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August 6th, 2018

TEMPE

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Peter Acton, PE
Richard Waskowsky, PE

Joaquin Solis, PE
Cochise County Highway & Floodplain
1415 Melody Lane
Bisbee, AZ 85603

RE: Proposal – Ephemeral Streamflow and Groundwater
Monitoring Year 2
Additional Service #1

Dear Joaquin:

Per your request, JE Fuller/Hydrology & Geomorphology (JE Fuller) is providing you with this proposal for the referenced services. This proposal pertains to Additional Service #1 of the current County contract for Ephemeral Streamflow and Groundwater Monitoring, PSA 18-12-HFP-03, to extend the monitoring period to the end of December 2018. This work pertains to surface water and groundwater monitoring stations at or near the following project sites: Palominas, Riverstone, Bella Vista, and Horseshoe Draw.

The following items are proposed modifications to the contract:

- A. Extend the contract duration to March 31, 2019, and establish the following milestone schedule:
 - a. Extend the monitoring period through December 31, 2018
 - b. Submit Draft Report (Deliverable 2) by January 31, 2019
 - c. Submit Final Report (Deliverable 3) by March 29, 2019
- B. Two additional data downloads will occur in October and December 2018 at all streamflow, precipitation, surface water imagery, and groundwater monitoring stations;
- C. One additional equipment maintenance visit will occur during the last half of 2018; and,
- D. The Draft and Final Reports will cover the period through December 2018.
- E. Extend the original contract amount by **\$29,607** to cover the listed additions.

JE Fuller appreciates the opportunity to provide you with this proposal. You may indicate your acceptance of this proposal and provide notice to proceed by forwarding the applicable Professional Services Agreement (PSA) Amendment for signature. As always, please feel free to contact me by email (cyrus@jefuller.com) or by phone at 520-623-3112 if you have any questions regarding this proposal.

Sincerely,

JE Fuller/Hydrology & Geomorphology, Inc.

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ATTACHMENT A
Summary Cost Sheet for the
Ephemeral Streamflow and Groundwater
Monitoring SOW
Including Additional Service #1



PROJ: Cochise County/Ephemeral Streamflow and Groundwater Monitoring Year 2 Project
 DETAIL: Total Project Cost Calculation
 DATE: June 29, 2018
 Prepared by: JE Fuller/Hydrology & Geomorphology (JE Fuller)

**ATTACHMENT A - Summary Cost Sheet for the Ephemeral Streamflow and Groundwater Monitoring SOW
 Including Additional Service #1**

Task	Title	Deliverable (see SOW for task details)	Costs				
			Original		Add. Service #1		TOTAL
			JE Fuller	GSA	JE Fuller	GSA	
1	Project Management	Deliverable 1: Monthly Reports and Invoices and Monthly Meetings/Conference Calls	\$12,970	\$8,408	\$4,832	\$3,231	\$29,441
2	Monitoring Equipment Maintenance and Stabilization	-	\$379	\$7,578	\$0	\$0	\$7,957
3	Survey of Monitored Channel Reaches/Stations	-	\$6,170	\$0	\$0	\$0	\$6,170
4a	Quarterly & Mid-Monsoon Data Downloads	Deliverables 2, 3, and 4: A Draft Annual Monitoring Report will be submitted to the project team at the end of the monitoring period. All project activities will be clearly documented, including data interpretation and analysis. All associated data will be provided in electronic format, as an appendix to the draft and final reports. (Deliverable 2) A Final Annual Monitoring Report will be submitted within one month of receipt of comments from the project team. (Deliverable 3) A memorandum summarizing the groundwater monitoring data will be submitted to the project team. (Deliverable 4)	\$564	\$11,273	\$226	\$4,520	\$16,583
4b	Equipment Maintenance		\$1,182	\$4,048	\$137	\$2,735	\$8,102
4c	Data Processing and Analysis		\$8,017	\$8,734	\$1,492	\$3,439	\$21,682
4d	Reporting-Ephemeral Streamflow Monitoring		\$3,286	\$5,522	\$1,081	\$4,018	\$13,907
4e	Reporting-Groundwater Monitoring		\$375	\$3,104	\$119	\$2,384	\$5,982
4f	Annual Results Presentation		\$946	\$1,327	\$66	\$1,327	\$3,667
TOTALS			\$33,890	\$49,994	\$7,953	\$21,654	\$113,490

Notes:

5.00% Subconsultant markup included in JE Fuller Cost
 All fee estimates are approximate.
 The total fee is a not-to-exceed (NTE) amount and individual task fees may vary within the total NTE.
 Where needed tasks may be performed concurrently or out of the sequence indicated above.



