Texas Commission on Environmental Quality
Attn: Bert Galvan
P.O. Box 13087 (MC160)
Austin, Texas, 78711

Subject: TCEQ Water Rights Permitting Application
Port of Corpus Christi Authority of Nueces County (CN:600885248)
Please list Regulated Entity - RN Number here also
Proposed Desalination Plant, La Quinta

Dear Mr. Galvan,

The Port of Corpus Christi Authority of Nueces County (PCCA) is requesting a Water Rights Permit from the Texas Commission on Environmental Quality for a proposed desalination plant at the above location.

The proposed system will provide up to 30 million gallons per day (MGD) of industrial water through the process of desalination. The proposed facility will have a seawater Design Intake Flow (DIF) of 90.4 MGD from the Corpus Christi Bay. This project would provide the Coastal Bend Region with approximately 30 MGD of water for industrial supply use that will support future industrial needs.

The purpose of this project is to provide a sustainable water source that is not dependent on freshwater sources for industry along the Corpus Christi Ship Channel. Please find enclosed a water rights permit application with all required attachments.

If you have questions, please contact me at (361) 885-6163 or by email at sarah@pocca.com.

Sincerely,

Sarah Garza
Director of Environmental Planning & Compliance

Enclosure

cc: Sean Strawbridge
    Clark Roberson
    Yvonne Dives-Gomez
Texas Commission on Environmental Quality
TCEQ Water Rights Permitting Application
Port of Corpus Christi Authority of Nueces County
Proposed Desalination Plant
La Quinta

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5. Water Conservation Plan(s)
6. Copy of Check
Complete and submit this checklist for each application. See Instructions Page 5.

**APPLICANT(S):** Port of Corpus Christi Authority of Nueces County

Indicate whether the following items are included in your application by writing either Y (for yes) or N (for no) next to each item (all items are not required for every application).

<table>
<thead>
<tr>
<th>Y/N</th>
<th>Item Description</th>
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<td>Y/N</td>
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<td>Consent For Diversion Access</td>
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<td>N</td>
<td>24-hour Pump Test</td>
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<td>N</td>
<td>Groundwater Well Permit</td>
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<td>N</td>
<td>Signed Water Supply Contract</td>
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<td>Y/N</td>
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<td>Water Conservation Plan(s) - Attachment 5</td>
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<td>Drought Contingency Plan(s)</td>
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<td>Documentation of Adoption</td>
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<td>Worksheet 8.0</td>
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<td>Fees - Attachment 6</td>
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</table>

For Commission Use Only:
Proposed/Current Water Right Number: __________
Basin: ________________ Watermaster area Y/N: __________
The following information is required for all new applications and amendments.

***Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Staff to discuss Applicant's needs prior to submitting an application. Call the Water Rights Permitting Team to schedule a meeting at (512) 239-4691.

1. **TYPE OF APPLICATION (Instructions, Page. 6)**

Indicate, by marking X, next to the following authorizations you are seeking.

- [X] New Appropriation of State Water
- ___ Amendment to a Water Right *
- ___ Bed and Banks

*If you are seeking an amendment to an existing water rights authorization, you must be the owner of record of the authorization. If the name of the Applicant in Section 2, does not match the name of the current owner(s) of record for the permit or certificate or if any of the co-owners is not included as an applicant in this amendment request, your application could be returned. If you or a co-applicant are a new owner, but ownership is not reflected in the records of the TCEQ, submit a change of ownership request (Form TCEQ-10204) prior to submitting the application for an amendment. See Instructions page. 6. Please note that an amendment application may be returned, and the Applicant may resubmit once the change of ownership is complete.

Please summarize the authorizations or amendments you are seeking in the space below or attach a narrative description entitled “Summary of Request.”

The Port of Corpus Christi of Nueces County is seeking water rights to supply the process water for a 90.4 million gallon per day (mgd) desalination plant located in Corpus Christi, TX in San Patricio County.
2. **APPLICANT INFORMATION (Instructions, Page. 6)**

**a. Applicant**

Indicate the number of Applicants/Co-Applicants _1_
(Include a copy of this section for each Co-Applicant, if any)

What is the Full Legal Name of the individual or entity (applicant) applying for this permit?

*Port of Corpus Christi Authority Of Nueces County*

*(If the Applicant is an entity, the legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)*

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?


CN: 600885248 (leave blank if you do not yet have a CN).

What is the name and title of the person or persons signing the application? Unless an application is signed by an individual applicant, the person or persons must submit written evidence that they meet the signatory requirements in 30 TAC § 295.14.

First/Last Name: Sean Strawbridge  
Title: Chief Executive Officer

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application?

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at [https://tools.usps.com/go/ZipLookupAction!Input.action](https://tools.usps.com/go/ZipLookupAction!Input.action)

Name: Port of Corpus Christi Authority Of Nueces County  
Mailing Address: P.O. Box 1541  
City: Corpus Christi  
State: Texas  
ZIP Code: 78403

Indicate an X next to the type of Applicant:

- [ ] Individual  
- [ ] Partnership  
- [ ] Trust  
- [ ] Federal Government  
- [ ] County Government  
- [ ] Other Government

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number: N/A  
SOS Charter (filing) Number: N/A
3. APPLICATION CONTACT INFORMATION (Instructions, Page. 9)

If the TCEQ needs additional information during the review of the application, who should be contacted? Applicant may submit their own contact information if Applicant wishes to be the point of contact.

