

**Borrego Springs Watermaster  
Board of Directors Meeting  
September 8, 2022  
AGENDA ITEM IV.B**

**To:** Board of Directors  
**From:** Andy Malone, Technical Consultant  
**Date:** September 7, 2022  
**Subject:** Consideration of Approval of Statement of Work No. 5 for West Yost Services for Water Year 2023

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<input checked="" type="checkbox"/> <b>Recommended Action</b>	<input type="checkbox"/> <b>Provide Direction to Staff</b>	<input type="checkbox"/> <b>Information and Discussion</b>
<input type="checkbox"/> <b>Fiscal Impact</b>	<input type="checkbox"/> <b>Cost Estimate: \$</b>	

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**Recommended Action**

Approve the attached amendment to Exhibit A of the Borrego Springs Watermaster Professional Services Agreement with West Yost to include Statement of Work No. 5 and its associated budget of \$941,898, with caveat that spending on certain grant-related tasks may not be performed until all necessary grant agreements are in place.

Fiscal Impact: None – the Watermaster budget for WY 2023, which was approved by the Board at the July 14, 2022 regular Board meeting, includes the funding mechanisms to cover the activities in Statement of Work No 5.

**Background and Previously Related Actions by the Board**

In August 202, the Watermaster Board approved the execution of a Professional Services Agreement (PSA) with West Yost for administrative and technical services. The PSA expires on December 31, 2022. Section 1 of the PSA provides that:

*“Consultant shall provide Watermaster with the services generally described in the Statement of Work attached hereto as Exhibit “A”, and as required herein. The Parties contemplate that additional statements of work will be agreed to in writing. Upon execution by both Parties, upon Watermaster Board approval, the work described therein will become a part of the Statement of Work and subject to the terms and conditions of this Agreement without further amendment to the Agreement...”*

The budget associated with SOW No. 3 and SOW No. 4 for work performed in WY 2022 expires on September 30, 2021 and will be superseded by SOW No. 5. At the July 14, 2022 regular Board meeting, the Board approved the WY 2023 budget, which included approval of the following:

- WY 2023 Pumping Assessment of \$458,0000
- An Overproduction Penalty Assessment of \$500 per acre-foot
- Operating expenditures in the amount of \$1,126,255 (including) grant funded items, including

- \$941,898 for technical and administrative services provided by West Yost. This amount includes subconsultant services from Land IQ for the biological restoration study.
- Approval of Payment Terms with West Yost, including:
  - Establishment of a Contingent Assessment Pumping Fee that will be due and payable by pumpers in the event of default under the extended term agreement. The amount of the Contingent Assessment is \$550,000.
  - Direction to Legal Counsel to prepare an agreement to formalize the terms and prepare a contract extension with West Yost.

### **Discussion**

Of importance to funding SOW No. 5 is a recent award of grant funding by the CA Department of Water Resources (DWR) as part of its Sustainable Groundwater Management (SGMA) Implementation Grant Program funded by Proposition 68. With this grant funding the Borrego Springs Watermaster can offset the cost of certain required work it will perform in WY 2023 (such as preparation of the annual report) and perform work that it would not otherwise have funding to complete (such as a project to study the potential for biologic restoration of fallowed farmlands in the Borrego Valley). At this time, grant agreements have not been executed with DWR and Borrego Water District, and thus, the proposed payment terms and contract extension have not been formalized. Additionally, work on certain grant funded tasks—namely those that Watermaster would not otherwise have funding to perform—cannot begin until the necessary grant agreements, payment terms, and contract amendments are fully in place.

