

Tule Subbasin
Sustainable Groundwater Management Act
GSAs Technical Advisory Committee Meeting

April 18, 2018

LTRID Office Conference Room
1400 (2:00 p.m.)

Agenda

1. Public Comment
2. Additions or Deletions to the Agenda
3. Notes of the 21 March 2018 MOU Representatives Meeting (attached)
4. Coordination Agreement
 - Status of Agreement Sections
 - Coordination Agreement Components Preparation
5. Hydrogeologist
 - Model Development Status
 - Monitoring Plan Proposal
 - Meetings with Other Subbasins
 - Thomas Harder & Co. Invoice No. 9, Groundwater Flow Model Development (attached)
6. Groundwater Sustainable Plans
 - GSA Preparation Status
 - Common Components by Subbasin Consultant
7. Subbasin Grant
 - Subbasin Grant Status
8. Budget, Financial Report & Funding Status
 - WY 2018 Budget Comparison
 - Financial Report
9. Next Meeting
 - Proposed Next GSA Technical Advisory Committee Meeting 16 May 2018 @ 1400

Tule Subbasin

Minutes of the Sustainable Groundwater Management Act
GSA Technical Advisory Committee Meeting
March 21, 2018

The Tule Sub-Basin GSA Technical Advisory Committee, Representatives, met on March 21, 2018 in the conference room of Lower Tule River Irrigation District in Tipton, CA. The meeting was called to order by Mr. Schafer at 2:02 pm with the following in attendance:

Alpaugh GSA
Bruce Howarth

Delano Earlimart Irrigation District GSA
Dale Brogan, Representative
Eric Quinley, Representative

Eastern Tule JPA GSA
Costas Cecero, Representative
Michael Reed, Representative
Steve Drumright, Representative
Sean Geivet, Representative
Michael Knight, Representative

Lower Tule River Irrigation District GSA
Eric Limas, Representative
Mike Faria
Vincent Sola

Pixley Irrigation District GSA
Eric Limas, Representative
Mike Pitigliano

TriCounties GSA
Matt Hurley, Representative
Deanna Jackson, Representative

Coordinator
R. L. Schafer, TRA

Secretary
David DeGroot

Attorney
James Koontz, Peltzer & Richardson

Constulatant
Thomas Harder, Thomas Harder & Co.
Ben Lewis, Thomas Harder & Co.

Department of Water Resources
Mike McKenzie

Others Present
Douglas Jackson
Tim Allan

Douglas Deflitch
Paul S. Greudanus
Matt Roberson
Noe Gonzalez
Richard Sturn
Natashia Raykhman
Hanspeter Walter
Abigail Solis
Richard Junio
Pres Brittan
Tim Gobler

After self-introductions, Mr. Schafer provided a copy of an Agenda for the meeting and the LTRID GSA meeting with DWR was added under Item 5.

Public Comment:

No public comments were provided.

Minutes:

The minutes of the Tule Subbasin GSA Technical Advisory Committee meeting of 21 February 2018, by motion of Representative Matt Hurley, seconded by Representative Limas, and unanimously carried, were approved.

Coordination Agreement

Copies of the revised Draft of Section 1 and Section 2, along with initial drafts of Section 3 and Section 4 of the Sustainable Groundwater Management Act Coordination Agreement were provided via email by Attorney Jim Koontz for the GSA Technical Advisory Committee representatives to review and provide comments by 11 April 2018. After considerable discussion, the Technical Advisory Committee agreed that additional time was needed to adequately review and comment on the draft sections, as some GSAs are still being organized and developed. The GSA representatives further discussed the need for detailed review of the Coordinated Agreement sections with their respective boards before further comment and suggested a continuation until the April Technical Advisory Committee meeting.

Section 5, of the Coordination Agreement, covering the coordinated data management system for the Tule Subbasin is under preparation by the ad-hoc committee of the consultants and will be provided when available.

Hydrogeologist:

Hydrogeologist Thomas Harder stated the groundwater flow model continues to be calibrated and the team will be providing future scenario options for review by the Technical Advisory Group during Spring 2018.