First and Last Name: Sarah L. Garza
Title: Dir. Env. Planning & Comp
Organization Name: Port of Corpus Christi Auth.
Mailing Address: P.O. Box 1541
City: Corpus Christi State: Texas ZIP Code: 78403
Phone No.: 361-885-6163 Extension: N/A
Fax No.: 361-881-5161 E-mail Address: sarah@pocca.com
4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION
(Instructions, Page. 9)

This section applies only if there are multiple Owners of the same authorization. Unless otherwise requested, Co-Owners will each receive future correspondence from the Commission regarding this water right (after a permit has been issued), such as notices and water use reports. Multiple copies will be sent to the same address if Co-Owners share the same address. Complete this section if there will be multiple owners and all owners agree to let one owner receive correspondence from the Commission. Leave this section blank if you would like all future notices to be sent to the address of each of the applicants listed in section 2 above.

I/We authorize all future notices be received on my/our behalf at the following:

First and Last Name: N/A
Title: N/A
Organization Name: N/A
Mailing Address: N/A
City: N/A State: N/A ZIP Code: N/A
Phone No.: N/A Extension: N/A
Fax No.: N/A E-mail Address: N/A
5. MISCELLANEOUS INFORMATION (Instructions, Page. 9)

a. The application will not be processed unless all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol by all applicants/co-applicants. If you need assistance determining whether you owe delinquent penalties or fees, please call the Water Rights Permitting Team at (512) 239-4691, prior to submitting your application.

1. Does Applicant or Co-Applicant owe any fees to the TCEQ? Yes / No  No

   If yes, provide the following information:
   Account number: N/A  Amount past due: N/A

2. Does Applicant or Co-Applicant owe any penalties to the TCEQ? Yes / No  No

   If yes, please provide the following information:
   Enforcement order number: N/A  Amount past due: N/A

b. If the Applicant is a taxable entity (corporation or limited partnership), the Applicant must be in good standing with the Comptroller or the right of the entity to transact business in the State may be forfeited. See Texas Tax Code, Subchapter F. Applicant's may check their status with the Comptroller at https://mycpa.cpa.state.tx.us/coa/

   Is the Applicant or Co-Applicant in good standing with the Comptroller? Yes / No  Yes

c. The commission will not grant an application for a water right unless the applicant has submitted all Texas Water Development Board (TWDB) surveys of groundwater and surface water use - if required. See TWC §16.012(m) and 30 TAC § 297.41(a)(5).

   Applicant has submitted all required TWDB surveys of groundwater and surface water? Yes / No  No
ATTACHMENT 1

Written Evidence of Signature Authority
Applicant:

I, Sean Strawbridge, Chief Executive Officer

(Type or printed name) (Title)

Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Attachment 1 - Signatory Requirements Evidence

I further certify that I am authorized under Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: [Signature]

(Date)

(Use blue ink)

Subscribed and sworn to before me by the said Seao Sraewbridg on this [28th] day of [August], 2019.

My commission expires on the [1st] day of [October], 2022.

[SEAL]

Leslye Cavazos
Notary Public, State of Texas
Comm. Expires 10-01-2022
Notary ID 129900160

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page
For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

### SECTION I: General Information

1. **Reason for Submission** (If other is checked please describe in space provided.)
   - [X] New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)
   - [ ] Renewal (Core Data Form should be submitted with the renewal form)
   - [ ] Other

2. **Customer Reference Number (if issued)**
   - CN 600885248

3. **Regulated Entity Reference Number (if issued)**
   - RN 102887460

### SECTION II: Customer Information

4. **General Customer Information**
   - New Customer
   - Update to Customer Information
   - Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

5. **Effective Date for Customer Information Updates (mm/dd/yyyy)** 4/13/2018

6. **Customer Legal Name (If an individual, print last name first: e.g.: Doe, John)**
   - Port Of Corpus Christi Authority Of Nueces County

7. **TX SOS/CPA Filing Number**
   - NA

8. **TX State Tax ID (11 digits)**
   - 74-6000609

9. **Federal Tax ID (9 digits)**
   - 063069835

10. **DUNS Number (if applicable)**
    - NA

11. **Type of Customer:**
    - [ ] Corporation
    - [ ] Individual
    - Partnership:
      - [ ] General
      - [ ] Limited
    - [ ] Other

12. **Number of Employees**
    - [ ] 0-20
    - [ ] 21-100
    - [X] 101-250
    - [ ] 251-500
    - [ ] 501 and higher

13. **Independently Owned and Operated?**
    - [X] Yes
    - [ ] No

14. **Customer Role (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check one of the following:**
    - [ ] Owner
    - [ ] Operator
    - [X] Owner & Operator
    - [ ] Responsible Party
    - [ ] Voluntary Cleanup Applicant
    - [ ] Other

15. **Mailing Address:**
    - P.O. Box 1541
    - City Corpus Christi
    - State TX
    - ZIP 78403
    - ZIP + 4

16. **Country Mailing Information (if outside USA)**

17. **E-Mail Address (if applicable)**
    - sarah@pocca.com

18. **Telephone Number**
    - (361) 885-6163

19. **Extension or Code**

20. **Fax Number (if applicable)**
    - ( )

### SECTION III: Regulated Entity Information

21. **General Regulated Entity Information** (If "New Regulated Entity" is selected below this form should be accompanied by a permit application)
    - [ ] New Regulated Entity
    - [ ] Update to Regulated Entity Name
    - [X] Update to Regulated Entity Information

22. **Regulated Entity Name (Enter name of the site where the regulated action is taking place.)**
    - La Quinta Property
23. Street Address of the Regulated Entity: (No PO Boxes)  
City | State | ZIP | ZIP + 4

24. County

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location: South of SH 181 and 361 on the north shore of Corpus Christi Bay between Portland, TX and Sherwin Alumina Co.