Initially, the grant agreements were expected to be in place by July 2022. The delay in executing the agreements means that the WY 2023 Budget may need to be adjusted to reconfigure the scope and budget of certain grant-related tasks. This anticipated adjustment will be necessary because the WY 2023 Budget assumed that certain grant-funded tasks would be initiated in July 2022. Ultimately, any adjustments to the budget and scope of work will not increase the anticipated costs of the grant projects presented in the grant and the WY 2023 Budget, but they will likely change the timing of spending, and in some cases, the project costs may need to be reduced to account for the lesser amount of time afforded to complete the projects in the grant eligible period. In summary, SOW No. 5 will need to be amended in the coming months, potentially as soon as during the October regular Board meeting scheduled for Thursday, October 13, 2022. For efficiency, any amendment to SOW No. 5 will be considered in conjunction with consideration and approval of the West Yost payment terms and contract extension.

At this time, Staff recommends the Board approve of SOW No. 5 as defined in the WY 2023 Budget, with caveat that West Yost spending on certain grant-related tasks may not be performed until all necessary grant agreements are in place. The reason that SOW No. 5 must be addressed now is that the current West Yost SOWs (No. 3 and No. 4) and associated budget expire on September 30, 2022.

### **Additional Information**

For reimbursement purposes, it will be critical for Staff to carefully track grant-eligible work separately from any work that cannot be reimbursed by the grant. This will mean that multiple invoices will be

submitted to the Watermaster by West Yost: one for grant-eligible costs, and one for non-eligible costs. To help staff plan and track spending in an efficient way for DWR grant reporting, the budget for each task in SOW No. 5 has been broken down into three categories of spending:

- Category 1: Non-reimbursable work (work that is not eligible for grant funding)
- Category 2: Grant reimbursable work that Watermaster must do absent grant funding
- Category 3: Grant reimbursable work that Watermaster can only do if fully grant funded

Of the total approved budget for West Yost services in WY 2023, \$764,689 is eligible for grant reimbursement. In SOW No. 5, each task denotes which categories the task applied to. The breakdown of costs into the three categories of grant-eligibility for the five Watermaster administrative and technical tasks are as follows:

Task	Task Name	Total Task Budget	Category 1	Category 2	Category 3
1	Meetings and Court Hearings	<b>\$139,972</b>	\$69,439	\$58,327	\$12,206
2	Watermaster Administration and Management	<b>\$102,119</b>	\$62,661	\$5,139	\$34,319
3	Engineering and Technical Services	<b>\$402,162</b>	\$44,994	\$217,826	\$139,342
4	Environmental Working Group	<b>\$294,399</b>	\$5,769	\$0	\$288,630
5	Services Reimbursed by Parties with Manual-read Meters	<b>\$3,246</b>	\$3,246	\$0	\$0
	Total	<b>\$941,898</b>	\$186,109	\$281,292	\$474,497

In accordance with Staff's recommended action, work on "Category 3" tasks cannot and will not be initiated until the grant agreements and West Yost payment terms and contract extension are in place.

### **Enclosures**

AMENDMENT NO. 5 TO THAT AGREEMENT ENTITLED "BORREGO SPRINGS WATERMASTER PROFESSIONAL SERVICES AGREEMENT"

Statement of Work No. 5 - West Yost Administrative and Technical Services for the Borrego Springs Watermaster – Water Year 2023

AMENDMENT NO. 5 TO THAT AGREEMENT ENTITLED "BORREGO SPRINGS WATERMASTER PROFESSIONAL SERVICES AGREEMENT"

1. The attached Statement of Work No. 5 and the \$941,898 budgeted for all tasks hereby are added to Exhibit A of the above-referenced agreement ("Agreement").

2. Statement of Work No. 5 was approved by the Watermaster Board at its September 8, 2022 regular meeting.

3. Other than as so expressly amended, the Agreement and each and every term and provision therein shall remain in full force and effect.

IN WITNESS WHEREOF, the Parties have executed this Amendment No. 5 as of the date stated below.

