



**INSTRUCTIONS FOR COMPLETING  
THE MARINE SEAWATER DESALINATION  
PERMIT APPLICATION**

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**Texas Commission on Environmental Quality**

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# INTRODUCTION

## PURPOSE

The marine seawater desalination permit application is used to apply for a permit for discharges from a marine seawater desalination facility.

This application form is for an authorization to discharge from a Marine Seawater Desalination facility only. Your facility may need additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division.

## OBJECTIVES

These instructions will answer the following questions.

- Who must apply for an industrial wastewater permit??
- When must the application be submitted?
- What permit application forms are required?
- How do I complete the application?
- How is the application submitted?
- What fees do I have to pay?
- How do I obtain more information?

## STATUTORY CITATIONS

*Texas Water Code (TWC) Chapters 5 and 26*

*Title 40 of the Code of Federal Regulations (CFR)*

## PRIMARY REGULATORY CITATIONS

Rules of the Texas Commission on Environmental Quality (TCEQ) are found in Title 30 of the Texas Administrative Code (TAC). The TAC can be viewed through the Texas Secretary of State at <http://www.sos.state.tx.us/tac/> and the TCEQ website at <https://www.tceq.texas.gov/rules/current.html>

In addition, printed copies of TCEQ rules are available through TCEQ Publications. The mailing address is TCEQ Publications, MC-118, P.O. Box 13087, Austin, Texas 78711-3087. The telephone number is (512) 239-0028. The fax number is (512) 239-4488. The initial copy is free.

*Chapter 21 - Water Quality Fees*

*Chapter 25 - Lab Accreditation*

*Chapter 30 - Occupational Licenses and Registrations*

*Chapter 39 - Public Notice*

*Chapter 40 - Alternative Dispute Resolution Procedure*

*Chapter 50 - Action on Applications and Other Resolutions*

*Chapter 55 - Requests for Reconsideration and Contested Hearings; Public Comment*

*Chapter 60 - Compliance History*

*Chapter 80 - Contested Case Hearings*

*Chapter 281 - Applications Processing*

*Chapter 307 - Texas Surface Water Quality Standards*

*Chapter 308 - Criteria and Standards for the National Pollutant Discharge Elimination System*

*Chapter 309 - Domestic Wastewater Effluent Limitation and Plant Siting*

*Chapter 311 - Watershed Protection*

*Chapter 314 - Toxic Pollutant Effluent Standards*

*Chapter 319 - General Regulations Incorporated into Permits*

## **ABBREVIATIONS AND ACRONYMS**

BOD<sub>5</sub> - biochemical oxygen demand, 5-day

CASRN - Chemical Abstract Service Registration Number

CFR - Code of Federal Regulations

cfu - colony forming units

CN – Customer Reference Number

CWA - Clean Water Act

d.b.a. - doing business as

DMR - discharge monitoring report

DO - dissolved oxygen

ED - Executive Director

EPA - Environmental Protection Agency

MAL - minimum analytical level

mg/L - milligrams per liter

MGD - million gallons per day

MPN - most probable number

MSGP - Multi-Sector General Permit

NAPD - Notice of Application and Preliminary Decision

NORI - Notice of Receipt and Intent to Obtain a Water Quality Permit

NORM - naturally occurring radioactive material

NPDES - National Pollutant Discharge Elimination System

OCC - Office of the Chief Clerk

POTW - publicly owned treatment works

RN - Regulated Entity Reference Number

QA/QC - quality assurance/quality control

SIC - Standard Industrial Classification

SPIF - Supplemental Permit Information Form

TAC - Texas Administrative Code

TCEQ - Texas Commission on Environmental Quality

TMDL - total maximum daily load

TPDES - Texas Pollutant Discharge Elimination System

TPWD - Texas Parks and Wildlife Department

TX SOS - Texas Secretary of State

TWC - Texas Water Code

TWDB - Texas Water Development Board

µg/L - micrograms per liter

USACE - United States Army Corps of Engineers

USGS - United States Geological Survey

USPS - United States Postal Service

WWTP - wastewater treatment plant

## GENERAL DEFINITIONS

### A-B

**Application** - A formal written request for commission action relative to a permit, together with all materials and documents submitted to complete the application.

**Biochemical Oxygen Demand, 5-day (BOD5)** - The amount of **dissolved oxygen** consumed in five days by biological and chemical processes breaking down organic matter.

### C

**Classified Waters** - Water bodies classified as segments with specific uses and criteria in Appendix A of *30 TAC § 307.10* of the *Texas Surface Water Quality Standards*.

**Commission** - The Texas Commission on Environmental Quality.

**Composite Sample** - A sample made up of a minimum of three effluent portions or, as specified in *30 TAC § 319.9*, collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, combined in volumes proportional to flow, and collected no closer than two hours apart.

**Continuous Discharge** - A discharge which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

### D

**Design Flow** - The wet-weather maximum 30-day average flow of wastewater.

**Discharge Monitoring Report (DMR)** - The EPA uniform national form, including any subsequent additions, revisions, or modifications for the reporting of self-monitoring results by permittees. Permittees are required to submit this form. Monitoring results must be reported on an approved self-report form, DMR Form EPA No. 3320-1, signed, and certified.

**Disposal** - The disposal, deposit, injection, dumping, spilling, leaking, or placing of any solid, liquid, or hazardous waste into or on any land or water so that such waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including groundwater.

**Dissolved Oxygen (DO)** - the concentration of oxygen dissolved in wastewater or surface water.

**Domestic Sewage** - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

**Domestic Septage** - Either liquid or solid material removed from a septic tank, cesspool, portable toilet, Type III marine sanitation device, or similar treatment works that receives only domestic sewage. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar treatment works that receives either commercial wastewater or industrial wastewater and does not include grease removed from a grease trap.

## **E**

**Effluent** - Wastewater, treated or untreated, that flows out of a treatment plant.

**Effluent Limitations** - Restrictions established by the TCEQ or the EPA on quantities, rates, and concentrations in wastewater discharges.

**Executive Director (ED)** - The Executive Director of the Texas Commission on Environmental Quality or his/her designee.

**Existing Facility** - Any facility used for the storage, processing, or disposal of domestic wastewater and which has obtained approval of construction plans and specifications as of March 1, 1990.

## **F-G**

**Facility** - Includes all contiguous land and fixtures, structures, or appurtenances used for the collection, transportation, and treatment of marine seawater and the storage, transportation, and discharge of treated marine seawater and wastewater from a marine seawater desalination project. A facility may consist of several storage, processing, treatment, or disposal units.

**Fixture of the Land** - An item that has become so annexed to the realty that it is regarded as part of the land (i.e., ponds, lagoons).

**Glide** - Portion of the water column that resembles flow that would be found in a shallow canal. Water surface gradient over a glide is nearly zero, so velocity is slow, but flow is shore to shore without eddy development.

**Grab Sample** - An individual sample collected in less than 15 minutes.

**Groundwater** - Water below the land surface in the saturated zone.

## **I-L**

**Intermittent Stream** - A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a seven-day, two-year low-flow of less than 0.1 cubic feet per second is considered intermittent.

## **M**

**Major Amendment of Permit** - Any change that is not listed in *40 CFR § 122.63* is considered a major amendment. A major amendment changes a substantive term, provision, requirement, or limiting parameter of a permit.

**Marine Seawater** - Water that is derived from the Gulf of Mexico.

**Marine Seawater Desalination Project** - An operation that desalinates marine seawater. Marine seawater desalination project does not include other businesses, entities, or operations that do not

desalinate marine seawater regardless of whether or not they are associated with the desalination operation by ownership, location, business structure, or business dependencies.

**Minimum Analytical Level (MAL)** - The lowest concentration at which a particular substance can be quantitatively measured with a defined precision level, using approved analytical methods. The minimum analytical level is not the published method detection limit for an EPA-approved analytical method, which is based on laboratory analysis of the substance in reagent (distilled) water. The minimum analytical level is based on analyses of the analyte in the matrix of concern (i.e., wastewater effluents). The commission will establish general minimum analytical levels that will be applicable when information on matrix-specific minimum analytical levels is unavailable.

**Minor Amendment of Permit** - An amendment to improve or maintain the permitted quality or method of disposal of waste or injection of fluid if there is neither a significant increase of the quantity of waste or fluid to be discharged or injected nor a material change in the pattern or place of discharge or injection. A minor amendment includes any other change to a permit issued under *30 TAC Chapter 305, Subchapter D*, that will not cause or relax a standard or criterion which may result in a potential deterioration of quality of water in the state. A minor amendment may also include, but is not limited to: except for TPDES permits, changing an interim compliance date in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the existing permit and does not interfere with attainment of the final compliance date; and except for TPDES permits, requiring more frequent monitoring or reporting by the permittee.

**Minor Modification of Permit** - Under *40 CFR § 122.63* and *30 TAC § 305.62(c)(3)*, a minor modification may only:

- correct typographical errors;
- require more frequent monitoring or reporting by the permittee;
- change an interim compliance date in a schedule of compliance (not to exceed 120 days of date specified in existing permit and not to interfere with final compliance date);
- allow for a change in ownership or operational control of a facility where the Director determines that no other change in the permit is necessary;
- change the construction schedule for a discharger which is a new source;
- delete a point source outfall when the discharge from that outfall is terminated; or
- incorporate conditions of a POTW pretreatment program as enforceable conditions of the POTW's permits.

## N

**National Pollutant Discharge Elimination System (NPDES)** - The national program for issuing, amending, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under *CWA Sections 307, 402, 318, and 405*. The term includes an approved program.

**Naturally Occurring Radioactive Material (NORM)** - Solid, liquid, or gaseous material or combination of materials, excluding source material, special nuclear material, and byproduct material, that in its natural physical state spontaneously emits radiation and that is not exempt under *Texas Health and Safety Code § 401.106*.

**Near-shore Discharges** - The discharge of wastewater from a marine seawater desalination project into the Gulf of Mexico where the point of discharge is located less than three miles seaward from any point located on the coast of Texas. The three mile boundary shall be determined based on the Texas General Land Office map for the Dispersant Use Pre-Approval Zone or based on a site specific determination made by the executive director.



**New Discharger** - Any building, structure, facility or installation from which there is or may be a discharge of pollutants that did not commence the discharge of pollutants at a particular site prior to August 13, 1979, which is not a new source, and which has never received a finally effective NPDES permit for discharges at that site.

**New Facility** - Any domestic or industrial wastewater treatment facility which is not an existing facility.

**Non-Stormwater Wastestreams** - Wastewater that is listed in TXR050000, the TPDES Industrial Storm Water Multi-Sector General Permit, Part II, Section A, Item 6, as follows:

- discharges from emergency firefighting activities and uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- potable water sources (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- lawn watering and similar irrigation drainage, provided that all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- water from the routine external washing of buildings, conducted without the use of detergents or other chemicals;
- water from the routine washing of pavement conducted without the use of detergents or other chemicals and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed);
- uncontaminated air conditioner condensate, compressor condensate, and steam condensate, and condensate from the outside storage of refrigerated gases or liquids;
- water from foundation or footing drains where flows are not contaminated with pollutants (e.g., process materials, solvents, and other pollutants);
- uncontaminated water used for dust suppression;
- springs and other uncontaminated groundwater;
- incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but excluding intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains); and
- other discharges described in Part V of TXR050000 that are subject to effluent guidelines and effluent limitations.

## O

**Off-shore Discharges** - The discharge of wastewater from a marine seawater desalination project into the Gulf of Mexico where the point of discharge is located three or more miles seaward from any point located on the coast of Texas. The three mile boundary shall be determined based on the Texas General Land Office map for the Dispersant Use Pre-Approval Zone or based on a site specific determination made by the executive director.

**Off-site** - Property which cannot be characterized as **on-site**.

**On-site** - The same or contiguous property owned, controlled, or supervised by the same person. If the property is divided by public or private right-of-way, the access shall be by crossing the right-of-way or the right-of-way shall be under the control of the person.

**Operator** - The person responsible for the overall operation of a facility.

**Outfall** - The point or location where waterborne waste discharges from a sewer system, treatment facility, or disposal system into or adjacent to water in the state.

**Owner** - The person who owns a facility or part of a facility.

## **P**

**Permit** - A written document issued by the **Commission** which, by its conditions, may authorize the permittee to construct, install, modify, or operate, in accordance with stated limitations, a specified facility for waste discharge, for solid waste storage, processing or disposal, or for underground injection.

**Perennial Stream** – A normally flowing stream.

**Persistent Pools** - Enduring pools containing sufficient habitat to maintain significant aquatic life uses.

**Person** - An individual, corporation, organization, government, governmental subdivision or agency, business trust, estate, partnership, or any other legal entity or association.