Portland | TX | 78374

27. Latitude (N) In Decimal: 27.883189  
Degrees | Minutes | Seconds  
27 | 52 | 59.48
28. Longitude (W) In Decimal: 97.277647  
Degrees | Minutes | Seconds  
97 | 27 | 76.47

29. Primary SIC Code (4 digits)  
31. Primary NAICS Code
4491

32. Secondary SIC Code (4 digits)  
33. Primary NAICS Code (5 or 6 digits)

30. Secondary SIC Code (4 digits)  
34. Secondary NAICS Code (5 or 6 digits)

35. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) Loading and Unloading Cargo from and to Vessels, Rail, and Trucks.

36. Mailing Address: P.O. Box 1541  
City | Corpus Christi | State | TX | ZIP | ZIP + 4  
78403

37. Extension or Code
38. Fax Number (if applicable)  
(361) 885 - 6163 (361) 881 - 5161

39. TCEQ Programs and ID Numbers Check all Programs and write in the permit/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety  
☐ Districts  
☐ Edwards Aquifer  
☐ Emissions Inventory Air  
☐ Industrial Hazardous Waste

☐ Municipal Solid Waste  
☐ New Source Review Air  
☐ OSSF  
☐ Petroleum Storage Tank  
☐ PWS

☐ Sludge  
☐ Storm Water  
☐ Title V Air  
☐ Tires  
☐ Used Oil

☐ Voluntary Cleanup  
☐ Waste Water  
☐ Wastewater Agriculture  
☐ Water Rights  
☐ Other: New Permit Application

SECTION IV: Preparer Information

40. Name: Sarah Garza  
41. Title: Director Environmental Planning

42. Telephone Number  
43. Ext./Code  
44. Fax Number  
45. E-Mail Address
(361) 885 - 6163 (361) 881 - 5161 sarah@pocca.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company: Port Of Corpus Christi Authority Of Nueces County  
Job Title: Executive Director

Name(In Pntf): Sean Strawbridge  
Phone: (861) 882-5633

Signature: Date: 8-28-19

TCEQ-10400 (04/15)
TECHNICAL INFORMATION REPORT
WATER RIGHTS PERMITTING

This Report is required for applications for new or amended water rights. Based on the Applicant's responses below, Applicants are directed to submit additional Worksheets (provided herein). A completed Administrative Information Report is also required for each application.

Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Permitting Staff to discuss Applicant's needs and to confirm information necessary for an application prior to submitting such application. Please call Water Availability Division at (512) 239-4691 to schedule a meeting. Applicant attended a pre-application meeting with TCEQ Staff for this Application? Y / N \(\text{Y}^{\text{N}}\) (If yes, date: ________________).

I. New or Additional Appropriations of State Water. Texas Water Code (TWC) § 11.121 (Instructions, Page. 12)

State Water is: The water of the ordinary flow, underflow, and tides of every flowing river, natural stream, and lake, and of every bay or arm of the Gulf of Mexico, and the storm water, floodwater, and rainwater of every river, natural stream, canyon, ravine, depression, and watershed in the state. TWC § 11.021.

a. Applicant requests a new appropriation (diversion or impoundment) of State Water? Y / N \(\text{Y}^{\text{Y}}\)

b. Applicant requests an amendment to an existing water right requesting an increase in the appropriation of State Water or an increase of the overall or maximum combined diversion rate? Y / N \(\text{Y}^{\text{N}}\) (If yes, indicate the Certificate or Permit number: N/A)

If Applicant answered yes to (a) or (b) above, does Applicant also wish to be considered for a term permit pursuant to TWC § 11.1381? Y / N \(\text{N}^{\text{Y}}\)

c. Applicant requests to extend an existing Term authorization or to make the right permanent? Y / N \(\text{N}^{\text{N}}\) (If yes, indicate the Term Certificate or Permit number: N/A)

If Applicant answered yes to (a), (b) or (c), the following worksheets and documents are required:
- Worksheet 1.0 – Quantity, Purpose, and Place of Use Information Worksheet
- Worksheet 2.0 - Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir requested in the application)
- Worksheet 3.0 - Diversion Point Information Worksheet (submit one worksheet for each diversion point and/or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach requested in the application)
- Worksheet 5.0 – Environmental Information Worksheet
- Worksheet 6.0 – Water Conservation Information Worksheet
- Worksheet 7.0 – Accounting Plan Information Worksheet
- Worksheet 8.0 – Calculation of Fees
- Fees calculated on Worksheet 8.0 – see instructions Page. 34.
- Maps – See instructions Page. 15.
- Photographs - See instructions Page. 30.

Additionally, if Applicant wishes to submit an alternate source of water for the project/authorization, see Section 3, Page 3 for Bed and Banks Authorizations (Alternate sources may include groundwater, imported water, contract water or other sources).

Additional Documents and Worksheets may be required (see within).
2. **Amendments to Water Rights. TWC § 11.122 (Instructions, Page. 12)**

This section should be completed if Applicant owns an existing water right and Applicant requests to amend the water right. **If Applicant is not currently the Owner of Record in the TCEQ Records, Applicant must submit a Change of Ownership Application (TCEQ-10204) prior to submitting the amendment Application or provide consent from the current owner to make the requested amendment.** See instructions page. 6.