BORREGO SPRINGS WATERMASTER

WEST YOST

By: \_\_\_\_\_  
David Duncan,  
Chairperson of the Board

By: \_\_\_\_\_  
Charles Duncan,  
President

Dated: \_\_\_\_\_

APPROVED AS TO FORM:

By: \_\_\_\_\_  
James L. Markman,  
Watermaster General Counsel

**Statement of Work No. 5 (SOW No. 5)**  
**West Yost Administrative and Technical Services**  
**for the Borrego Springs Watermaster – Water Year 2023**  
*September 8, 2022*

The following describes statement of work (SOW) No. 5 for West Yost administrative and technical services for Water Year 2023: October 1, 2022 through September 30, 2023. On October 1, 2022, SOW No. 3 will supersede and replace SOWs No. 3 and 4 from Water Year 2022. The attached Exhibit 1 provides the line-item cost estimate detail for each task and sub-task in SOW No. 5, including labor, subconsultants, and other direct charges. Exhibit 1 was included in the WY 2023 Budget approved by the Board of Directors at its July 14, 2022 meeting. The total budget for SOW No. 5 is \$941,898.

Of importance to funding SOW No. 5 is a recent award of grant funding by the CA Department of Water Resources (DWR) as part of its Sustainable Groundwater Management (SGMA) Implementation Grant Program funded by Proposition 68. With this grant funding the Borrego Springs Watermaster can offset the cost of certain required work it will perform in WY 2023 (such as preparation of the annual report) and perform work that it would not otherwise have funding to complete (such as a project to study the potential for biologic restoration of fallowed farmlands in the Borrego Valley). At the time of initial approval of this SOW No. 5 (September 8, 2022), the grant agreements have not been executed and thus work on certain grant funded tasks, namely those that Watermaster would not otherwise have funding to perform, cannot begin until the necessary grant agreements are fully in place. For reimbursement purposes, it will be critical to carefully track grant-eligible work separately from any work that cannot be reimbursed by the grant. To help staff plan and track spending in an efficient way for DWR grant reporting, the budget for each task in SOW No. 5 has been broken down into three categories of spending:

- Category 1: Non-reimbursable work (work that is not eligible for grant funding)
- Category 2: Grant reimbursable work that Watermaster must do absent grant funding
- Category 3: Grant reimbursable work that Watermaster can only do if fully grant funded

Work on Category 3 tasks cannot be initiated until the grant agreements are in place. Of the total approved budget for West Yost services in WY 2023, \$764,689 is eligible for grant reimbursement. The breakdown of costs into the three categories of grant-eligibility for the five Watermaster administrative and technical tasks are as follows:

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*September 8, 2022*

**Task Descriptions**

**Task 1 – Meetings and Court Hearings.** This task is to conduct or participate in Watermaster process meetings. This work includes coordinating with the Board, legal counsel, TAC members, preparing the agenda and meeting packages, preparing presentation materials, leading the meetings, and preparing minutes. There are four sub-tasks by meeting type. **Budget: \$139,972**

**1.1 Meetings and Court Hearings. Budget: \$92,508** It is assumed that about 12 meetings will be held. Two meetings are planned to occur in-person in Borrego Springs, and ten meetings will be held virtually. For ease of grant-reimbursement of eligible meeting costs, up to 4 meetings will be dedicated to grant-related business. [Category 1, 2]

**1.2 Technical Advisory Committee Meetings. Budget: \$29,590** It is assumed that up to four virtual TAC meetings will be conducted. [Category 2]

**1.3 Court Hearings. Budget: \$5,668** Preparation for and/or attendance at Court hearings, as needed. [Category 1]

**1.4 Stakeholder Outreach. Budget: \$12,206** Two in-person Stakeholder Outreach meetings will be held in Borrego Springs, timed to occur on the date of the in-person Watermaster Board meetings. [Category 3]

**Task 2 – Watermaster Administration and Management.** The Executive Director will organize, oversee, and/or perform the administrative and management aspects of running the Watermaster and administering the Judgment, Rules and Regulations, and GMP. This includes eight subtasks. **Budget: \$102,119.**

