between the Watermaster and the Tribe on the August 5, 2015 Watermaster meeting agenda for a short presentation to the Watermaster and potential Watermaster approval. Initial letter, technical memorandum, and accompanying attachments are included herein.

ALDA Inc., in association with Thomas Harder & Company, have conducted an initial review of the documents provided by Stetson Engineers Inc., and would like to offer the following comments for your consideration. Please note that our initial comments are based on our current knowledge of the basin only as no additional calculations or modeling runs have been conducted.

- **Location of Spreading Grounds – Technical Memorandum Figures 1 and 2.** – While these figures are not provided with a scale, aerial photography seems to indicate that the location of Tukwet Well B is approximately 600 ft. to 800 ft. south of the Beaumont Basin Adjudicated Boundary alignment depicted in the figure. Accordingly, the location of the proposed spreading grounds seems to be approximately 300 ft. to 400 ft. north of the boundary. Please note that the alignment of the Beaumont Basin boundary in this area is not a confirmed groundwater flow barrier.
- **Technical Memorandum Section 6.4d, Pg. 3 of 8.** – There is limited available hydrogeological data in the vicinity of the proposed recharge site to indicate the direction of groundwater flow in this area. If the applicant and/or their consultants have more detailed groundwater level data in this area (including a contour map), they should include it. Available data suggests the groundwater gradient is relatively flat in the area. It is possible that supplemental water recharge at the proposed location could result in groundwater mounding that would result in flow out of the basin and increased losses. The applicant should provide an analysis of the potential impact of recharging 700 ac-ft of water (or more) on the

groundwater flow direction and gradient. While it is acknowledged that a methodology is necessary for assessing losses out of the basin, any such methodology should include the installation of features that will enable us to collect the data necessary to confirm the loss (e.g. monitoring wells). Regardless, the proposal to store the water without accounting for losses does not seem tenable.

- **Technical Memorandum - Resolution No. 2005-01 – Section 2 – Pg. 5 of 8.** - Given the location of the proposed project and assuming that a northerly groundwater flow direction is correct, the most likely beneficiary of the recharged supplemental water will be other wells owned by the applicant (e.g. Tukwet A). It is not likely that the project will significantly improve the groundwater quality for other pumpers in the basin.
- **Technical Memorandum - Resolution No. 2005-01 – Section 4 - Pg. 7 of 8.** - It is stated that the total dissolved solids and nitrate concentrations in the water from Well B are below the maximum benefit objectives for the Beaumont Basin. The laboratory reports of water quality attached to the Technical Memorandum report a nitrate concentration of 16 milligrams per liter (mg/L). However, the laboratory does not indicate whether the nitrate concentration is reported as nitrogen (N) or nitrate (NO₃). If the value is reported as N, then the Maximum Contaminant Level is 10 mg/L and the water quality would not be in conformance with the maximum benefit objectives. The applicant should provide a revised laboratory report from the laboratory that confirms how the nitrate concentration is reported.
- **Laboratory Report Chain of Custody** - In the chain of custody for the laboratory report, it is indicated that radiological analyses were requested from the laboratory but no radiological water quality is reported. The results of these tests should be included in the laboratory report.

A representative from the Morongo Band of Mission Indians and/or their consultant will make a formal presentation to the Watermaster. Potential impacts resulting from the implementation of this project should be studied carefully before making a recommendation on this issue.



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1863

Reply to: Covina

July 7, 2015

ALDA Inc.
 5928 Vineyard Ave
 Alta Loma, Ca 91701
 ATT: Hannibal Blandon

Subject: Morongo Band of Mission Indians – Proposed Groundwater Storage Agreement

Dear Mr. Blandon:

The Morongo Board of Mission Indians (Tribe) hereby submits, through Beaumont Basin Watermaster's (Watermaster) engineer, "Watermaster Form 2 - Groundwater Storage Agreement", along with supporting documents, to Watermaster to store Supplemental Water in the Beaumont Basin. The request to store Supplemental Water is consistent with the terms of the Beaumont Basin Judgment (Judgment), Section 6 of the Watermaster Rules and Regulations, and Watermaster Resolution 2005-01. The attached Technical Memorandum supporting the Tribe's proposed Supplemental Water storage project is provided for Watermaster's use.

The Tribe's proposed Supplemental Water storage project consists of importing water from the San Timoteo Basin for delivery and recharge in the Beaumont Basin. The initial source of the Supplemental Water will be through groundwater production from the Tribe's Well "B", located in the San Timoteo Basin. The Supplemental Water will then be delivered through pipelines to an area on the Tribe's Tukwet Canyon Golf Club where it will be placed in replenishment ponds in the Beaumont Basin. The following was considered when preparing the attached Groundwater Storage Agreement package:

- Watermaster Rules and Regulations ("Storage")
- Watermaster Resolution 2500-01
- Watermaster Form 1 – Application for Groundwater Storage Agreement;

W A T E R R E S O U R C E P R O F E S S I O N A L S
 S E R V I N G C L I E N T S S I N C E 1 9 5 7



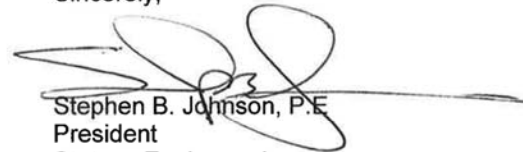
Mr. Hannibal Blandon
July 7, 2015
Page 2

- Watermaster Form 2 - Groundwater Storage Agreement;
- Watermaster Form 3 - Application for Recharge; and
- Watermaster Form 4 – Application to Recapture Water in Storage.

The attached Technical Memorandum includes a response for each of these required Watermaster forms. (The Tribe previously submitted Watermaster Form 1 - Application for Groundwater Storage Agreement, which was approved by the Watermaster at its June 5, 2013 meeting for 20,000 acre-feet (AF) of groundwater storage within the Beaumont Basin.)

The Watermaster is requested to include the Groundwater Storage Agreement between the Watermaster and the Tribe on the August 5, 2015 Watermaster meeting agenda for a short presentation to the Watermaster and potential Watermaster approval. We thank the Watermaster in advance for consideration of the Tribe's Groundwater Storage Agreement. Please feel free to contact this office should you have any questions.

Sincerely,



Stephen B. Johnson, P.E.
President
Stetson Engineers Inc.

cc: Roger Meyer
Michael Milhiser
John Covington
Mark St. Angelo, Esq.

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TECHNICAL MEMORANDUM

WELL “B” RECHARGE PROJECT MORONGO BAND OF MISSION INDIANS GROUNDWATER RECHARGE STORAGE AGREEMENT JUNE 2015

BACKGROUND

The Beaumont Basin Judgment (Judgment) includes provisions in Section V.5 regarding the “Use of Available Groundwater Storage Capacity” in the Beaumont Basin. In addition, the Beaumont Basin Watermaster (Watermaster) has established Rules and Regulations pursuant to Section VI.5.A of the Judgment. In particular, Section 6 of the Rules and Regulations addresses “Storage”. Furthermore, the Watermaster has developed Form 1 – Application for Groundwater Storage Agreement, Form 2 – Groundwater Storage Agreement, Form 3 – Application for Recharge, and Form 4 – Application to Recapture Water in Storage. The Morongo Board of Mission Indians (Tribe) submitted a completed “Application for Groundwater Storage Agreement”, as shown in Attachment A. The Application for Groundwater Storage Agreement was approved by the Watermaster at its June 5, 2013 meeting for 20,000 acre-feet (AF) of groundwater storage.

The Tribe is developing projects to store Supplemental Water in the Beaumont Basin which will be consistent with the terms of the Beaumont Basin Judgment, Section 6 of the Rules and Regulations, and Watermaster Resolution 2005-01. The initial storage project consists of importing water from the San Timoteo Basin (Supplemental Water) into the Beaumont Basin. With California facing one of the most severe droughts on record, the proposed Project will help to increase the availability and reliability of water supplies in the Beaumont Basin. As a result of the proposed Project, up to 700 AF per year of Supplemental Water from the San Timoteo Basin will be delivered. In the future other supplemental sources of water supply will be recharged and stored in the Beaumont Basin.

DESCRIPTION OF INITIAL PROJECT

The Tribe owns and operates the Tukwet Canyon Golf Club and has 2,200 acre-feet of Overlying Rights as noted in the Beaumont Basin Judgment. The Tribe currently produces groundwater from the Beaumont Basin to serve the overlying needs of the Tukwet Canyon Golf Club. In addition, the Tribe owns Well "B" which is located on the Tukwet Canyon Golf Course, but is within the San Timoteo groundwater basin. The locations of the Well "B", the Tribe's other wells (A, C, and D) and the Beaumont Basin adjudicated boundary are shown on Figure 1, which is derived from Figure 3-3 of the Beaumont Basin Watermaster's 2013 Annual Report.

The initial source of Supplemental Water to be stored in the Beaumont Basin is groundwater produced from Well "B", located in the San Timoteo Basin, and separate from the Beaumont Basin. Supplemental Water from Well "B" will be delivered to an area of the Tribe's Tukwet Canyon Golf Club, (overlying the Beaumont Basin) where it will be recharged into the Beaumont Basin. The locations of the initial facilities are provided in Figure 1 and Figure 2. Future phases of the proposed Supplemental Water recharge program may involve additional facilities.

As part of entering into a Groundwater Storage Agreement, it is the Tribe's understanding the Watermaster requires the following items to be addressed

- Watermaster Form 1- Application for Groundwater Storage Agreement
- Watermaster Rules and Regulations Section 6.4
- Watermaster Resolution 2500-01
- Watermaster Form 2 - Groundwater Storage Agreement
- Watermaster Form 3 - Application for Recharge
- Watermaster Form 4 – Application to Recapture Water in Storage

The Tribe previously completed Watermaster Form 1 - Application for Groundwater Storage Agreement, which is provided in Attachment A. During a June 5, 2013 Watermaster meeting, the Watermaster approved the Tribe's Application (designated as "Memorandum No. 13-14") for 20,000 acre-feet (AF) of storage within the Beaumont Basin.