**Pool** - An area of the water column that has slow velocity and is deeper than a **riffle**, **run**, or **glide**. The water surface gradient of pools is very close to zero and their channel profile is usually concave. Pools often have eddies with varying directions of flow.

**Publicly Owned Treatment Works (POTW)** - Any devices and systems used in the storage, treatment, recycling, and reclamation of municipal sewage or industrial wastes of a liquid nature which is owned by the State or a municipality (and including certain political subdivisions created by the State of Texas that provide regional municipal and industrial wastewater treatment). This definition includes sewers, pipes, and other conveyances only if they convey wastewater to a POTW treatment plant. For a complete legal definition of POTW, see *40 CFR § 403.3(q)*.

## **R**

**Radioactive Material** - A naturally occurring or artificially produced solid, liquid, or gas that emits radiation spontaneously.

**Renewal of Permit** - An extension of the effective date of a permit that authorizes the continued discharge or disposal of wastewater without substantive changes in term, provision, requirement, or limiting parameters of a permit.

**Renewal of Permit With Changes (or Minor Amendment with Renewal)** - An extension of the effective date of a permit that authorizes the continued discharge or disposal of wastewater without substantive changes in term, provision, requirement, or limiting parameters of a permit but with a change that would be considered a minor amendment if the applicant was not seeking to extend the expiration date of the permit.

**Riffle** – A portion of the water column that is usually constricted where water velocity is fast due to a change in surface gradient. Stream depth is generally shallow, and the channel profile is usually straight to convex. Surface flow through riffles usually ripples due to constriction, shallowness, and presence of irregular bottom substrates.

**Run** – A portion of the water column that has rapid, non-turbulent, shore-to-shore flow. A run is too deep to be a **riffle** and its flow is too fast to be a **pool**. The channel profile under a run is usually a uniform flat plane.

## S

**Saltwater** - A coastal water which has a measurable elevation change due to normal tides. In the absence of tidal information, saltwater is generally considered to be a coastal water which typically has a salinity of two parts per thousand or greater in a significant portion of the water column.

**Site** - The land or water area where any facility or activity is physically located or conducted, including adjacent land used in connection with the facility or activity.

**Stream Bend** – A curved part of a stream. A well-defined bend has a deep outside area and shallow inside area accentuated by point bar development. Due to sharp bending, stream flow is forced to the outside and eddies develop on the inside of the bend. A moderately developed bend forces some flow to the outside and has only a slight change in depth across the channel. A poorly defined bend has no noticeable change in water depth across the channel, and stream flow is generally not forced to one side.

**Stream Depth** - The vertical height of the water column from the existing water surface level to the channel bottom.

**Stream Width** - The horizontal distance along the transect line from shore to shore along the existing water surface.

**Substrate** - The mineral or organic material that forms the bottom of the stream.

**Table 1: Classification of substrate materials by particle size**

Type of Substrate	Size (inches)	Size (metric)
<b>Bedrock</b>	Solid	Solid
<b>Large Boulders</b>	>17.7	>45 cm
<b>Boulders</b>	9.8 – 17.1	25 – 45 cm
<b>Rubble</b>	2.4 – 9.8	6 – 25 cm
<b>Gravel</b>	0.2 – 2.4	6 – 60 mm
<b>Sand</b>	0.002 – 0.2	0.06 – 6 mm
<b>Mud/Silt</b>	<0.002	<0.06 mm

## T

**Texas Pollutant Discharge Elimination System (TPDES)** - The state program for issuing, amending, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements under *CWA Sections 307, 402, 318, and 405*, the *Texas Water Code*, and the *Texas Administrative Code*.

**Total Dissolved Solids (TDS)** – A measure of the dissolved solids in wastewater or effluent.

**Total Maximum Daily Load (TMDL)** - The maximum amount of a pollutant that a lake, river, stream, or estuary can receive without seriously harming its beneficial uses. Also, a detailed water quality assessment that provides the scientific foundation for a watershed action plan. A watershed action plan outlines the steps necessary to reduce pollutant loads in a certain body of water to restore and maintain uses or aquatic life.

**Transect Line** - A straight line, perpendicular to stream flow, between two points on opposite stream banks.

**Treated Marine Seawater** - Marine seawater that has been treated to reduce salinity so as to meet standards that are at least as stringent as the water quality standards adopted by the commission applicable to the receiving stream or impoundment. More stringent treatment may be required if the commission determines it is necessary to protect water quality. Treated marine seawater is not a pollutant discharge.

**Treatment Facility** - Wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation, or disposal of domestic sewage, industrial wastes, agriculture wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the **Commission**.

## **U-W**

**Unclassified Water** - Smaller water bodies that are not designated as segments with specific uses and criteria in Appendix A of *30 TAC § 307.10* of the *Texas Surface Quality Standards*.

**Wastewater Treatment Plant Unit** - Any apparatus necessary for the purpose of providing treatment of wastewater (i.e., aeration basins, splitter boxes, bar screens, sludge drying beds, clarifiers, overland flow sites, treatment ponds, or basins that contain wastewater, etc.). For purposes of compliance with the requirements of *30 TAC § 309.13(e)* (relating to Unsuitable Characteristics), this definition does not include off-site bar screens, off-site lift stations, flow metering equipment, or post-aeration structures needed to meet permitted effluent limitations on minimum dissolved oxygen.

## WHO MUST APPLY FOR AN INDUSTRIAL WASTEWATER PERMIT?

The entity that must apply for a marine seawater desalination permit is the owner or owners of the facility that generates treated marine seawater and wastewater from marine seawater desalination processes, and that wishes to discharge treated marine seawater and wastewater from marine seawater desalination processes into water in the state (Marine Seawater Desalination permit). In addition, for Marine Seawater Desalination permits, whoever has overall financial responsibility for the operation of the facility must apply for the permit as a co-applicant with the facility owner. Facility operators are not required to apply as a co-applicant if they do not have overall financial responsibility of the facility operations.

Entities seeking a domestic wastewater permit must complete and submit a domestic wastewater permit application (forms TCEQ-10053 and TCEQ-10054).

## WHEN MUST THE APPLICATION BE SUBMITTED?

For new and amendment applications, the completed application should be submitted at least 180 days before the date the proposed discharge or disposal is to occur. For renewal applications, the completed application must be submitted at least 180 days before the expiration date of the current permit. If an application is not submitted before the existing permit expires, the permit will be terminated. The application will be processed as a new facility, with all applicable forms and fees required.

## WHAT PERMIT APPLICATION FORMS ARE REQUIRED?

The marine seawater desalination permit application has three parts: 1) the Administrative Report, 2) the Technical Report, and 3) the Worksheets. The reports and required worksheets must be completed to apply for a new permit or to amend or renew an existing permit. The reports, worksheets, and instructions are available in Adobe Acrobat PDF format on the TCEQ website at [https://www.tceq.texas.gov/search\\_forms.html](https://www.tceq.texas.gov/search_forms.html)

You need to download all of the following forms:

- TCEQ-20775: Marine Seawater Desalination Facility Permit Application – Administrative Report
- TCEQ-20776: Marine Seawater Desalination Facility Permit Application – Technical Report
- TCEQ-20777: Marine Seawater Desalination Facility Permit Application – Worksheets
- TCEQ-20775/20776-inst: Instructions for Completing the Marine Seawater Desalination Facility Permit Application.

### Notes:

- Older versions of the application forms **will not be accepted after six months** from the date of the updated or revised forms.
- The TCEQ Central Registry Core Data Form has been incorporated into the Administrative Report. **Do not send a separate core data form to the TCEQ.**

## HOW DO I COMPLETE THE APPLICATION?

**Follow the instructions while completing the application, as the information being submitted will not be clear unless the instructions are followed.** Each item in the application is cross-referenced to a page number in the instructions to assist you in finding the information you need.

**The application form may not be altered in any way. Applications that are not in the correct format and page numbering sequence will not be processed and will be returned. Questions cannot be deleted or rearranged.**

Only those sections and worksheets that are relevant should be completed and submitted depending on the type of authorization being sought by the applicant. Rarely will all sections and worksheets of the application be submitted. Administrative Report 1.0 and Technical Reports 1.0 and 2.0 must be submitted by all applicants, while others, such as the Worksheet 1.0 (Receiving Waters) are used only when the applicant is requesting authorization to discharge treated marine seawater to a natural stream, lake, reservoir, or other impoundment in the State. If you are unsure whether a section must be submitted, check the instructions for more information or call the Wastewater Permitting Section.

When submitting the application, arrange the sections of the application in the order listed in the Submission Checklist on page 1 of the Administrative Report. Indicate on the Submission Checklist which sections of the application have been submitted by checking either the “Y” or “N” column for each section of the application.

If the answer to a question requires more space than is provided, submit a separate attachment to answer the question. The separate attachments must be clearly cross-referenced back to the original question. In the space provided, write the attachment number or label. Failure to clearly cross-reference attachments may result in delays in processing the application.

**All items must be addressed.** If an item does not seem to be applicable, write “N/A” as your response. If an item is not addressed, a Notice of Deficiency letter will be sent to the applicant’s representative unless an explanation is provided as to why the item is not applicable. Failure to follow the instructions while completing the application may result in significant delays in processing the application.

Applicants are required to keep records of all data used to complete the permit application and any supplemental information submitted as part of the application process for a period of at least three years from the date the application is signed.

## HOW IS THE APPLICATION SUBMITTED?

**One original and three copies** of the entire application must be submitted. Please do not staple or bind the original application. Do not use plastic sleeves for the maps in the original application. Please indicate which applications are copies. Use the following addresses to deliver the application.

**Regular US mailing address:**

Texas Commission on Environmental Quality  
Water Quality Division  
Applications Review and Processing Team,  
MC-148  
P.O. Box 13087  
Austin, Texas 78711-3087

**Express/Overnight mailing address:**

Executive Director  
Applications Review and Processing Team,  
MC-148  
Texas Commission on Environmental Quality  
12100 Park 35 Circle  
Austin, Texas 78753

**Hand delivery address:**

Texas Commission on Environmental Quality  
Applications Review and Processing Team  
Building F, Room 2101  
12100 Park 35 Circle  
Austin, Texas 78753

## WHAT FEES DO I HAVE TO PAY?

Wastewater permits are subject to two different types of fees: 1) an application fee and 2) an annual water quality fee. Payment of the fees may be made either by check or money order payable to the TCEQ or through ePay (TCEQ's online payment application on the TCEQ web site).

### 1. Application Fee

This fee is required to be paid at the time the application is submitted. Failure to submit payment at the time the application is filed will cause delays in processing or denial of permit coverage. Application fees for industrial wastewater permits are based on 30 TAC § 318.4.

**Table 2: Application fee schedule**

<b>New</b>	<b>Major Amend. (with or without Renewal)</b>	<b>Renewal Only</b>	<b>Minor Amend./ Minor Mod.</b>
\$1,250	\$1,250	\$1,215	\$150

Postage fees of \$50.00 for new and amendment applications and \$15.00 for renewals are included with the application fees to cover the expense of the required notice (*30 TAC § 305.53*). For new and major amendment applications, the \$50.00 postage fee covers the expense of notifying up to 100 landowners. An additional \$50.00 postage fee will be required for each additional increment of up to 100 landowners.

To verify receipt of payment, or for any other questions you may have regarding payment of fees to the TCEQ, please call the Cashier's Office at (512) 239-0357. The applicant is responsible for the cost of publishing the public notices in the newspaper concerning the application for a permit. The applicant will be provided the information necessary to publish, including instructions, by the Water Quality Applications Team (first notice) and by the TCEQ Office of Chief Clerk (second notice).

### ***Mailed Payments***

Payment must be mailed in a separate envelope to one of the addresses below. Include the Water Quality Permit Payment Submittal Form located at the end of the Administrative Report.

#### **By regular U.S. mail:**

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, TX 78711-3088

#### **By overnight/express mail:**

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, TX 78753

### ***ePay Electronic Payment***

Make an electronic payment on the TCEQ website at <https://www3.tceq.texas.gov/epay/index.cfm>

When making the payment you must select Water Quality, and then select the fee category “Industrial.” You must include a copy of the payment voucher (see page 15 of the Administrative Report 1.0) with your application, which will not be considered complete without the payment voucher.

### **2. Annual Water Quality Fee**

This fee is assessed to permittees with an authorization in effect on September 1 of each year. The permittee will receive an invoice for payment of the annual water quality fee in November. The payment will be due 30 days from the invoice date. A 5% penalty will be assessed if the payment is not received by TCEQ by the due date. **Annual water quality fee assessments cannot be waived if the permit is in effect, whether active or inactive, on September 1.**

#### ***Important Note to All Applicants and Permittees:***

If your permit is in effect on September 1, you will be assessed an annual water quality fee. It is the responsibility of the permittee to submit a cancellation or transfer form in a timely manner. Pursuant to 30 TAC § 305.66, failure to pay fees is good cause for permit denial or revocation. If an applicant has outstanding fees, a proposed permit application will not be considered for approval by the Commission or Executive Director. For account balance information, contact the Financial Administration Division, Revenue Operations Section, at (512) 239-0354.