Water Right (Certificate or Permit) number you are requesting to amend: **N/A**

Applicant requests to sever and combine existing water rights from one or more Permits or Certificates into another Permit or Certificate? **Y / N N** (if yes, complete chart below):

<table>
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<tr>
<th>List of water rights to sever</th>
<th>Combine into this ONE water right</th>
</tr>
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<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
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</tbody>
</table>

a. Applicant requests an amendment to an existing water right to increase the amount of the appropriation of State Water (diversion and/or impoundment)? **Y / N N**

*If yes, application is a new appropriation for the increased amount, complete Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.*

b. Applicant requests to amend existing Term authorization to extend the term or make the water right permanent (remove conditions restricting water right to a term of years)? **Y / N N**

*If yes, application is a new appropriation for the entire amount, complete Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.*

c. Applicant requests an amendment to change the purpose or place of use or to add an additional purpose or place of use to an existing Permit or Certificate? **Y / N N**

*If yes, submit:*
  - Worksheet 1.0 - Quantity, Purpose, and Place of Use Information Worksheet
  - Worksheet 1.2 - Notice: "Marshall Criteria"

d. Applicant requests to change: diversion point(s); or reach(es); or diversion rate? **Y / N N**

*If yes, submit: Workshop 3.0 - Diversion Point Information Worksheet (submit one worksheet for each diversion point or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach)*

e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? **Y / N N**

*If yes, submit: Worksheet 2.0 - Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir)*

f. Other - Applicant requests to change any provision of an authorization not mentioned above? **Y / N N**

*If yes, call the Water Availability Division at (512) 239-4691 to discuss. Additionally, all amendments require:*
  - Worksheet 8.0 - Calculation of Fees; and Fees calculated – see instructions Page.34
  - Maps – See instructions Page. 15.
  - Additional Documents and Worksheets may be required (see within).
3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)

a. Pursuant to contract, Applicant requests authorization to convey, stored or conserved water to the place of use or diversion point of purchaser(s) using the bed and banks of a watercourse? TWC § 11.042(a). Y/N N

If yes, submit a signed copy of the Water Supply Contract pursuant to 30 TAC §§ 295.101 and 297.101. Further, if the underlying Permit or Authorization upon which the Contract is based does not authorize Purchaser's requested Quantity, Purpose or Place of Use, or Purchaser's diversion point(s), then either:

1. Purchaser must submit the worksheets required under Section 1 above with the Contract Water identified as an alternate source; or
2. Seller must amend its underlying water right under Section 2.

b. Applicant requests to convey water imported into the state from a source located wholly outside the state using the bed and banks of a watercourse? TWC § 11.042(a-1). Y/N N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps and fees from the list below.

c. Applicant requests to convey Applicant's own return flows derived from privately owned groundwater using the bed and banks of a watercourse? TWC § 11.042(b). Y/N N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.

d. Applicant requests to convey Applicant's own return flows derived from surface water using the bed and banks of a watercourse? TWC § 11.042(c). Y/N N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, Maps, and fees from the list below.

*Please note, if Applicant requests the reuse of return flows belonging to others, the Applicant will need to submit the worksheets and documents under Section 1 above, as the application will be treated as a new appropriation subject to termination upon direct or indirect reuse by the return flow discharger/owner.

e. Applicant requests to convey water from any other source, other than (a)-(d) above, using the bed and banks of a watercourse? TWC § 11.042(c). Y/N N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.

Worksheets and information:

- Worksheet 1.0 - Quantity, Purpose, and Place of Use Information Worksheet
- Worksheet 2.0 - Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir owned by the applicant through which water will be conveyed or diverted)
- Worksheet 3.0 - Diversion Point Information Worksheet (submit one worksheet for the downstream limit of each diversion reach for the proposed conveyances)
- Worksheet 4.0 - Discharge Information Worksheet (for each discharge point)
- Worksheet 5.0 - Environmental Information Worksheet
- Worksheet 6.0 - Water Conservation Information Worksheet
- Worksheet 7.0 - Accounting Plan Information Worksheet
- Worksheet 8.0 - Calculation of Fees; and Fees calculated - see instructions Page. 34
- Maps - See instructions Page. 15.
- Additional Documents and Worksheets may be required (see within).
4. General Information, Response Required for all Water Right Applications (Instructions, Page 15)

a. Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement (not required for applications to use groundwater-based return flows). Include citations or page numbers for the State and Regional Water Plans, if applicable. Provide the information in the space below or submit a supplemental sheet entitled "Addendum Regarding the State and Regional Water Plans":

The site is located within the Region N Planning Group. The application is consistent with the Coastal Bend Regional Water Planning Area Region N Regional Water Plan, dated December 2015. Pages 5-42, 5-44, and 5-50 describe use of a desalination plant approximately 30 mgd as part of a recommended water supply plan to support future manufacturing and power needs.

b. Did the Applicant perform its own Water Availability Analysis? Y / N N

If the Applicant performed its own Water Availability Analysis, provide electronic copies of any modeling files and reports.

C. Does the application include required Maps? (Instructions Page. 15) Y / N Y
WORKSHEET 1.0
Quantity, Purpose and Place of Use

1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

<table>
<thead>
<tr>
<th>Quantity (acre-feet)</th>
<th>State Water Source (River Basin) or Alternate Source *each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0</th>
<th>Purpose(s) of Use</th>
<th>Place(s) of Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>102,000</td>
<td>Corpus Christi Bay (Segment 2481)</td>
<td>Industrial</td>
<td>San Patricio County</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total amount of water (in acre-feet) to be used annually (include losses for Bed and Banks applications)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

1. Location Information Regarding the Lands to be Irrigated
   i) Applicant proposes to irrigate a total of _____ acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of ________ acres in ________ County, TX.
   ii) Location of land to be irrigated: In the ________ Original Survey No. ________, Abstract No. _______.
   
   A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.
   
   If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.

   Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.
2. Amendments - Purpose or Place of Use (Instructions, Page. 12)

a. Complete this section for each requested amendment changing, adding, or removing Purpose(s) or Place(s) of Use, complete the following:

<table>
<thead>
<tr>
<th>Quantity (acre-feet)</th>
<th>Existing Purpose(s) of Use</th>
<th>Proposed Purpose(s) of Use*</th>
<th>Existing Place(s) of Use</th>
<th>Proposed Place(s) of Use**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*If the request is to add additional purpose(s) of use, include the existing and new purposes of use under “Proposed Purpose(s) of Use.”

**If the request is to add additional place(s) of use, include the existing and new places of use under “Proposed Place(s) of Use.”

Changes to the purpose of use in the Rio Grande Basin may require conversion. 30 TAC § 303.43.

b. For any request which adds Agricultural purpose of use or changes the place of use for Agricultural rights, provide the following location information regarding the lands to be irrigated:

i) Applicant proposes to irrigate a total of _____ acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of _____ acres in____ County, TX.

ii) Location of land to be irrigated: In the ______________ Original Survey No. _______, Abstract No. ______________.

A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

c. Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.

d. See Worksheet 1.2, Marshall Criteria, and submit if required.

e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.
WORKSHEET 1.1
INTERBASIN TRANSFERS, TWC § 11.085

Submit this worksheet for an application for a new or amended water right which requests to transfer State Water from its river basin of origin to use in a different river basin. A river basin is defined and designated by the Texas Water Development Board by rule pursuant to TWC § 16.051.

Applicant requests to transfer State Water to another river basin within the State? Y / N

1.  **Interbasin Transfer Request (Instructions, Page. 20)**
   a. Provide the Basin of Origin.______________________________________________
   b. Provide the quantity of water to be transferred (acre-feet).___________________
   c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:

2.  **Exemptions (Instructions, Page. 20), TWC § 11.085(v)**

Certain interbasin transfers are exempt from further requirements. Answer the following:

   a. The proposed transfer, which in combination with any existing transfers, totals less than 3,000 acre-feet of water per annum from the same water right. Y/N
   b. The proposed transfer is from a basin to an adjoining coastal basin? Y/N
   c. The proposed transfer from the part of the geographic area of a county or municipality, or the part of the retail service area of a retail public utility as defined by Section 13.002, that is within the basin of origin for use in that part of the geographic area of the county or municipality, or that contiguous part of the retail service area of the utility, not within the basin of origin? Y/N
   d. The proposed transfer is for water that is imported from a source located wholly outside the boundaries of Texas, except water that is imported from a source located in the United Mexican States? Y/N

3.  **Interbasin Transfer Requirements (Instructions, Page. 20)**

For each Interbasin Transfer request that is not exempt under any of the exemptions listed above Section 2, provide the following information in a supplemental attachment titled "Addendum to Worksheet 1.1, Interbasin Transfer":

   a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
   b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
   c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example - expert plans and/or reports documents may be provided to show the cost);
d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (http://www.twdb.texas.gov/waterplanning/swp/index.asp);

e. address the factors identified in the applicable most recently approved regional water plans which address the following:

(i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;

(ii) the amount and purposes of use in the receiving basin for which water is needed;

(iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;

(iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;

(v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and

(vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (if applicable). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;

(f) proposed mitigation or compensation, if any, to the basin of origin by the applicant; and

(g) the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.
WORKSHEET 1.2
NOTICE. "THE MARSHALL CRITERIA"

This worksheet assists the Commission in determining notice required for certain amendments that do not already have a specific notice requirement in a rule for that type of amendment, and that do not change the amount of water to be taken or the diversion rate. The worksheet provides information that Applicant is required to submit for such amendments which include changes in use, changes in place of use, or other non-substantive changes in a water right (such as certain amendments to special conditions or changes to off-channel storage). These criteria address whether the proposed amendment will impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

This worksheet is not required for Applications in the Rio Grande Basin requesting changes in the purpose of use, rate of diversion, point of diversion, and place of use for water rights held in and transferred within and between the mainstems of the Lower Rio Grande, Middle Rio Grande, and Amistad Reservoir. See 30 TAC § 303.42.

This worksheet is not required for amendments which are only changing or adding diversion points, or request only a bed and banks authorization or an IBT authorization. However, Applicants may wish to submit the Marshall Criteria to ensure that the administrative record includes information supporting each of these criteria.

1. The "Marshall Criteria" (Instructions, Page. 21)

Submit responses on a supplemental attachment titled "Marshall Criteria" in a manner that conforms to the paragraphs (a) - (g) below:

a. Administrative Requirements and Fees. Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.

b. Beneficial Use. Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.

c. Public Welfare. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.

d. Groundwater Effects. Discuss effects of proposed amendment on groundwater or groundwater recharge.
e. **State Water Plan.** Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at: [http://www.twdb.texas.gov/waterplanning/swp/index.asp](http://www.twdb.texas.gov/waterplanning/swp/index.asp).

f. **Waste Avoidance.** Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.

g. **Impacts on Water Rights or On-stream Environment.** Explain how proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.
WORKSHEET 2.0
Impoundment/Dam Information

This worksheet is required for any impoundment, reservoir and/or dam. Submit an additional Worksheet 2.0 for each impoundment or reservoir requested in this application.

If there is more than one structure, the numbering/naming of structures should be consistent throughout the application and on any supplemental documents (e.g. maps).

