



# Addendum No. 1

## ASR Monitoring Well Drilling

TMWA Bid No.: 2019-002  
TMWA Capital Project No.: 15-0052  
September 6, 2018

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time and construction schedule remain the same.

### CLARIFICATION, QUESTIONS AND RESPONSES

#### CLARIFICATION

**Clarification No. 1:** Please replace the Bid Schedule (pages 3-9) with Revised Bid Schedule dated September 6, 2018 attached hereto.

#### QUESTIONS AND RESPONSES

**Question No. 1:** For the location on Zolezzi – It is marked in the sagebrush. Will an area be cleared and a pad made at this site?

**Response to Question No. 1:** Yes, an area will need to be cleared for a drill pad with minimum disturbance to the area. Please refer to the revised bid schedule included in this addendum for this line item.

**Question No. 2:** Is there a slot size and gravel size that you would like to use for these wells?

**Response to Question No. 2:** Yes, the slot size should be 0.06-inch. The gravel pack must be compatible with the 0.06-inch slot size, refer to Section 4.1.6 in the Technical Specifications regarding the specifics of gravel pack.

**Question No. 3:** For the Slots – do you want that to be a wire wrapped screen or is perforated casing acceptable?

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**Response to Question No. 3:** Mill slot perforated casing is preferred.

**Question No. 4:** It mentions that the clean discharge water can be pumped to the ditch on site. Is this accurate for all three locations?

**Response to Question No. 4:** Please see the revised bid schedule included in this addendum for this line item.

**Question No. 5:** There is no bid item for the e-logging of the holes but it is referenced in the tech specs. Does this need to be done?

**Response to Question No. 5:** Yes, please see the revised bid schedule included in this addendum for this line item.

**Question No. 6:** For clarification – Conductor is optional at the discretion of the Contractor?

**Response to Question No. 6:** Correct

**Question No. 7:** Are we expected to encounter any Loss Circulation while drilling mud rotary?

**Response to Question No. 7:** The contractor should be prepared to deal with any type of drilling conditions.

**Question No. 8:** How often is the contractor to conduct and provide to the Owner mud checks per their specifications?

**Response to Question No. 8:** Every two hours or at the request of the onsite hydrogeologist.

**Question No. 9:** Is Welder certification required or just competency under the standards noted in 4.1.5?

**Response to Question No. 9:** The welder must be qualified in accordance with American Welding Society.

**Question No. 10:** Water availability, location and volume at each site?

**Response to Question No. 10:** A water source will be available within a one-mile radius of the proposed drilling location and the volume available will be dependent on the contractor's method of storage and volume required for drilling. For bidding purposes, please refer to revised bid schedule included in the addendum for this line item.

**Question No. 11:** Are there discharge points identified at each site for water produced during air lifting?

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**Response to Question No. 11:** Yes, please see the revised bid schedule included in this addendum for approximate distances to a discharge point for each monitoring well.

**Question No. 12:** Will fluid and cutting disposal be available on-site or should contractor plan for disposal offsite?

**Response to Question No. 12:** No, cutting disposal will not be available on site and the contractor should plan for disposal offsite. Please see the bid schedule for site-specific distances for cutting disposal. This is also noted in the technical specifications.

**QUESTION CUT-OFF DATE: September 5, 2018**

**END OF ADDENDUM NO. 1**

**ATTACHMENT  
ADDENDUM NO. 1**

**BID SCHEDULES**

**TMWA Bid#:** 2019-002

**BID TITLE:** ASR Monitoring Well Drilling

**NOTICE:** No substitution or revision to this Bid Schedule form will be accepted. Truckee Meadows Water Authority will reject any Bid that is received that has changes or alterations to this document. Prevailing Wages do not apply to this project; however, should Prevailing Wages become applicable, the bidder is responsible to verify with the Labor Commissioner if any addendums have been issued.

