

Tule Subbasin
Sustainable Groundwater Management Act
GSAs Technical Advisory Committee Meeting

August 15, 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 18 July 2018 MOU Representatives Meeting (attached)
4. Coordination Agreement
 - Status of Coordination Agreement Drafts
5. Hydrogeologist
 - Model Development Status
 - Status of Monitoring Networks Plan for GSAs
 - Meetings with Other Subbasins
 - Thomas Harder & Co. Invoice No. 13, Groundwater Flow Model Development (attached)
6. Groundwater Sustainable Plans
 - Sustainable Management Criteria Discussion
7. Subbasin Grant
 - Tulare County Grant Status
 - Subbasin Prop 1 Grant Status
 - DWR Grant for Monitoring Well Installation & Technical Assistance
8. Budget, Financial Report & Funding Status
 - WY 2018 Budget Comparison
 - Financial Report
9. Next Meeting
 - Proposed Next GSA Technical Advisory Committee Meeting 19 September 2018 @ 1400

Tule Subbasin

Minutes of the Sustainable Groundwater Management Act
GSA Technical Advisory Committee Meeting
July 18, 2018

The Tule Sub-Basin GSA Technical Advisory Committee Representatives, met on July 18, 2018 in the conference room of Lower Tule River Irrigation District in Tipton, CA. The meeting was called to order by Mr. Schafer at 1:02 pm with the following in attendance:

Alpaugh GSA

None Present

Coordinator

R. L. Schafer

Delano Earlimart Irrigation District GSA

Dale Brogan, Representative

Eric Quinley, Representative

Secretary

David DeGroot

Eastern Tule JPA GSA

Bryce McAteer, Representative

Steve Etchegaray, Representative

Michael Reed, Representative

Steve Drumright, Representative

Costas Cecero, Representative

Michael Knight, Representative

Attorney

James Koontz, LTRID, PixID, DEID

Aubrey Mauritson, ETGSA

Consultant

Thomas Harder, Thomas Harder & Co.

Lower Tule River Irrigation District GSA

Mike Faria, Representative

Vincent Sola, Alt. Representative

Eric Limas, Alt. Representative

Department of Water Resources

Jorge Baca, Representative

Amanda Peisch-Derby, Representative

Pixley Irrigation District GSA

Mike Pitigliano, Representative

Eric Limas, Alt. Representative

Others Present

Julie Allen

Brandon Eisen

Dee Jaspar

Tim Gobler

Dennis Tristao

Armando Leal

Richard Junio

Paul Hendrix

Tri-County GSA

Deanna Jackson, Representative

Mr. Schafer provided a copy of an Agenda for the meeting and no additions or deletions were requested.

Public Comment:

No public comments were provided.

Minutes:

The minutes of the Tule Subbasin GSA Technical Advisory Committee meeting of 18 June 2018, by motion of Representative Deanna Jackson, seconded by Representative Bryce McAteer, and unanimously carried, were approved.

Coordination Agreement:

The attorneys and representatives of the GSAs met July 10, 2018 during which it was agreed Attorney Lauren Layne would provide edits to the Koontz draft Coordination Agreement in conformance with issues identified in the meeting and Attorney Aubrey Mauritsen would prepare an alternative draft Coordination Agreement with an amended format. A follow up meeting of the GSA attorneys and representatives for discussion of the Alternative Coordination Agreements was scheduled August 14, 2018, 3:00 p.m.

Hydrogeologist:

Hydrogeologist Thomas Harder stated the groundwater flow model continues to be calibrated for evaluation of initial scenarios for the subbasin to determine conditions required that result in no change in groundwater storage, and the model will be presented to the GSA representatives during the August 15, 2018 meeting. Further refinements of the groundwater flow model will occur as more current crop patterns and monitoring data are developed. Each GSA will be requested to provide future scenarios/policies, approved by the GSA, to achieve sustainability for analysis by the groundwater flow model.

Further, Thomas Harder stated he is coordinating with the Friant Water Authority consultant Stantec who is preparing an analysis and report regarding subsidence of the Friant Kern Canal. Thomas stated he is running three transitional pumping scenarios in his model including (1) 5 year ramp down of pumping to sustainable yield under average hydrologic conditions, (2) 20 year ramp down of pumping to sustainable yield under average hydrologic conditions, and (3) No ramp down of pumping for next 10 years, then ramp down over next 10 years under drought conditions.

Preparation of the Basin Setting and Monitoring Networks sections for the Subbasin by Mr. Harder, are underway and a draft for use by the GSAs for preparation of their GSP is anticipated during August/September 2018.

Mr. Harder stated that he continues discussions with the adjacent Subbasin hydrogeologists to coordinate data along the boundary of the Tule Subbasin.

A copy of the Thomas Harder and Company Groundwater Flow Model Development Invoice No. 12 was provided to the representatives, which was accepted for payment.

Groundwater Sustainability Plans (GSPs)

Mr. Schafer outlined the Sustainable Management Criteria as provided in the Department of Water Resources Best Management Practices and identified that the regulations require a subbasin wide sustainability goal, that is applicable to the entire basin, must be included in the Coordination Agreement. After much discussion, the various GSAs suggested the continuation of evaluation of different goals for the Subbasin.

Tule Subbasin Grants

David De Groot reported that the final report to conclude the deliverables required under the Tulare County Grant agreement continues in coordination with DWR and County staff, and the final invoice will be submitted during July 2018.