### ***Mailed Payments***

Return your payment with the billing coupon provided with the billing statement.

#### **By regular U.S. mail:**

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier’s Office, MC-214  
P.O. Box 13088  
Austin, TX 78711-3088

#### **By overnight/express mail:**

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier’s Office, MC-214  
12100 Park 35 Circle  
Austin, TX 78753

### ***ePay Electronic Payment***

Make an electronic payment on the TCEQ website at <https://www3.tceq.texas.gov/epay/index.cfm>

Enter your account number provided at the top portion of your billing statement. Payment methods include MasterCard, Visa, and electronic check payment (ACH). A transaction over \$500 can only be made by ACH.



## HOW DO I OBTAIN MORE INFORMATION?

Visit the TCEQ website at <https://www.tceq.texas.gov/permitting/wastewater/industrial> for additional information on wastewater permitting and the industrial wastewater permit application:

Questions may also be directed to any of the following specific areas within the Water Quality Division:  
(512) 239-4671

- Applications Review and Processing
- Groundwater Assessment
- Industrial Permits
- Standards Implementation
- Stormwater
- Water Quality Modeling

Information from the following areas of the TCEQ may also be helpful:

- Cashier's Office (fee payment): (512) 239-0357
- Central Records (copies of records and permits on file): (512) 239-2900
- Environmental Law Division (legal questions): (512) 239-0600
- Publications (agency publications): (512) 239-0028
- Revenue Operations Section (account balance information): (512) 239-0354

Information from the following state agencies may also be useful:

- Texas Secretary of State (information on Charter Numbers): (512) 463-5555
- State Comptroller of Texas (Tax Identification): (800) 252-1386

# INSTRUCTIONS FOR ADMINISTRATIVE REPORT 1.0 MARINE SEAWATER DESALINATION FACILITIES

The following information is required for all Marine Seawater Desalination permit applications – renewal, amendment, and new.

**PLEASE READ THE INSTRUCTIONS CAREFULLY AND FOLLOW THEM WHILE COMPLETING THE APPLICATION.**

Indicate by check mark the type of application being submitted. If submitting an amendment or modification to an existing permit, please describe the changes being requested (e.g., increasing flow from 0.1 to 0.2 MGD, decreasing the monitoring frequency, adding an outfall, etc.).

## 1. TYPE OF APPLICATION AND FEES

1. For **existing** permits, provide the TCEQ permit number and EPA I.D. Number.
2. Check the box next to the appropriate application type.
3. If the application is for an amendment **or** modification of an **existing** permit, describe the proposed changes in the space provided.
4. Indicate with a checkmark the amount submitted for the application fee in the table provided.
5. Provide the payment information for the application fee. If the payment was mailed, provide the check or money order number, check or money order amount, and the name printed on the check or money order. If the payment was submitted via EPAY, provide the voucher number, indicate with a checkmark if a copy of the voucher was included with the application, and include the attachment number in the space provided.

## 2. APPLICANT INFORMATION

### Important Notes:

#### ***Co-applicants***

*The selected entity type indicates the name that must be provided as an applicant for a permit, registration or authorization. It also identifies when a co-applicant/co-permittee on an application for a permit, registration or authorization is required.*

#### ***Partnership Not Filed with Texas Secretary of State***

*A customer may be a partnership as defined by the Texas Secretary of State's Office (TX SOS). If the customer is a general partnership or joint venture (not filed with TX SOS), the partnership must be filed in the county where the facility is located, and the applicant must provide a copy of the agreement that lists the legal name of each partner forming the general partnership or joint venture.*

#### ***Trust or Estate***

*A trust and an estate are not legal entities, but rather are fiduciary relationships governing the trustee/executor with respect to the trust/estate property. A Trustee and an Executor are considered the legal representatives of the trust/estate. Therefore, the Trust and Trustee or Estate and Executor must be*

*identified as co-applicants/co-permittees. If there is more than one trustee or executor, each trustee or executor must be identified as a co-applicant/co-permittee with the Trust or Estate.*

**a. Facility owner (applicant)**

***Legal name***

Provide the current legal name of the permittee, as authorized to do business in Texas. The name must be provided exactly as filed with the Texas Secretary of State (TX SOS) or on other legal documents forming the entity that are filed in the county where doing business. You may contact the TX SOS at (512) 463-5555 for more information related to filing in Texas. If filed in the county where doing business, provide a copy of the legal documents showing the legal name.

***Customer Reference Number (CN)***

TCEQ's Central Registry will assign each customer a number that begins with "CN" followed by nine digits. **This is not a permit number**, registration number, or license number.

- If this customer has not been assigned a CN, leave the space for the CN blank.
- If this customer has already been assigned this number, enter the permittee's CN.

If you do not know the CN, locate it using the [Customer Search](http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch) page on the TCEQ website at <http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>.

***Name and Title of the Person Signing the Application***

The person signing the application must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

***Mailing Address***

Provide a complete mailing address for receiving mail from the TCEQ. The address must be verifiable with the US Postal Service (USPS) for regular mail delivery (not overnight express mail). You may [verify the address](https://tools.usps.com/go/ZipLookupAction!input.action) on the USPS website at <https://tools.usps.com/go/ZipLookupAction!input.action>.

If you find that the address is not verifiable using the USPS web search, please indicate that the address is used by the USPS for regular mail delivery.

Provide the phone number, fax number, and email address that corresponds to the applicant's mailing address. Be sure to include the area code for the phone number and fax number. Leave Extension blank if this customer's phone system lacks this feature.

***Type of Customer***

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type.

Note that the selected entity type also indicates the name that must be provided as an applicant for a permit, registration or authorization. It also identifies when a co-applicant/co-permittee on an application for a permit, registration, or authorization is required.

- ***Individual***

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ. If the customer type selected is an Individual, complete Attachment 1.

- ***Sole-Proprietorship***

D.B.A.: a customer that is owned by only one person and has not been incorporated. This business may:

- be under a person's name;
- have its own name ("doing business as" or d.b.a); and
- have any number of employees.

The legal name of the individual business owner must be provided. The d.b.a. name is not recognized as the legal name of the entity. The d.b.a. may be used as the site name.

- ***Partnership***

A customer that is established as a partnership as defined by the TX SOS.

If the customer is a general partnership or joint venture (not filed with TX SOS), the partnership must be filed in the county where the facility is located, and the applicant must provide a copy of the agreement that lists the legal name of each partner forming the general partnership or joint venture.

- ***Corporation***

A customer meets all of these conditions:

- is a legally incorporated entity under the laws of any state or country;
- is recognized as a corporation by the TX SOS; and
- has proper operating authority to operate in Texas.

The corporation's legal name as filed with the TX SOS must be provided as applicant. An assumed name of a corporation is not recognized as the legal name of the entity.

- ***Trust or Estate***

A trust and an estate are not legal entities, but rather are fiduciary relationships governing the trustee/executor with respect to the trust/estate property. A Trustee and an Executor are considered the legal representatives of the trust/estate. Therefore, the Trust and Trustee or Estate and Executor must be identified as co-applicants/co-permittees. If there is more than one trustee or executor, each trustee or executor must be identified as a co-applicant/co-permittee with the Trust or Estate.

- ***Government - federal, state, county, or city government (as appropriate)***

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's legal name must be provided as the applicant. A department name or other description of the organization should not be included as a part the legal name as applicant.

- ***Other***

The customer does not fit any of the above descriptions. Enter a short description of the type of customer in the blank provided.

### ***Independent Entity***

Check **No** if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check **Yes**.

### **Number of Employees**

Check one box to show the total number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

### **Customer Business Tax and Filing Numbers**

- **State Franchise Tax ID Number**

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter this number here.

- **TX SOS Charter (filing) Number**

Corporations and Limited Partnerships required to register with the TX SOS are issued a charter or filing number. You may obtain further information by calling the TX SOS at (512) 463-5555.

### **b. Co-applicant information**

For Marine Seawater Desalination permits, whoever has overall responsibility for the operation of the facility must submit the application for a permit as a co-applicant along with the facility owner. The facility operator is not required to apply as co-applicant if they do not have overall responsibility of the facility operations. If co-applicants are required, please indicate the address to be used on the permit and for permit correspondence (either the address provided for Item 1.a or 1.b). Complete the address as directed for Item 1.a.

If the facility is considered a fixture of the land (e.g., ponds, units half-way in the ground), there are two options. The owner of the land can apply for the permit as a co-applicant or a copy of an executed deed recorded easement must be provided. The deed recorded easement must give the facility owner sufficient rights to the land for the operation of the treatment facility.

## **3. APPLICATION CONTACT INFORMATION**

Provide the name, title, and communication information of the person or persons that the TCEQ can contact for additional information regarding this application.

Below the name and address is a space to indicate by a check mark if the contact is the Administrative contact, the Technical contact, or both. If the contact can answer administrative and technical questions, check both spaces. Two contacts may be provided in the application, one administrative and one technical. If additional contacts are provided, please provide a separate attachment to the application.

## **4. PERMIT CONTACT INFORMATION**

Provide the names of two individuals that can be contacted by the agency as needed during the term of the permit. Include their phone numbers and mailing addresses if different than the permanent address used for the permit. The individuals should be of the level of Vice President or higher of a corporation, an Elected Official of a City or County, or a General Partner of a Partnership.

## **5. BILLING CONTACT INFORMATION**

An annual fee is assessed to each permittee on September 1 of each year. Provide the complete mailing address where the annual fee invoice should be mailed. The address must be verifiable with the US Postal Service for regular mail delivery (not overnight express mail). You may [verify the address](https://tools.usps.com/go/ZipLookupAction!input.action) on the USPS website at <https://tools.usps.com/go/ZipLookupAction!input.action>. Also, provide a phone number of the permittee's representative responsible for payment of the invoice.

## 6. DMR CONTACT INFORMATION

Provide the name and mailing address of the person responsible for receiving and submitting DMRs. The preprinted DMRs will be provided by the TCEQ Enforcement Division unless you chose to submit data electronically.

### Submit data on line.....



Submit on line through [NetDMR](https://www.tceq.texas.gov/field/netdmr/netdmr.html) system at <https://www.tceq.texas.gov/field/netdmr/netdmr.html>. **Sign up now.**

Establish an electronic reporting account when you get your permit number.

## 7. NOTICE INFORMATION

### a. Individual Publishing the Notices

Provide the name, company name, mailing address, telephone number, and fax number of the person that will publish the notices required during the processing of the application. Only one person can be designated. This person (not the newspaper) will be contacted by the TCEQ to publish the required notices in a newspaper of the largest general circulation in the county where the facility is or will be located. This person must be available during the application processing since the first notice, the “Notice of Receipt of Application and Intent to Obtain a Water Quality Permit” (NORI) must be published within 30 days of the application being declared Administratively Complete.

### b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Designate the preferred method for receiving the required notice information. The day the application is declared administratively complete, the notice package will be sent to the designated person via the method chosen by the applicant in the application. The notice package includes the TCEQ declaration of completeness, a notice ready for publication, instructions for publishing the notice, and a publication affidavit.

The second notice, Notice of Application and Preliminary Decision (NAPD), must be published within 30 days of a draft permit being filed with the Office of Chief Clerk (OCC). Detailed information may be obtained by referring to TCEQ’s web site and *30 TAC Chapters 39, 50, 55, and 281* regarding notice, public comments, and response to comment procedures. All information necessary to publish the second notice, as well as proof of publication, will be mailed by the OCC. The address to mail the required information back to the TCEQ will be included in the information from the OCC. If the mailing address is a P.O. Box, insert the P.O. Box number within the space provided for the street name. Insert suite numbers within the line provided for the mailing address.

### c. Contact in the Notice

Provide the name, title, credentials, organization name, telephone number, fax number, and email address of the one individual that will be identified as the notice contact in the two notices that are mailed out and published as part of the permitting process. This individual may be contacted by the public to answer general and specific questions about all aspects of the permit application.

#### **d. Public Place Information**

Provide the name and physical address for the public place where the application information will be available for public viewing and copying. The information requested in this portion of the application regards a public place where the complete application, draft permit, and technical summary/statement of basis or fact sheet, if applicable, must be made available for viewing and copying by the general public by the date the first notice is published. Please verify with the proper authority that they will make the application available for public viewing and copying. The public place must be located within the county in which the facility is or will be located. The address must be a physical address. If the facility or outfall is located in more than one county, a public viewing place for each county must be provided. **Post office box addresses are not acceptable.**

#### **e. Bilingual Notice Requirements**

Bilingual notices may be required for new permit applications, major amendment applications, and renewal applications, (not applicable for minor amendment or minor modification applications). If an elementary school or middle school nearest to the facility offers a bilingual program, the applicant may be required to publish notices in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, requires a bilingual education program to apply to an entire school district should the requisite alternative language speaking student population exist. However, bilingual-speaking students may not be present at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notices in an alternative language is triggered if:

- the nearest elementary or middle school, as a part of a larger school district, is required to make a bilingual education program available to qualifying students **and**
- the school either has students enrolled at such a program on-site, or has students who attend such a program at another location in satisfaction of the school's obligation to provide such a program.