**2.1 Prepare the Watermaster annual budget. Budget: \$10,784** In collaboration with the TAC, prepare a draft administrative and technical budget for WY 2024 by June 30, 2023; and finalize the budget for approval by July 2023. [Category 1]

**2.2 Insurance, accounting, and financial services. Budget: \$16,228** Obtain and maintain insurance policies (e.g., liability insurance) as directed by the Board; maintain a bank account; prepare and issue assessment invoices; prepare monthly financials; oversee the annual audit, and perform other as-requested accounting and financial services. [Category 1]

**2.3 Annual water rights accounting and pumping assessment calculation. Budget: \$0.** For ease of grant reimbursement, this task is now combined with the Watermaster Annual Report (see Task 3.5 below).

**2.4 Management of Watermaster records, documents, and website. Budget: \$5,139** Maintain a catalog of the reference documents, official correspondence, and Watermaster files and records, and storing a copy of all records available for public access pursuant to the Rules and Regulations. Staff will also host and maintain the Watermaster website, including: posting notices,

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determinations, requests, demands, objections, reports, and other papers pursuant to the Judgment. Staff will ensure confidential data is maintained accordingly. [Category 2]

**2.5 Respond to and track public information requests. Budget: \$2,898** This includes timely response to requests for data and information from the Parties or the public. All requests will be responded to and tracked in a manner consistent with any policies adopted by the Watermaster. This also includes maintaining an active list of stakeholders interested in receiving notifications regarding Watermaster activities; also maintain a current list of names and addresses of all Parties to Stipulated Agreement or their successors. [Category 1]

**2.6 As-needed support to the BPA Parties. Budget: \$9,654** This task is to provide routine support the BPA parties in compliance with the Judgment and Rules & Regulations. Watermaster staff will be available to support the Parties, as needed and within reason, to ensure they understand the Judgment requirements, such as the metering program, payment of assessments, water rights accounting, and fallowing standards. Any significant requests for support will be taken to the Board for direction. [Category 1]

**2.7 As-needed administration of the terms of the Judgment, Rules & Regulations, and Groundwater Management Plan. Budget: \$12,114** This includes any other as-needed performance of non-routine services to implement the Watermaster guidance documents. [Category 1]

**2.8 Other general administration and project managements tasks. Budget: \$10,983** This includes, but is not limited to, managing staff and subconsultants, tracking task schedules and progress, and tracking budget progress. [Category 1]

**2.9 Prop 68 Grant project management and reporting. Budget: \$34,319** This includes administration of grant-related tasks and preparing all quarterly reports and grant reimbursement requests to DWR. [Category 3]

**Task 3 – Technical Services.** The objective of this task is for the Technical Consulting team to perform the technical services required by the Judgment, Rules and Regulations, and GMP for WY 2022. This includes 12 subtasks. **Budget: \$402,162.**

**3.1 Coordinate and implement the meter reading program. Budget: \$46,328** This includes:

- 3.2a – Performance and review of the required meter calibration and accuracy tests. The data will be reviewed for accuracy and QA/QC, recorded, and any delinquencies reported back to the BPA Party. This work includes vendor costs to perform the testing, which is a grant reimbursable task. [Category 2, Category 3]
- 3.2b – monthly collection and processing of meter read data. The data will be reviewed for accuracy and QA/QC, recorded, and used to compute monthly pumping volumes. This

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task ***does not*** include work to perform meter reading services at manual-read meters. That work is directly paid for by the BPA Parties with manual-read meters. [Category 2]

**3.2 Implement Interim GMP Monitoring Program. Budget: \$69,966** This task includes implementing the interim groundwater monitoring program for fall 2022 and spring 2023. The monitoring program includes semi-annual field collection of groundwater-level measurements (manual and pressure transducer downloads), groundwater-quality samples. The analytes for water quality sampling include arsenic, fluoride, nitrate, sulfate, total dissolved solids (TDS), and all other major anions and cations. Following the field events, the field and laboratory data will be cataloged, processed into standardized formats, reviewed for QA/QC, and uploaded to HydroDaVE. This task includes the operation and maintenance of wells, measuring devices, and/or meters necessary to monitor stream flow and groundwater levels. [Category 2, Category 3]