**PRICES** must be valid for 30 calendar days after the bid opening.

**A COPY OF THE "CERTIFICATE"** of eligibility to receive a preference in bidding on public works issued to him/her by the State Contractors' Board and (if claiming Locals Preference) the Local's Preference Affidavit (provided above) must be submitted with his/her bid to the Contracts Division for the preference to be considered. These Statutes do not apply to projects expected to cost less than \$250,000.

**COMPLETION** of this project is expected **PURSUANT TO CONTRACT DOCUMENTS**.

**BIDDER** acknowledges receipt of \_\_\_\_\_ Addendums.

Item pricing on this schedule is for use in preparing the schedule of values that will be used as a basis for partial payment during construction and for internal TMWA use. Item descriptions are not intended to be all inclusive. Bidders shall include costs for work not specifically mentioned in the most appropriate item.

Refer to Article 7 of the General Conditions for a list of items that may be included in the mobilization bid item. TMWA reserves the right to perform extra work using time and expense or negotiated lump sum procedures.

The Contract Sum will be adjusted (increased or decreased) for actual quantities per unit price items. Lump sum items will not be adjusted.

Compliance with all permit and environmental requirements is incidental to the Work. No separate bid item, or additional payment provisions, shall be made for operational constraints or conditions placed on the Work by permitting agency requirements.

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(signature)

REVISED BID SCHEDULES DATED SEPTEMBER 6, 2018  
(Cont)

**SUMMARY**

Description	Scheduled Value	Unit	Unit Price	Total Price
<p><b>STMGID 11 Monitoring Well A</b>  <b>Zolezzi Lane</b>  <b>APN: 049-281-02</b>  <b>WASHOE COUNTY, NV 89510</b></p> <p>A nominal 4-inch in diameter, steel cased monitoring well will be drilled and installed near the existing STMGID 11 production well. The monitoring well will be drilled and cased to a total depth of 420 feet below ground surface with 20 feet of screen positioned at 400 feet to 420 feet below ground surface. The contractor will prepare the ground, install a conductor casing, drill a 10" borehole, install a 4" steel cased monitoring well, air develop each well, and construct a flush-mount well vault as specified below. All equipment and materials will be furnished by the contractor.</p> <p>This monitoring well will be drilled with Washoe County, Nevada but is not located on TMWA owned property. The ground includes many boulders and a site visit by the contractor is recommended; however, the monitoring well location is not located on TMWA property and therefore the contractor will need to be escorted onto the property by parcel owner or TMWA employee. A site map and well construction details are included in the bid package as attachments.</p>				
1. All necessary permitting	1	ea		
2. Mobilization of drill rig and crews	1	ea		
3. Site preparation: clear site for a suitable drill pad maintaining minimal disturbance to the existing area	1	ea		
4. Travel to and from water source within one mile of drill site: this water source will only be used to fill contractor's water storage device that will be used during the drilling/construction	1	ea		
5. Drill and install one 12" x 20' conductors (0'-20' each)	20	ft		
6. Drill one 10" borehole with method that complies with the Technical Specifications given specific site conditions (20'-430' each); includes 10' for sump	400	ft		
7. Furnish and install 400' of 4" x 0.237" mild steel blank casing (0'-400')	380	ft		
8. Furnish and install 20' of 4" x 0.237", 0.06" slot size, mild steel factory mill slot perforated casing (400'-420')	20	ft		
9. Furnish and install 30' of gravel pack (gravel size compatible with screen slot size) between the 4" screen and 10" borehole (390'-420'). Add 2'	1	cubic yards		

REVISED BID SCHEDULES DATED SEPTEMBER 6, 2018  
(Cont)