Discussions of the remaining items for a Groundwater Storage Agreement required by Watermaster are provided below.

WATERMASTER RULES AND REGULATIONS SECTION 6.4

Section 6, Storage: Watermaster's Rules and Regulations, amended September 9, 2008, lists the required components which are to be included in a Groundwater Storage Agreement. A copy of Section 6 is provided in Attachment B and is described below.

6.4 (a) “The quantities and term of the storage right, which shall specifically exclude credit for any return flows”

Response: Pursuant to the Tribe’s approved “Application for Groundwater Storage Agreement”, the Tribe plans to store up to 20,000 AF within the Beaumont Basin. The proposed Project will initially store up to 700 acre-feet per year (AFY) of Supplemental Water into the Beaumont Basin.

The term of the Groundwater Storage Agreement will be in perpetuity.

6.4 (b) “A statement of the priorities of the storage right as against overlying, Safe Yield uses, and other storage rights”

Response: As a Producer from the Beaumont Basin, the Tribe is prepared to make the stored Supplemental Water available for in-Basin uses including use on overlying lands owned by the Tribe and for transfer to Appropriators. As such, the proposed Supplemental Water storage will have equal priority with all other Supplemental Water stored by other Producers.

6.4 (c) “The projected delivery rates, together with projected schedules and procedures for spreading, injection or in-lieu deliveries of Supplemental Water for direct use”

Response: The source of Supplemental Water for the proposed Project is groundwater from the San Timoteo Basin. The Supplemental Water will be delivered through pipelines from the San Timoteo Basin to a recharge basin located within the Tukwet Canyon Golf Club which is overlying, and within, the Beaumont Basin.

The proposed Project will initially produce approximately 300 to 450 gallons per minute (gpm) of Supplemental Water from the San Timoteo Basin for recharge into the Beaumont Basin continuously throughout the year, or approximately 700 AFY. The Tribe will make necessary adjustments to the delivery rates and schedules to account for any potential variations in recharge basin infiltration capacity. The location of the source of supply and recharge area is shown on Figure 2.

6.4 (d) “The calculation of storage water losses and annual accounting for water in storage”

Response: Supplemental Water from the San Timoteo Basin will be metered at the source (Well “B”) to account for the quantity of Supplemental Water delivered to, and stored in, the Beaumont Basin.

Section 3.5 “Storage Accounting” of the Beaumont Basin Watermaster’s 2013 Annual Report states in part “While additions (spreading) and

extractions (pumping) are easily quantifiable, losses from storage are more difficult to estimate. A methodology for estimating groundwater losses from the Basin will be developed as part of the on-going groundwater model update of the Beaumont Basin.” Currently there are no modifications for gains or losses in the Beaumont Basin Watermaster due to extenuating circumstances. The Tribe is prepared to cooperatively work with the Beaumont Basin Watermaster to help develop a process to account for losses of stored water. Until such time the Beaumont Basin Watermaster develops methodology to determine losses, it is proposed that there be no losses applied to the Supplemental Water proposed to be stored in Beaumont Basin.

6.4 (e) “The establishment and administration of withdrawal schedules, locations and methods”

Response: The Tribe is prepared to discuss the establishment and administration of withdrawal schedules, locations, and methods with the Watermaster.

RESOLUTION NO. 2005-01

Watermaster Resolution No. 2005-01 (“Establishing Principles of Groundwater Storage in the Beaumont Basin by Non-Appropriators”), (see Attachment C) adopted April 12, 2005, provides principles established by the Watermaster to govern the use of Beaumont Basin groundwater storage capacity by non-Appropriators, which include the Tribe. Provisions of Resolution No. 2005-01 are provided below.

Section 1 (Resolution 2005-01)

Section 1 of Watermaster’s Resolution No 2005-01 provides definition of key terms used in the resolution.

Section 2 (Resolution 2005-01)

Section 2 of Watermaster’s Resolution No 2005-01 indicates preference will be given to groundwater storage projects meeting certain criteria. The criteria, as well as relevant information pertaining to the proposed Project, are described below.

Section 2.a. “Increase the reliability of water supplies”;

Response: The proposed Project will increase the availability and reliability of water supplies in the Beaumont Basin. As a result of the proposed Project, up to 700 AF per year of Supplemental Water from the San Timoteo Basin will be delivered. In the future other supplemental sources of water supply will be recharged and stored into the Beaumont Basin. These deliveries will have a superior water quality to the Regional

Water Quality Control Board (Regional Board) water quality objectives in the Beaumont Basin and will augment deliveries of State Water Project water

Section 2.b. "Reduce the cost of enhancing the reliability of water supplies";

Response: The proposed Project will deliver superior quality Supplemental Water to the Beaumont Basin. As a result, the need to address water quality in pumped groundwater and/the need to construct water treatment facilities may be delayed.

Section 2.c. "Is proposed by, or is conducted for the benefit of, ratepayers";

(Not applicable.)

Section 2.d. "Financially benefit ratepayers";

Response: Delivery of superior quality Supplemental Water may delay the need to construct additional water treatment facilities or the importing of a higher cost water supply from undefined sources. Consequently, ratepayers may not be required to pay higher rates, which otherwise may have been required to fund treatment facilities.

Section 2.e. "Will not injure existing Overlying and Appropriative Water Rights";

Response: The proposed Project will not injure existing Overlying and Appropriative water rights. As discussed above, the proposed Project will enhance the reliability of Beaumont Basin water supplies by providing additional Supplemental Water, which is superior to water quality in the Beaumont Basin.

Section 2.f. "Will not waste water";

Response: The proposed Project will not waste water. Supplemental Water from the San Timoteo Basin will be metered at the source (i.e. Well "B") to determine the quantity of Supplemental Water annually delivered to and stored in the Beaumont Basin. In addition, the Tribe is prepared to make the stored Supplemental Water available for in-Basin uses including use on overlying lands owned by the Tribe and for transfer to Appropriators. The Tribe is prepared to cooperatively work with the Beaumont Basin Watermaster to help develop a process to account for losses of stored water. It is anticipated losses may occur as the result of sub-surface outflow and/or evaporation. Until such time the Beaumont Basin Watermaster develops methodology to determine losses, it is proposed that there be no losses applied to the Supplemental Water proposed to be stored in Beaumont Basin.

Section 2.g. "Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of

Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin”; and

(Not applicable.)

Section 2.h. “Will not impair future opportunities to store water in the Beaumont Basin”

Response: The proposed Project will enhance the reliability of Beaumont Basin water supplies. In addition, Total Dissolved Solids (TDS) and nitrate concentrations at Well “B” in the San Timoteo Basin are below the concentrations of the maximum benefit objectives adopted by the Regional Board for portions of the Beaumont Basin and are not expected to negatively impact the quality of water produced by Overlying and Appropriative Producers.

Section 3 (Resolution 2005-01)

Section 3 of Watermaster’s Resolution No 2005-01 provides the two types of groundwater storage programs considered by Watermaster. The types of programs, as well as relevant information pertaining to the proposed Project, are described below.

Section 3.a. “Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin: revenue generated thereby shall be used to fund capital facilities”; and

Response: The Tribe will coordinate with the Watermaster regarding any administrative charge levied for the purpose of groundwater storage capacity, if any.

Section 3.b. “Projects which propose the sale of Temporary Surplus: revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.”

(Not applicable.)

Section 4 (Resolution 2005-01)

Section 4 of Watermaster’s Resolution No 2005-01 indicates a Groundwater Storage Agreement shall include certain items. These items, as well as relevant information pertaining to the proposed Project, are described below.

Section 4.a. “The payment of administrative and storage fees to the Watermaster”;

Response: The Tribe and Watermaster have not previously discussed administrative and storage fees to be paid by the Tribe associated with the proposed Project. The Tribe will coordinate with Watermaster regarding the administrative and storage fees.

Section 4.b. "The payment of fees for the use of Temporary Surplus";

(Not applicable.)

Section 4.c. "Accounting for Supplemental Water losses while in storage";

Response: The Tribe and Watermaster have not previously discussed accounting for Supplemental Water losses while in storage associated with the proposed Project. As discussed previously, the Tribe is prepared to cooperatively work with the Beaumont Basin Watermaster to help develop a process to account for losses of stored water.

Section 4.d. "Term limit"

Response: The proposed Project will initially store up to 700 AFY of Supplemental Water in the Beaumont Basin. The Tribe proposed to store Supplemental Water in the Beaumont Basin in perpetuity. The Tribe recognizes up to 20,000 AF of Supplemental Water can be stored in the Beaumont Basin based on the Groundwater Storage Agreement.

Section 4.e. "Reasonable limitations on the rates of storage and recovery of Stored Water";

Response: The proposed Project will initially store up to 700 AFY of Supplemental Water into the Beaumont Basin based on the pump tests conducted at Well "B". The Tribe recognizes up to 20,000 AF of Supplemental Water can be stored in the Beaumont Basin based on the Groundwater Storage Agreement. The Supplemental Water recharged and stored in the Beaumont Basin may be made available to all Basin Appropriators for purchase.

Section 4.f. "Protection of water quality in the Beaumont Basin."

Response: TDS and nitrate concentrations at Well "B" in the San Timoteo Basin are below the concentrations of the maximum benefit objectives adopted by the Regional Board for portions of the Beaumont Basin and are not expected to negatively impact the quality of water produced by Overlying and Appropriative Producers.

WATERMASTER FORM 2 - GROUNDWATER STORAGE AGREEMENT

The Tribe has completed Watermaster Form 2 - Groundwater Storage Agreement, which is provided in Attachment D. The contents of Form 2 are based on information previously provided in this submittal.

WATERMASTER FORM 3 - APPLICATION FOR RECHARGE

The Tribe has completed Watermaster Form 3 - Application for Recharge, which is provided in Attachment E. The contents of Form 3 are based on information previously provided in the submittal.