The applicant is required to call the bilingual/ESL coordinator for the nearest elementary and middle schools and obtain information to determine if alternative language notices are required. If it is determined that bilingual notices are required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

## **8. REGULATED ENTITY AND PERMITTED SITE INFORMATION**

### **Regulated Entity Reference Number (RN)**

This is a number issued by TCEQ's Central Registry to sites (a location where a regulated activity occurs) regulated by TCEQ. This is not a permit number, registration number, or license number.

- If this regulated entity has not been assigned an RN, leave this space blank.
- If this customer has been assigned this number, enter the permittee's RN.

If the site of your business is part of a larger business site, an RN may already be assigned for the larger site. Use the RN assigned for the larger site. Use the [TCEQ's Central Registry Regulated Entity Search](http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch) at <http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch> to see if the larger site may already be registered as a regulated site at:

If the site is found, provide the assigned RN and provide the information for the site to be authorized through this application below. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site.

In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

**a. State Permit No.**

Provide the TCEQ Permit No. and the EPA Identification No. if the facility has an existing permit. For new facilities, these spaces should be marked N/A.

**b. Name of the Project or Site**

Provide the name of the site as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity. An RN will be assigned by Central Registry if this site is not currently regulated by TCEQ.

**c. Site/Project (Regulated Entity) Physical Address**

Enter the complete address of where the site is located. This address must be validated through US Postal Service. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site. Please confirm this to be a complete and valid address. Please do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street (or house) number and street name, enter NO ADDRESS for the street name. For all permits regardless of having a street address or not, provide a complete written location access description. For example: "The site is located 2 miles west from the intersection of Highway 290 IH35, located on the southwest corner of the Highway 290 South bound lane." Do not provide directions to the facility. The location description must use easily identifiable landmarks found on the USGS map submitted with the application. The description must include the direction and distance in feet or miles from road intersections. **If the existing permit includes an accurate description, indicate so by checking 'yes' on the application form.** If, however, the application is for a new facility or the description is inaccurate, provide an accurate description. Two examples of acceptable location descriptions are: (1) The facility is located 2,600 feet southwest of the intersection of State Highway 20 and Farm-to-Market Road 1200; (2) The facility is located approximately 1.2 miles east of the intersection of Farm-to-Market Road 345 and County Road 10. **NOTE:** a new location requires a new (separate) permit - permits are site specific.

**d. City Where Site is Located or Nearest City**

Provide the name and distance to the nearest city from the location of the facility. The name of the nearest city is used by the commission to include that city on the notice mailing list.

**e. Zip Code**

Provide the zip code where the facility is located.

**f. County Where Site is Located**

Identify the county or counties where the facility is located.

**g. Latitude and Longitude**

Enter the latitude and longitude of the site in degrees, minutes, and seconds to the nearest second or decimal degrees to at least six decimal places. Visit the TCEQ website at <https://www.tceq.texas.gov/gis/sqmapview.html> for help obtaining the [latitude and longitude](#).

**h. Description of Activity Regulated**

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the Standard Industrial Classification (SIC) code description.



### **i. Owner of Treatment Facility**

Provide the name of the owner of the facility. **The plant owner must be the applicant for the permit (same as Item 1).** Indicate with a check mark the type of ownership.

### **j. Owner of Land Where Treatment Facility Is or Will Be Located**

Provide the name, mailing address, phone number, and email address of the owner of the land where the facility is located. If the owner of the land is not the same as the applicant, a long-term lease agreement for the life of the facility must be provided. A lease agreement can only be submitted if the facility is not a fixture of the land (e.g., above-ground package plant). If a long-term lease agreement is required, provide the attachment number in the space provided.

If the facility is considered a fixture of the land (e.g., ponds, units half-way in the ground), there are two options. The owner of the land can apply for the permit as a co-applicant or a copy of an executed deed recorded easement must be provided. A long-term lease agreement is not sufficient if the facility is considered a fixture of the land.

Both the long-term lease agreement and the deed recorded easement must give the facility owner sufficient rights to the land for the operation of the facility.

## **9. DISCHARGE INFORMATION**

The following information provides specific location information used in describing the location of the facility, the discharge route, and other information relevant to the facility.

### **a. Indian Land**

Indicate whether the facility is located on, or the discharge route passes through, Indian Land by checking **yes** or **no**.

### **b. USGS Topographic Map**

For **Renewal, Major and Minor Amendment** applications, provide an 8.5"×11", reproduced portion of the most current and original USGS Topographic map(s) that meets the 1:24,000 scale.

For New applications, provide an **original**, full size, 7.5-minute USGS Topographic Quadrangle Map(s). The original USGS quadrangle map(s) must be in color, have a scale, and have the latitude and longitude on **all** four sides of the map. You can obtain an original, full size, 7.5-minute USGS Topographic Quadrangle map by calling the USGS at (888) 275-8747.

For **all** USGS Map submittals, the maps must contain the **applicable information below, clearly outlined and labeled on original and copy portion USGS Map**

- one mile in all directions from the facility. If more than one map is required to show one mile in all directions from the facility, provide each individual map. Do not splice together.
- the applicant's property boundary
- the boundaries of the treatment plant
- the point(s) of discharge (mark with an "X" or a dot)
- the discharge route(s) highlighted for a distance of three stream miles or until the effluent reaches a classified segment (only use a yellow or light colored highlighter so that the stream characteristics are visible - do not mark over the discharge route with dark ink)
- the boundaries of the effluent disposal site such as the irrigation tract or subsurface drainfield
- all ponds including storage/evaporation/holding ponds

- the sewage sludge disposal site if it is in the existing permit or if the applicant is seeking authorization through a new/amended permit application
- all new and future commercial developments, housing developments, industrial sites, parks, schools, and recreational areas
- all springs, public water supply wells, monitor wells, surface water supply intakes, water treatment plants, potable water storage facilities, and sewage treatment facilities within one mile of the facility
- around the point of discharge and one mile downstream of the discharge route(s), all parks, playgrounds, and schoolyards must be highlighted and the names provided on the map

**c. Point(s) of Discharge and Discharge Route(s)**

Confirm whether the point(s) of discharge and discharge route(s) in the existing permit are correct by checking **yes** or **no**. **If the existing permit includes an accurate description, indicate so by checking ‘yes’ on the application form.** If **no**, please provide an accurate description. A discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in *30 TAC Chapter 307*). Two examples of a discharge route are: 1) through a six-inch pipe to a county drainage ditch; thence to Doe Creek; thence to the Brazos River; or 2) from the plant site to an unnamed tributary of Joe Creek; thence to Joe Creek; thence to Quail Creek; thence to the Jane River Below Charles Lake. Classified segments can be found in *30 TAC § 307.10 Appendix A* and segment location descriptions can be found in *30 TAC § 307.10 Appendix C*. **The issuance of a permit does not grant a permittee the right to use the specific discharge route. The issuance of a permit does not grant the permittee the right to use private or public property for conveyance of wastewater along the discharge route described above. The permittee must acquire all property rights as may be necessary to use the discharge route.**

**Please Note: The relocation of the discharge point or discharge route may require a Major Amendment to the permit.**

**d. City Nearest the Outfall(s)**

Provide the name of the city or cities in which the outfall(s) are located or nearest to where the outfall(s) are located.

**e. County Where the Outfall(s) are Located**

Provide the county or counties in which the outfall(s) are located.

**f. Latitude and Longitude of the Outfall(s)**

Enter the latitude and longitude of each outfall in degrees, minutes, and seconds to the nearest second or decimal degrees to at least six decimal places. Visit the TCEQ website at <https://www.tceq.texas.gov/gis/sqmaview.html> for help obtaining the [latitude and longitude](#).

**g. Discharge to Municipal, County, or State Ditches**

Answer the question **yes** or **no** whether the treated effluent is discharged to a city, county, state highway right-of-way, or flood control district drainage ditch. Authorization from this entity must be obtained prior to commencing discharge. The wastewater permit does not grant this authorization; it must be authorized by the owner of the structure. If the answer to the question for this item is **yes**, please read the following and answer the remaining questions as appropriate.

For **renewal** applications, indicate by a check mark whether the entity granted authorization.

For **new and amendment** applications, indicate by a check mark whether the entity granted authorization or if authorization is still pending. Provide a copy of the letter sent to the owner of the drainage structure with the application. Upon receipt, provide a copy of the response letter.

## **h. Daily Discharge of 5 Million Gallons per Day or More**

For permits that have a permitted average flow of 5 million gallons per day (MGD), or for applications requesting an increase in permitted average flow to 5 MGD or greater, provide the name(s) of each county or counties within 100 statute miles downstream of the point(s) of discharge.

## **10. MISCELLANEOUS INFORMATION**

### **a. Previous Employment with the TCEQ**

List each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application. Any violation of the Health and Safety Code, Texas Water Code, or Government Code relating to conflict of interest may result in denial of the application and filing of charges with the appropriate office.

### **b./c. Fee and Penalty Information**

Please note that effective September 1, 2006, the TCEQ will no longer issue, amend, or renew permits, registrations, certifications, or licenses to an entity or person who is delinquent on a penalty or fee owed to the TCEQ. The TCEQ will not declare any application administratively complete that is submitted by a person or entity who is delinquent on a fee or penalty until the fee or penalty is paid, or if on an approved installment plan, that payments under the plan are current. The TCEQ will withhold final action on an application until the fee or penalty is paid and the account is current, if after the application is considered administratively complete, we discover that the owner or entity who submitted the application is delinquent on a fee or penalty.

Please identify whether you owe any fees or penalties to the TCEQ. If fees or penalties are owed, please identify the type of fee or penalty owed, the amount past due, and the TCEQ identifying number. For penalties, please provide the TCEQ docket number. Visit the TCEQ website at <https://www.tceq.texas.gov/agency/fees/delin/index.html> for further information on the [Delinquent Fee & Penalty Protocol](#).

## **11. SIGNATURE PAGE**

Each entity applying for the permit is required to sign the certification statement. The certification must bear an original signature of a person meeting the signatory requirements specified under *30 TAC § 305.44*.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the TCEQ's Environmental Law Division at (512) 239-0600.

### **30 TAC § 305.44 - Signatories to Applications**

***All applications shall be signed as follows.***

- For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

- For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.
- For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

# INSTRUCTIONS FOR SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

**This form applies to Marine Seawater Desalination permit applications.**

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ Memorandum of Agreement with the EPA. If any of the items are not completely addressed and/or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

When filling out the SPIF:

- **Do not refer to a response of any item in the permit application form**
- Each attachment must be provided with this form, separately from the administrative report of the application

The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

# INSTRUCTIONS FOR COMPLETING ATTACHMENT 1

## 1. Individual information

Complete this attachment if the facility owner or co-applicant is an individual. The address provided must be the individual's home address. The address must be verifiable with the US Postal Service for regular mail delivery (not overnight express mail). You may [verify the address](https://tools.usps.com/go/ZipLookupAction!input.action) on the USPS website at <https://tools.usps.com/go/ZipLookupAction!input.action>. If the operator must apply as co-applicant and is an individual, provide a separate sheet for information on the operator. As the facility owner, you need to provide the Customer Reference Number (CN).

**End of Instructions for TCEQ Form 10411**

# INSTRUCTIONS FOR TECHNICAL REPORT 1.0 MARINE SEAWATER DESALINATION FACILITIES

**The following information is required for all applications for renewals, amendments, and new marine seawater desalination permits.**

**Please read the instructions carefully.**

Please provide detailed technical information as needed. If more than one outfall is included in the application, provide applicable information for each outfall. If an item does not apply to your facility, write N/A to indicate that you have considered it. Attach separate reports or additional sheets as needed. Cross-reference all attachments to the question in the Technical Report. You are not required to submit worksheets that do not apply to your application.

## 1. RECEIVING WATER CHARACTERISTICS

- a. If the facility proposes to discharge waste from desalination of marine seawater into the Gulf of Mexico, check **yes**. Otherwise, check **no**
- b. If **yes** to **1.a.**, indicate whether the proposed discharge will be near-shore or off-shore by checking the appropriate box.

Attach documentation of the results of consultation with Texas Parks and Wildlife Department and the General Land Office regarding the outfall location(s) and provide the attachment number in the space provided.

