

# Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Wednesday, April 6, 2016 at 10:00 a.m.

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## 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

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### 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. Meeting Minutes for February 3, 2016

### VI. Reports

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

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

### VII. Discussion Items

A. Status Report on Water Level Monitoring throughout the Beaumont Basin  
[Memorandum No. 16-06, Page 6 of 16]

Recommendation: No recommendation.

B. Consideration of Task Order No. 11 – Recalibration of the northwest portion of the Beaumont Basin groundwater model to more accurately represent water levels in the area [Memorandum No. 16-07, Page 14 of 16]

Recommendation: That the Watermaster Committee approves Task Order No. 11 to conduct recalibration of the northwest portion of the Beaumont Basin for an amount not to exceed \$10,850.

### VIII. Topics for Future Meetings

A. Recycled Water Recharge Policy

### IX. Comments from the Watermaster Committee Members

## **X. Announcements**

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, June 1, 2016 at 10:00 a.m.

## **XI. Adjournment**

**Record of the Minutes of the  
Beaumont Basin Committee Meeting of the  
Beaumont Basin Watermaster  
Wednesday, February 3, 2016**

**Meeting Location:**

Beaumont-Cherry Valley Water District  
560 Magnolia Avenue  
Beaumont, CA 92223

**I. Call to Order**

*Member George Jorritsma called the meeting to order at 10:03 a.m.*

**II. Roll Call**

<i>City of Banning</i>	<i>Arturo Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Kyle Warsinski</i>	<i>Present</i>
<i>Beaumont Cherry Valley Water District</i>	<i>Eric Fraser</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>George Jorritsma</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

*Kyle Warsinski was present as the alternate representing the City of Beaumont in the absence of Member Dave Dillon. Arturo Vela was present as the alternate representing the City of Banning in the absence of Chairman Duane Burke. Thierry Montoya was present representing legal counsel for the Beaumont Basin Watermaster.*

*Members of the public who registered their attendance were: John Jeter, Carl Kymila, Bill Dickson, Fran Flanders, Tom Harder, Hannibal Blandon, Tom Shalhoub and Bob Wall.*

**III. Pledge of Allegiance**

*Member Joseph Zoba led the pledge of allegiance.*

**IV. Public Comments**

*No public comment was received at this time.*

**V. Consent Calendar**

**A. Meeting Minutes**

1. Approval of Meeting Minutes for October 7, 2015
2. Meeting Minutes for December 2, 2015

*Member Eric Fraser motioned to approve the consent calendar. The motion was seconded by Member Arturo Vela and passed 5-0.*

## **VI. Reports**

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

*Engineer Hannibal Blandon stated that he would be presenting several of the Discussion Items and had nothing to present at this time.*

- B. Report from Legal Counsel - Thierry Montoya, Alvarado Smith

*Legal Counsel Thierry Montoya reported that he had worked with Scott Sommer and John Covington to draft a water storage agreement with the Morongo Tribe, that a working copy had been sent to Members Fraser and Zoba for their review and comment, and that once the final language was agreed upon, the agreement would be presented to the Committee for adoption at the next meeting.*

## **VII. Discussion Items**

- A. Reorganization of the Beaumont Basin Watermaster Committee - Chairman, Vice-Chairman, Secretary and Treasurer [Memorandum No. 16-01, Page 15 of 48]

Recommendation: That the members of the Watermaster either reaffirm the existing officers or conduct nominations for the appointment of officers of the Beaumont Basin Watermaster.

*Member Zoba motioned to nominate Arturo Vela as Chairman and George Jorritsma as Vice Chairman. The motion was seconded by Member Fraser and passed 5-0. Member Warsinski motioned to reaffirm Members Fraser and Zoba as Secretary and Treasurer, respectively. The motion was voted on and passed 5-0.*

- B. Status Report on Water Level Monitoring throughout the Beaumont Basin [Memorandum No. 16-02, Page 16 of 48]

Recommendation: No recommendation.

*Engineer Blandon gave a status report of the water level monitoring project, which included discussion of water levels at sites being monitored, proposed monitoring agreements for new sites, and troubleshooting of monitoring equipment issues. He noted that these issues would be addressed prior to the next Committee meeting.*

- C. Discussion Regarding Task Order No. 9 with ALDA Inc. for the Preparation of the 2015 Consolidated Annual Report, Estimate of the Basin Safe Yield, Update of the Groundwater Model, and Associated Consulting Services [Memorandum No. 16-03, Page 24 of 48]

Recommendation: That the Watermaster Committee approves Task Order No. 9 for a sum not to exceed \$81,940.00.