1. Storage Information (Instructions, Page. 21)

   a. Official USGS name of reservoir, if applicable: ________________________

   b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: ____________________.

   c. The impoundment is on-channel____ or off-channel____ (mark one)

      1. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4691? Y / N

      2. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? Y / N

   d. Is the impoundment structure already constructed? Y / N

      i. For already constructed on-channel structures:

      1. Date of Construction: ______________________

      2. Was it constructed to be an exempt structure under TWC § 11.142? Y / N

         a. If Yes, is Applicant requesting to proceed under TWC § 11.143? Y / N

         b. If No, has the structure been issued a notice of violation by TCEQ? Y / N

      3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? Y / N

         a. If yes, provide the Site No. _____ and watershed project name ______________;

         b. Authorization to close "ports" in the service spillway requested? Y / N

      ii. For any proposed new structures or modifications to structures:

      1. Applicant must contact TCEQ Dam Safety Section at (512) 239-0326, prior to submitting an Application. Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? Y / N

         Provide the date and the name of the Staff Person __________________

      2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ has confirmed that:

         a. No additional dam safety documents required with the Application. Y / N

         b. Plans (with engineer's seal) for the structure required. Y / N

         c. Engineer's signed and sealed hazard classification required. Y / N

         d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. Y / N
3. Applicants **shall** give notice by certified mail to each member of the governing body of each county and municipality in which the reservoir, or any part of the reservoir to be constructed, will be located. (30 TAC § 295.42). Applicant must submit a copy of all the notices and certified mailing cards with this Application. Notices and cards are included? Y / N

iii. Additional information required for **on-channel** storage:

1. Surface area (in acres) of on-channel reservoir at normal maximum operating level: ____________.

2. Based on the Application information provided, Staff will calculate the drainage area above the on-channel dam or reservoir. If Applicant wishes to also calculate the drainage area they may do so at their option. Applicant has calculated the drainage area. Y / N
   If yes, the drainage area is ______ sq. miles.
   *(If assistance is needed, call the Surface Water Availability Team prior to submitting the application, (512) 239-4691).*

2. **Structure Location (Instructions, Page. 23)**

a. On Watercourse (if on-channel) (USGS name): ________________________________

b. Zip Code: ______________________

c. In the ____________ Original Survey No. ________________, Abstract No. ________________, County, Texas.

   * A **copy of the deed(s) with the recording information from the county records must be submitted describing the tract(s) that include the structure and all lands to be inundated.**

   **If the Applicant is not currently the sole owner of the land on which the structure is or will be built and sole owner of all lands to be inundated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.**

d. A point on the centerline of the dam (on-channel) or anywhere within the impoundment (off-channel) is:

   Latitude ____________°N, Longitude ____________°W.

   *Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*

di. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): ____________________________

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. Y / N
WORKSHEET 3.0
DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet is required for each diversion point or diversion reach. Submit one Worksheet 3.0 for each diversion point and two Worksheets for each diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g. maps).

1. Diversion Information (Instructions, Page. 24)

a. This Worksheet is to add new (select 1 of 3 below):

1. X Diversion Point No.
2. _______Upstream Limit of Diversion Reach No.
3. _______Downstream Limit of Diversion Reach No.

b. Maximum Rate of Diversion for this new point _______ cfs (cubic feet per second) or ___62,778___ gpm (gallons per minute)

c. Does this point share a diversion rate with other points?  Y / N
   If yes, submit Maximum Combined Rate of Diversion for all points/reaches _______ cfs or _______ gpm

d. For amendments, is Applicant seeking to increase combined diversion rate?  Y / N
   ** An increase in diversion rate is considered a new appropriation and would require completion of Section 1, New or Additional Appropriation of State Water.

e. Check (✓) the appropriate box to indicate diversion location and indicate whether the diversion location is existing or proposed:

<table>
<thead>
<tr>
<th>Check one</th>
<th>Write: Existing or Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directly from stream</td>
<td></td>
</tr>
<tr>
<td>From an on-channel reservoir</td>
<td></td>
</tr>
<tr>
<td>From a stream to an on-channel reservoir</td>
<td></td>
</tr>
<tr>
<td>X Other method (explain fully, use additional sheets if necessary)</td>
<td>Proposed - Corpus Christi Bay, Segment 2481</td>
</tr>
</tbody>
</table>

f. Based on the Application information provided, Staff will calculate the drainage area above the diversion point (or reach limit). If Applicant wishes to also calculate the drainage area, you may do so at their option.

   Applicant has calculated the drainage area.  Y / N  N

   If yes, the drainage area is _________ sq. miles.
   (If assistance is needed, call the Surface Water Availability Team at (512) 239-4691, prior to submitting application)
2. Diversion Location (Instructions, Page 25)

a. On watercourse (USGS name): Corpus Christi Channel, Segment 2481

b. Zip Code: ____________________

c. Location of point: In the _____ Original Survey No. _____, Abstract No. ____________, ____________ County, Texas.

A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure. For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to: a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access.

d. Point is at:
   Latitude 27.873741 'N, Longitude -97.294987 'W.
   Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places

e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): __Google Earth__________________________

f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page 38.

g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

Attachment 4 - Basis of Design
WORKSHEET 4.0
DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. Instructions Page. 26. Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC, Chapter 26 or any other applicable law.

a. The purpose of use for the water being discharged will be ____________________.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses ______% and explain the method of calculation:

Is the source of the discharged water return flows? Y / N If yes, provide the following information:
1. The TPDES Permit Number(s) _____________________. (attach a copy of the current TPDES permit(s))
2. Applicant is the owner/holder of each TPDES permit listed above? Y / N

PLEASE NOTE: If Applicant is not the discharger of the return flows, the application should be submitted under Section 1, New or Additional Appropriation of State Water, as a request for a new appropriation of state water. If Applicant is the discharger, then the application should be submitted under Section 3, Bed and Banks.