WATERMASTER FORM 4 - APPLICATION TO RECAPTURE WATER IN STORAGE

The Tribe has completed Watermaster Form 4 - Application to Recapture Water in Storage, which is provided in Attachment F. The contents of Form 4 are based on information previously provided in the submittal.

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ATTACHMENT A

WATERMASTER FORM 1 (APPROVED) (APPLICATION FOR GROUNDWATER STORAGE AGREEMENT)

BEAUMONT BASIN WATERMASTER
APPLICATION
FOR
GROUNDWATER STORAGE AGREEMENT

APPLICANT

Morongo Band of Mission Indians
Name

12700 Pumarra Road
Address for Notice

Banning CA 92220
City State Zip Code

Telephone: 951-755-5220

Facsimile: 951-849-5108

For Staff Use Only	
Date Requested:	_____
Date Approved:	_____
Amount Requested:	_____ acre feet
Amount Approved:	_____ acre feet
Agreement No.:	_____

TYPE OF WATER TO BE PLACED IN STORAGE

Supplemental Water Other: In-lieu overlyer water Both

PURPOSE OF STORAGE – Check all that may apply

- Stabilize or reduce future water costs/assessments.
- Facilitate utilization of other available sources of supply.
- Facilitate replenishment under certain well sites.
- Preserve pumping right for a changed future potential use.
- Other, explain _____

METHOD AND LOCATION OF PLACEMENT IN STORAGE – Check and attached all that may apply

- Recharge.
- Assignment in-lieu of Production.
- Other, explain _____

METHOD AND LOCATION OF RECAPTURE FROM STORAGE – Check and attach all that may apply

- Pump from my well(s).
- Other, explain Water may be pumped up by an Appropriator or other user who purchases the water using the Appropriator's or other user's own well(s).

WATER QUALITY AND WATER LEVELS:

Description of groundwater quality in vicinity of facility and quality of water to be stored: To the extent that the Supplemental Water is used for direct surface application in lieu of extraction of groundwater already in the Beaumont Basin, the quality of the water to be stored will be the same as the water already in the Beaumont Basin. To the extent that the Supplemental Water is to be used for recharge, the quality of the water will be equivalent to the quality of groundwater currently in the San Timoteo Basin.

Description of existing water levels in the areas that are likely to be affected: Because the amount of Supplemental Water is likely to be only 2,000-2,500 acre feet per year, it is not likely to have a significant effect on the existing water levels in the area where that Supplemental Water is to be applied or stored by recharge.

NEGATIVE IMPACTS OF PROPOSED RECAPTURE:

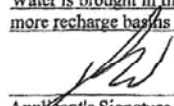
Is the Applicant aware of any potential negative impacts to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in negative impact to a party to the Judgment or the Basin?

N/A

ADDITIONAL INFORMATION ATTACHED Yes [] No []

Describe: Note: The Morongo Band of Mission Indians is the owner of the Morongo Golf Club at Tukwet Canyon, f/k/a Southern California PGA, and intends to use some or all of the Supplemental Water for direct surface application on the golf course in lieu of extraction of groundwater pursuant to its over/yer water right as set forth in the Judgment pursuant to which the Watermaster was created. To the extent more Supplemental Water is brought in than can be used beneficially for surface application, it will be stored by means of one or more recharge basins located on the golf course property or elsewhere in the Beaumont Basin.


Applicant's Signature

Roger Meyer
Print Name

Chief Executive Officer
Title

ATTACHMENT B

WATERMASTER RULES AND REGULATIONS SECTION 6.4 RULES AND REGULATIONS OF THE BEAUMONT BASIN WATERMASTER

**Adopted: June 8, 2004
Amended: February 7, 2006
Amended: September 9, 2008**

BEAUMONT BASIN WATERMASTER Rules and Regulations

SECTION 6 STORAGE

- 6.0 In General.** A substantial amount of available groundwater storage capacity exists that is not used for storage or regulation of basin waters. It is essential that the use of storage capacity be undertaken only under Watermaster control and regulation so as to protect the integrity of the Beaumont Basin. The Watermaster shall exercise regulation and control of storage primarily through the execution of Groundwater Storage Agreements.
- 6.1 Relationship Between Recapture and Storage.** Recapture of water held in a storage account will generally be approved by the Watermaster as a component of and coincident with a Groundwater Storage Agreement. However, the Watermaster may approve a Groundwater Storage Agreement where the plan for recovery is not yet known. In such cases, the applicant for a Groundwater Storage Agreement may request Watermaster approval of the Agreement and subsequently submit and process an independent Application for Recapture to the Watermaster.
- 6.2 Storage of Water.** Storing Supplemental Water for withdrawal, or causing withdrawal of water unused and stored in prior years, shall be subject to the terms of a Groundwater Storage Agreement with the Watermaster. Any Water recharged by any person is deemed abandoned and shall not be considered water stored except pursuant to these Rules and Regulations and a Groundwater Storage Agreement.
- 6.3 Application for Storage of Water.** The Watermaster will ensure that any Person, including, but not limited to, the State of California and the Department of Water Resources, shall make an application to the Watermaster to store and recover water as provided herein. The Watermaster shall also ensure that sufficient storage capacity shall be reserved for local projects implemented by the Appropriators.
- 6.4 Contents of Groundwater Storage Agreements.** Each Groundwater Storage Agreement shall include, but not be limited to, the following components:
- (a) The quantities and term of the storage right, which shall specifically exclude credit for any return flows;
 - (b) A statement of the priorities of the storage right as against overlying, Safe Yield uses, and other storage rights;
 - (c) The projected delivery rates, together with projected schedules and procedures for spreading, injection or in-lieu deliveries of Supplemental Water for direct use;
 - (d) The calculation of storage water losses and annual accounting for water in storage; and
 - (e) The establishment and administration of withdrawal schedules, locations and methods.
- 6.5 Notice of Pending Applications.** Upon receipt of an application, the Watermaster staff shall prepare a written summary and analysis of each such application. The application along with the written summary and analysis shall be distributed to the Producers and any other interested parties not less than 21 days prior to the date the Watermaster is scheduled to consider and take action on the pending application. The cost of the written summary and analysis of each such application shall be borne by the applicant.

BEAUMONT BASIN WATERMASTER Rules and Regulations

- 6.6 Watermaster Investigations of Applications.** The Watermaster may, in its discretion, cause an investigation of the subject of a pending application. Any party to the proceeding may be requested to confer and cooperate with the Watermaster's staff and consultants, and to provide such additional information and data as may be reasonably required to complete the investigation.
- 6.7 Accounting for Water Stored.** The Watermaster shall calculate additions, extractions and losses of all water stored and any losses of water supplies or Safe Yield resulting from such water stored, and keep and maintain for public record an annual accounting thereof.

ATTACHMENT C

WATERMASTER RESOLUTION 2005-01

3/29/05

RESOLUTION NO. 2005-01
A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER
ESTABLISHING PRINCIPLES OF GROUNDWATER STORAGE IN THE
BEAUMONT BASIN BY NON-APPROPRIATORS

WHEREAS, there exists in the Beaumont Basin a substantial amount of available groundwater storage capacity; and

WHEREAS, such capacity can be reasonably used for storing supplemental water; and

WHEREAS, the Watermaster desires to establish by this Resolution certain fundamental principles governing the future use of such capacity by non-Appropriators.

NOW, THEREFORE, the Beaumont Basin Watermaster hereby resolves as follows:

Section 1. Definitions

As used herein, these terms shall have the following definitions:

- a. **Groundwater Storage Agreement:** a standard form of written agreement between the Watermaster and any Person requesting the storage of Supplemental Water.
- b. **Groundwater Storage Capacity:** the space available in the Beaumont Basin that is not utilized for storage or regulation of Safe Yield and is reasonably available for Stored Water and Conjunctive Use.
- c. **Person:** any non-appropriator individual, partnership, association, corporation, governmental entity or agency, or other organization.
- d. **Storage Program:** Supplemental Water stored in the Beaumont Basin for later use, or the sale of Temporary Surplus.
- e. **Stored Water:** Supplemental Water stored in the Beaumont Basin pursuant to a Groundwater Storage Agreement with the Watermaster.
- f. **Supplemental Water:** water imported into the Beaumont Basin from outside the Beaumont Basin including, without limitation, water diverted from creeks upstream and tributary to the Beaumont Basin and water which is recycled and useable within the Beaumont Basin.
- g. **Temporary Surplus:** the amount of groundwater that can be pumped annually in excess of the Safe Yield of the Beaumont Basin necessary to create enough additional storage capacity to prevent the waste of water.

3/29/05

Section 2. Preferred Groundwater Storage Projects

Preference shall be given to groundwater storage projects that:

- a. Increase the reliability of water supplies;
- b. Reduce the cost of enhancing the reliability of water supplies;
- c. Is proposed by, or is conducted for the benefit of, ratepayers;
- d. Financially benefit ratepayers;
- e. Will not injure existing Overlying and Appropriative Water Rights;
- f. Will not waste water;
- g. Will generate revenue to purchase rights to additional Supplemental Water and/or construct facilities for direct delivery of Supplemental Water or the percolation of Supplemental Water into the Beaumont Basin; and
- h. Will not impair future opportunities to store water in the Beaumont Basin.

Section 3. Types of Groundwater Storage Programs

The Watermaster shall consider two types of Storage Programs:

- a. Projects which propose to rent Groundwater Storage Capacity in the Beaumont Basin: revenue generated thereby shall be used to fund capital facilities; and
- b. Projects which propose the sale of Temporary Surplus: revenue generated thereby shall be used to purchase the rights to additional Supplemental Water supplies.

Section 4. Groundwater Storage Agreement

In order to prevent injury to existing water rights, to prevent the waste of water, and to protect the use of Supplemental Water in storage and the Safe Yield of the Beaumont Basin, no Person may make reasonable beneficial use of the Groundwater Storage Capacity except pursuant to a written Groundwater Storage Agreement with the Watermaster. Without limitation, such Agreements shall include:

- a. The payment of administrative and storage fees to the Watermaster;
- b. The payment of fees for the use of Temporary Surplus;
- c. Accounting for Supplemental Water losses while in storage;
- d. Term limit;

- e. Reasonable limitations on the rates of storage and recovery of Stored Water;
- f. Protection of water quality in the Beaumont Basin.