*Engineer Blandon provided an overview of the Task Order No. 9, noting the difference between a short-term Basin Safe Yield calculation for internal Committee purposes and a long-term calculation for external legal purposes. After discussion, Member Zoba motioned to approve the Task Order No. 9. Member Vela seconded the motion and it passed 5-0.*

- D. Discussion Regarding Task Order No. 10 with ALDA Inc. for the Installation, Maintenance, and Data Collection of Water Level Monitoring Equipment in 2016 [Memorandum No. 16-04, Page 30 of 48]

Recommendation: That the Watermaster Committee approves Task Order No. 10 for a sum not to exceed \$18,840.00.

*Engineer Blandon provided an overview of the Task Order No. 10, noting that while there are currently 12 active probes, there is a potential for 6 additional probes, for a total of 12. Member Fraser motioned to approve the Task Order No. 10. Member Warsinski seconded the motion and it passed 5-0.*

- E. Overview of the Sustainable Groundwater Management Act and Proposed Basin Boundary Revisions [Memorandum No. 16-05, Page 34 of 48]

Recommendation: Pending

*Member Zoba presented a proposed revision to the Beaumont Basin boundaries under the Sustainable Groundwater Management Act. Discussion followed regarding the concept of the legality of the Watermaster revising the boundaries due to the nature of the stipulated judgment. Other ideas were introduced and discussed, and Member Fraser motioned to accept the proposed boundary as identified, and to develop a memorandum of understanding (MOU) between the Beaumont Cherry Valley Water District and Beaumont Basin Watermaster to establish a groundwater sustainability agency (GSA) to manage the proposed sub-basin. Member Zoba seconded the motion and it passed 5-0.*

## **VIII. Topics for Future Meetings**

- A. Recycled Water Recharge Policy

*There was no discussion in regard to a Recycled Water Recharge Policy*

## **IX. Comments from the Watermaster Committee Members**

*Member Fraser stated that a draft MOU regarding the establishment of a GSA for the Beaumont Basin boundary will be brought before the Committee at a future meeting.*

## **X. Announcements**

- A. The next regular meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, April 6, 2016 at 10:00 a.m.

## **XI. Adjournment**

# BEAUMONT BASIN WATERMASTER

## MEMORANDUM NO. 16-06

**Date:** April 6, 2016

**From:** Hannibal Blandon, ALDA

**Subject:** Status Report on Water Level Monitoring throughout the Beaumont Basin

**Recommendation:** No recommendation.

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At the present time, there are 11 monitoring wells collecting water level information on an hourly basis at various locations throughout the basin. In addition, there are two monitoring probes collecting barometric pressures at opposite ends of the Beaumont Basin. The location of active monitoring wells is depicted in the attached Figure No. 1.

One additional monitoring well, located in the Sunny-Cal Egg Ranch area, is being used to collect water level; however, a formal contract with the current property owners has not been established. It is anticipated that a separate well located in this property will be used for monitoring purposes in the future since the current well is too close to BCVWD Well No. 29.

No progress has been made with the installation of the monitoring well at the Icon Warehouse (a.k.a. the Downing Orchard well). We have made numerous attempts to contact the new management at the warehouse site, but have not been successful.

Negotiations continue with the County of Riverside Open Space Office for installation of a monitoring probe at the Railroad Tracks well. While we do not have a final contract, it is anticipated that we will be able to install a monitoring probe at this well.

Installation of monitoring equipment at the Oak Valley Partners took place this morning.

Ultimately, it is anticipated that we will have a total of 18 operating monitoring sites throughout the basin. Figure No. 2 depicts water level data collected since the program began. In general, water levels continue to be unchanged throughout the basin; however, some changes have occurred at the following wells:

- ✓ Banning M-9 – The water level at this well has increased by seven (7) feet since October 2015 as illustrated in Figure 3.
- ✓ Noble Creek Observation Well 4S – A 23 feet decline has been recorded at this well since the end of May 2015 as depicted in Figure 4.