- c. If the facility proposes to discharge treated marine seawater into a natural stream, lake, reservoir, or other impoundment in the State, check **yes**. Otherwise, check **no**.

If **yes** to **1.c.**, complete Worksheets 1.0, 1.1, and 1.2, and provide the attachment number in the space provided.

## 2. FACILITY/SITE INFORMATION

- a. Provide a brief narrative description of the general nature of your business and the type of industrial and commercial activity at the plant, including what specific products are manufactured or produced and what services are provided.
- b. List, in descending order of significance, up to four 4-digit Standard Industrial Classification (SIC) codes that best describe your facility in terms of the principal products or services you produce or provide.
- c. Provide a detailed description of the processes at the facility which generate wastewater. The description should include information such as any modifications to your process water/stormwater handling facilities, the start-up or shutdown of any process or treatment units, any wastewater recycle projects, or any changes in production throughput.

- d. Attach a facility map (drawn to scale) showing the following information:
- Production areas, maintenance areas, materials handling areas, and waste disposal areas.
  - Location of each unit of the wastewater treatment plant including the location of sumps, impoundments, and outfalls (also include locations of sampling points if significantly different from outfall locations).

Provide a reference to the attachment with the above information in the space provided.

- e. If this is a new permit application for an existing facility, check **yes**. Otherwise, check **no**.

If **yes**, provide background discussion which explains the reason for pursuing an authorization to dispose of wastewater (e.g., new process which generates wastewater, enforcement action, etc.).

- f. If the existing or planned treatment facility or disposal site is or will be located above the elevation of the 100-year frequency flood event, check **yes**. Otherwise, check **no**. List the source of data you used to make your determination. Treatment units and disposal sites must be protected from inundation from a 100-year frequency flood event.

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are in use or planned to be used to prevent flooding of the treatment facility/disposal area. If applicable, provide the size of dikes or other protective structures being utilized. Include a site map showing the location of the treatment plant/disposal area within the 100-year frequency flood level.

- g. For **new or amendment** permit applications, if any construction operations will result in a discharge of fill material into a water in the state, check **yes**. Otherwise, check **no**.
- h. If **yes** to the above question, provide (if available) the U.S. Army Corps of Engineers (USACE) CWA Chapter 404 Dredge and Fill Permit Number for purposes of tracking the 401 certification by the TCEQ.

If **no**, provide the approximate date you plan to submit your application to the Corps.

**Note:** It is the responsibility of the applicant to contact the USACE to obtain all necessary authorization, including a Federal CWA Chapter 404 Dredge and Fill permit, if necessary. The TCEQ is responsible for certifying that federal permits for the discharge of fill material into waters in the state are consistent with the state water quality standards. This information about the USACE 404 discharge permit is requested to ensure the most efficient review of all actions by TCEQ on a wastewater discharge permit that also requires a USACE permit.

### 3. TREATMENT SYSTEM

- a. List any physical, chemical, or biological treatment process(es) that you use to treat wastewater authorized or to be authorized for disposal at your facility. This list should be specific and include each unit in the treatment process and dimensions (e.g., dissolved air flotation, chemical precipitation, equalization, pH control, aeration, steam stripping, clarification, anaerobic lagoon). Please specify the associated outfall for each treatment unit and which wastewaters are chlorinated prior to discharge.
- b. Attach a flow schematic **with a water balance** showing each treatment unit (including any lagoons, ponds, or impoundments) and all sources of wastewater flow into the treatment plant and to each outfall/point of disposal. Provide the attachment number in the space provided. This schematic should include all process wastewater, cooling water, domestic wastewater, and stormwater. The water balance must show average flows at intake, between units, treatment units, and discharge points. If a water balance cannot be determined (e.g., for certain mining activities), the applicant may provide instead a pictorial description of the nature and amount of any sources of water and any collection and treatment measures. (See Appendix 1 for an example of a water balance schematic.)



## 4. OUTFALL INFORMATION

Please complete the tables to provide the following information concerning each outfall for discharge operations:

- latitude and longitude
- description of the location of each outfall and the sampling location (if different)
- description of the flow and duration of each discharge operation
- additional description of the characteristics (e.g., pumped vs. gravity discharge, etc.) of each discharge operation
- list of contributing wastestreams (e.g., waste from desalination of marine seawater, treated marine seawater, and domestic wastewater) and flow and percent of total flow for each.

For permit applications with more than two outfalls, copies of page 3 (numbered page 3a, page 3b, etc.) may be used to provide the information on the additional outfalls.

**Outfall Latitude and Longitude:** Provide the latitude and longitude (either in degrees, minutes, and seconds or in decimal degrees to six decimal places) to the nearest 15 seconds of each outfall for Marine Seawater Desalination permit applications.

**Outfall Location Description:** Provide a narrative description of the outfall (e.g. Outfall 001; at the outlet weir of the treatment plant prior to entering the river).

**Description of Sampling Points:** Provide a narrative description of the sampling point for each outfall if the sampling point is not at the physical outfall location.

**Outfall Flow Information - Permitted and Proposed:** Provide the daily average and daily maximum flow information in million gallons per day (MGD) in the spaces provided using the permitted flow for existing facilities and the proposed flow for new or amendment permit applications (e.g., 0.5 MGD daily average and 1.0 MGD daily maximum).

**Outfall Discharge - Method and Measurement:** Indicate with a “Y” or “N” whether discharges via the permitted or proposed outfall are through a gravity/flow-through system or whether discharges are a result of pumping.

Provide the type of flow measurement device (e.g., V-notch weir, Totalizer, Parshall Flume) used or to be used to measure flow from discharge via the permitted or proposed outfall.

**Outfall Discharge - Flow Characteristics:** Indicate the duration of the discharge in hours/day, days/month, and months/year. Existing permits should base the response on historical discharge data. New or amended facilities should base the response on design flow rates and discharge durations. Note: This information should be representative of periods of the maximum volume or duration of discharge anticipated at the facility. If necessary, please provide additional information to clarify or explain an atypical discharge duration or frequency.

Indicate with a “Y” or “N” whether the permitted or proposed discharge is continuous, intermittent, or seasonal.

A **continuous discharge** is defined (*40 CFR § 122.2*) as a discharge that occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

A **seasonal discharge** is considered to be a continuous discharge which typically only occurs during a fraction of a calendar year (e.g., a peaking power plant which primarily operates and discharges during summer months). The response to this item should correspond to the information provided for discharge duration.

**Wastestream Contributions:** Provide a list of the wastestreams to be discharged via each outfall. Provide the volume and the percent contribution of the total discharge for each wastestream. (Example for a total flow of 1.2 MGD – water treatment waste: 0.22 MGD/18%; filter backwash: 0.18 MGD/15%; treated marine seawater: 0.65 MGD/54%; sanitary wastewater: 0.15 MGD/13%).

If there are additional outfalls at the facility than the spaces provided, copy page 4 of this report, complete the wastestream contributions for each outfall, and attach to the application. Provide the attachment number in the space provided.

## 5. STORMWATER MANAGEMENT

- a. If any existing or proposed outfalls discharge or propose to discharge stormwater runoff commingled with other wastestreams, check **yes**. Otherwise, check **no**.

If **no**, proceed to Item 6. (**Note:** If discharges via existing or proposed outfalls consist of stormwater runoff **only**, Worksheet 2.0 may be required to be completed and submitted with this application. See instructions for Worksheet 2.0 for further guidance.)

If **yes**, provide the following information:

For each outfall with a component of stormwater runoff, provide a brief narrative description of the industrial processes and activities that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff in areas where runoff is generated (e.g., coal pile storage area, equipment washdown area, maintenance chemical storage area, etc.).

**Note:** Analytical testing is required if the pollutants listed in Table 3 of Worksheet 2.0 are believed to be present as a result of contact with stormwater runoff contributing to the discharge via the appropriate outfall(s).

- b. If discharges from any of the proposed or existing outfalls consist of stormwater runoff only or stormwater runoff and any of the listed non-stormwater discharges defined on page 8 of the instructions, check **yes**. Otherwise check **no**.

If **yes**, complete **Worksheet 2.0** and include as an attachment to the application. Provide the attachment number in the space provided.

## 6. IMPROVEMENTS OR COMPLIANCE/ENFORCEMENT REQUIREMENTS

If this facility is currently required to meet any implementation schedule for the construction, operation, or upgrading of its wastewater treatment equipment, check **yes**. Otherwise, check **no**. This requirement includes:

- Federal, State, or local authority permit conditions,
- administrative or enforcement orders,
- enforcement compliance schedule letters,
- stipulations,
- court orders, or
- grant and loan conditions.

If **yes**, provide a brief summary of the requirements which includes:

- a background discussion of the requirements,
- an identification of each compliance/abatement requirement, and
- a listing of the required and projected final compliance dates.

## 7. DOMESTIC SEWAGE AND SEPTAGE MANAGEMENT AND DISPOSAL

a. Please check the method(s) used for treatment/disposal of domestic sewage:

- Facility is connected to a wastewater treatment plant permitted to receive domestic sewage, or the domestic sewage is transported off-site to a permitted facility for treatment, disposal, or both. If this item describes the management of domestic sewage at the facility, **complete Item 7.b**.
- Domestic sewage is disposed of by on-site septic tank. If this item describes the management of domestic sewage at the facility, **complete Item 7.b**.
- Domestic sewage is not generated on-site. If domestic sewage is not generated on-site, **proceed to Item 8**.
- If domestic sewage is managed by a method other than those mentioned above (e.g., portable toilets), provide a description of the management of the waste and the disposal method in the space provided.

b. If instructed to do so by the previous item, provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste disposal facility which receives the domestic sewage/septage. If the domestic sewage/septage is hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

## 8. RADIOACTIVE MATERIALS

If radioactive materials are mined, used, stored, or processed at the facility, or you have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property, check **yes**. Otherwise, check **no**.

If **yes** to **8**, complete Worksheet 4.0 and provide the attachment number in the space provided.

## 9. MAJOR AMENDMENT REQUESTS

If you are requesting a **major amendment** of an existing permit, check **yes**. Otherwise, check **no**. A major amendment is defined in *30 TAC § 305.62(c)(1)* as an amendment that changes a substantive term, provision, requirement, or a limiting parameter of a permit. Examples of a major amendment request include, but are not limited to: an increased flow limit, a reduced monitoring frequency, removal of an effluent limitation, addition of a new wastestream, addition of a new outfall, etc.

If **yes**, list each specific request and provide discussion on the scope of any requested permit changes in the space provided. Explain why the permit amendment is needed and provide supplemental information or additional data that will support the request. For example, if your request is to increase a flow limit, provide an explanation which justifies an increased volume of discharge (e.g. expanded production, additional boilers/cooling towers, change in process, etc.). Provide an attachment and an attachment number if additional information is necessary. If **no**, proceed to Item 10.

## 10. MINOR MODIFICATION REQUESTS

If you are requesting any minor modifications to the permit, check **yes**. Otherwise, check **no**. A minor modification is defined in *40 CFR § 122.63* and *30 TAC § 305.62(c)(3)* as a change for the purpose of making corrections or allowances for changes. Minor modifications may only:

- correct typographical errors
- require more frequent monitoring or reporting by the permittee
- change an interim compliance date in a schedule of compliance (not to exceed 120 days of date specified in existing permit and will not interfere with final compliance date)
- allow for a change in ownership or operational control of a facility where the Director determines that no other change in the permit is necessary
- (1) change the construction schedule for a discharger which is a new source
- (2) delete a point source outfall when the discharge from that outfall is terminated
- incorporate conditions of a POTW pretreatment program as enforceable conditions of the POTW's permits

If **yes**, provide an itemized list and discuss the requested changes in the space provided. Provide an attachment and an attachment number if additional information is necessary. If **no**, proceed to Item 11.

## 11. MINOR AMENDMENT REQUESTS

If you are requesting any **minor amendments** to the permit, check **yes**. Otherwise, check **no**. A minor amendment is defined in *30 TAC § 305.62(c)(2)* as an amendment to improve or maintain the permitted quality or method of disposal of waste. A minor amendment includes any other changes that will not cause or relax a standard or criterion which may result in a potential deterioration of water quality in the state. If **yes**, provide an itemized list and discuss the requested changes in the space provided. Provide an attachment and an attachment number if additional information is necessary.

# INSTRUCTIONS FOR TECHNICAL REPORT 2.0 MARINE SEAWATER DESALINATION FACILITIES

Technical Report 2.0 contains 5 analytical tables, some or all of which may need to be completed in order for the application to be technically complete.

Technical Report 2.0 **is required** for applicants submitting a renewal, amendment, or new permit application for discharges from a Marine Seawater Desalination facility.