David De Groot also stated that the Proposition 1 Grant application was awarded for funding of \$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 Monitoring (benchmark) network with installation of extensometers, and development of LandsAT METRIC data for years 1991 – 2016 for the entire Tule Subbasin. The scope of work, deliverables, schedule, and budgets have been submitted to DWR for inclusion in the final contract, which is expected to be finalized during September 2018.

The Department of Water Resources has further made funds available to the subbasins to assist with General Technical Support including the drilling and construction of monitoring wells within the subbasin. After discussion, Representative Eric Quinley motioned to appoint David De Groot to be the grant coordinator for the Tule Subbasin for preparation of the General Application and submittal of the individual well applications. The motion was seconded by Representative Costas Cecero and unanimously carried.

Budget, Financial Report & Funding Status

The 2018 fiscal year budget comparison for the Tule Subbasin SGMA MOU Group as of 30 June 2018 was presented. Expenditures for the period, October 1, 2017 through June 30, 2018 were \$379,201.46 and 60.5% of the 2018 fiscal year budget of \$626,500.

A copy of the July 18, 2018 Financial Report was distributed to the representatives. The Report identified a June 18, 2018 cash balance of \$116,019.84, cash receipts of \$3.61 and cash disbursements of \$37,283.59 during June 2018, leaving a cash balance as of July 18, 2018 of \$78,739.86, with no unpaid assessments and outstanding bills of \$39,105.68, or a net balance as of July 18, 2018 of \$39,634.18.

Next Meeting

The next GSA Technical Advisory Committee meeting is set for Wednesday August 15, 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 3:15 p.m.

Respectfully Submitted:

David De Groot - Secretary



August 1, 2018

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

Re: Invoice No. 13 for Hydrogeological Consulting Services to Develop a Groundwater Flow Model for the Tule Subbasin MOU Group

Dear Mr. Limas,

Attached is Invoice No. 13 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 **\$20,118.00** 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,

A handwritten signature in blue ink that reads "Thomas Harder". The signature is written in a cursive, flowing style.

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

cc: R.L. Schafer

Thomas Harder & Co.
1260 N. Hancock, Suite 109
Anaheim, California 92807
(714) 779-3875

Tule Subbasin MOU Group

TABLE 1

Invoice No. 13
 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: 2-Jul-18 to 27-Jul-18

Task	Description						Total Labor hrs Invoice	Expenses this Invoice	Total Cost this Invoice	Budget	Spent to Date	Variance
		Principal Hydro-geologist \$120/hr	Project Hydro-Geologist \$120/hr	Staff Hydro-geologist \$100/hr	Graphics \$42/hr	General \$45/hr						
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						\$0.00		\$0.00	\$ 50,480	\$52,420.00	(\$1,940.00)
5	Analysis of Sustainable Yield Using the Model	22.5	10				\$5,250.00		\$5,250.00	\$ 46,080	\$46,035.00	\$45.00
6	Model Report		9.75				\$1,170.00		\$1,170.00	\$ 45,200	\$17,253.75	\$27,946.25
7	Project Management and Meetings	11	0.25				\$2,010.00	\$218.00	\$2,228.00	\$ 36,600	\$40,271.74	(\$3,671.74)
Budget Amendment No. 1												
	GSA Specific Water Budgets						\$0.00		\$0.00	\$ 25,950	\$26,660.00	(\$710.00)
Budget Amendment No. 2												
	Support for Coordination Agreement and Grant Funding Application						\$0.00		\$0.00	\$ 10,000	\$29,105.00	(\$19,105.00)
Budget Amendment No. 3												
	Prepare a Subbasin-Wide Monitoring Plan	23	20.25	49			\$11,470.00		\$11,470.00	\$ 34,560	\$21,990.00	\$12,630.00

Budget Amendment No. 4 (Approved 5/16/18)

Tule Subbasin MOU Group

TABLE 1

Task	Description	Principal Hydro-	Project Hydro-	Staff Hydro-	Graphics	Clerical	Total Labor this	Expenses this	Total Cost this	Budget	Spent to	Balance
		geologist \$190/hr	geologist \$120/hr	geologist \$100/hr	340/hr	\$65/hr	Invoice	Invoice	Invoice			
	Additional support for Coordination Agreement (Budget Partly Addresses Out-of-Scope Work Billed to Amendment 2)	3.75					\$675.00		\$675.00	\$ 28,945	\$6,910.00	\$22,035.00
Budget Amendment No. 5 (Approved 5/16/18)												
	Prepare Standard Basin Setting Section for Each GSP						\$0.00		\$0.00	\$ 16,710	\$0.00	\$16,710.00
Budget Amendment No. 6 (Approved 5/16/18)												
	Prepare Standard Monitoring Networks Section for Each GSP						\$0.00		\$0.00	\$ 6,340	\$0.00	\$6,340.00
							Total This Invoice	\$19,900.00	\$218.00	\$20,118.00		
							Total Authorized Budget	\$ 446,385	\$ 3,740	\$ 450,125		
							Total Previously Billed	\$ 381,193.75	\$ 2,098.74	\$ 383,292.49		
							Total Billed to Date	\$ 381,093.75	\$ 2,316.74	\$ 383,410.49		
							Remaining Balance	\$ 65,291.25	\$ 1,423.26	\$ 66,714.51		

Expense Summary

Name:	Tom Harder
For Week Ending:	7/20/18
Client Name:	Tule MOU Group
Project Number:	17-154-104.7

Date	Item Description	Amount
7/18	Personal Vehicle Mileage: Attend Tule MOU Group meeting in Tipton	
	400mi @ \$0.545/mi	\$218.00

Total: \$218.00

See Attached Receipts.

Signed: Tom Harder