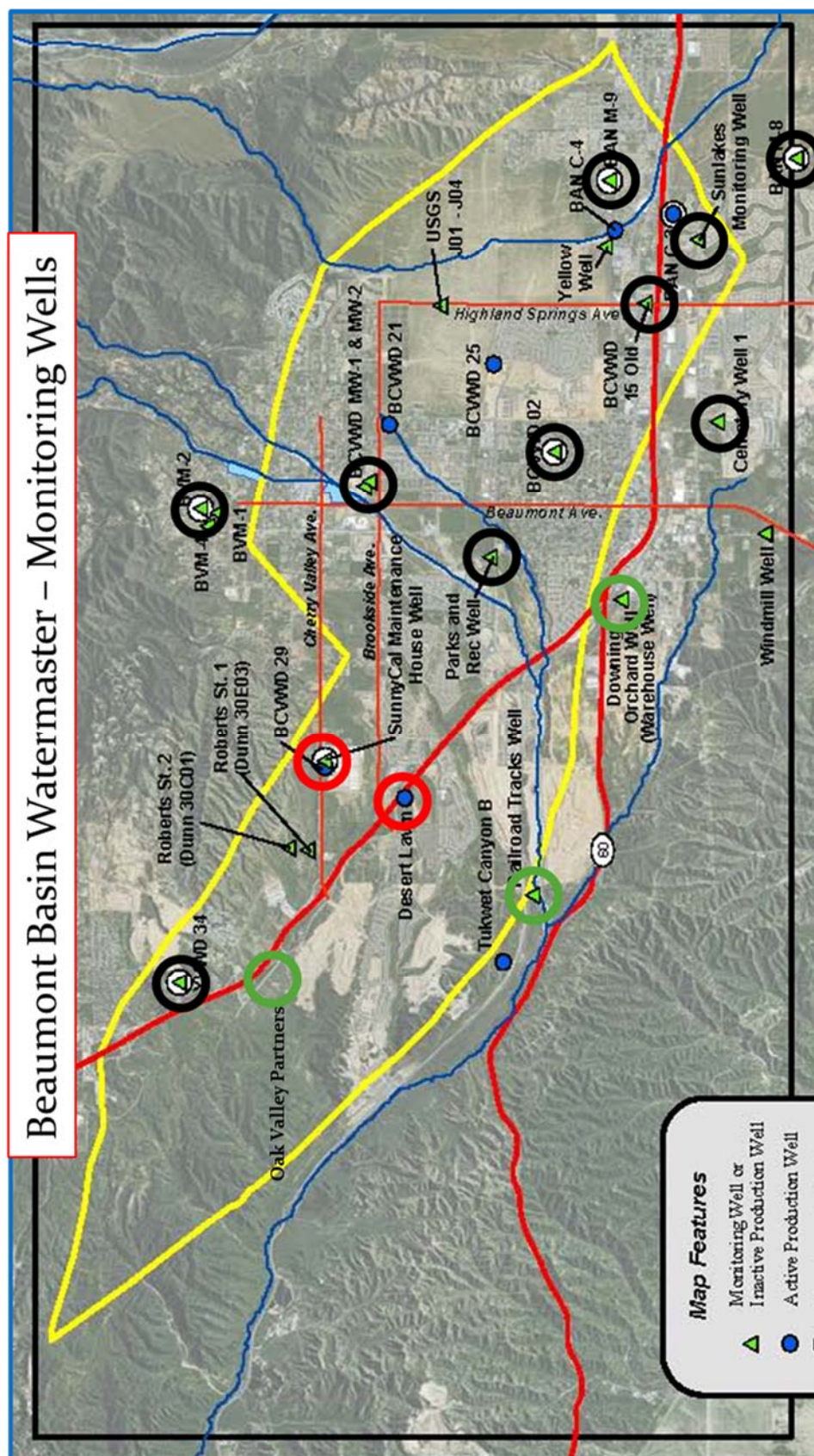
- ✓ Summit Cemetery – The water level at this well is highly influenced by the intermittent operations of a nearby local production well as observed in Figure 5. A general uptrend in water levels continues at this well as it has gained 7 feet since early July 2015.

### **Troubleshooting Issues**

The following malfunctioning issues were encountered during our January 25, 2016 field visit:

- ✓ BCVWD Well No. 2 – The communications cable at this well was replaced in late January, but the readings obtained over the last two months have been inconsistent
- ✓ Banning Well M-9 – Barometer is not working properly as it has not recorded any information since January 12, 2016. Probe will be reset this afternoon.
- ✓ YVWD Well No. 34 – Communications cable was replaced in late January, but is now given us inconsistent readings.