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as “Supplement to Worksheet 4.0”).

4. The percentage of return flows from groundwater ________, surface water _____?

5. If any percentage is surface water, provide the base water right number(s) _________.

c. Is the source of the water being discharged groundwater? Y / N If yes, provide the following information:

1. Source aquifer(s) from which water will be pumped: ____________________

2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp. Additionally, provide well numbers or identifiers ____________________.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.

4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.

ci. Is the source of the water being discharged a surface water supply contract? Y / N If yes, provide the signed contract(s).

cii. Identify any other source of the water ____________________.
WORKSHEET 4.1  
DISCHARGE POINT INFORMATION

This worksheet is required for each discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g. maps). Instructions, Page 27.

For water discharged at this location provide:

a. The amount of water that will be discharged at this point is _______ acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.

b. Water will be discharged at this point at a maximum rate of _____ cfs or _____ gpm.

c. Name of Watercourse as shown on Official USGS maps: _________________________

d. Zip Code: _________________________

e. Location of point: In the _______ Original Survey No. _______, Abstract No. _______, _________ County, Texas.

g. Point is at:  
Latitude _______ N, Longitude _______ W.

*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places

h. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): _________________________

Map submitted must clearly identify each discharge point. See instructions Page. 15.
WORKSHEET 5.0
ENVIRONMENTAL INFORMATION

This worksheet is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins. The worksheet is also required in all basins for requests to change a diversion point, applications using an alternate source of water, and bed and banks applications. Instructions, Page 28.

1. New Appropriations of Water (Canadian, Red, Sulphur, and Cypress Creek Basins only) and Changes in Diversion Point(s)

Description of the Water Body at each Diversion Point or Dam Location. (Provide an Environmental Information Sheet for each location),

a. Identify the appropriate description of the water body.

- [ ] Stream
- [ ] Reservoir

Average depth of the entire water body, in feet: ______________________
- [ ] Other, specify: Corpus Christi Bay (Segment 2481)

b. Flow characteristics

If a stream, was checked above, provide the following. For new diversion locations, check one of the following that best characterize the area downstream of the diversion (check one).

- [ ] Intermittent - dry for at least one week during most years
- [ ] Intermittent with Perennial Pools - enduring pools
- [ ] Perennial - normally flowing

Check the method used to characterize the area downstream of the new diversion location.

- [ ] USGS flow records
- [ ] Historical observation by adjacent landowners
- [ ] Personal observation
- [ ] Other, specify: Area is a Bay. No downstream area.

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□ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional

□ Natural Area: trees and/or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

□ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid

□ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

d. Waterbody Recreational Uses

Are there any known recreational uses of the stream segments affected by the application?

□ Primary contact recreation (swimming or direct contact with water)

□ Secondary contact recreation (fishing, canoeing, or limited contact with water)

□ Non-contact recreation

Submit the following information in a Supplemental Attachment, labeled Addendum to Worksheet 5.0:

1. Photographs of the stream at the diversion point or dam location. Photographs should be in color and show the proposed point or reservoir and upstream and downstream views of the stream, including riparian vegetation along the banks. Include a description of each photograph and reference the photograph to the map submitted with the application indicating the location of the photograph and the direction of the shot. Attachment 3

2. Measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure). Attachment 4

3. If the application includes a proposed reservoir, also include:
   i. A brief description of the area that will be inundated by the reservoir.
   ii. If a United States Army Corps of Engineers (USACE) 404 permit is required, provide the project number and USACE project manager.
   iii. A description of how any impacts to wetland habitat, if any, will be mitigated if the reservoir is greater than 5,000 acre-feet.

2. Alternate Sources of Water and/or Bed and Banks Applications

For all bed and banks applications:

a. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure).
b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

If the alternate source is treated return flows, provide the TPDES permit number _________

If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide:

a. Reasonably current water chemistry information including but not limited to the following parameters in the table below. Additional parameters may be requested if there is a specific water quality concern associated with the aquifer from which water is withdrawn. If data for onsite wells are unavailable; historical data collected from similar sized wells drawing water from the same aquifer may be provided. However, onsite data may still be required when it becomes available. Provide the well number or well identifier. Complete the information below for each well and provide the Well Number or identifier.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Average Conc.</th>
<th>Max Conc.</th>
<th>No. of Samples</th>
<th>Sample Type</th>
<th>Sample Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfate, mg/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloride, mg/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Dissolved Solids, mg/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH, standard units</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Temperature*, degrees Celsius</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

* Temperature must be measured onsite at the time the groundwater sample is collected.

b. If groundwater will be used, provide the depth of the well ______ and the name of the aquifer from which water is withdrawn ____________________.
WORKSHEET 6.0
Water Conservation/Drought Contingency Plans

This form is intended to assist applicants in determining whether a Water Conservation Plan and/or Drought Contingency Plans is required and to specify the requirements for plans. Instructions, Page 31.

The TCEQ has developed guidance and model plans to help applicants prepare plans. Applicants may use the model plan with pertinent information filled in. For assistance submitting a plan call the Resource Protection Team (Water Conservation staff) at 512-239-4691, or e-mail wras@tceq.texas.gov. The model plans can also be downloaded from the TCEQ webpage. Please use the most up-to-date plan documents available on the webpage.