Description	Scheduled Value	Unit	Unit Price	Total Price
bentonite plug above the gravel pack.				
10. Furnish and install 388' cement surface seal between the 4" blank casing and 10" borehole (0'-388')	7	cubic yards		
11. Air develop each well (at least 8 hours): discharge into nearest storm drain (approximately 500' away)	8	hrs		
12. Furnish a locking well lid	1	ea		
13. Furnish and install a flush-mount well vault so that the well cover and associated concrete collar is capable of supporting vehicular travel, provide drainage away from well cover, and prevent water and debris from entry	1	ea		
14. Remove approximately 9.5 cubic yards of cuttings and waste from site and deliver to the TMWA Glendale Treatment Plant approximately 9 miles away from drill site	1	ea		
15. Geophysical logging: contractor is responsible for providing standard water well geophysical logs conducted by an Owner-approved, commercial logging services sub-contractor	1	ea		
16. Site clean up	1	ea		
<b>Total Cost Estimate for STMGID 11 Monitoring Well A</b>				

REVISED BID SCHEDULES DATED SEPTEMBER 6, 2018  
(Cont)

Description	Scheduled Value	Unit	Unit Price	Total Price
<p><b>Arrowcreek 2 Monitoring Well A</b>  <b>West Arrowcreek Parkway</b>  <b>APN: 152-021-03</b>  <b>WASHOE COUNTY, NV 89511</b></p> <p>A nominal 4-inch in diameter, steel cased monitoring well will be drilled and installed near the existing Arrowcreek Well 2 production well. The monitoring well will be drilled and cased to a total depth of 300 feet below ground surface with 40 feet of screen positioned at 260 feet to 300 feet below ground surface. The contractor will prepare the ground, install a conductor casing, drill a 10" borehole, install a 4" monitoring well, air develop each well, and construct a flush-mount well vault as specified below. All equipment and materials will be furnished by the contractor.</p> <p>This monitoring well will be drilled with Washoe County, Nevada but is not located on TMWA owned property. The ground includes many boulders and a site visit by the contractor is recommended; however, the monitoring well location is not located on TMWA property and therefore the contractor will need to be escorted onto the property by parcel owner or TMWA employee. A site map and well construction details are included in the bid package as attachments.</p>				
1. All necessary permitting	1	ea		
2. Mobilization of drill rig and crews	1	ea		
3. Site preparation: clear site for a suitable drill pad maintaining minimal disturbance to the existing area	1	ea		
4. Travel to and from water source within one mile of drill site: this water source will only be used to fill contractor's water storage device that will be used during the drilling/construction	1	ea		
5. Drill and install one 12" x 20' conductors (0'-20' each)	20	ft		
6. Drill one 10" boreholes with method that complies with the Technical Specifications given specific site conditions (20'-310' each); includes 10' sump	280	ft		
7. Furnish and install 260' of 4" x 0.237" mild steel blank casing in each monitoring well (0'-260')	240	ft		
8. Furnish and install 40' of 4" x 0.237", 0.06" slot size, mild steel factory mill slot perforated casing (260'-300')	40	ft		



REVISED BID SCHEDULES DATED SEPTEMBER 6, 2018  
(Cont)

Description	Scheduled Value	Unit	Unit Price	Total Price
9. Furnish and install 50' of gravel pack (gravel size compatible with screen slot size) between the 4" screen and 10" borehole in each monitoring well (250'-300'). Add 2' bentonite plug above the gravel pack.	1	cubic yards		
10. Furnish and install 248' cement surface seal between the 4" blank casing and 10" boreholes in each well (0'-248').	4.5	cubic yards		
11. Air develop each well (8 hours): discharge into nearest storm drain (approximately 70' away)	8	hrs		
12. Locking well lid	1	ea		
13. Furnish and install a flush-mount well vault so that the well cover and associated concrete collar is capable of supporting vehicular travel, provide drainage away from well cover, and prevent water and debris from entry	1	ea		
14. Remove approximately 7.0 cubic yards of cuttings and waste from site and deliver to TMWA Glendale Treatment Plant approximately 13.5 miles away from drill site	1	ea		
15. Geophysical logging: contractor is responsible for providing standard water well geophysical logs conducted by an Owner-approved, commercial logging services sub-contractor	1	ea		
16. Site clean up	1	ea		
<b>Total Cost Estimate for Arrowcreek 2 Monitoring Well A</b>				