**3.3 Implement Surface Water Monitoring Program. Budget: \$93,948** The objective of this task to implement a surface water monitoring program to collect data that can be used in the BVHM to assess Basin recharge and the Sustainable Yield. In WY 2023, Watermaster will design and equip a new surface-water discharge monitoring station in Coyote Creek, which includes installation of a camera (ECAM or equivalent) and staff gauge, surveys, establishing rating curves, and repairs/maintenance of the facility in the event of disturbances during or after high-discharge events. Following installation of the monitoring station, it will be monitored in accordance with the grant scope of work – including up to three visits to the site in WY 2023. [Category 3]

**3.4 Maintain Database Management System (HydroDaVE) for all groundwater, surface water, and climate data. Budget: \$15,731** This covers the work to maintain and keep up to date the Watermaster’s database management system (DMS), HydroDaVE, including:

- annual collection and processing of other environmental datasets relied on to manage the Basin, including precipitation, climate, surface-water quality, municipal well water quality, and others. [Category 2]
- as-needed services to continue to build out the DMS (design custom reports, load new shapefiles, upload newly identified legacy data, build out library, etc.). [Category 2]
- loading of data to the State’s GAMA database in compliance with the Prop 68 grant agreement. [Category 3]

**3.5 CASGEM/MNW Compliance. Budget: \$1,240** This task includes using HydroDaVE to export data using the custom CASGEM report that provides the data in the exact format required by the DWR for its Monitoring Network data portal (MNW). Data will be delivered to DWR twice per year following the fall and spring monitoring events in Task 3.2. [Category 2]

**3.6 Prepare Combined Annual Report to Court and DWR. Budget: \$52,442** Prepare the draft and final annual report pursuant to the requirements of Section IV.E(5)(b) of the Judgment and Section 4.2.8 of the Rules and Regulations. This includes performance of annual accounting of water rights to compute the annual pumping assessment for each Party for WY 2023. This includes work to

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prepare and maintain reports of carryover rights and transfers of BPA, updates to Exhibit 4 to the Judgment to file with Court annually (or file a statement that no transfer of BPA has occurred in the prior Water Year). [Category 2]

**3.7 Address inactive wells via proper abandonment or conversion to monitoring well (outreach and cost estimating).** *Budget: \$10,023* The objective of this task to identify improperly abandoned wells, and if accessible through an easement or other access agreement, determine the costs to either properly abandon the wells or convert them to Watermaster monitoring wells. [Category 3]

**3.8 As-needed technical support for implementation of the Judgment, Rules and Regulations, and Groundwater Management Plan.** *Budget: \$15,164* This includes any other as-needed performance of non-routine technical services to implement the Watermaster guidance documents, such as updating forms and protocols, educating the Board and TAC on Best Management Practices, analysis of data, processing well applications, or use of the BVHM. [Category 2]

**3.9 Technical Work to Support Update of Sustainable Yield.** *Budget: \$31,598* This work involves building on the work performed by the TAC in WY 2022 to update the model and assess the perform the ability of the model to estimate groundwater pumping. The final scope of work will be determined by the TAC by December 2022, the cost of which must be in-line with the defined budget herein (\$31,598). [Category 2]

**3.10 Complete Groundwater Monitoring Work.** *Budget: \$23,744* Section VI.B of the Judgment requires the Watermaster to develop a Water-Quality Monitoring Plan (WQMP) with TAC input within 24 months of entry of Judgment (by April 2023). The scope of the monitoring work plan has been expanded to also include groundwater level monitoring. The steps to develop the work plan include: (i) define the questions that the monitoring plan should answer to comply with the Judgment and GMP; (ii) identify the gaps in the interim monitoring program that should be filled; and (iii) describe recommended steps and costs to fill the data gaps and perform ongoing monitoring. The monitoring program work plan was started in WY 2022 and be completed in WY 2023. [Category 2]