MOVED, PASSED AND ADOPTED this 12th day of April, 2005, upon the following vote:

City of Banning: Yes
City of Beaumont: Absent
Beaumont-Cherry Valley Water District: Yes
South Mesa Mutual Water Company: Yes
Yucaipa Valley Water District: Yes

Dated: April 12, 2005

BEAUMONT BASIN WATERMASTER

By /s/ George Jorritsma
Chair

ATTACHMENT D

WATERMASTER FORM 2 (GROUNDWATER STORAGE AGREEMENT)

BEAUMONT BASIN WATERMASTER
GROUNDWATER STORAGE AGREEMENT # _____

THIS GROUNDWATER STORAGE AGREEMENT is made and entered into this 5th day of August, 2015, by and between the Beaumont Basin Watermaster ("Watermaster"), and the Morongo Band of Mission Indians (Herein "Storage Party"), pursuant to the Judgment (Case No. RIC 389197).

SCOPE OF PERMISSION TO STORE. Permission is hereby given to the Storage Party, pursuant to the terms and conditions hereof, to store up to 20,000 acre-feet of water in the Beaumont Basin and to recapture the same for reasonable beneficial use as set forth in the forms or attachments below based on the Appropriator's share of Safe Yield as listed in Exhibit C, column 3. The permission to store water under this Storage Agreement is not transferable or assignable.

RELEVANT APPLICATIONS. The following Applications are relevant to this Agreement:

- Application for Storage Agreement, dated June 5, 2013.
- Application for Recharge, dated _____.
- Application (or Amendment to Application) to Recapture Water in Storage, dated _____.

TERM OF AGREEMENT. This Agreement may be terminated by the Watermaster upon 90 days written, Notice. Except for losses or other factors as Watermaster may establish, any water in storage at the time of termination of this Agreement shall be credited to the Storage Party for recapture. Termination shall affect termination of the right to place water in storage, but shall not impact the integrity of water stored or the right to recapture the same.

APPLICABILITY. This Agreement and all provisions thereof are applicable to and binding upon the parties hereto, and upon their respective heirs, executors, administrators, successors, assigns, lessors and licensees and upon the agents, employees and attorney in fact of all such persons. Storage capacity is not assignable. Water in storage may be assigned, sold, leased or transferred as herein or subsequently approved.

RECAPTURE. Storage Party may recapture Stored Water by the direct extraction of groundwater from Beaumont Basin pursuant to an annual notice to Watermaster to Recapture Water in Storage. The Watermaster reserves the right to solely determine whether significant adverse impacts will result to the Beaumont Basin and other Producers by reason of such recapture and may either approve, deny, or modify any proposed recapture schedule.

COUNTING FOR WATER STORED. Watermaster shall maintain a continuing account of water stored in and recapture from Storage Party's account, which shall be available for review upon reasonable notice by Storage Party.

REPORTS TO WATERMASTER. Storage Party shall file with the Watermaster such reports, forms, or additional information as may be reasonably required by the Watermaster in order to maintain accurate information as to storage, losses and recapture of Stored Water

THE WATERMASTER's RIGHT TO INSPECT. The Watermaster shall have the right to inspect, at reasonable times, the records and facilities of Storage Party with respect to the storage and recapture of water in the Beaumont Basin.

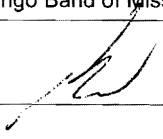
NOTICE. Any notices may be given by mail postage prepaid, addressed as follows:

Watermaster Office of the Watermaster Secretary
C/O Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Storage Party
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

SPECIAL CONDITIONS: The permission granted herein is subject to the following additional conditions:

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed by their respective authorized officers.

BEAUMONT BASIN WATERMASTER _____ By _____ _____ Print Name _____ Title	STORAGE PARTY <u>Morongo Band of Mission Indians</u> Name By  _____ Roger Meyer _____ Print Name Chief Executive Officer _____ Title
--	---

ATTACHMENT E

WATERMASTER FORM 3 (APPLICATION FOR RECHARGE)



BEAUMONT BASIN WATERMASTER

Form 3

APPLICATION FOR RECHARGE

APPLICANT

Morongo Band of Mission Indians

Name
12700 Pumarra Road
Address for Notice
Banning CA 92220
City State Zip Code
Telephone: 951-849-4697
Facsimile: 951-849-4425

For Staff Use Only
Date Requested:
Date Approved:
Amount Requested: acre feet
Amount Approved: acre feet
Projected Rate of Recharge:
Projected Duration of Recharge:
Agreement No.:

SOURCE OF SUPPLY

- [] State Water Project
[] Colorado River
[] Recycled Water
[] Diverted Creek Water
[x] Other, explain Supplemental Water imported from the San Timoteo Basin

METHOD OF RECHARGE

- [x] PERCOLATION Name of Basin Beaumont Basin
Location: Attach Map
[] INJECTION Well Number
Location: Attach map
[] EXCHANGE Facility Name
Share of Safe Yield
Water in Storage
Pumping Capacity (in cfs)



WATER QUALITY AND WATER LEVELS:

Description of groundwater quality in vicinity of facility and quality of water to be stored:

Recent water quality results from February 2015 for the Tribe's Well B, located in the San Timoteo Basin, indicate concentrations of TDS at 290 mg/L and nitrate at 16 mg/L. Concentrations of TDS and nitrate at Well B are below the concentrations of the maximum benefit objectives adopted by the Regional Board.

Description of existing water levels in the areas that are likely to be affected:

According to Figure 3-5 of the 2013 Watermaster Annual Report, the groundwater level in the proposed initial recharge location is approximately 2195 feet above mean sea level. Recharged water in the Beaumont Basin is anticipated to flow in a northerly direction towards the center of the Basin.

NEGATIVE IMPACTS OF PROPOSED RECAPTURE:

Is the Applicant aware of any potential negative impacts to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in negative impact to a party to the Judgment or the Basin?

Not Applicable

ADDITIONAL INFORMATION ATTACHED Yes [X] No []

Describe: February 2015 water quality results for the Tribe's Well B, prepared by Babcock Laboratories, are attached. Figure 3-5 of the 2013 Watermaster Annual Report, which provides groundwater levels in the proposed recharge location, is also attached.

Applicant's Signature

Roger Meyer

Print Name

Chief Executive Officer

Title



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 1 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B5B0290-01	Well B ---SPECIAL---	Water	02/03/15 07:40	James Clark	02/03/15 11:45	Alfred Necochea

mailing
 P.O. Box 432
 Riverside, CA 92502-0432

location
 6100 Quail Valley Court
 Riverside, CA 92507-0704

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 F 951 653 1662
www.babcocklabs.com

NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 2 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	100	3.0	mg/L	SM 2340B/EPA	02/10/15 17:34	kya	
Calcium	28	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Magnesium	7.2	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Sodium	58	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Potassium	1.5	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Total Cations	4.5	0.05	me/L	Calculation			
Anions							
Total Alkalinity	140	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Hydroxide	ND	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Carbonate	ND	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Bicarbonate	170	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Chloride	19	1.0	mg/L	EPA 300.0	02/04/15 07:32	ss	
Sulfate	20	0.50	mg/L	EPA 300.0	02/04/15 07:32	ss	
Fluoride	0.5	0.1	mg/L	SM 4500F C	02/09/15 10:39	lfs	
Nitrate	16	1.0	mg/L	EPA 300.0	02/04/15 07:32	ss	
Total Anions	4.04	0.05	me/L	Calculation			
Aggregate Properties							
pH	7.8	1.0	pH Units	SM 4500H+ B	02/10/15 03:30	miv	
Specific Conductance	470	1.0	umhos/cm	SM 2510 B	02/10/15 03:30	miv	
Solids							
Total Dissolved Solids	290	20	mg/L	SM 2540C	02/06/15 22:10	miv	

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location
 6100 Quail Valley Court
 Riverside, CA 92507-0704

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 F 951 653 1662
www.babcocklabs.com

NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 3 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
General Physical							
Color	ND	3.0	Color Units	SM 2120B	02/04/15 23:30	mcm	
Odor	ND	1.0	T.O.N.*	SM 2150	02/04/15 23:30	mcm	
Turbidity	1.7	0.20	NTU	SM 2130 B	02/04/15 23:30	mcm	
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	02/04/15 22:30	miv	
General Inorganics							
Cyanide	ND	100	ug/L	SM 4500CN E	02/09/15 23:47	ifs	
Perchlorate	ND	4.0	ug/L	EPA 314.0	02/06/15 17:52	ara	
Nutrients							
Nitrite as N	ND	100	ug/L	SM 4500NO2 B	02/04/15 01:30	ifs	
Metals and Metalloids							
Aluminum	ND	50	ug/L	EPA 200.7	02/10/15 17:35	kya	
Antimony	ND	6.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Arsenic	ND	2.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Barium	27	20	ug/L	EPA 200.7	02/10/15 17:35	kya	
Beryllium	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Cadmium	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Total Chromium	2.4	1.0	ug/L	EPA 200.8	02/10/15 15:57	ERA	
Copper	ND	50	ug/L	EPA 200.7	02/10/15 17:35	kya	
Iron	220	100	ug/L	EPA 200.7	02/10/15 17:35	kya	
Lead	ND	5.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Manganese	22	20	ug/L	EPA 200.7	02/10/15 17:35	kya	
Mercury	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Nickel	ND	10	ug/L	EPA 200.7	02/10/15 17:35	kya	
Selenium	ND	5.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Silver	ND	10	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Thallium	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Zinc	ND	50	ug/L	EPA 200.7	02/10/15 17:35	kya	