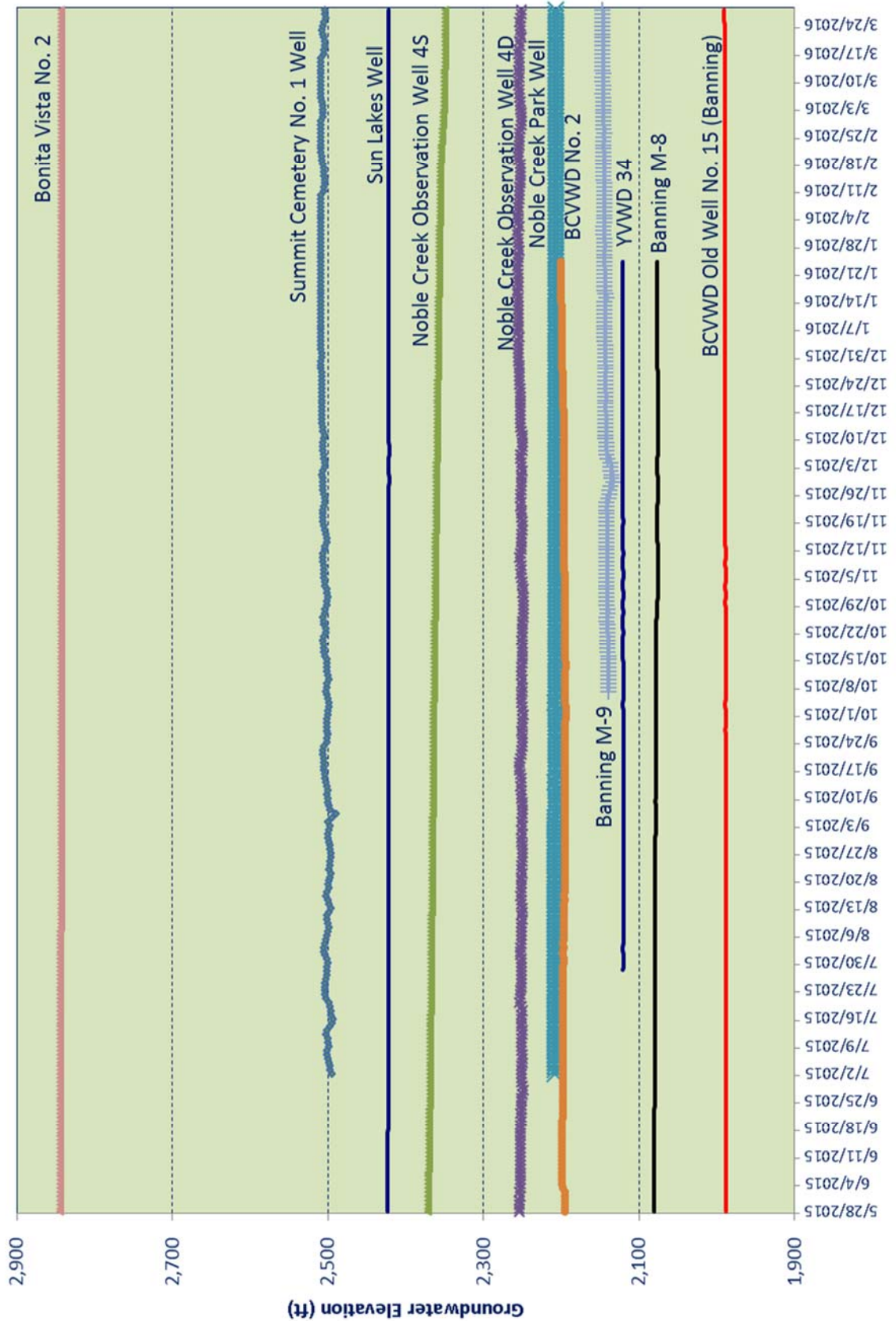
<u>Wells with Monitoring Probes - Working</u>	<u>Wells under Contract Negotiation</u>	<u>Other Wells Under Consideration</u>
<div>○</div> <ul style="list-style-type: none"> <li>Bonita Vista No. 2</li> <li>Noble Creek Observation 4D and 4S</li> <li>Noble Creek Park</li> <li>BCVWD No. 2</li> <li>BCVWD Old Well No. 15 (Banning)</li> <li>Summit Cemetery No. 1</li> <li>Sun Lakes Golf Course</li> <li>Banning M-8 and M-9</li> <li>YVWD Well No. 34</li> </ul>	<div>○</div> <ul style="list-style-type: none"> <li>ICON Warehouse well</li> <li>Oak Valley Partners well</li> <li>Railroad Track well</li> </ul>	<div>○</div> <ul style="list-style-type: none"> <li>Desert Lawn - Negotiations</li> <li>SunnyCal Egg Ranch</li> </ul>