**3.11 TSS Program Implementation (new monitoring well).** *Budget: \$11,000* The objective of this task is to support the DWR in its construction of a new multi-depth completion monitoring well in the North Management Area. DWR will cover all contractor and construction costs. This task covers time for Watermaster staff to support the program. [Category 1]

**3.12 Address Ad Hoc Requests of TAC from the Board.** *Budget: \$9,930* From time to time, the Board may request activities or special studies for the TAC to complete. These ad hoc activities are undefined and will only be performed as requested. [Category 1]

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**Task 4 – Environmental Working Group.** The objective of this task is to support the activities of the EWG. This includes eight subtasks. **Budget: \$294,399.**

**4.1 Biological Restoration of Fallowed Lands.** **Budget: \$288,630** The objective of this project is to develop guidance on techniques to mitigate the potential adverse impacts associated with the fallowing of lands that is expected to occur within the Basin. The project will include analyzing existing data and information, conducting field reconnaissance, and assessing test cases of biological restoration techniques at existing fallowed lands within the Basin. A final technical report will describe and document the results, conclusions, and recommendations; the biological restoration strategies that are expected to be most effective within the Basin; and a prioritization of land parcels for biological restoration. This is a multi-year project that will begin in WY 2023 and be completed by the end of the grant reimbursement period.

**4.2 Prepare for and attend EWG Meetings.** **Budget: \$5,769** This includes up to one virtual meeting to conduct EWG business not related to the Biological Restoration study.

**Task 5 – Services Reimbursed by Parties with Manual-read Meters.** The objective of this task is to support the implementation of the meter reading program for parties with manual-read meters, including coordination with BWD (Watermaster’s contractor to perform the meter reads) and coordination with well owners during self-reporting months. Pursuant to the Judgment, this work must be funded by the Parties with manual read meters. **Budget: \$3,264.**

Exhibit 1: Labor Hours and Fee Estimate to Provide Professional Services to the Borrego Springs Watermaster: Executive Director and Technical Consultant Services for Water Year 2023