## 1. LABORATORY ACCREDITATION CERTIFICATION

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

- a. The laboratory is an in-house laboratory and is:
  1. periodically inspected by the TCEQ; or
  2. located in another state and is accredited or inspected by that state; or
  3. performing work for another company with a unit located in the same site; or
  4. performing pro bono work for a governmental agency or charitable organization.
- b. The laboratory is accredited under federal law.
- c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- d. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements. The certification statement must be signed and submitted with every application. See page 34 of these Instructions for a list of designated representatives who may sign the certification.

See Worksheet 2.0 for analytical data requirements for outfalls that discharge only stormwater.

## 2. GENERAL TESTING REQUIREMENTS

All information submitted with this worksheet shall comply with the following requirements:

- **Analytical data provided in the application must be sampled within one year prior to the date the application is submitted to the TCEQ.**
- All sampling and laboratory testing methods should be performed according to *30 TAC Chapter 319, General Regulations Incorporated into Permits*. All testing must conform to EPA approved methodologies for sample collection, preservation, analysis, and detection levels. In addition, this data must comply with the quality assurance/quality control (QA/QC) requirements of *40 CFR Part 136* and other appropriate QA/QC requirements for standard and suggested methods for analytes not addressed by *40 CFR Part 136*.
- For **all pollutants regulated in your existing permit**, report the analytical results from the four most recent samples from the Discharge Monitoring Reports (DMRs) and the averages of these values regardless of the required monitoring frequency.
- **Tables 1, 2, 3, and 4:** For **pollutants not regulated in your existing permit**, provide the analytical results from at least four separate grab or composite samples collected at a frequency of

once per week for a period of four weeks from the wastewater stream unless otherwise specified in the application or approved by the TCEQ. Also, provide the average of the four samples calculated as directed below. Approval to submit less than four samples should be obtained from the TCEQ prior to application submittal.

- **Table 5:** For **pollutants not regulated in your existing permit**, average and maximum concentrations may be calculated from at least one analytical result obtained from a grab or composite sample. Indicate the number of samples analyzed for each pollutant. The quantitative data may be data collected over the past 365 days.
- **Test methods** must be sensitive enough to detect the pollutants at the minimum analytical level (MAL). These values are subject to change, and you may wish to contact the TCEQ Industrial Permitting Team before requesting these tests. Failure to use tests capable of meeting the MAL may compromise the analyses and retesting may be required. See “Minimum Analytical Levels and Suggested Methods for Application Screening” on pages 60-67 of these instructions.
- **Averaging Calculations:** When more than one analytical result is available or required, calculate the **average** values according to the following guidelines. In these instructions, the term “level of detection” shall be the level of detection achieved for that specific analytical test.
  - For any detectable result, the actual analytical result shall be used verbatim regardless of the MAL.
  - For any non-detectable result in which the level of detection was as sensitive as or more sensitive than the specified MAL **and** the analytical data for that parameter includes other samples with detectable results, the value of one-half of the level of detection shall be used for averaging purposes.

*Example:* Sample results are 14 µg/L, 12 µg/L, and two samples which were non-detect at a MAL of 10 µg/L; a value of 5 µg/L would be used for the “non-detects” for averaging purposes resulting in an average concentration of  $(14 + 12 + 5 + 5)/4 = 9$  µg/L.
  - For any non-detectable result in which the level of detection was as sensitive as or more sensitive than the specified MAL and all sample results for that parameter were non-detect, the average shall be reported as less than the level of detection.

*Example:* All sample results are non-detect at a MAL of 10 µg/L; the average is reported as < 10 µg/L.
  - For any non-detectable result in which the level of detection was **not** as sensitive as the specified MAL, a value equivalent to the level of detection shall be used for averaging and reporting purposes.

*Example:* The specified MAL is 10 µg/L and the sample results are 26 µg/L, 22 µg/L, and two samples which were non-detect at an achieved level of detection of 20 µg/L; a value of 20 µg/L would be used for the “non-detects” for averaging purposes resulting in an average concentration of  $(26 + 22 + 20 + 20)/4 = 22$  µg/L.
- If any of the analyses reported in this application are performed by a contract laboratory or a consulting firm, provide the name, address, and telephone number for each laboratory/firm. Also specify which pollutants were analyzed by which laboratory/firm.
- If this application is for a new discharge, results from similar facilities, treatability studies, design information, or literature sources may be submitted when real effluent analytical data is not available. The basis of the “results” submitted should be explained.
- For facilities which have an intermittent discharge from final retention impoundments when the impoundments reach holding capacity and a discharge is not foreseen in the near future, samples of the effluent currently stored in the impoundment may be used to satisfy the analytical requirements.
- For each table indicate the sample type, either composite (C) or grab (G), by checking the appropriate letter designation. Also, provide the date and time the sample was collected.

- Grab samples must be used for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, *E. coli*, and Enterococci. For all other pollutants, 24-hour composite samples must be used.

### 3. SPECIFIC TESTING REQUIREMENTS

Following is a list of conditions that determine when a particular table is required to be completed and when it is not required. Please note that the term “complete table required” means that all pollutants listed on that table are required to be tested if the table is required. The term “partial table required” means that only certain pollutants from the table (as determined by the instructions) will be required to be tested if the table is required.

#### TABLE 1

Completion of Table 1 **is required** for all external outfalls that discharge any wastewater other than 1) stormwater runoff only, or other than 2) stormwater commingled with any non-stormwater wastestreams (see General Definitions, page 6). Completion of Table 1 is not required for internal outfalls. Report values in milligrams per liter (mg/L) unless other units are indicated.

#### TABLE 2

Completion of Table 2 **is required** for all external outfalls that discharge any wastewater other than 1) stormwater runoff only, or other than 2) stormwater commingled with any non-stormwater wastestreams (see General Definitions, page 6). Completion of Table 2 is not required for internal outfalls. Report values in micrograms per liter (µg/L) unless other units are indicated. Note that it is quite common for laboratories to report metal concentrations in mg/L.

#### TABLE 3

Partial completion of Table 3 **is required** for all external outfalls. Completion of Table 3 is not required for internal outfalls. Report values in µg/L unless other units are indicated.

Table 3 contains a list of organic compounds included in the Texas Surface Water Quality Standards *at 30 TAC § 307.6*.

For each external outfall, provide analysis only for those pollutants that are used at the facility as a feedstock, intermediate, product, by-product, co-product, maintenance chemical or that could in any way contribute to contamination in the wastewater streams.

If **stormwater runoff** is commingled with non-process wastewater prior to discharge via an external outfall, provide analysis only for those pollutants which may be present as a result of exposure to precipitation or runoff. Please respond with “N/A” for each individual pollutant that is not analyzed under these conditions.

#### TABLE 4

Table 4 contains testing requirements for the indicator bacteria Enterococci. Not all applicants are required to test for Enterococci. Testing is required only under the conditions specified below.

##### a. *Enterococci*

Effluent testing is required for each existing or proposed outfall discharging **directly** into saltwater receiving waters (see definition of **saltwater** for further guidance) that either 1) contains domestic wastewater or 2) is expected to contain Enterococci based on processes at the facility. Answer either **yes** or **no** as to whether these conditions apply to your facility. If **yes for either or both questions**, provide the

appropriate testing results in the table provided. Report an average (geometric mean) and maximum value if more than one analytical result is available. If no, testing is not required.

**TABLE 5**

Completion of Table 5 is required for all external outfalls, but is not required for internal outfalls.

Review Table 5 and mark the appropriate column with an “X” based on whether you believe a specific constituent to be present or absent in your discharge. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility or on previous analyses of your wastewater. Also, base your decisions on materials which may be exposed to precipitation or stormwater runoff, if stormwater runoff contributions are commingled with other wastestreams. You must provide the results of at least one analysis for each constituent believed present. Report an average and maximum value if more than one analytical result is available.



# **WORKSHEETS TO THE MARINE SEAWATER DESALINATION PERMIT APPLICATION**

The following worksheets may be required to be completed and submitted with the permit application. Depending on the method of disposal, authorizations being sought, or the permitted flow from the facility, some of the following worksheets must be submitted as part of the application. Please indicate on page 1 of the Administrative Report whether the worksheet is completed and submitted with the application based on the following information.

## **WORKSHEET 1.0: RECEIVING WATER**

If the application includes the discharge of wastewater directly to surface waters in the state (e.g., to Doe Creek or to an unnamed tributary), complete and submit this worksheet.

## **WORKSHEET 1.1: STREAM PHYSICAL CHARACTERISTICS**

If the application is for a new permit application or an amendment to add a new outfall, complete and submit this worksheet.

## **WORKSHEET 1.2: IMPOUNDMENTS**

If impoundments (e.g., lagoons or ponds) are used or are planned to be used for treatment, disposal, containment, or evaporation of wastewater, complete and submit this worksheet.

## **WORKSHEET 2.0: STORMWATER RUNOFF**

If the application is for a Marine Seawater Desalination permit for outfalls with discharges consisting of stormwater runoff only or of stormwater runoff and one or more non-stormwater wastestreams (see General Definitions, page 6), complete and submit this worksheet.

## **WORKSHEET 3.0: RADIOACTIVE MATERIALS**

If the application is for an individual Marine Seawater Desalination permit for outfalls with discharges containing radioactive materials, complete and submit this worksheet.

# INSTRUCTIONS FOR WORKSHEET 1.0

## RECEIVING WATERS

Worksheet 1.0 **is required** for all applicants submitting a renewal, amendment, or new application for a Marine Seawater Desalination permits to discharge treated marine seawater to a surface water.

All applicants must submit USGS quadrangle maps showing the location of the facility and the discharge point(s) or the land treatment/land application area, as appropriate. If this is an application for a discharge permit, USGS quadrangle maps must be submitted that depict the discharge route for three miles from the point of discharge or until a classified segment is reached as defined in *30 TAC Chapter 307, Appendix C, Texas Surface Water Quality Standards*, whichever is first. Use highlighter (not black marker) to show the discharge route. The map(s) submitted as part of the Administrative Report 1.0 may be used for this worksheet. Copies of the original USGS quadrangle maps with the appropriate information may suffice provided that they are color copies of original quality and scale and all the features of the original map and the information provided are legible and can be clearly deciphered. The permittee should retain a copy of the information for reference in subsequent applications.

If the facility has, or is proposing, multiple points of discharge (outfalls), and the outfalls do not enter the same receiving water, attach additional sheets for each outfall. The outfalls that flow into each receiving water should be listed.

### 1. DOMESTIC DRINKING WATER SUPPLY

Answer **yes** or **no** as to whether a surface water intake for domestic drinking water supply is located within 5 miles downstream of the existing/proposed outfall(s). If **yes**, identify and label any surface water intake for domestic drinking water supply located within five miles downstream from the point/proposed point of discharge. Identify the owner, and accurately locate and label the intake point for the drinking water supply on the USGS 7.5-minute topographic map.

### 2. DISCHARGE INTO TIDALLY INFLUENCED WATERS

Items **b.** and **c.** are **yes/no** questions. The information is specific to each outfall/point of discharge. If the discharge is to tidally influenced waters, indicate the width of the receiving water at the outfall. If oyster reefs or sea grasses are located in the vicinity of the discharge, provide the distance and direction from the outfall.

### 3. CLASSIFIED SEGMENT

Indicate if the discharge is directly into (or within 300 feet of) a classified segment as defined in Appendix C of the Texas Surface Water Quality Standards (30 TAC § 307.10). The Water Quality Standards Team of the Water Quality Assessment Section can be contacted to determine if the receiving water is a classified segment.

If **yes**, stop here. You do not need to complete Items 4 and 5. It is not necessary to complete Worksheet 1.1 - Stream Physical Characteristics Worksheet.

If **no**, and the discharge goes into a watercourse such as a creek, ditch, or series of tributaries prior to flowing into a classified segment, then complete Items 4 and 5.

### 4. DESCRIPTION OF IMMEDIATE RECEIVING WATERS

Provide the name of the immediate receiving waters in the space provided. If unnamed, enter the designation which best describes the immediate receiving water body (e.g. unnamed tributary, unnamed ditch, flood control ditch, etc.).

- a. These items refer to the **immediate** receiving water (at the point the treated effluent is discharged). Check the item which best describes the first receiving water into which the discharge will flow after it leaves the outfall.

If the immediate receiving water is a lake, TCEQ permits typically require the point of discharge to the main body of the lake to be at a point not less than 10 feet below the surface (at normal elevation) and not less than 50 feet from the shoreline.

- b. If a man-made channel, ditch, or stream was checked in Item 4.a, answer Item 4.b. Check only one of the characteristics that best describes and characterizes the area upstream of the discharge point for existing dischargers. For a new permit application, check only one of the characteristics that best describes and characterizes the area downstream of the proposed discharge. Check the method used to determine the characteristic for describing the area upstream or downstream.
- c. List the names of all perennial streams that join the receiving water (discharge route) within three miles downstream of the existing or proposed point of discharge.
- d. Answer **yes** or **no** to whether the receiving water characteristics change within three miles downstream of the point of discharge. If **yes**, provide a discussion of how the characteristics change.
- e. Provide general observations of the water body during normal dry weather conditions.

