



Texas Commission on Environmental Quality

Water Availability Division

MC-160, P.O. Box 13087 Austin, Texas 78711-3087

Telephone (512) 239-4600, FAX (512) 239-2214

Mining Water Conservation Plan

This form is provided to assist entities in developing a water conservation plan for mining water use. If you need assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4600.

Additional resources such as best management practices (BMPs) are available on the Texas Water Development Board's website <http://www.twdb.texas.gov/conservation/BMPs/index.asp>. The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.

Contact Information

Name: _____
Address: _____
Telephone Number: _____ Fax: _____
Form Completed By: _____
Title: _____
Signature: _____ Date: _____

A water conservation plan for mining use must include the following requirements (as detailed in 30 TAC Section 288.3). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.

I. BACKGROUND DATA

A. Water Use

1. Annual diversion appropriated or requested (in acre-feet):
2. Maximum diversion rate (cfs):

B. Water Sources

1. Please indicate the maximum or average annual amounts of water currently used and anticipated to be used (in acre-feet) for mining purposes:

<i>Source</i>	<i>Water Right No.(s)</i>	<i>Current Use</i>	<i>Anticipated Use</i>
Surface Water	_____	_____	_____
Groundwater	_____	_____	_____
Purchased	_____	_____	_____
Total	_____	_____	_____

2. How was the surface water data and/or groundwater data provided in B(1) obtained?

Master meter ; Customer meter ; Estimated ; Other

3. Was purchased water raw or treated?

If both, % raw ; % treated ; and Supplier(s)

C. Mining Information

1. Major product(s) or service(s) produced by applicant:

2. North American Industry Classification System (NAICS):

II. WATER USE AND CONSERVATION PRACTICES

A. Water Use in Mining Processes

<i>Mining Use</i>	<i>% Groundwater</i>	<i>% Surface Water</i>	<i>% Saline Water</i>	<i>% Treated Water</i>	<i>Water Use (in acre-ft)</i>
Hydraulic Fracturing	_____	_____	_____	_____	_____
Drilling	_____	_____	_____	_____	_____
Washing Sand/gravel	_____	_____	_____	_____	_____
Dust Control	_____	_____	_____	_____	_____
Oil Field Repressuring	_____	_____	_____	_____	_____

Other _____

<i>Facility Use</i>	<i>% Groundwater</i>	<i>% Surface Water</i>	<i>% Saline Water</i>	<i>% Treated Water</i>	<i>Water Use (in acre-ft)</i>
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Pond(s) _____

Sanitary & drinking water _____

Irrigation & dust control _____

Other _____

1. Was fresh water recirculated at this facility? Yes No
2. Provide a detailed description of how the water will be utilized in the mining process.
3. Estimate the quantity of water consumed in production and mining processes and is therefore unavailable for reuse, discharge, or other means of disposal.
4. Monthly water consumption for previous year (in acre-feet).

<i>Month</i>	<i>Diversion Amount</i>	<i>% of Water Returned (If Any)</i>	<i>Monthly Consumption</i>
January	_____	_____	_____
February	_____	_____	_____
March	_____	_____	_____
April	_____	_____	_____
May	_____	_____	_____
June	_____	_____	_____
July	_____	_____	_____
August	_____	_____	_____

September	_____	_____	_____
October	_____	_____	_____
November	_____	_____	_____
December	_____	_____	_____
Totals	_____	_____	_____

5. Projected monthly water consumption for next year (in acre-feet).

<i>Month</i>	<i>Diversion Amount</i>	<i>% of Water Returned (If Any)</i>	<i>Monthly Consumption</i>
January	_____	_____	_____
February	_____	_____	_____
March	_____	_____	_____
April	_____	_____	_____
May	_____	_____	_____
June	_____	_____	_____
July	_____	_____	_____
August	_____	_____	_____
September	_____	_____	_____
October	_____	_____	_____
November	_____	_____	_____
December	_____	_____	_____
Totals	_____	_____	_____

B. Specific and Quantified Conservation Goal

Water conservation goals for the mining sector are generally established either for (1) the amount of water recycled, (2) the amount of water reused, or (3) the amount of water not lost or consumed, and therefore is available for return flow.

1. Water conservation goal (water use efficiency measure)

Type of goal(s):

% reused water

% of water not consumed and therefore returned

Other (specify)

2. Provide specific, quantified 5-year and 10-year targets for water savings and the basis for development of such goals for this water use/facility.

Quantified 5-year and 10-year targets for water savings:

- a. 5-year goal:
- b. 10-year goal:
3. Describe the device(s) and/or method(s) used to measure and account for the amount of water diverted from the supply source, and verify the accuracy is within plus or minus 5%.
4. Provide a description of the leak-detection and repair, and water-loss accounting measures used.
5. Describe the application of state-of-the-art equipment and/or process modifications used to improve water use efficiency.
6. Describe any other water conservation practice, method, or technique which the user shows to be appropriate for achieving the stated goal or goals of the water conservation plan:

III. Water Conservation Plans submitted with a Water Right Application for New or Additional State Water

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:

1. support the applicant's proposed use of water with consideration of the water conservation goals of the water conservation plan;
2. evaluates conservation as an alternative to the proposed appropriation; and
3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.