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location
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NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 4 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1-Dichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1-Dichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1-Dichloropropene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2,3-Trichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2,4-Trichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2-Dichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2-Dichloropropane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3-Dichloropropane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3-Dichloropropene (total)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
2,2-Dichloropropane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
2-Butanone(MEK-EPA 8260)	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
2-Chlorotoluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
4-Chlorotoluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
4-Methyl-2-Pentanone(MIBK)	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Benzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bis(2-chloroethyl)ether"	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromochloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromomethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Carbon Tetrachloride	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Chlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Chloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	

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NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 5 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
Chloroform	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Chloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
cis-1,2-Dichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Dibromomethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Dichlorodifluoromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Ethylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Hexachlorobutadiene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Isopropylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Methyl tert butyl Ether	ND	3.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Methylene Chloride	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
n-Butylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
n-Propylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Naphthalene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
p-Isopropyltoluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
sec-Butylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Styrene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
tert-Butylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Tetrachloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Toluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Trichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Trichlorotrifluoroethane	ND	10	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Vinyl Chloride	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Xylenes (m+p)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Xylenes (ortho)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Xylenes (Total)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Surrogate: 1,2-Dichloroethane-d4	105	% 50-150		EPA 524.2	02/06/15 01:18	EEC	
Surrogate: Bromofluorobenzene	83.8	% 50-150		EPA 524.2	02/06/15 01:18	EEC	

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NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 6 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
<i>Surrogate: Toluene-d8</i>	94.4	% 50-150		EPA 524.2	02/06/15 01:18	EEC	
Organochlorine Pesticides and PCBs by EPA 505							
Aldrin	ND	0.075	ug/L	EPA 505	02/05/15 05:55	labus	
Dieldrin	ND	0.020	ug/L	EPA 505	02/05/15 05:55	labus	
Endrin	ND	0.10	ug/L	EPA 505	02/05/15 05:55	labus	
Heptachlor	ND	0.010	ug/L	EPA 505	02/05/15 05:55	labus	
Heptachlor Epoxide	ND	0.010	ug/L	EPA 505	02/05/15 05:55	labus	
Hexachlorobenzene	ND	0.50	ug/L	EPA 505	02/05/15 05:55	labus	
Hexachlorocyclopentadiene	ND	1.0	ug/L	EPA 505	02/05/15 05:55	labus	
Lindane	ND	0.20	ug/L	EPA 505	02/05/15 05:55	labus	
Methoxychlor	ND	10	ug/L	EPA 505	02/05/15 05:55	labus	
Propachlor	ND	0.50	ug/L	EPA 505	02/05/15 05:55	labus	
Toxaphene	ND	1.0	ug/L	EPA 505	02/05/15 05:55	labus	
Chlordane	ND	0.10	ug/L	EPA 505	02/05/15 05:55	labus	
Polychlorinated Biphenyls (Total PCB's)	ND	0.50	ug/L	EPA 505	02/05/15 05:55	labus	

* NELAP does not offer accreditation for this analyte/method/matrix combination

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 Riverside, CA 92507-0704

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NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 7 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Notes and Definitions

- pH: Regulatory 15 minute holding time exceeded B5B0290-01
- N_pScr: Cyanide Determination: Sample screened for interference and preserved upon receipt at the lab B5B0290-01
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / " : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

cc: RCHD

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e-Short_No Alias

NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Client Name: Morongo Golf Club-Tukwet Canyon
Contact: John Covington
Address: 12700 Pumarra Rd.
Banning, CA 92220

Analytical Report: Page 1 of 1
Project Name: Tukwet Canyon-DW-CC
Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Chain of Custody & Sample Information Record

6100 Quail Valley Court Riverside, CA 92507
ESB Environmental Laboratories, Inc. (951) 653-3351 • FAX (951) 653-1662 www.babcocklabs.com

Client: Morongo Bank Mission Indians Contact: John Covington email: _____
Phone No. 951-755-5270 Fax No. _____

Project Name: PWS # 3303071 Routing: Routing *72 Hour Rush *48 Hour Rush *24 Hour Rush
Project Location: Tukwet Golf Club *Lab TAT Approval: _____ *Additional Charges Apply

Sampler Information
Name: James Clark
Employer: M.B.M.I.
Signature: [Signature]

Sample ID	Date	Time	# of Containers & Preservatives												Sample Type	Analysis Requested	Matrix	Notes
			Unpreserved	H2SO4	HNO3	NaOH	NaOH/NaOAc	NaOH/Zn Acetate	NH4Cl	MCA	Total # of Containers	Routine	Re-sample	Special				
well B	2/18/15	7:40	X											12	XX XX XX XX XX XX XX	DW - Drinking Water WW - Waste Water (GW) Ground Water S = Source SG = Sludge L = Liquid M = Miscellaneous		Top of well

Remquisitioned By (sign): [Signature] James C. MIBWZ 03/15/15 10AM
Print Name / Company: _____ Date / Time: _____
Received By (sign): [Signature] Alfred N. MIBWZ 23-15 11:45
Print Name / Company: Alfred N. MIBWZ Date / Time: _____

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria:
 Sample(s) Submitted on Ice? Yes No Sample meets laboratory acceptance criteria? Yes No
 Custody Seal(s) Intact? Yes No Permission to continue: Yes No
 Sample(s) Intact? Yes No Deviation/Notes: _____
 Temperature: 15 °C Cooler Blank Signature/Date: _____

Lab No. B5B0290 Logged in By/Date: FEB - 9 2015 AB
Page _____ of _____

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NELAP no. 02101CA
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EPA no. CA00102

Beaumont Basin Watermaster

2013 Annual Report

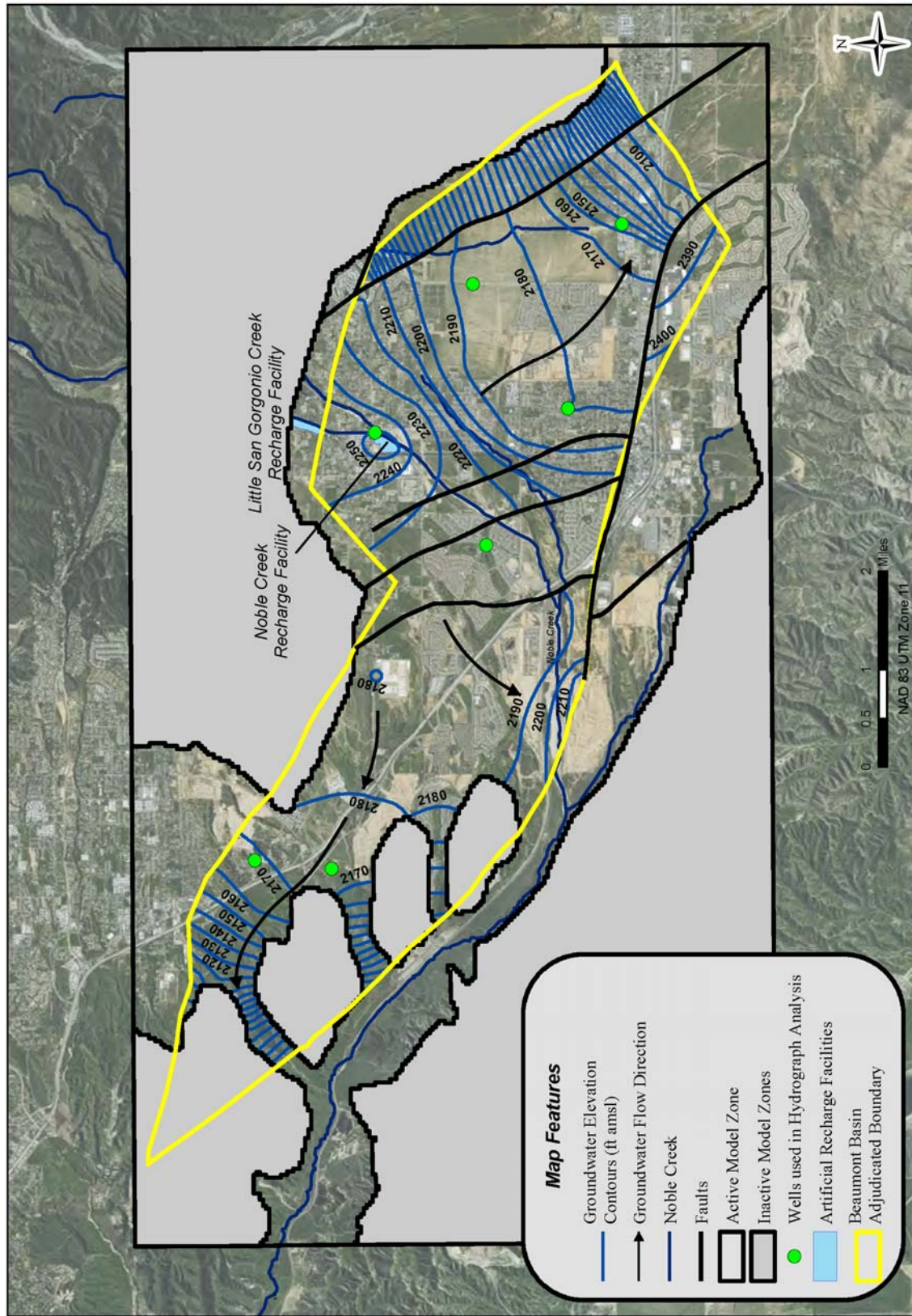
DRAFT

2013 Watermaster Board

Duane Burk, City of Banning, **Chairman**
George Jorritsma, South Mesa Water Company, **Vice Chairman**
Eric Fraser, Beaumont Cherry Valley Water District, **Secretary**
Joseph Zoba, Yucaipa Valley Water District, **Treasurer**
David Dillon, City of Beaumont

Alvarado Smith, **Legal Counsel**
ALDA Inc. in Association with Thomas Harder & Company, **Engineering**
Rogers, Anderson, Malody, and Scott. LLP, **Financial Auditors**

August 2014



**Groundwater Elevation Contours
in the Beaumont Basin - Fall 2012**
Figure 3-5

DRAFT

Alda, Inc. in association with
Thomas Harder & Co.
Groundwater Consulting

ATTACHMENT F

WATERMASTER FORM 4 (APPLICATION TO RECAPTURE WATER IN STORAGE)

08/04

Form 4

BEAUMONT BASIN WATERMASTER

APPLICATION (OR AMENDMENT TO APPLICATION) TO RECAPTURE WATER IN STORAGE

APPLICANT

Morongo Band of Mission Indians
Name
12700 Pumarra Road
Address for Notice
Banning CA 92220
City State Zip Code
Telephone: 951-849-4697
Facsimile: 951-849-4425

For Staff Use Only
Date Requested:
Date Approved:
Amount Requested: acre feet
Amount Approved: acre feet
Projected Rate of Recapture:
Projected Duration of Recapture:
Agreement No.