REVISED BID SCHEDULES DATED SEPTEMBER 6, 2018  
(Cont)

Description	Scheduled Value	Unit	Unit Price	Total Price
<b>Tessa East 2 Monitoring Well A Napoleon Drive WASHOE COUNTY, NV 89511</b>				
<p>A nominal 4-inch in diameter, steel cased monitoring well will be drilled and installed near the existing Tessa East production well. The monitoring well will be drilled and cased to a total depth of 480 feet below ground surface with 40 feet of screen positioned at 440 feet to 480 feet below ground surface. The contractor will prepare the ground, install a conductor casing, drill a 10" borehole, install a 4" monitoring well, air develop each well, provide traffic support, and construct a flush-mount well vault as specified below. All equipment and materials will be furnished by the contractor.</p> <p>This monitoring well will be drilled with Washoe County, Nevada but is not located on TMWA owned property. This monitoring well will be drilled and installed in the street and the contractor will need to take whatever precautions necessary to control traffic and setup safety measures. The contractor will also need to obtain all necessary permitting through Washoe County in order to drill within a public right-of-way. The ground includes many boulders and a site visit by the contractor is recommended. A site map and well construction details are included in the bid package as attachments.</p>				
1. All necessary permitting	1	ea		
2. Mobilization of drill rig and crews	1	ea		
3. Site preparation: any necessary preparation required to drill in the street	1	ea		
4. Travel to and from water source within one mile of drill site: this water source will only be used to fill contractor's water storage device that will be used during the drilling/constriction	1	ea		
5. Drill and install one 12" x 20' conductors (0'-20' each)	20	ft		
6. Drill one 10" borehole with method that complies with the Technical Specifications given specific site conditions (20'-490' each); includes 10' for sump	460	ft		
7. Furnish and install 440' of 4" x 0.237" mild steel blank casing (0'-440')	420	ft		
8. Furnish and install 40' of 4" x 0.237", 0.06" slot size, mild steel factory mill slot perforated casing (440'-480')	40	ft		
9. Furnish and install 50' of gravel pack (gravel size compatible with screen slot size) between the 4" screen and 10" borehole in each monitoring well (430-480'). Add 2' bentonite plug above the gravel pack.	1	yds3		

REVISED BID SCHEDULES DATED SEPTEMBER 6, 2018  
(Cont)

Description	Scheduled Value	Unit	Unit Price	Total Price
10. Furnish and install 428' cement surface seal between the 4" blank casing and 10" (0'-428').	8	yds3		
11. Air develop each well (8 hrs per monitoring well): discharge into nearest storm drain approximately 200' away.	8	hrs		
12. Locking well lid	1	ea		
13. Furnish and install a flush-mount well vault so that the well cover and associated concrete collar is capable of supporting vehicular travel, flush with roadway, and prevent water and debris from entry	1	ea		
14. Furnish traffic support	1	ea		
15. Remove approximately 10 cubic yards of cuttings and waste from site and deliver to TMWA Glendale Treatment Plant approximately 14.5 miles away from drill site	1	ea		
16. Geophysical logging: contractor is responsible for providing standard water well geophysical logs conducted by an Owner-approved, commercial logging services sub-contractor	1	ea		
17. Site clean up	1	ea		
<b>Total Cost Estimate for Tessa East Monitoring Well A</b>				
<b>TOTAL COST FOR 3 WELLS: STMGID 11 Monitoring Well A, Arrowcreek 2 Monitoring Well A and Tessa East 2 Monitoring Well A</b>				

Total Bid Price Written in Words: \_\_\_\_\_

Notes to Bid Schedule:

1. Item pricing on this schedule is for use in preparing the schedule of values that will be used as a basis for partial payment during construction and for internal TMWA use. Item descriptions are not all inclusive. Bidders shall include costs for work not specifically mentioned in the most appropriate item.
2. Refer to Article 7 of the General Conditions for a list of items that may be included in the mobilization bid item.
3. TMWA reserves the right to perform extra work using time and expense or negotiated lump sum procedures.