

Conventional Surface Water Plant (SWTP) Use Checklist (Step 2)

Texas Commission on Environmental Quality
Water Supply Division
Plan Review Team MC-159
P.O. Box 13 087, Austin, Texas 78711-3087

Public Water System I.D. No. _____
TCEQ Log No. P- _____

The following list is required for approval of use regarding a newly constructed conventional surface water plant that has just finished construction and is ready to be put online and send water to distribution. The SWTP may not go online until final approval is given. Failure to submit the following items may delay project approval. Copies of the rules may be obtained from Texas Register, 1019 Brazos St, Austin, TX, 78701-2413, Phone: (512) 463-5561 or downloaded from the website: <http://www.tceq.texas.gov/rules/indxpdf.html>

Please note that after construction, the SWTP must be started and ran to determine the finished water quality. During this time, no water from the plant is allowed to go to distribution. Samples must be taken to satisfy Item No. 1. After samples are taken, the plant must remain off-line until final approval by TCEQ.

1. Provide a physical and chemical analysis of the finished water. The analyses for the water after any post-treatment (including blending) must be submitted to an accredited laboratory for chemical analyses. (See below)
2. If blending is used, please submit final blending report showing compliance to all maximum contaminant levels (MCL) and secondary contaminant levels (SCL);
3. Submit an engineering report on the final corrosion control treatment to be used and under what conditions. Include any chemical dosage used at the time the finished water quality parameters for item No. 1 were taken. Include the specific chemical(s) used, its SDS Sheet and NSF 60 certification.
4. Systems that treat surface water must meet the requirements of §290.46(e)(6) in regard to licensed operators. Please provide listing of operators and copies of the current licenses for the operators that will operate the plant. [§290.46(e)(6)]
5. Public water systems shall ensure that their operators are trained regarding the use of all chemicals used in the water treatment plant. Submit the applicable training records of operators pertinent to this requirement. Please include copies of training materials. [§290.46(e)(2)(B)]
6. Public water systems shall not allow new or repaired production, treatment, storage, pressure maintenance, or distribution facilities to be placed into service without the prior guidance and approval of a licensed water works operator. Please submit a certification by a licensed operator that the plant is ready to be placed into service. [§290.46(e)(2)(A)]
7. Upon completion of the water works project, the engineer or owner shall notify the executive director in writing as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission. Provide a certificate of completion certifying that all facilities were constructed according to approved plans and specifications; [§290.39(h)(3)]
8. Provide verification that a concentration-time (CT) study was conducted and approved by the TCEQ for the final configuration of the plant;

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For Item #1- All systems shall submit a physical and chemical analysis of the finished water after any post-treatment (including blending) for the contaminants listed below. Reports must come from a TCEQ accredited laboratory and include all QA/QC data. MCL and SCL units are in milligrams per liter (mg/l) (except arsenic which is in micrograms per liter).

Table 1: Primary Constituents with Maximum Contaminant Level (MCL)

PRIMARY	MCL
Nitrate	10 (as N)
Nitrite	1 (as N)
Arsenic	10
Fluoride	4.0

Table 2: Secondary Constituents with Secondary Contaminant Level (SCL)

SECONDARY	SCL
Aluminum	0.2
Copper	1.0
Iron	0.3
Manganese	0.05
Zinc	5.0
Total Dissolved Solids	1,000
Fluoride	2.0
Lead	N/A
Sulfate	300
Chloride	300
pH	> 7.0

Table 3: Water Quality Parameters

Water Quality Parameters	
Parameter	Units
Alkalinity as CaCO ₃	mg/l
Calcium as CaCO ₃	mg/l
Sodium	mg/l