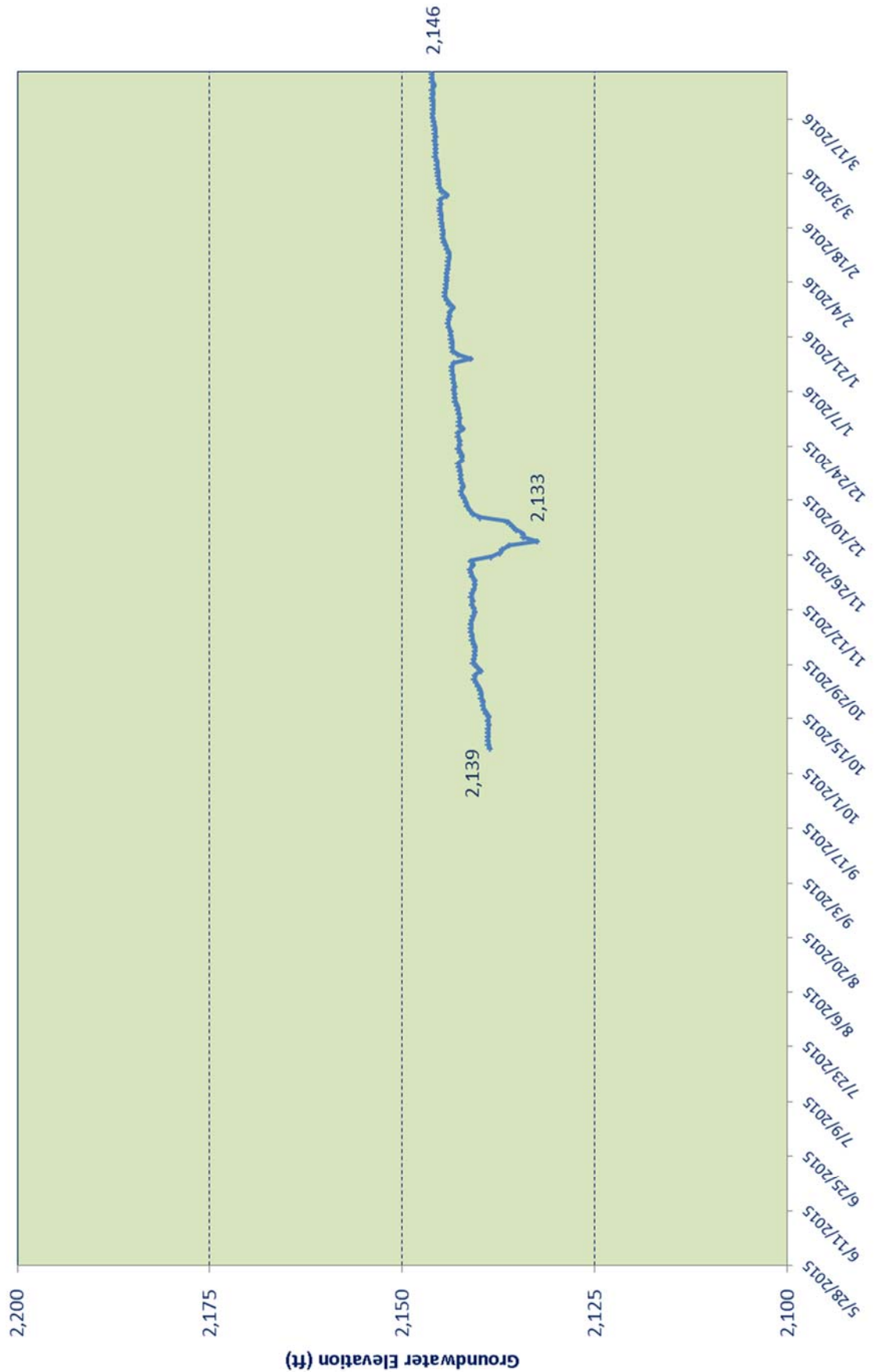
Beaumont Basin Watermaster  
Monitoring Wells Program - Status Report as of February 3, 2016

