



APPLICATION TO CHANGE A WATER RIGHT
ADDITIONAL RETURN FLOW SOURCE SHEET (606-TAA)
§ 85-2-402, MCA

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 marked when the required item is attached to the Technical Analyses Addendum. Label all submitted items with the question number for which they were submitted. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. Attachments are not required, but, if an attachment is used, the table must have the exact headings found on this form, and the see attachment ("A") checkbox on this form must be marked. Label units in narrative responses and tables.

Use one sheet per return flow source.

What additional return flow source is the sheet for? \_\_\_\_\_

Assign a three-character identifier for the return flow source (for example, "YEL" or "TMC"): \_\_\_\_\_

When referencing question numbers in attachments and submittals, use the following format:

Question Number-three-character identifier. For example, "74.d.i.YEL" or "74.d.i.TMC".

Table with 2 columns: Question text and response options (checkboxes for Y, N, A). Rows include questions 72-76 regarding stream gage data availability and location.



<p>c. What is the distance between the gage(s) and the location where return flows accrue? Write "N/A" for Gage 2 if one gage available.  Gage 1: _____  Gage 2: _____</p>	<input type="checkbox"/> A
<p>d. Is there a limiting or controlling factor on the source between the stream gage(s) and the location where return flows accrue? This includes dams that control the flow and streams with large gaining and/or losing reaches.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>i. If yes, explain.  _____  _____</p>	<input type="checkbox"/> A
<p>e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available.  Gage 1: _____  Gage 2: _____</p>	<input type="checkbox"/> A
<p>f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available.  Gage 1: _____  Gage 2: _____</p>	<input type="checkbox"/> A
<p>g. Is each available stream gage operated and maintained by USGS or DNRC?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>i. If yes, skip to question 74.h.</p>	
<p>ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.</p>	
<p>1. How frequently are stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS.  Gage 1: _____  Gage 2: _____</p>	
<p>2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?  Answer below.</p>	
<p>a. Gage 1.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>3. 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? Answer below.</p>	
<p>a. Gage 1.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits? Answer below.</p>	
<p>a. Gage 1.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____</p>	<input type="checkbox"/> Y <input type="checkbox"/> N



h. Do the data for one or more available stream gages meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months when return flows accrue? See the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual for more information.	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, record how many meet the standard, then this section is complete. Skip to question 77 of the Technical Analyses Addendum Form. _____	<input type="checkbox"/> A
ii. If no, answer question 75.	
75. If no gage data are available or if available gage data do not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months when return flows accrue, is the source otherwise measured?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, measurements may be necessary. The Department cannot deem the application correct and complete until the Department receives gage data and/or measurements that meet the Department's measurement standards or, in combination with an approved request to deviate from the Department's standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 76.	
b. If yes,	
i. Submit measurements to the Department.	<input type="checkbox"/> S
ii. Who collected the measurements? _____	<input type="checkbox"/> A
iii. With what method were the data collected? _____ _____	<input type="checkbox"/> A
iv. What is the period of record? _____	<input type="checkbox"/> A
v. What is the frequency of measurement? _____	<input type="checkbox"/> A
vi. Are there gaps in the data?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	<input type="checkbox"/> A
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, explain. _____ _____	<input type="checkbox"/> A



<p>viii. Do available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months when return flows accrue? Refer to the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual for more information.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If yes, this section is complete. Skip to question 77 of the Technical Analyses Addendum Form.</p>	
<p>2. If no, answer question 76.</p>	
<p>76. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique? 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.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes,</p>	
<p>i. Describe how the measurements are representative of high, moderate, and low flows.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>ii. If you conducted the technical analyses, summarize the estimation technique. If the Department will conduct the technical analyses, write "N/A" instead.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>b. If no, but a Department-accepted estimation technique will be appropriate for the source receiving return flows:</p>	
<p>i. Did you request to deviate from the requirements of "Department Standard Practice for Determining Physical Surface Water Availability" found in the Permit Manual? Please note that the application cannot be deemed correct and complete until the Department receives measurements that meet these requirements or, in combination with an approved request to depart, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If yes, submit a copy of the request to deviate and, if available, the Department's decision.</p>	<input type="checkbox"/> S
<p>c. If no, because no Department-accepted estimation technique will be appropriate for the source receiving return flows:</p>	
<p>i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A



ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months when return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If no, did you request to deviate from the requirements of "Department Standard Practice for Determining Physical Surface Water Availability" found in the Permit Manual? Please note that the application cannot be deemed correct and complete until the Department receives measurements that meet these requirements or, in combination with an approved request to depart, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, submit a copy of the request to depart, and if available, the Department's decision.	<input type="checkbox"/> S