ATTACHMENT B
JE Fuller Cost Sheet for the
Ephemeral Streamflow and Groundwater
Monitoring SOW
Including Additional Service #1



PROJ: Cochise County/Ephemeral Streamflow and Groundwater Monitoring Year 2 Project
 DETAIL: JEF Cost Calculation
 DATE: June 29, 2018
 Prepared by: JE Fuller/Hydrology & Geomorphology (JE Fuller)

**ATTACHMENT B - JE Fuller Cost Sheet for the Ephemeral Streamflow and Groundwater Monitoring SOW
 Including Additional Service #1**

Task	Title	Deliverable (see SOW for task details)	Original					Additional Service #1					Total
			JE Fuller Hours		JE Fuller Labor Cost	JE Fuller Direct Costs	JE Fuller Cost Subtotal	JE Fuller Hours		JE Fuller Labor Cost	JE Fuller Direct Costs	JE Fuller Cost Subtotal	JE Fuller Total Cost
			PM II	PE II				PM II	PE II				
			\$135.00	\$110.00									
1	Project Management	Deliverable 1: Monthly Reports and Invoices and Monthly Meetings/Conference Calls	6	104	\$12,250	\$300	\$12,550	2	40	\$4,670	\$0	\$4,670	\$17,220
2	Monitoring Equipment Maintenance and Stabilization	-	0	0	\$0	\$0	\$0	0	0	\$0	\$0	\$0	\$0
3	Survey of Monitored Channel Reaches/Stations	-	0	52	\$5,720	\$450	\$6,170	0	0	\$0	\$0	\$0	\$6,170
4a	Quarterly & Mid-Monsoon Data Downloads	Deliverables 2, 3, and 4: A Draft Annual Monitoring Report will be submitted to the project team at the end of the monitoring period. All project activities will be clearly documented, including data interpretation and analysis. All associated data will be provided in electronic format, as an appendix to the draft and final reports. (Deliverable 2) A Final Annual Monitoring Report will be submitted within one month of receipt of comments from the project team. (Deliverable 3) A memorandum summarizing the groundwater monitoring data will be submitted to the project team. (Deliverable 4)	0	0	\$0	\$0	\$0	0	0	\$0	\$0	\$0	\$0
4b	Equipment Maintenance		0	8	\$880	\$100	\$980	0	0	\$0	\$0	\$0	\$980
4c	Data Processing and Analysis		4	64	\$7,580	\$0	\$7,580	0	12	\$1,320	\$0	\$1,320	\$8,900
4d	Reporting-Ephemeral Streamflow Monitoring		2	24	\$2,910	\$100	\$3,010	0	8	\$880	\$0	\$880	\$3,890
4e	Reporting-Groundwater Monitoring		0	2	\$220	\$0	\$220	0	0	\$0	\$0	\$0	\$220
4f	Annual Results Presentation		0	8	\$880	\$0	\$880	0	0	\$0	\$0	\$0	\$880
TOTALS			12	262	\$30,440	\$950	\$31,390	2	60	\$6,870	\$0	\$6,870	\$38,260

Notes:
 All fee estimates are approximate.
 The total fee is a not-to-exceed (NTE) amount and individual task fees may vary within the total NTE.
 Where needed tasks may be performed concurrently or out of the sequence indicated above.



ATTACHMENT C
GSA Fee Estimate for
Additional Service #1



San Pedro Ephemeral Streamflow Monitoring - Year 2 Extension
 (August - December 2018)
 1815 - JE Fuller
 June 19, 2018

Table 1 - Cost Summary By Task

	Total Costs
1 - Project Management	\$3,231
1a - Project Coordination and Management	\$1,423
1b - Monthly CCRN Technical Team Meetings	\$1,808
3 - Monitoring and Reporting	\$18,424
3a - Quarterly Data Downloads (October, December)	\$4,520
3b - Equipment Maintenance	\$2,735
3c - ESM & Groundwater Data Processing and Analysis	\$3,439
3d - ESM 2018 Calendar Year Report	\$4,018
3e - Groundwater Monitoring Data Memo	\$2,384
3f - Present Annual Results	\$1,327
Proposal Grand Total	\$21,655