Well		Transducer				Current Status	Depth to Water (ft)	Notes
Owner / Name	Type	Model	Series No.	Installed	Depth (ft)			
1 BCVWD Well No. 2	Converted to Monitoring	F100	52843620	4/15/2015	600	Monitoring	451.65	Ref. Top of sounding tube
2 BCVWD Monitoring Well 4S	Dedicated Monitoring	F100	52043615	4/15/2015	500	Monitoring	384.92	Ref. Top of PVC casing
3 BCVWD Monitoring Well 4D	Dedicated Monitoring	F100	2044088	4/15/2015	600	Monitoring	495.14	Ref. Top of PVC casing
4 BCVWD Bonita VM Well No. 2	Converted to Monitoring	F65	42044092	4/15/2015	150	Monitoring	59.28	Ref. Top of well cover
5 City of Banning Sun Lakes	Dedicated Monitoring	F100	52043674	4/15/2015	200	Monitoring	116.5	Ref. Top of casing
6 City of Banning Well M8	Converted to Monitoring	F100	52043681	4/15/2015	400	Monitoring	347.47	Ref. Top of sounding port
7 City of Banning Well M9	Converted to Monitoring	F100	52043619	4/15/2015	600	Monitoring	423.6	Ref. Top of sounding port Barologger Installed
8 Banning Old BCVWD No. 15	Converted to Monitoring	F100	2043673	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	2043558	5/27/2015	400	Monitoring	222.25	Monitored since 2011 Barologger Installed
10 Summit Cemetery District Sunnyslope No. 1	Converted to Monitoring	F300	2043583	7/2/2015	200	Monitoring	64.65	Ref. Top of concrete base
11 BCV Parks and Rec Dist. Noble Creek Well	Inactive Production	F300	2043687	7/2/2015	500	Monitoring	412.65	Ref. Top of sounding port
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 has been approved
15 Sunny Cal Egg Ranch	Abandoned	F100	1017718	9/30/2015	500	Probe installed		No contact has been established
16 Oak Valley Partners	Active Production					Probe not installed		Verbal OK, Contract has not been finalized

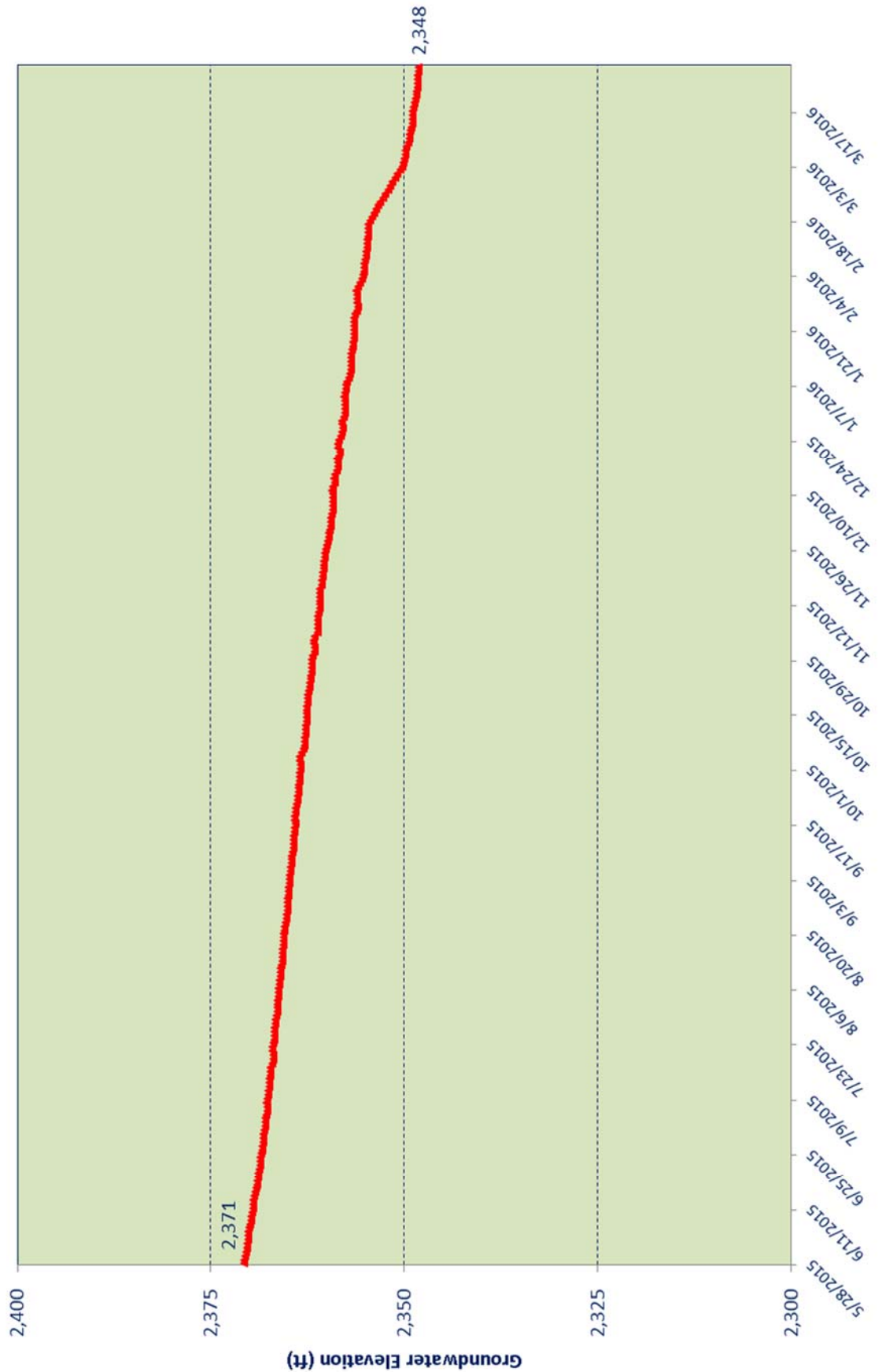
**Figure No. 2**  
**Beaumont Basin - Static Groundwater Elevations at Selected Monitoring Wells**  
 (May 28 through Mar 28, 2016)