Task and Subtask Descriptions	Labor Hours and Cost											Reimbursable Expenses					Total Project Costs		Reimbursable Costs Included in Prop 68 Grant Award				
	Executive Director	Lead Technical Consultant	Principal Sci/Eng II	Principal Sci/Eng I	Senior Sci/Geol/Eng II	Associate Sci/Geol/Eng I	Staff Sci/Geo/Eng II	Staff Sci/Geo/Eng I	Field Technician	Administrative III/IV	Task Repetition Multiplier	Total Person Hours	WEI Labor Cost		Travel	Field Equipment Rental or Purchase	Laboratory	Sub-contractor		Total Reimbursable Expenses		Sub-Task	Task
													Sub-Task	Task						Sub-Task	Task		
<b>Task 1 - Meetings and Court Hearings</b>												<b>\$137,924</b>							<b>\$2,048</b>		<b>\$139,972</b>	<b>\$70,533</b>	
1.1 Watermaster Board meetings												<b>\$90,710</b>							<b>\$1,798</b>			<b>\$92,508</b>	<b>\$28,737</b>
Prepare for and attend 10 Regular Board meetings (Virtual)	12	5					8		2	10	270								\$0		\$69,050		
Prepare for and attend 2 Regular Board meetings (In Person)	17	10					13		2	2	84			\$1,798					\$1,798		\$23,458		
1.2 Technical Advisory Committee meetings												<b>\$29,590</b>							<b>\$0</b>			<b>\$29,590</b>	<b>\$29,590</b>
Prepare for and attend 4 TAC meetings (Virtual)	3	10					8		1	4	88								\$0		\$22,436		
Prepare memos to the Board	0.5	3					3		1	4	30								\$0		\$7,154		
1.3 Court Hearings												<b>\$5,418</b>							<b>\$250</b>			<b>\$5,668</b>	<b>\$0</b>
As-needed attendance at Court hearings	18										1	18		\$250					\$250		\$5,668		
1.4 Stakeholder Outreach (Prop 68 Grant)												<b>\$12,206</b>							<b>\$0</b>			<b>\$12,206</b>	<b>\$12,206</b>
Stakeholder Open House	8	7					8				2	46							\$0		\$12,206		
<b>Task 2 - Watermaster Administration and Management</b>												<b>\$102,119</b>							<b>\$0</b>		<b>\$102,119</b>	<b>\$39,458</b>	
2.1 Prepare the draft and final Watermaster budget for WY 2023 (including collaboration with the TAC)	20	8					8	4			1	40							\$0	\$0	\$10,784		\$0
2.2 Insurance, accounting, and financial services	12						8				76	1	96						\$0	\$0	\$16,228		\$0
2.3 Annual water rights accounting and pumping assessment calc.											1	0							\$0	\$0	\$0		\$0
2.4 Management of Records, Documents, and Website	0.3						1				1	12	27						\$0	\$0	\$5,139		\$5,139
2.5 Track/respond to public communications and requests	0.3						0.3	0.25			0.5	12	15						\$0	\$0	\$2,898		\$0
2.6 As-needed support to the BPA Parties	1.5						1				1	12	42						\$0	\$0	\$9,654		\$0
2.7 As-requested admin. of the Judgment, Rules & Regs, and GMP	30						12				4	1	46						\$0	\$0	\$12,114		\$0
2.8 General administration and project managements tasks	1						2.3				1	12	51						\$0	\$0	\$10,983		\$0
2.9 Prop 68 Grant project management and reporting	2	2					3				7.5	12	174						\$0	\$0	\$34,319		\$34,319

Exhibit 1: Labor Hours and Fee Estimate to Provide Professional Services to the Borrego Springs Watermaster: Executive Director and Technical Consultant Services for Water Year 2023