IS THIS AN AMENDMENT TO A PREVIOUSLY APPROVED APPLICATION? [] Yes [X] No
IF YES, ATTACH APPLICATION TO BE AMENDED

IDENTITY OF PERSON THAT STORED THE WATER: Morongo Band of Mission Indians

PURPOSE OF RECAPTURE:

- [x] Pump when other sources of supply are curtailed.
[x] Pump to meet current or future demand over and above production right.
[x] Pump as necessary to stabilize future assessment amounts.
[x] Other, explain Water may be produced by an Appropriator, or other user who purchases the water, using the Appropriator's or other user's own wells.

METHOD OF RECAPTURE (if other than pumping, e.g. exchange):
Groundwater pumping and/or exchange

PLACE OF USE OF WATER TO BE RECAPTURED:
Water may be produced and used by an Appropriator, or other user who purchases the water, using the Appropriator's or other user's own wells.

LOCATION OF RECAPTURE FACILITIES (IF DIFFERENT FROM REGULAR PRODUCTION FACILITIES):
Water may be produced by an Appropriator, or other user who purchases the water, using the Appropriator's or other user's own wells.

WATER QUALITY AND WATER LEVELS:

Description of groundwater quality in vicinity of facility and quality of water to be stored:

The source of the water to be stored initially will be from the Tribe's Well B located in the San Timoteo Basin. Recent water quality results from February 2015 for Well B indicate concentrations of TDS at 290 mg/L and nitrate at 16 mg/L. Concentrations of TDS and nitrate at Well B are below the concentrations of the maximum benefit objectives adopted by the Regional Board.

Description of existing water levels in the areas that are likely to be affected:

According to Figure 3-5 of the 2013 Watermaster Annual Report, the groundwater level in the proposed initial recharge location is approximately 2195 feet above mean sea level. Recharged water in the Beaumont Basin is anticipated to flow in a northerly direction towards the center of the Basin.

NEGATIVE IMPACTS OF PROPOSED RECAPTURE:

Is the Applicant aware of any potential negative impacts to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in negative impact to a party to the Judgment or the Basin?

Not Applicable

ADDITIONAL INFORMATION ATTACHED Yes [X] No []

Describe: February 2015 water quality results for the Tribe's Well B, prepared by Babcock Laboratories, are attached. Figure 3-5 of the 2013 Watermaster Annual Report, which provides groundwater levels in the proposed recharge location, is also attached.

Applicant's Signature

Roger Meyer

Print Name

Chief Executive Officer

Title



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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 1 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B5B0290-01	Well B ---SPECIAL---	Water	02/03/15 07:40	James Clark	02/03/15 11:45	Alfred Necochea

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 Riverside, CA 92502-0432

location
 6100 Quail Valley Court
 Riverside, CA 92507-0704

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NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



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Analytical Report: Page 2 of 7
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 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	100	3.0	mg/L	SM 2340B/EPA	02/10/15 17:34	kya	
Calcium	28	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Magnesium	7.2	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Sodium	58	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Potassium	1.5	1.0	mg/L	EPA 200.7	02/10/15 17:34	kya	
Total Cations	4.5	0.05	me/L	Calculation			
Anions							
Total Alkalinity	140	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Hydroxide	ND	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Carbonate	ND	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Bicarbonate	170	3.0	mg/L	SM 2320B	02/11/15 17:05	lae	
Chloride	19	1.0	mg/L	EPA 300.0	02/04/15 07:32	ss	
Sulfate	20	0.50	mg/L	EPA 300.0	02/04/15 07:32	ss	
Fluoride	0.5	0.1	mg/L	SM 4500F C	02/09/15 10:39	lfs	
Nitrate	16	1.0	mg/L	EPA 300.0	02/04/15 07:32	ss	
Total Anions	4.04	0.05	me/L	Calculation			
Aggregate Properties							
pH	7.8	1.0	pH Units	SM 4500H+ B	02/10/15 03:30	miv	
Specific Conductance	470	1.0	umhos/cm	SM 2510 B	02/10/15 03:30	miv	
Solids							
Total Dissolved Solids	290	20	mg/L	SM 2540C	02/06/15 22:10	miv	

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Analytical Report: Page 3 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
General Physical							
Color	ND	3.0	Color Units	SM 2120B	02/04/15 23:30	mcm	
Odor	ND	1.0	T.O.N.*	SM 2150	02/04/15 23:30	mcm	
Turbidity	1.7	0.20	NTU	SM 2130 B	02/04/15 23:30	mcm	
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	02/04/15 22:30	miv	
General Inorganics							
Cyanide	ND	100	ug/L	SM 4500CN E	02/09/15 23:47	ifs	
Perchlorate	ND	4.0	ug/L	EPA 314.0	02/06/15 17:52	ara	
Nutrients							
Nitrite as N	ND	100	ug/L	SM 4500NO2 B	02/04/15 01:30	ifs	
Metals and Metalloids							
Aluminum	ND	50	ug/L	EPA 200.7	02/10/15 17:35	kya	
Antimony	ND	6.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Arsenic	ND	2.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Barium	27	20	ug/L	EPA 200.7	02/10/15 17:35	kya	
Beryllium	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Cadmium	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Total Chromium	2.4	1.0	ug/L	EPA 200.8	02/10/15 15:57	ERA	
Copper	ND	50	ug/L	EPA 200.7	02/10/15 17:35	kya	
Iron	220	100	ug/L	EPA 200.7	02/10/15 17:35	kya	
Lead	ND	5.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Manganese	22	20	ug/L	EPA 200.7	02/10/15 17:35	kya	
Mercury	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Nickel	ND	10	ug/L	EPA 200.7	02/10/15 17:35	kya	
Selenium	ND	5.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Silver	ND	10	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Thallium	ND	1.0	ug/L	EPA 200.8	02/10/15 17:52	MEL	
Zinc	ND	50	ug/L	EPA 200.7	02/10/15 17:35	kya	

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Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 4 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1-Dichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1-Dichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,1-Dichloropropene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2,3-Trichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2,4-Trichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2-Dichloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,2-Dichloropropane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3-Dichloropropane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3-Dichloropropene (total)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
2,2-Dichloropropane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
2-Butanone(MEK-EPA 8260)	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
2-Chlorotoluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
4-Chlorotoluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
4-Methyl-2-Pentanone(MIBK)	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Benzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bis(2-chloroethyl)ether"	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromochloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromodichloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromoform	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Bromomethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Carbon Tetrachloride	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Chlorobenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Chloroethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	

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 Banning, CA 92220

Analytical Report: Page 5 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
Chloroform	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Chloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
cis-1,2-Dichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Dibromochloromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Dibromomethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Dichlorodifluoromethane	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Ethylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Hexachlorobutadiene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Isopropylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Methyl tert butyl Ether	ND	3.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Methylene Chloride	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
n-Butylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
n-Propylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Naphthalene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
p-Isopropyltoluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
sec-Butylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Styrene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
tert-Butylbenzene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Tetrachloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Toluene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Trichloroethene	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Trichlorofluoromethane	ND	5.0	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Trichlorotrifluoroethane	ND	10	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Vinyl Chloride	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Xylenes (m+p)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Xylenes (ortho)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Xylenes (Total)	ND	0.50	ug/L	EPA 524.2	02/06/15 01:18	EEC	
Surrogate: 1,2-Dichloroethane-d4	105	% 50-150		EPA 524.2	02/06/15 01:18	EEC	
Surrogate: Bromofluorobenzene	83.8	% 50-150		EPA 524.2	02/06/15 01:18	EEC	

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NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102



Client Name: Morongo Golf Club-Tukwet Canyon
 Contact: John Covington
 Address: 12700 Pumarra Rd.
 Banning, CA 92220

Analytical Report: Page 6 of 7
 Project Name: Tukwet Canyon-DW-CC
 Project Number: PWS #3303071

Work Order Number: B5B0290

Report Date: 18-Feb-2015

Received on Ice (Y/N): Yes Temp: 15 °C

Laboratory Reference Number

B5B0290-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Well B	Water	02/03/15 07:40	02/03/15 11:45

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 524.2							
<i>Surrogate: Toluene-d8</i>	94.4	% 50-150		EPA 524.2	02/06/15 01:18	EEC	
Organochlorine Pesticides and PCBs by EPA 505							
Aldrin	ND	0.075	ug/L	EPA 505	02/05/15 05:55	labus	
Dieldrin	ND	0.020	ug/L	EPA 505	02/05/15 05:55	labus	
Endrin	ND	0.10	ug/L	EPA 505	02/05/15 05:55	labus	
Heptachlor	ND	0.010	ug/L	EPA 505	02/05/15 05:55	labus	
Heptachlor Epoxide	ND	0.010	ug/L	EPA 505	02/05/15 05:55	labus	
Hexachlorobenzene	ND	0.50	ug/L	EPA 505	02/05/15 05:55	labus	
Hexachlorocyclopentadiene	ND	1.0	ug/L	EPA 505	02/05/15 05:55	labus	
Lindane	ND	0.20	ug/L	EPA 505	02/05/15 05:55	labus	
Methoxychlor	ND	10	ug/L	EPA 505	02/05/15 05:55	labus	
Propachlor	ND	0.50	ug/L	EPA 505	02/05/15 05:55	labus	
Toxaphene	ND	1.0	ug/L	EPA 505	02/05/15 05:55	labus	
Chlordane	ND	0.10	ug/L	EPA 505	02/05/15 05:55	labus	
Polychlorinated Biphenyls (Total PCB's)	ND	0.50	ug/L	EPA 505	02/05/15 05:55	labus	