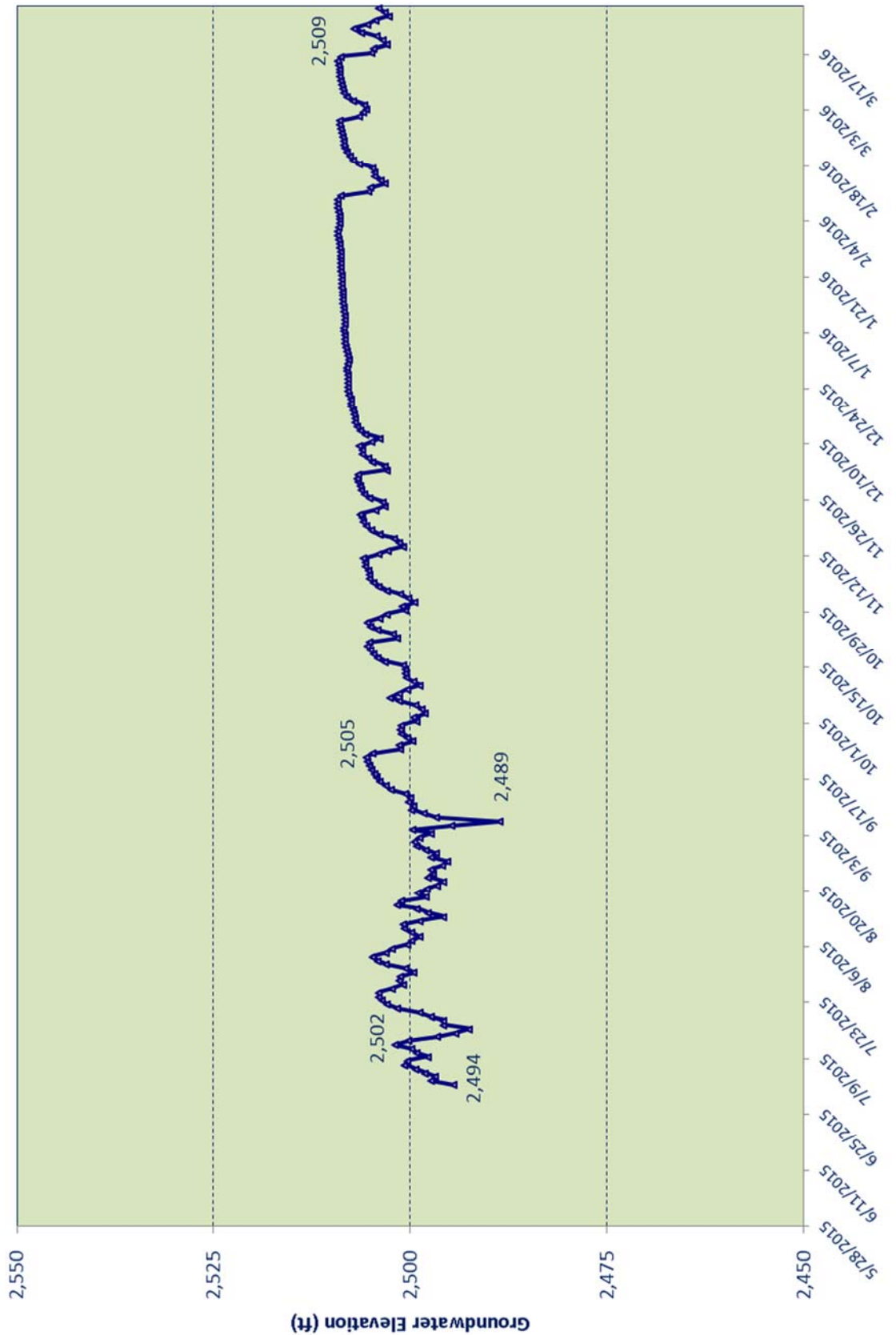
**Figure No. 3**  
**Beaumont Basin - Static Groundwater Elevations at Banning Well M-9**  
 (May 28 through Mar 28, 2016)