## **5. GENERAL CHARACTERISTICS OF WATER BODY**

- a. Check all of the activities that influence the area upstream of the existing or proposed point of discharge. These items refer to the **immediate** receiving water (e.g., a drainage ditch, a stream, a lake, a bay, etc.). If **other** is checked, explain what the influence is in the space provided.
- b. Check all of the activities that are known or observed to occur on the water body receiving the discharge, both upstream and down. If the water body has a use that is not listed, check “other” and describe the use in the space provided.
- c. Check the description that best describes the aesthetics of the receiving water and surrounding area.

# INSTRUCTIONS FOR WORKSHEET 1.1 STREAM PHYSICAL CHARACTERISTICS

Worksheet 1.1 **is required** for the following types of permit applications.

- New permit applications
- Amendment applications requesting to add a new outfall

Worksheet 1.1 **is not required** for Marine Seawater Desalination permit applications applying for individual permit coverage for discharges of stormwater runoff only.

Worksheet 1.1 **is required** for the following types of streams as identified in Worksheet 1.0, Item 4.b.

- Perennial
- Intermittent with persistent (perennial) pools

Worksheet 1.1 **is not required** if the discharge is:

- directly to a classified segment as defined in Appendix C of the Texas Surface Water Quality Standards (30 TAC § 307.10)
- directly to an intermittent stream

**Note: Even if the information required in this section has been provided in a previous application, please resubmit the information.**

Questions on conducting a stream assessment or completing this worksheet should be directed to the Water Quality Standards Implementation Team of the Water Quality Assessment Section.

Provide the date and time the data was collected for the worksheet. Provide the stream name. If the stream is unnamed, enter “unnamed tributary of <downstream creek>” or “unnamed ditch”. If the stream is a ditch controlled by a flood control district and has a designation, enter that designation. Provide the general location where the data was collected. For example, “100 meters upstream to 0.5 mile downstream of the discharge point,” “upstream of Highway 345 road crossing.” **Conduct the physical assessment downstream of a proposed outfall and upstream of an existing outfall.**

## 1. DATA COLLECTION

Item 1 is divided into two portions. The upper portion of Item 1 is for general information and observations made over the entire reach, while the lower or boxed portions are for measurements and observations made at specific transect locations.

Transect measurements are usually made beginning at the point of discharge (outfall) and continuing downstream. Once these are completed, the general observations are made over the reach while returning to the point of discharge.

General observations: Observe or measure stream widths at a minimum of four and a maximum of ten equally spaced locations over a 0.5-mile reach. The number of transects depends upon width variability. At each point where width measurements are made, also measure the water depth at four to ten points across the transect. Include transects within each habitat type (pool, riffle, run, or glide) if they exist. If pools are present, include measurements across the deepest area to determine the maximum pool depth within the reach. Show the locations of the transects on the USGS map and the proposed point of discharge.

Characterize each transect site as riffle, run, glide or pool. For a definition of each, see the General Definitions section of these Instructions.

After finishing the transect measurements, complete the general observation portion of the worksheet. Count the number of stream bends and determine their definition (well, moderate, poor - see General Definitions section of these Instructions). Count the number of riffles and estimate the magnitude of flow fluctuations. Look for evidence of debris in bank trees or its position on stream banks (upper, middle, lower). Another indication of flow fluctuations is how well stream flow covers the channel. If water has receded from banks exposing bottom substrates, fluctuations may be severe. The best source of evidence is historical USGS stream flow records, if available. Indicate observed channel obstructions (fences, log jams, culverts, low water bridges, beaver dams, etc.) and channel modifications (channelized, cleared, leveed, concrete lined, rip-rapping, etc.).

## 2. SUMMARIZE MEASUREMENTS

Calculate the stream bed slope over the entire reach assessed. This information can be determined from USGS maps by measuring the drop in elevation over the reach assessed and dividing by the total length of the reach assessed (feet/foot).

From the USGS or county map, approximated the drainage area above the most downstream transect.

Provide the length in feet of the stream reach assessed.

Enter the total number of transects made across the stream.

Enter the average stream width in feet by averaging all transect stream widths.

Enter the average stream depth in feet by averaging all transect stream depths recorded.

Measure the stream velocity in cubic feet per second at an appropriate point in the reach assessed. This should be done when the transects are made. Include the type of flow meter used, or the type of method, such as floating chip times over a fixed distance, etc. **Note: It is very important to identify the flow measurement method.**

Provide the flow fluctuations over the reach. See general observations made in Item 1.

Enter the size of any pools present (large, moderate, small, or none).

Enter the maximum pool depth.

Enter the total number of all stream bends.

Enter the total number of well-defined stream bends.

Enter the total number of moderately-defined stream bends.

Enter the total number of poorly-defined stream bends.

Enter the number of riffles in the reach assessed.

# INSTRUCTIONS FOR WORKSHEET 1.2

## IMPOUNDMENTS

Worksheet 1.2 is required if impoundments (e.g., lagoons or ponds) are used or are planned to be used for treatment, disposal, containment, or evaporation of wastewater.

Complete **Item a** for **existing** impoundments and **Items a – g** for **new or proposed** impoundments.

For permit applications with more impoundments than spaces provided, copies of page 4 may be used to provide the appropriate information on the additional outfalls and numbered accordingly (i.e., page 4a, 4b, etc.).

**Please Note:** Surface impoundments may also require additional authorizations from the TCEQ Waste Permits Division.

a. Provide the following information for each existing impoundment:

**Use Designation:** Indicate the appropriate use designation for each existing or proposed impoundment by designating “T” for treatment, “D” for disposal, “C” for containment, or “E” for evaporation.

**Associated Outfall Number:** If discharge occurs from the impoundment(s), provide a response to this item by designating the outfall associated with each impoundment. If there are multiple impoundments contributing to an individual outfall, indicate the same outfall for the respective ponds. Indicate “N/A” if there are no discharges associated with any of the impoundments.

**Liner Information:** Review the following liner types and specifications.

**Compacted Clay Liner:** The soil liner shall contain at least 3 feet, along the sides and bottom, of clay-rich soil material compacted in lifts of no more than 9 inches, to 95% standard proctor density at the optimum moisture content to achieve a permeability equal to or less than  $1 \times 10^{-7}$  cm/sec.

**In-Situ Clay Liner:** The soil liner shall contain at least 3 feet, along the sides and bottom, of clay-rich soil material having more than 30% passing a 200-mesh sieve, liquid limit greater than or equal to 30%, and a plasticity index greater than or equal to 15, to achieve a permeability equal to or less than  $1 \times 10^{-7}$  cm/sec.

**Synthetic/Plastic/Rubber Liner:** The liner shall be either a plastic or rubber membrane liner at least 40 mils in thickness which completely covers the sides and the bottom of the pond and which is not subject to degradation due to reaction with wastewater with which it will come into contact. If this lining material is vulnerable to ozone or ultraviolet deterioration it should be covered with a protective layer of soil of at least 6 inches. A leak detection and leak collection system is also required.

If the impoundments are lined to comply with the liner specifications outlined above, indicate so by providing one of the following letter designations for the appropriate liner type: 1) compacted clay liner (C), 2) in-situ clay liner (I), or 3) synthetic/plastic/rubber liner (S). All new impoundments shall meet the requirements of one of the specified liner types. If the existing pond liner does not meet these specifications, provide a reference to the attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

**Dimensions:** Provide the following information regarding the dimensions of the impoundments using units indicated for each:

- length

- width
- depth from water surface at maximum capacity—excluding two (2) feet of freeboard for all proposed impoundments and excluding the amount of freeboard required for all existing impoundments.
- average depth from natural ground level—should not include bermed or elevated portions of the impoundments.
- maximum depth from natural ground level—should not include bermed or elevated portions of the impoundments.
- depth of freeboard—for existing impoundments, indicate the required freeboard; for proposed impoundments, indicate the design freeboard.
- compliance with 40 CFR Chapter 257, Subchapter D, indicate by checking **yes** or **no** if compliance is required

For impoundments with irregular shapes, provide surface area (instead of length and width), the average depth, and the maximum depth below natural ground level.

**Items b through g are required only for new or proposed impoundments.**

- b. Submit any available data on the following items and provide a reference to the attachment in the space provided.
1. For impoundments using a compacted clay liner: liner permeability, liner thickness, test results on liner compatibility with appropriate wastes, test results from clay borrow source, test results from liner construction, etc.
  2. For impoundments using in-situ soils as the liner: soils boring information, the depth of impermeable clay soils, test results on soil permeability, procedures for compaction of top layer of in-situ soil, etc.
  3. For impoundments using a synthetic liner: liner material, liner thickness, test results on liner compatibility with appropriate wastes, test results from installation, documentation of the leak detection and leachate collection system, etc.

- c. If any leak detection systems or groundwater monitoring wells are in place or are planned, check **yes**. Otherwise, check **no**.

If **yes**, describe in a separate attachment the leak detection system for each pond or attach any available groundwater monitoring well data. Provide a reference to the attachment in the space provided. All groundwater monitoring wells must be numbered and accurately located on a map submitted with the application.

Existing groundwater monitoring data should be summarized and evaluated to determine whether there is a statistically significant trend in concentrations or a statistically significant difference compared with background. The groundwater monitoring summary should also include information on the monitoring wells such as the driller's logs, well completion data, groundwater elevations, sampling procedures, etc.

- d. If the bottom of the pond is above the seasonal high water table in the shallowest water bearing zone, check **yes**. Otherwise, check **no**.

If **no**, provide additional information as an attachment describing the depth of the seasonal high water in the shallowest water bearing zone in relation to the depth of the bottom of the new or proposed impoundment and how this may or may not impact groundwater. Provide the attachment number in the space provided.

- e. On a USGS quadrangle map, accurately locate and identify water supply wells and monitor wells within a 1/2-mile radius of the impoundments and attach to the application. Copies of the original USGS quadrangle maps with the appropriate information may suffice provided that they are color copies of original quality and scale and all the features of the original map and the information required by this item are legible and can be clearly deciphered. Provide the attachment number in the space provided.
- f. The well locations may also be provided in the map required in Item 9.b of the Administrative Report. Attach copies of State Water Well Reports (driller's logs, completion data) and data on depths to groundwater for water supply wells and monitor wells, including a description of how the depths to groundwater were obtained, and provide the attachment number in the space provided. Well reports may be obtained by accessing the [Texas Water Development Board \(TWDB\) Water Information Integration and Dissemination \(WIID\)](http://wiid.twdb.state.tx.us/) website at <http://wiid.twdb.state.tx.us/>. This website stores water well and groundwater information from TWDB, Texas Department of Licensing and Registration, and TCEQ records files.
- g. Attach information pertaining to the groundwater, soils, geology, etc. that has been or can be used to assess the potential for migration of wastes from the impoundments and the potential for contamination of groundwater or surface water, and provide the attachment number in the space provided. Additional data may include logs and location plats of borings, soil analyses, water quality data, etc.



# INSTRUCTIONS FOR WORKSHEET 2.0

## STORMWATER RUNOFF

Worksheet 2.0 **is required** for all Marine Seawater Desalination permit applications for individual permit coverage for discharges of stormwater runoff.

Discharges of stormwater associated with industrial activities, as defined in 40 CFR § 122.26 (b)(14)(i-xi), must be authorized under a Marine Seawater Desalination permit. Authorization may be obtained by either applying for coverage under a general TPDES permit (sometimes referred to as the Multi-Sector General Permit, or MSGP) or under an individual Marine Seawater Desalination permit.

### 1. APPLICABILITY

Answer either **yes** or **no** regarding whether discharges from any of the proposed or existing outfalls consist either 1) solely of stormwater runoff or 2) solely of stormwater runoff and one or more of the non-stormwater wastestreams listed below. These are wastestreams that are listed in the MSGP (TXR050000), Part II, Section A, Item 6.

- discharges from emergency firefighting activities and uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- potable water sources (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- lawn watering and similar irrigation drainage, provided that all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- water from the routine external washing of buildings, conducted without the use of detergents or other chemicals;
- water from the routine washing of pavement conducted without the use of detergents or other chemicals and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed);
- uncontaminated air conditioner condensate, compressor condensate, and steam condensate, and condensate from the outside storage of refrigerated gases or liquids;
- water from foundation or footing drains where flows are not contaminated with pollutants (e.g., process materials, solvents, and other pollutants);
- uncontaminated water used for dust suppression;
- springs and other uncontaminated groundwater;
- incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but excluding intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains); and
- other discharges described in Part V of TXR050000 that are subject to effluent guidelines and effluent limitations.