A copy of a proposal to prepare a Subbasin-Wide Groundwater Monitoring Plan for the Tule Subbasin was provided by Mr. Harder. After review and discussion of the scope of work of the monitoring plan, Mr. Harder agreed to modify the proposal and provide a revised proposal during the April meeting.

Mr. Harder stated that he has been requested to meet with other GSAs in other subbasins on the information being prepared for the Tule Subbasin. As the data being prepared is still preliminary and in draft form, the Technical Advisory representatives recommended Mr. Harder not meet with other GSAs, but continue discussions with the adjacent Subbasin hydrogeologists.

A copy of the Thomas Harder and Company Groundwater Flow Model Development Invoice No. 8 was provided to the representatives, which was accepted for payment.

David De Groot reported of a meeting that he attended with representatives from LTRID and PID GSAs and Dr. Dan Howes from California Polytechnical University and the Department of Water Resources to discuss utilizing LandSAT METRIC as a method for measuring groundwater extraction and to discuss coordination between the Irrigated Lands Regulatory Program and SGMA on groundwater quality. DWR noted that the regulations do not explicitly describe the methods to be used for determining groundwater extraction, but rather the technical needs and

justification required for any method is up to the local GSA in preparation of their GSP. After the presentation, DWR acknowledged that LandSAT METRIC could be utilized by a GSA, if technically qualified, similar to any other method to be used for groundwater extraction. Regarding the coordination between the Irrigated Lands Regulatory Program and SGMA on groundwater quality, DWR agreed that coordination is needed to avoid duplication of efforts, but cautioned that SGMA requires groundwater quality for the entire subbasin and the ILRP may have data gaps which will need to be included in the GSP.

Groundwater Sustainability Plans (GSPs)

Each GSA reported that their GSP is under preparation, and as the GSP is being developed, identification of those common basinwide components that may be prepared at the basin level will be tabulated.

Tule Subbasin Grants

David De Groot reported that the final work to conclude the deliverables required under the Tulare County Grant agreement continues in coordination with DWR and County staff.

David De Groot also stated that the Proposition 1 Grant application was recommended for funding for \$1.5 million which includes four principle projects; the Tule Subbasin Groundwater Flow Model, development of a groundwater monitoring network plan of shallow monitoring wells, development of a land subsidence benchmark network with installation of extensometers, and development of LandSAT METRIC data for years 1991 – 2016 for the entire Tule Subbasin. The final grant announcements and contracts are anticipated during April 2018.

Budget, Financial Report & Funding Status

The 2018 fiscal year budget comparison for the Tule Subbasin SGMA MOU Group as of 28 February 2018 was presented. Expenditures for the period, October 1, 2017 through February 28, 2018 were \$243,748.08 and 38.9% of the 2018 fiscal year budget of \$626,500.

A copy of the February 28, 2018 Financial Report was distributed to the representatives. The Report identified cash receipts of \$112,724.04 and expenses of \$140,842.20 during February 2018, and a cash balance of \$21,982.51, but with unpaid assessments of \$112,278.07 and outstanding bills of \$51,183.26, a net balance as of February 28, 2018 of \$75,077.32.

The next GSA Technical Advisory Committee meeting is set for April 18, 2018 at 2:00 pm in the conference room of the Lower Tule River Irrigation District office.

Adjournment

The Technical Advisory Committee meeting was adjourned at 4:10 p.m.

Respectfully Submitted:

David De Groot - Secretary

Rschafer

From: Thomas Harder <tharder@thomashardercompany.com>
Sent: Sunday, April 08, 2018 5:02 PM
To: 'Eric Limas'
Cc: Rschafer
Subject: TH&Co March 2018 Invoice for Tule Subbasin MOU Group
Attachments: TH&Co_TuleMOU_Model_Inv9.pdf

Dear Eric ,

Please find attached my March invoice (Invoice No. 9) for development of the groundwater flow model for the Tule Subbasin MOU Group.

If you have any questions, don't hesitate to contact me.