**Figure No. 4**  
**Beaumont Basin - Static Groundwater Elevations at Noble Creek Obs. Well 4S**  
 (May 28 through Mar 28, 2016)



**Figure No. 5**  
**Beaumont Basin - Static Groundwater Elevations at Summit Cemetery Well**  
 (May 28 through Mar 28, 2016)



# BEAUMONT BASIN WATERMASTER

## MEMORANDUM NO. 16-07

**Date:** April 6, 2016

**From:** Hannibal Blandon, ALDA

**Subject:** Consideration of Task Order No. 11 – Recalibration of the northwest portion of the Beaumont Basin groundwater model to more accurately represent water levels in the area

**Recommendation:** That the Watermaster Committee approves Task Order No. 11 to conduct recalibration of the northwest portion of the Beaumont Basin for an amount not to exceed \$10,850.

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The groundwater model is currently being used to evaluate the safe yield of the basin and estimate annual groundwater storage changes. Model-generated groundwater levels in the northwest portion of the model have begun to deviate from measured groundwater levels. As a result, annual estimates of change in groundwater storage are not as representative of actual conditions in this portion of the basin. Model recalibration in this area is necessary so that annual estimates of groundwater storage change are more representative.

The estimated cost for this scope of services is \$10,850; this cost is based on 111 hours.

The financial impacts associated with the proposed contract would result in an expense of \$10,850. If approved, this expenditure would result in an invoice sent to each Watermaster Committee member in the amount of \$2,170.



# ALDA Inc.

5928 Vineyard Avenue  
Alta Loma, CA 91701  
Tel: (909) 587-9916  
Fax: (909) 498-0423

April 6, 2016

Joseph B. Zoba, General Manager  
Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399

Subject: **Beaumont Basin Watermaster – Task Order No. 11**  
**Recalibration of the Northwest Portion of the Beaumont Basin GW Model**

Dear Mr. Zoba:

Please find attached our proposed scope of services and consulting fee for Task Order No. 11 under the Engineering Services contract with the Beaumont Basin Watermaster dated May 10, 2012. As we noted during a number of occasions during the preparation of the groundwater model in 2014-15, there will be a need to adjust the groundwater model from time to time.

The groundwater model is currently being used to evaluate the safe yield of the basin and estimate annual groundwater storage changes. Model-generated groundwater levels in the northwest portion of the model have begun to deviate from measured groundwater levels. As a result, annual estimates of change in groundwater storage are not as representative of actual conditions in this portion of the basin. Model recalibration in this area is necessary so that annual estimates of groundwater storage change are more representative.

We welcome your thorough review of our proposed scope services. Should you have any questions on our proposed services or need further information, please contact us at 909-587-9916 during normal business hours.

Very truly yours

ALDA Inc.



F. Anibal Blandon, P.E.  
Principal



## TASK OBJECTIVES

The objective of Task No. 11 is as follows:

- A. To conduct additional calibration efforts in the northwest portion of the basin to attempt to more closely represent groundwater conditions in the area.

## SCOPE OF SERVICES

### Task 1 – Recalibrate Groundwater Model

Model-generated water levels in production well Moreno 6 have begun to deviate from measured groundwater levels. TH&Co will recalibrate the model in this area to match model-generated groundwater levels with measured levels by adjusting aquifer parameters within acceptable ranges. Parameters to be adjusted include horizontal hydraulic conductivity, vertical hydraulic conductivity, storativity, specific yield, general head boundary conductance, and barrier conductance.

## COST ESTIMATE

The estimated cost for this scope of services is \$10,850; this cost is based on 111 hours as follows:

Project Manager – 6 Hours at \$150.00	\$ 900.00
Principal Hydrogeologist - 30 Hours at \$160.00 per hour	\$ 3,200.00
Staff Hydrogeologist - 75 Hours at \$90.00 per hour	<u>\$ 6,750.00</u>
	\$10,850.00