If **yes**, proceed as directed. If **no**, stop here.

## 2. STORMWATER OUTFALL COVERAGE

List each stormwater runoff outfall and indicate whether authorization for discharge is covered under the MSGP (TPDES general permit) or if authorization is covered under an individual Marine Seawater Desalination permit. If all existing or proposed stormwater outfalls are covered under the MSGP, **no further information is required**. If you have indicated that you are seeking authorization under an individual permit, proceed as directed.

**The following information is required for each outfall that discharges stormwater and for which you are seeking individual permit authorization under this application.**

## 3. SITE MAP

Provide a site map or maps (drawn to scale) of the entire facility that includes the following information:

- the location of each stormwater outfall to be covered by the permit;
- an outline of the drainage area that is within the facility's boundary and that contributes stormwater to each outfall to be covered by the permit;
- connections or discharge points to municipal separate storm sewer systems;
- locations of all structures (e.g. buildings, garages, storage tanks);
- structural control devices that are designed to reduce pollution in stormwater runoff;
- process wastewater treatment units (including ponds);
- bag house and other air treatment units exposed to precipitation or runoff;
- landfills, scrapyards, and surface water bodies (including wetlands);
- vehicle and equipment maintenance areas;
- physical features of the site that may influence stormwater runoff or contribute a dry weather flow;
- locations where spills or leaks of reportable quantity (as defined in 30 TAC § 327.4) have occurred during the three years before this application was submitted to obtain coverage under an individual permit; and
- processing areas, storage areas, material loading/unloading areas, and other locations where significant materials are exposed to precipitation or runoff.

Indicate by a check mark that all of the above information was provided on a facility site map(s). The site map must clearly show the flow of stormwater runoff from each of these locations so that the final outfall where the discharge leaves the facility's boundary is apparent. A series of maps must be developed where the amount of information would cause a single map to be difficult to read and interpret.

## 4. FACILITY/SITE INFORMATION

- a. Provide the area of impervious surface and the total area drained by each outfall that discharges stormwater for which you are seeking individual authorization under this permit application. Include the units used.
- b. Provide the following local area rainfall information and the source of the information: 1) the wettest month of the year (e.g., January, February, etc.); 2) the average total rainfall in inches in the wettest month of the year; 3) and the 25-year, 24-hour rainfall amount in inches.
- c. Provide an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation in the space provided.

- d. Provide narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff. The description should include, for example, the following types of areas and reference the locations where these activities occur so that the locations are apparent when referencing the required site map.
- loading and unloading areas (including areas where chemicals and other materials are transferred)
  - outdoor storage areas
  - outdoor processing areas
  - dust producing activities
  - onsite waste disposal areas
  - vehicle/equipment maintenance, cleaning, and fueling areas
  - liquid storage tank areas
  - railroad sidings, tracks, and rail cars
- e. Provide a description of any best management practices and controls that you are using to prevent or effectively reduce pollution in stormwater discharges from the facility in the space provided.

## 5. POLLUTANT ANALYSIS

If you have not already done so, be sure to sign the laboratory certification statement on the first page of Technical Report 2.0.

Tables 1 and 2 must be completed for each outfall that discharges stormwater runoff associated with industrial activities (discharges may also include any of the non-stormwater discharges from the list in Section 1 of this worksheet) that is not authorized by the MSGP. The discharge must be sampled and analyzed for all of the specified pollutants at least once by either 1) a grab sample during the first 30 minutes or 2) a flow-weighted composite sample if equipment is available for compositing by flow.

- a. **Table 1:** Include results for all pollutants listed in the table.
- b. **Table 2:** Include results for pollutants as specified below. **Do not include pollutants listed previously in Table 1.**
1. Include each pollutant that is limited in an EPA categorical effluent guideline to which the facility is subject (*40 CFR Parts 400 - 471*) except those for which the monitoring frequency is less than once per month.
  2. Include each pollutant that is limited for process wastewater in an existing Marine Seawater Desalination permit for the facility except those for which the monitoring frequency is less than once per month.
  3. Include each pollutant from **Technical Report 2.0, Tables 3 and 4** that is used at the facility as a feedstock, intermediate, product, co-product, by-product, or maintenance chemical or that could in any way contribute to contamination of stormwater runoff.

4. Include each pollutant from **Technical Report, Table 5** (Instructions, pages 56-61) that you know or have reason to believe is present in outfalls containing only stormwater runoff.
- c. For pollutants listed from **Table 5**, either report quantitative data from the analysis of a grab sample or a flow-weighted composite sample or briefly describe the reasons the pollutant is expected to be discharged.
- d. Review the following table to find the SIC codes or codes that applies to each outfall discharging stormwater. If your facility is subject to any of the following SIC Codes, you must include the required analyses in Table 18.

**Table 3: SIC Codes**

<b>SIC Code or Major Group</b>	<b>Industrial Activity Description</b>	<b>Required Analyses</b>
24xx (except 2434)	Lumber and wood products (except wood kitchen cabinets)	n/a
26xx (except 265x, 267x)	Paper and allied products (except paperboard containers and products)	Chemical oxygen demand
28xx (except 283x, 285x)	Chemicals and allied products (except drugs and paints)	Phosphorous Nitrate-nitrite Iron Aluminum
29xx	Petroleum refining industries	n/a
311x	Leather tanning and finishing	n/a
32xx (except 323x), 33xx	Stone/clay/glass and concrete products (except glass products made of purchased glass); Primary metal industries	Aluminum Iron
3441, 373x	Fabricated structural metals; Ship and boat building and repairing	n/a
10xx	Metal mining	Nitrate-nitrite Turbidity Hardness (as CaCO <sub>3</sub> ) Antimony
12xx	Coal mining	Aluminum Iron
13xx	Oil and gas extraction	n/a
14xx	Nonmetallic minerals	Nitrate-nitrite
HZ	Hazardous waste treatment, storage, or disposal facilities	Aluminum Magnesium Cyanide
LF	Landfills, land application sites, or open dumps that receive or have received industrial waste	Iron
5015	Motor vehicles parts, used	Aluminum Iron
5093	Scrap and waste materials	Aluminum Iron
SE	Steam electric power generating facilities, including coal handling sites	Iron

<b>SIC Code or Major Group</b>	<b>Industrial Activity Description</b>	<b>Required Analyses</b>
40xx, 41xx, 42xx (except 4221-4225), 43xx, 5171	Certain transportation facilities	n/a
44xx	Water transportation	Aluminum Iron
45xx	Transportation by air	BOD5 Ammonia
TW; 20xx-23xx, 2434, 25xx, 265x, 267x, 27xx, 283x, 285x, 30xx, 31xx (except 311x), 323x, 35xx, 36xx, 37xx (except 373x), 38xx, 39xx, 4221-4225	Treatment works treating domestic sewage or other sewage sludge or wastewater treatment device or system, related to municipal or domestic sewage; certain light industry	n/a
34xx (except 3441)	Fabricated metal products (except fabricated structural metal)	Iron Aluminum Nitrate-nitrite

## 6. STORM EVENT DATA

Please provide the following data in the spaces provided for the storm event(s) which resulted in the maximum values for the analytical data submitted:

- Date of storm event
- Duration of storm event (minutes)
- Total rainfall during storm event (inches)
- Number of hours between beginning of storm measured and end of previous measurable rain event
- Maximum flow rate during rain event (gallons/minute)
- Total stormwater flow from rain event (gallons)
- Description of the method of flow measurement or estimate.

# INSTRUCTIONS FOR INDUSTRIAL WORKSHEET 3.0

## RADIOACTIVE MATERIALS

Worksheet 3.0 **is required** for all Marine Seawater Desalination permit applications that meet the conditions as outlined in Technical Report 1.0, Item 8.

Radioactive materials shall not be discharged in excess of the amount regulated by 30 TAC Chapter 336 (Radioactive Substance Rules) in accordance with 30 TAC § 7.118 (Memorandum of Understanding between the Texas Department of Health and the Texas Commission on Environmental Quality Regarding Radiation Control Functions).

- a. If radioactive materials are mined, used, stored, or processed at this facility, check **yes**. Otherwise, check **no**.

If **yes**, list the radioactive materials and provide the results of at least one analysis of your effluent in picoCuries per liter (pCi/L) for all radioactive parameters which may be present. (This requirement is not applicable to radioactive materials fixed in a device or instrument.) If this application is for a new facility, submit results from similar facilities, treatability studies, or literature sources.

- b. If you have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property, check **yes**. Otherwise, check **no**.

If **yes**, list the radioactive materials and provide the results of at least one analysis of your effluent in picoCuries per liter (pCi/L) for all radioactive parameters which may be present. (This requirement is not applicable to radioactive materials fixed in a device or instrument.) If this application is for a new facility, submit results from similar facilities, treatability studies, or literature sources. Do not include information provided in response to Item a.

# APPENDIX 1 – EXAMPLE – FLOW DIAGRAM

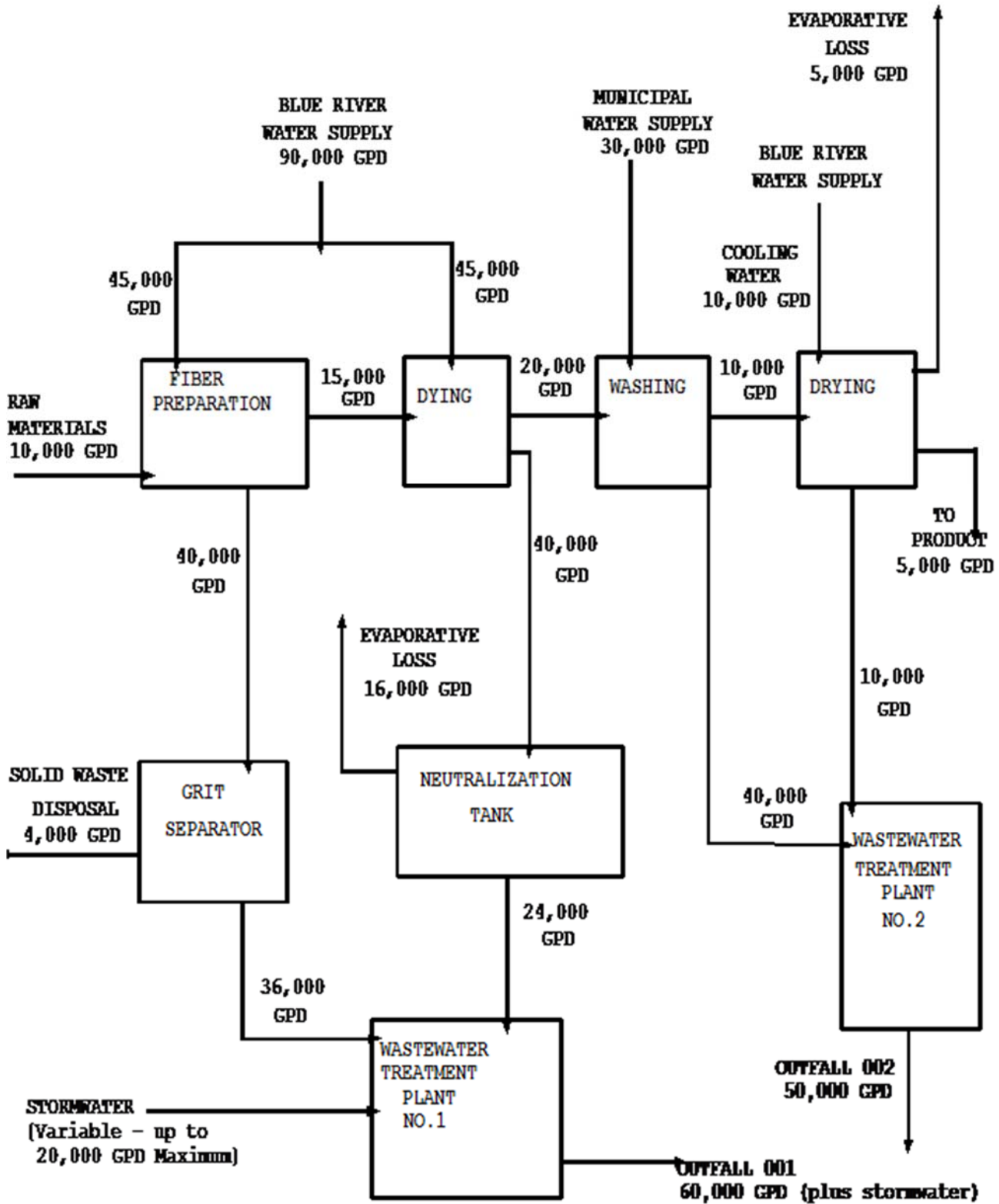


Figure 1: Example - Flow Diagram

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