Tom



(714) 779-3875
(714) 394-4449 (cell)
www.thomashardercompany.com

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April 6, 2018

DCTRA: Tule Subbasin MOU Group
Attn: Mr. Eric Limas
357 E. Olive Avenue
Tipton, California 93272

Re: Invoice No. 9 for Hydrogeological Consulting Services to Develop a Groundwater Flow Model for the Tule Subbasin MOU Group

Dear Mr. Limas,

Attached is Invoice No. 9 for hydrogeological consulting services to develop a groundwater flow model of the Tule Subbasin in support of complying with the Sustainable Groundwater Management Act (SGMA). This work is being conducted per my Consulting Agreement with the Tule Subbasin MOU Group dated 16-Nov-16 and our scope of work and cost estimate dated 28-Jun-17.

The total balance due for this billing period is **\$21,853.00** as shown in the attached Table 1.

I appreciate the opportunity to provide consulting services to the Tule Subbasin MOU Group. If you have any questions, don't hesitate to contact me at (714) 779-3875.

Sincerely,

Thomas Harder, P.G., C.H.G.
Principal Hydrogeologist

cc: R.L. Schafer

Tule Subbasin MOU Group

TABLE 1

Invoice No. 9
 Hydrogeological Services - Groundwater Flow Model Development
 Re: Tule Subbasin MOU Group

Terms: Per Contract Dated 16-Nov-16 and Scope of Work dated 28-Jun-17

Billing Period: 5-Mar-18 to 30-Mar-18

Task Description	Principal Hydro-geologist \$180/hr.	Project Hydro-geologist \$120/hr.	Staff Hydro-geologist \$100/hr.	Graphics \$88/hr.	Clerical \$65/hr.	Total Labor this Invoice	Expenses this Invoice	Total Cost this Invoice	Budget	Spent to Date	Balance
1 Supplemental Data Acquisition						\$0.00		\$0.00	\$ 10,160	\$10,650.00	(\$490.00)
2 Model Design and Construction						\$0.00		\$0.00	\$ 50,940	\$50,930.00	\$10.00
3 Input File Development						\$0.00		\$0.00	\$ 88,160	\$88,155.00	\$5.00
4 Model Calibration/Sensitivity	16.75					\$3,015.00		\$3,015.00	\$ 50,480	\$46,075.00	\$4,405.00
5 Analysis of Sustainable Yield Using the Model		24	32.75			\$6,155.00		\$6,155.00	\$ 46,080	\$6,230.00	\$39,850.00
6 Model Report	0.75	18.25				\$2,325.00		\$2,325.00	\$ 45,200	\$2,325.00	\$42,875.00
7 Project Management and Meetings	17.5	10.25				\$4,380.00	\$218.00	\$4,598.00	\$ 36,600	\$29,644.74	\$6,955.26
Budget Amendment No. 1											
GSA Specific Water Budgets						\$0.00		\$0.00	\$ 25,950	\$26,660.00	(\$710.00)

Task Description	Principal Hydro-geologist \$180/hr	Project Hydro-geologist \$120/hr	Staff Hydro-geologist \$100/hr	Graphics \$65/hr	Clerical \$65/hr	Total Labor this Invoice	Expenses this Invoice	Total Cost this Invoice	Budget	Spent to Date	Balance
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Budget Amendment No. 2

Support for Coordination Agreement and Grant Funding Application	27	7.5				\$5,760.00		\$5,760.00	\$ 10,000	\$29,105.00	(\$19,105.00)
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Total This Invoice						\$21,635.00	\$218.00	\$21,853.00			
Total Authorized Budget						\$ 359,830	\$ 3,740	\$ 363,570			
Total Previously Billed						\$ 266,695.00	\$ 1,226.74	\$ 267,921.74			
Total Billed to Date						\$ 288,330.00	\$ 1,444.74	\$ 289,774.74			
Remaining Balance						\$ 71,500.00	\$ 3,295.26	\$ 73,795.26			

Expense Summary

Name:	Tom Harder
For Week Ending:	3/23/18
Client Name:	Tule Subbasin MOU Group
Project Number:	17-154-104.7

Date	Item Description	Amount
3/21	Personal Vehicle Mileage: Attend meeting in Tipton	
	400 mi @ \$0.545/mi	\$218.00

Total: TH ~~\$218~~ 218.00

See Attached Receipts.

Signed: Tom Harder