* NELAP does not offer accreditation for this analyte/method/matrix combination

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Analytical Report: Page 7 of 7
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Report Date: 18-Feb-2015

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Notes and Definitions

- pH: Regulatory 15 minute holding time exceeded B5B0290-01
- N_pScr: Cyanide Determination: Sample screened for interference and preserved upon receipt at the lab B5B0290-01
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / " : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

cc: RCHD

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e-Short_No Alias

NELAP no. 02101CA
 CA Elap no. 2698
 EPA no. CA00102

Beaumont Basin Watermaster

2013 Annual Report

DRAFT

2013 Watermaster Board

Duane Burk, City of Banning, **Chairman**

George Jorritsma, South Mesa Water Company, **Vice Chairman**

Eric Fraser, Beaumont Cherry Valley Water District, **Secretary**

Joseph Zoba, Yucaipa Valley Water District, **Treasurer**

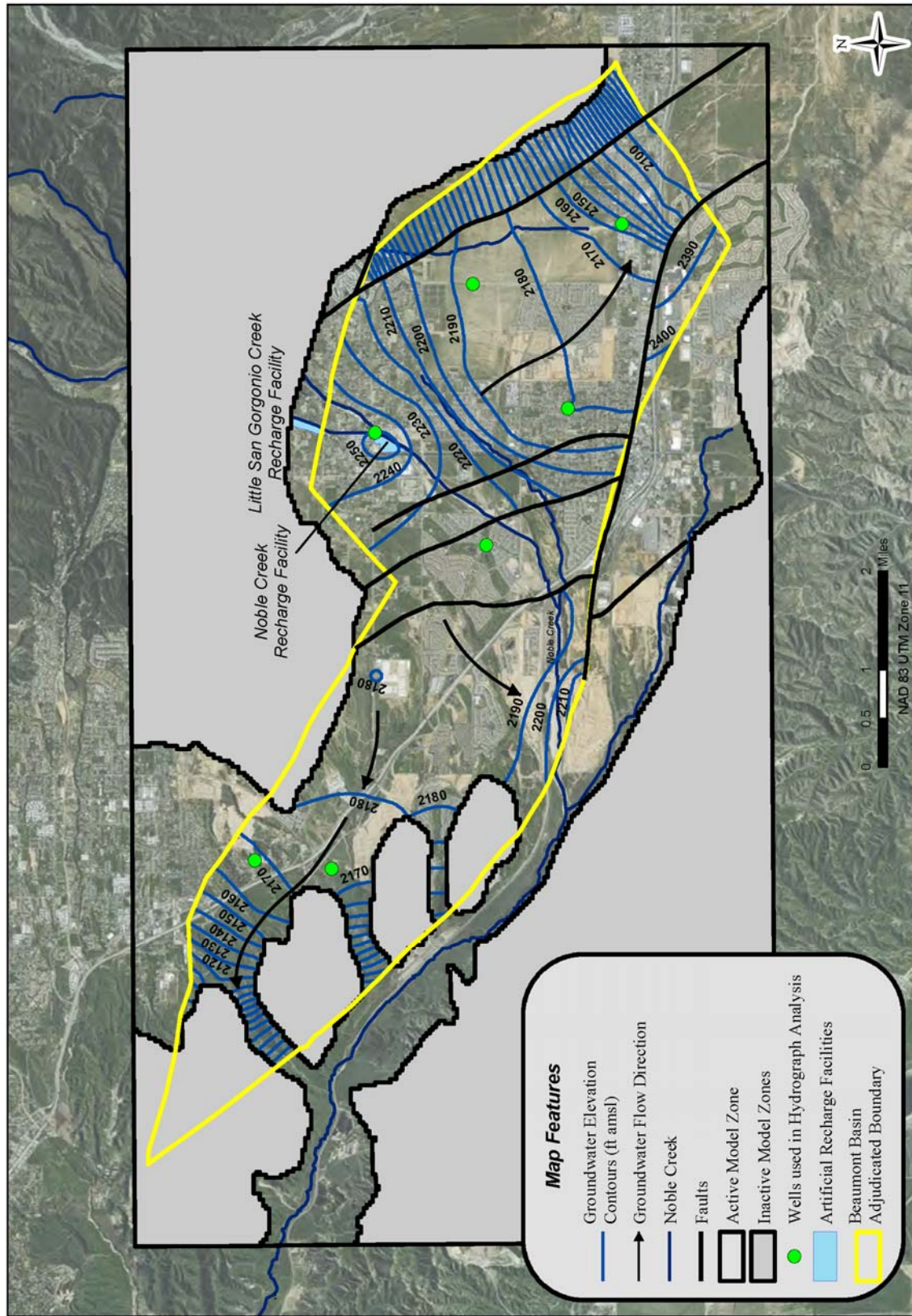
David Dillon, City of Beaumont

Alvarado Smith, **Legal Counsel**

ALDA Inc. in Association with Thomas Harder & Company, **Engineering**

Rogers, Anderson, Malody, and Scott. LLP, **Financial Auditors**

August 2014



Groundwater Elevation Contours in the Beaumont Basin - Fall 2012
Figure 3-5

DRAFT

Alda, Inc. in association with
Thomas Harder & Co.
Groundwater Consulting

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 15-18

Date: August 5, 2015

From: Hannibal Blandon, ALDA

Subject: Overview of Oak Valley Partners Production Wells and Proposed Adjustments to Historical Groundwater Production

Recommendation: No recommendation.

The 2003 Annual Report identified three wells owned by Oak Valley Partners L.P.; namely, Singleton Ranch No. 5, Singleton Ranch No. 7, and Irrigation Stokes. The report documents that only Singleton Ranch Well No. 7 was metered. Annual production from the two unmetered wells was estimated in subsequent annual reports by Wildermuth Environmental Inc., at 300 ac-ft/yr for Singleton Ranch No. 5 and 10 ac-ft/yr for Irrigation Stokes.

It is our understanding that this estimate was based on the assumption that these two wells were being used for agricultural production. Metered monthly production for Singleton Ranch No. 7 since 2003 has been reported annually with an annual production ranging from 0.5 to 2.5 ac-ft/yr. This level of production for the three wells continued to be reported to the present.

A field visit conducted by ALDA Inc. to the Oak Valley Partners property was conducted on April 1, 2015 to determine the current condition of the wells. During our visit, we determined that historically there have been four production wells on-site. Two of these wells are no longer producing as one of them has a broken motor and the other has been dismantled. One of the production wells, Singleton Ranch No. 7, no longer has a meter and is currently used to feed a home and a few head of cattle; while the last well feeds a small on-site office. Considering the current water use on the property, we have estimated the total combined groundwater extractions at this location at 2.5 ac-ft/yr.

Information provided by Mr. John Ohanian, Oak Valley Partners' representative, approximately 50 acres of land were used through 2007 to grow vegetables. This level of agricultural production is somewhat consistent with the 300 ac-ft/yr of groundwater production initially reported by Wildermuth.

Based on the above information, annual production by Oak Valley Partners will be revised down to 2.5 ac-ft/yr., starting in Calendar Year 2008. Considering that Oak Valley Partners LP. is an Overlying Party with an overlying water right of 1,806 ac-ft/yr., an estimated 1,803.50 ac-ft/yr. will be distributed amongst Appropriators starting in Calendar Year 2013.

BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 15-19

Date: August 5, 2015

From: Hannibal Blandon, ALDA

Subject: Status Report on the Installation of Water Level Monitoring Equipment at Twelve Sites in the Beaumont Basin

Recommendation: No recommendation.

During the February 4, 2015, the Board authorized ALDA Inc., to procure and install water level monitoring equipment at twelve preselected sites located throughout the Beaumont Basin.

On April 15, 2015 monitoring equipment was installed at seven of the initial sites.