Task and Subtask Descriptions	Labor Hours and Cost											Reimbursable Expenses					Total Project Costs		Reimbursable Costs Included in Prop 68 Grant Award						
	Executive Director	Lead Technical Consultant	Principal Sci/Eng II	Principal Sci/Eng I	Senior Sci/Geo/Eng II	Associate Sci/Geo/Eng I	Staff Sci/Geo/Eng II	Staff Sci/Geo/Eng I	Field Technician	Administrative III/IV	Task Repetition Multiplier	Total Person Hours	WEI Labor Cost		Travel	Field Equipment Rental or Purchase	Laboratory	Sub-contractor		Total Reimbursable Expenses		Sub-Task	Task		
													Sub-Task	Task						Sub-Task	Task				
<b>Task 3 - Engineering and Technical Services</b>												<b>\$327,116</b>						<b>\$75,046</b>	<b>\$402,162</b>	<b>\$366,068</b>					
3.1 Coordinate and implement meter program												\$30,893						\$15,435				\$22,475	\$46,328	\$46,328	
a Collect and review annual meter calibration/accuracy reports	4	4				24					1	32	\$7,040				\$15,435	\$15,435			\$22,475		\$46,328		
b Collect, catalog monthly meter reads and calculate pumping	0.8				2		8				12	129	\$23,853						\$0		\$23,853				
3.2 Implement Groundwater Monitoring Program												\$34,816						\$35,150				\$60,746	\$69,966	\$69,966	
a Semi-annual field collection of groundwater level and quality	1				1	8	1	96			2	214	\$25,596	\$5,400	\$10,750	\$5,000	\$14,000	\$35,150			\$60,746		\$69,966		
b Review, QA/QC, and upload of field/lab data to HydroDaVE	1	3			2		18				2	48	\$9,220					\$0		\$9,220			\$69,966		
3.3 Implement Surface Water Monitoring Program												\$93,948						\$19,936				\$86,846	\$113,884	\$113,884	
a Design and Install Surface Water Monitoring Station	12	16	24		100	62	60		32		1	306	\$68,950	\$1,396	\$16,500			\$17,896		\$86,846			\$113,884		
b Initial Monitoring Events	1.5	1.5			30		2	8	20		2	126	\$24,998	\$2,040				\$2,040		\$27,038			\$113,884		
3.3 Maintain Database Management System (HydroDaVE)												\$15,731						\$0				\$5,263	\$15,731	\$15,731	
a Annual collection, process, and upload of other hydrologic and water quality data (precip, climate, municipal well WQ)	1	2			4				20		1	27	\$5,263					\$0		\$5,263			\$15,731		
b As-needed services (develop custom reports, upload newly identified legacy data from parties, build out library)	2	4		16		16			5.5		1	43.5	\$10,468					\$0		\$10,468			\$15,731		
3.4 CASGEM/MNW Compliance (fall 2021 and spring 2022 reporting)												\$2,352						\$0					\$2,352	\$2,352	\$2,352
3.5 Combined Annual Report to the Court and DWR (including water rights accounting)	60	32	6		6	60	36			16	1	216	\$52,442					\$0		\$52,442			\$52,442		
3.6 Address inactive wells via proper abandonment or conversion to monitoring well (outreach and cost estimating)	4	10					10		20		1	44	\$8,244	\$1,715	\$64			\$1,779		\$10,023			\$10,023		
3.7 As-needed support for implementation of the Judgment, Rules & Regs, and GMP (e.g. review of following standards compliance)	12	24			4	8		8		4	1	60	\$15,164					\$0		\$15,164			\$0		
<b>TAC Recommended Scope of Work WY 2022</b>												\$31,598						\$0					\$31,598	\$31,598	\$31,598
3.8 Technical Work to Support Update of Sustainable Yield	6	22	30			56	12			5	1	131	\$31,598					\$0		\$31,598			\$31,598		
3.9 Complete Development of Work Plan for a Groundwater Quality and Expanded Groundwater Level Monitoring Program	6	12				40	8	4	40	12	1	122	\$21,994	\$1,396	\$354			\$1,750		\$23,744			\$23,744		
3.10 TSS Grant Implementation (new monitoring well)		12				16		8	8		1	44	\$10,004	\$996				\$996		\$11,000			\$0		
3.11 Address Ad Hoc Requests from the Board	4	16				8	6	8			1	41.5	\$9,930					\$0		\$9,930			\$0		
<b>Task 4 - Environmental Working Group</b>												\$18,644						\$275,755				\$294,399	\$288,630	\$288,630	
4.1 Biological Restoration of Fallowed Lands (including EWG Reviews)	6	28		5		8					1	47	\$12,875				\$275,755	\$275,755		\$288,630			\$288,630		
4.2 EWG Meetings	3	12				6				1	1	22	\$5,769					\$0		\$5,769			\$0		
<b>Task 5 - Services Reimbursed by Parties with Manual-read Meters</b>												\$3,246						\$0				\$3,246	\$0	\$0	
5.1 Consulting services to Parties with manual-read meters	0.5							0.5	0.3	12	15		\$3,246					\$0		\$3,246			\$0		
<b>Task Totals</b>	<b>466</b>	<b>371</b>	<b>60</b>	<b>21</b>	<b>190</b>	<b>472</b>	<b>294</b>	<b>218</b>	<b>332</b>	<b>285</b>	<b>2,158</b>		<b>\$589,049</b>	<b>\$14,991</b>	<b>\$27,668</b>	<b>\$5,000</b>	<b>\$305,190</b>	<b>\$352,849</b>		<b>\$941,898</b>			<b>\$764,689</b>		