

Form No. 600-TAA Additional Sheet

(Revised 02/2024)

Applicant Name

APPLICATION FOR BENEFICIAL WATER USE PERMIT TECHNICAL ANALYSIS ADDENDUM ADDITIONAL HYDRAULICALLY CONNECTED SOURCE SHEET (600-TAA)

ARM 36.12.1303

Answer every question and applicable follow-up questions. Use the checkboxes to denote yes ("Y") or no ("N"). Questions that require items to be submitted to the Department have a submitted ("S") checkbox, which is checked when the required item is attached to the Technical Analysis Addendum Additional Sheet. Label all submitted items with the question number for which they were submitted. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, mark the see attachment ("A") checkbox on this form and label the attachment with the question number. If no attachment is needed, leave the see attachment ("A) checkbox blank. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses.

30. Name the hydraulically connected surface water source for which you are answering questions 31 and 32.	
31. Is stream gage data available?	□Y□N
a. If yes, answer the following questions for the number of stream gages that are available.	
i. One stream gage is available	
1. What is the gage name?	
2. Who operates and maintains the gage?	
3. Is the gage upstream or downstream of the start of the depletion?	
4. Is there a limiting or controlling factor that would make the Drainage Area Method not practical? This includes dams that control the flow and streams with large gaining and/or losing reaches.	□Y□N
5. Is the period of record greater than or equal to 10 years?	\square Y \square N
6. How frequently is stage data recorded?	
7. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	□Y□N
8. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	□Y□N



9. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?		
10. Does the gage data meet the Department's standard to be sufficient to		
calculate the median of the mean monthly flow rate and volume during the		
proposed months of depletion? See the "Department Standard Practice for		
Determining Physical Surface Water Availability" in the Permit Manual.		
a. If yes, this section is complete. Skip to question 33.		
b. If no, answer question 31.b.		
ii. More than one stream gage is available		
1. List the gage names.		
1. List the gage hames.	□A	
2. Who operates and maintains the gages?		
3. Is one stream gage upstream and one downstream of the start of the depletion?		
4. Do the stream gages have similar periods of record?	$\square Y \square N$	
5. Are the periods of record greater than or equal to 10 years?	$\square Y \square N$	
6. How frequently is stage date recorded at each gage?		
7. For each gage, if data gaps were to occur, are they identified and left unfilled or	$\square Y \square N$	
estimated using interpolation, ice correction, or indirect discharge measurements		
methods?		
8. Were the rating curves established and maintained throughout the duration of	$\square Y \square N$	
the period of record using measurements taken near the reference gages and		
stage recorders according to USGS protocols?		
9. For each gage, were there requirements for maintaining a permanent gage	\square Y \square N	
datum and meeting specified accuracy limits?		
10. Does the gage data meet the Department's standard to be sufficient to	\square Y \square N	
calculate the median of the mean monthly flow rate and volume during the		
proposed months of depletion? If you have questions about this, consult the		
"Department Standard Practice for Determining Physical Surface Water		
Availability" found in the Permit Manual.		
a. If yes, this section is complete. Skip to question 33.		
b. If no, answer question 31.b.		
b. If no gage data is available or if available gage data does not meet the Department's	\square Y \square N	
standard to be sufficient to calculate the median of the mean monthly flow rate and		
volume during the months of depletion, is the source otherwise measured?		
i. If yes,		
Submit available measurements to the Department.	□S	
2. Who collected the measurements?		

3. With what method was the data collected?	
4 Mhat is the period of record?	
4. What is the period of record?	
5. What is the frequency of measurement?	
6. Are there gaps in the data?	□Y□N
 a. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? 	□A
	
7. Is there a process for maintaining the data and meeting specified accuracy limits?	□Y□N
a. If yes, explain.	□А
	
Does available measurement data meet the Department's standard to be	ПУПИ
sufficient to calculate the median of the mean monthly flow rate and volume	
during the months of depletion? See the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual.	
a. If yes, this section is complete. Skip to question 33.	
b. If no, answer question 32.	
32. Does the available measurement data, gage and/or otherwise measured, include a minimum of high, moderate, and low flows to be used for a Department-accepted estimation technique?	\Box Y \Box N
If the Department finds that your measurements are not sufficient to validate an estimation	
technique or that no estimation technique is appropriate for the source characteristics, further	
measurements may be required. Refer to the "Department Standard Practice for Determining	
Physical Surface Water Availability" in the Permit Manual for more information.	

a. If yes,	
i. Describe how your measurements are representative of high, moderate, and low flows. ———————————————————————————————————	□A
ii. If you conducted the Technical Analyses, summarize the estimation technique. If the Department will conduct the Technical Analyses, write N/A.	□A
 b. If no, and one or more Department-accepted estimation techniques are appropriate for the source characteristics. 	
i. Did you request to depart from the requirements of "Department Standard Practice for Determining Physical Surface Water Availability" found in the Permit Manual? Please note that the Department's Technical Analyses or Scientific Credibility Review of your Technical Analyses cannot commence until the Department receives measurements that meet these requirements or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	□ Y □ N
 If yes, submit a copy of the request to depart and, if available, the Department's decision. 	□S
 c. If no, and you have evidence that no Department-accepted estimation technique is appropriate for the source characteristics. 	
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics.	□A
ii. Does available measurement data meet the Department's standard of monthly measurements throughout the period of net depletion for groundwater permits?	□Y□N

1. If no, did you	submit Form No. 653 to request a variance from the requirements	\Box Y \Box N
of ARM 36.12	2.1702(4)? Please note that the Department's Technical Analyses or	
Scientific Cre	edibility Review of your Technical Analyses cannot commence until	
the Departme	ent receives measurements that meet the requirements of ARM	
36.12.1702(4) or, in combination with an approved variance request, are	
sufficient to c	complete any necessary technical analyses or scientific credibility	
reviews and	to evaluate the applicable criteria.	
a. If yes, s	ubmit a copy of the variance request form and, if available, the	□S
Departm	ent's decision.	