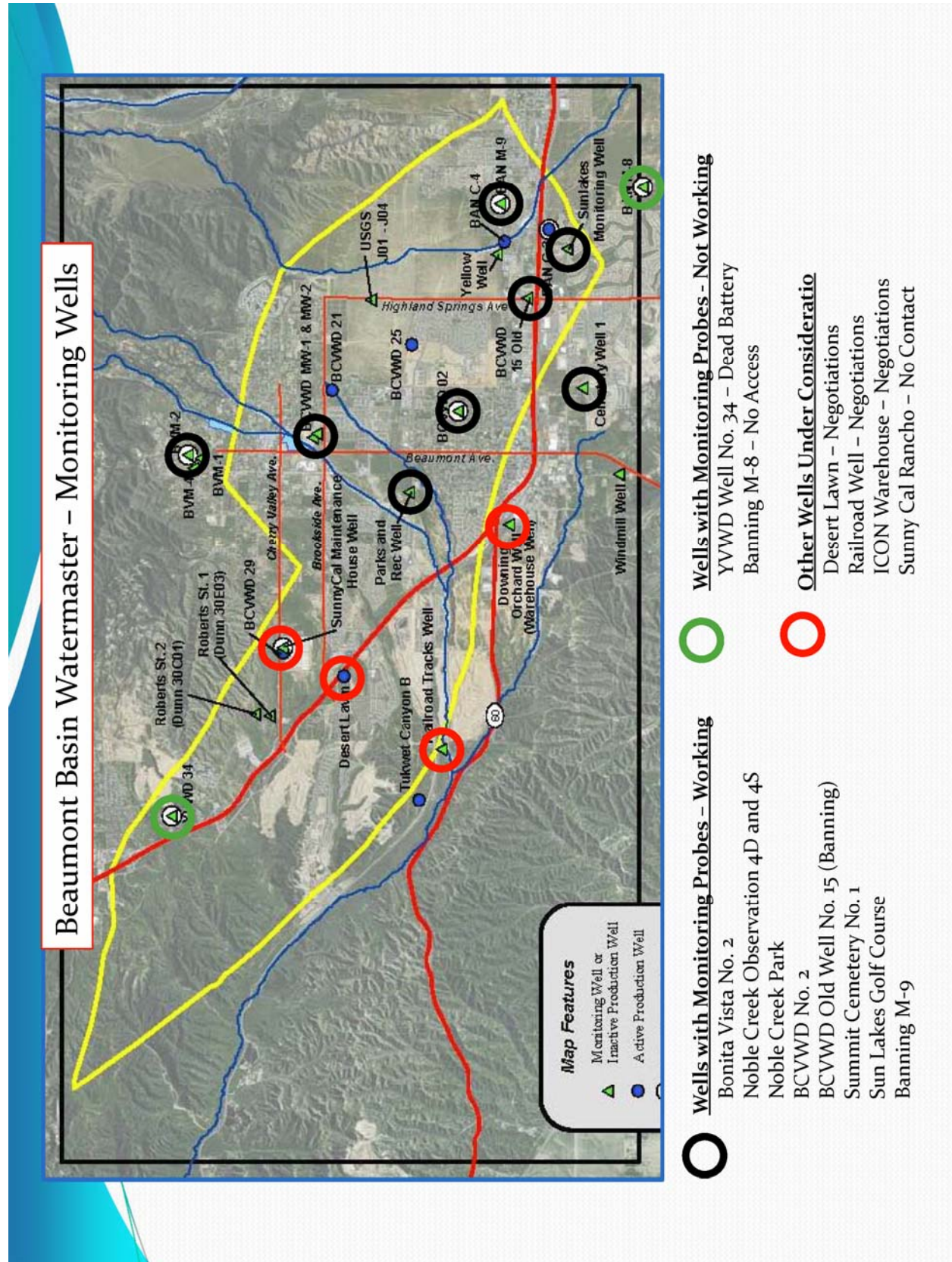
A field visit to these sites on May 27, 2015, revealed that the monitoring probes were not collecting information at four of the sites; the equipment manufacturer was contacted for advice and the situation corrected. Two additional monitoring sites were equipped on that date.

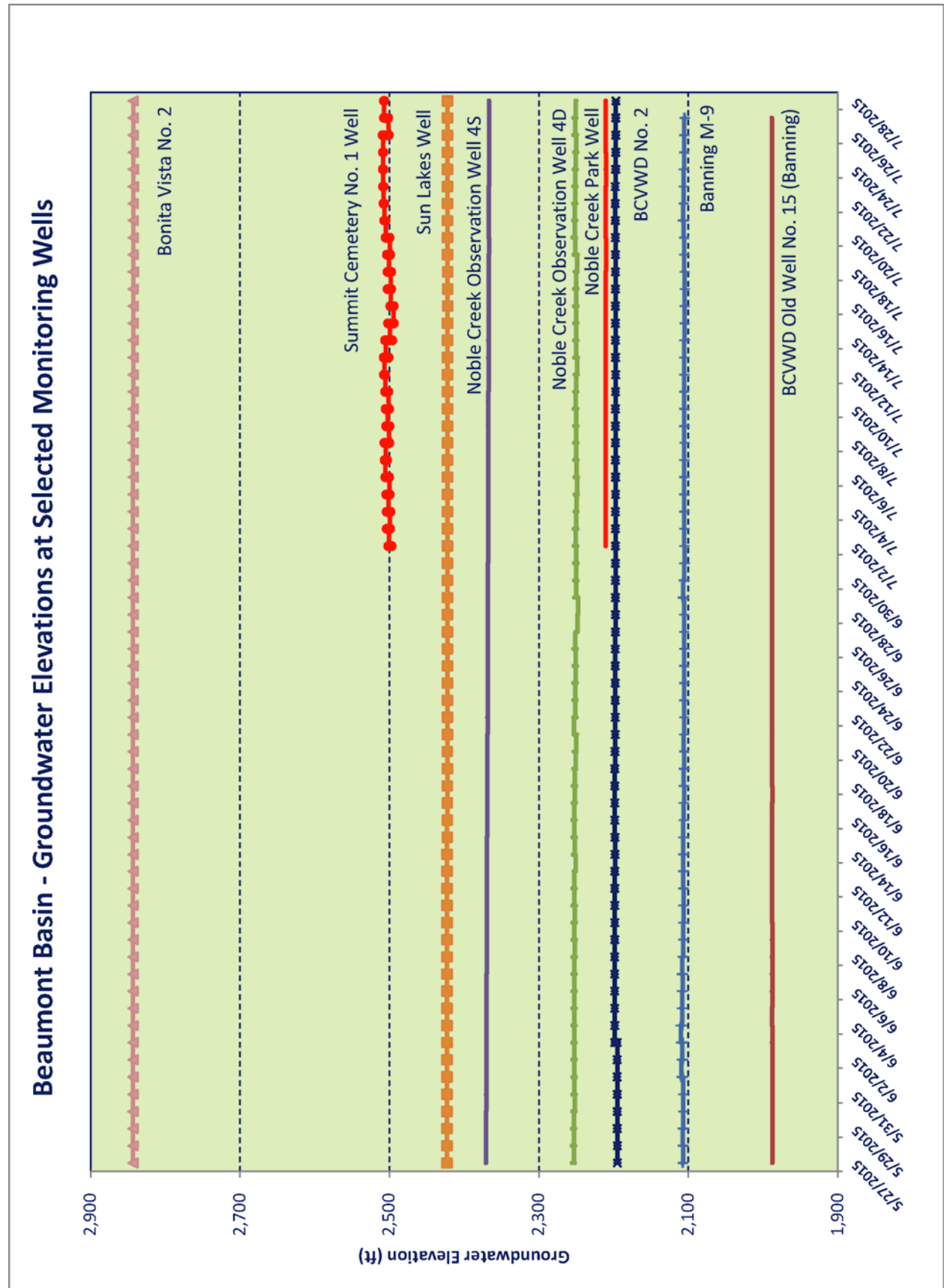
On July 2, 2015 two other wells were equipped for a current total of eleven wells with new monitoring probes. In addition, two probes to measure barometric pressure have been installed. During the installation process old monitoring probes were removed from various sites and sent to Solinst in Canada for installation of new batteries.

The attached spreadsheet contains a summary of the fifteen potential sites initially considered. Of the eleven sites where probes have been installed, nine are owned by Appropriators while the remaining two sites are owned by public agencies not identified in the Judgment. Negotiations continue with the four remaining parties for installation of additional monitoring probes.

Beaumont Basin Watermaster
Monitoring Wells Program - Status Report as of July 28, 2015

	Well		Type	Transducer		Current Status	Depth to Water (ft)	Notes
	Owner / Name	Type		Model	Installed			
1	BCVWD Well No. 2	Converted to Monitoring	F100	4/15/2015	600	Monitoring	452.04	Ref. Top of sounding tube
2	BCVWD Monitoring Well 4S	Dedicated Monitoring	F100	4/15/2015	500	Monitoring	370.05	Ref. Top of PVC casing
3	BCVWD Monitoring Well 4D	Dedicated Monitoring	F100	4/15/2015	600	Monitoring	498.22	Ref. Top of PVC casing
4	BCVWD Bonita VM Well No. 2	Converted to Monitoring	F65	4/15/2015	150	Monitoring	59.28	Ref. Top of well cover
5	City of Banning Sun Lakes	Dedicated Monitoring	F100	4/15/2015	200	Monitoring	117.34	Ref. Top of casing
6	City of Banning Well M8	Converted to Monitoring	F100	4/15/2015	400	Monitoring	347.47	Ref. Top of sounding port
7	City of Banning Well M9	Converted to Monitoring	F100	4/15/2015	600	Monitoring	423.6	Ref. Top of sounding port Barolger Installed
8	Banning Old BCVWD No. 15	Converted to Monitoring	F100	5/27/2015	440	Monitoring	396.9	New concrete base and access port was built.
9	Yucaipa VWD Well No. 34	Converted to Monitoring	F300	5/27/2015	400	Monitoring	222.25	Monitored since 2011 Barolger Installed
10	Summit Cemetary District Sunnyslope No. 1	Converted to Monitoring	F300	7/2/2015	200	Monitoring	64.65	Ref. Top of sounding port
11	BCV Parks and Rec Dist. Noble Creek Well	Inactive Production	F300	7/2/2015	500	Monitoring	411.66	Ref. top of concrete base
12	Desert Lawn Funeral Home Well No. 1	Active Production				Probe not installed		Legal counsel reviewing contract
13	RC - Regional Parks Railroad Well	Abandoned				Probe not installed		Contract being reviewed by Regional Parks staff
14	ICON Warehouse Old Orchard well	Converted to Monitoring				Probe not installed		Contract beig reviewed by ICON legal counsel
15	Sunny Cal Egg Ranch	Abandoned				Probe not installed		No contact has been established





BEAUMONT BASIN WATERMASTER MEMORANDUM NO. 15-20

Date: August 5, 2015

From: Hannibal Blandon, ALDA

Subject: Discussion Regarding Overlying Users Revised Production Rights

Recommendation: No recommendation.

During the Watermaster meeting on June 3, 2015, the Watermaster Committee requested Watermaster legal counsel to prepare a legal opinion addressing how Overlying users production rights would be affected by the adoption of the revised Safe Yield of the basin for the 2013-2022 period.

In 2004, when the Judgment was established, the safe yield of the Beaumont Basin was estimated at 8,650 ac-ft/yr and distributed amongst Overlying producers. Over the last two years, ALDA Inc., in association with Thomas Harder and Company, developed a groundwater model of the basin and determined that the safe yield for the 10 year period between 2013 and 2022 to be 6,700 ac-ft/yr. This revised safe yield represents a reduction of 1,950 ac-ft/yr from the initial safe yield of the basin.

The purpose of this agenda item is to discuss the revision of production rights for Overlying Users.