1. Water Conservation Plans

a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture - including irrigation, wholesale):
   1. Request for a new appropriation or use of State Water.
   2. Request to amend water right to increase appropriation of State Water.
   3. Request to amend water right to extend a term.
   4. Request to amend water right to change a place of use.
      *does not apply to a request to expand irrigation acreage to adjacent tracts.
   5. Request to amend water right to change the purpose of use.
      *applicant need only address new uses.
   6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water
      *including return flows, contract water, or other State Water.

b. If Applicant is requesting any authorization in section (1)(a) above, indicate each use for which Applicant is submitting a Water Conservation Plan as an attachment:
   1. _____Municipal Use. See 30 TAC § 288.2. **
   2. _____Industrial or Mining Use. See 30 TAC § 288.3. Attachment 5
   3. _____Agricultural Use, including irrigation. See 30 TAC § 288.4.
   4. _____Wholesale Water Suppliers. See 30 TAC § 288.5. **

   **If Applicant is a water supplier, Applicant must also submit documentation of adoption of the plan. Documentation may include an ordinance, resolution, or tariff, etc. See 30 TAC §§ 288.2(a)(1)(J)(i) and 288.5(1)(H). Applicant has submitted such documentation with each water conservation plan? Y / N N

c. Water conservation plans submitted with an application must also include data and information which: supports applicant’s proposed use with consideration of the plan’s water conservation goals; evaluates conservation as an alternative to the proposed
appropriation; and evaluates any other feasible alternative to new water development. See 30 TAC § 288.7. Applicant has included this information in each applicable plan? Y / N

2. Drought Contingency Plans

a. A drought contingency plan is also required for the following entities if Applicant is requesting any of the authorizations in section (1) (a) above - indicate each that applies:

1. N/A Municipal Uses by public water suppliers. See 30 TAC § 288.20.
2. N/A Irrigation Use/ Irrigation water suppliers. See 30 TAC § 288.21.

b. If Applicant must submit a plan under section 2(a) above, Applicant has also submitted documentation of adoption of drought contingency plan (ordinance, resolution, or tariff, etc. See 30 TAC § 288.30) Y / N
WORKSHEET 7.0
ACCOUNTING PLAN INFORMATION WORKSHEET

The following information provides guidance on when an Accounting Plan may be required for certain applications and if so, what information should be provided. An accounting plan can either be very simple such as keeping records of gage flows, discharges, and diversions; or, more complex depending on the requests in the application. Contact the Surface Water Availability Team at 512-239-4691 for information about accounting plan requirements, if any, for your application. Instructions, Page 34.

1. Is Accounting Plan Required

Accounting Plans are generally required:
- For applications that request authorization to divert large amounts of water from a single point where multiple diversion rates, priority dates, and water rights can also divert from that point;
- For applications for new major water supply reservoirs;
- For applications that amend a water right where an accounting plan is already required, if the amendment would require changes to the accounting plan;
- For applications with complex environmental flow requirements;
- For applications with an alternate source of water where the water is conveyed and diverted; and
- For reuse applications.

2. Accounting Plan Requirements

a. A text file that includes:
   1. an introduction explaining the water rights and what they authorize;
   2. an explanation of the fields in the accounting plan spreadsheet including how they are calculated and the source of the data;
   3. for accounting plans that include multiple priority dates and authorizations, a section that discusses how water is accounted for by priority date and which water is subject to a priority call by whom; and
   4. Should provide a summary of all sources of water.

b. A spreadsheet that includes:
   1. Basic daily data such as diversions, deliveries, compliance with any instream flow requirements, return flows discharged and diverted and reservoir content;
   2. Method for accounting for inflows if needed;
   3. Reporting of all water use from all authorizations, both existing and proposed;
   4. An accounting for all sources of water;
   5. An accounting of water by priority date;
   6. For bed and banks applications, the accounting plan must track the discharged water from the point of delivery to the final point of diversion;
   7. Accounting for conveyance losses;
   8. Evaporation losses if the water will be stored in or transported through a reservoir. Include changes in evaporation losses and a method for measuring reservoir content resulting from the discharge of additional water into the reservoir;
   9. An accounting for spills of other water added to the reservoir; and
   10. Calculation of the amount of drawdown resulting from diversion by junior rights or diversions of other water discharged into and then stored in the reservoir.
WORKSHEET 8.0
CALCULATION OF FEES

This worksheet is for calculating required application fees. Applications are not Administratively Complete until all required fees are received. Instructions, Page. 34

1. NEW APPROPRIATION

<table>
<thead>
<tr>
<th>Filing Fee</th>
<th>Description</th>
<th>Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circle fee correlating to the total amount of water* requested for any new appropriation and/or impoundment. Amount should match total on Worksheet 1, Section 1. Enter corresponding fee under Amount ($).</td>
<td>$1,000.00</td>
<td></td>
</tr>
<tr>
<td>In Acre-Feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Less than 100</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td>b. 100 - 5,000</td>
<td>$250.00</td>
<td></td>
</tr>
<tr>
<td>c. 5,001 - 10,000</td>
<td>$500.00</td>
<td></td>
</tr>
<tr>
<td>d. 10,001 - 250,000</td>
<td>$1,000.00</td>
<td></td>
</tr>
<tr>
<td>e. More than 250,000</td>
<td>$2,000.00</td>
<td></td>
</tr>
<tr>
<td>Recording Fee</td>
<td>Only for those with an Irrigation Use.</td>
<td>$25.00</td>
</tr>
<tr>
<td>Agriculture Use Fee</td>
<td>Multiply 50¢ x ____ Number of acres that will be irrigated with State Water. **</td>
<td>$50,000.00</td>
</tr>
<tr>
<td>Use Fee</td>
<td>Required for all Use Types, excluding Irrigation Use. Multiply $1.00 x ____ Maximum annual diversion of State Water in acre-feet. **</td>
<td></td>
</tr>
<tr>
<td>Recreational Storage Fee</td>
<td>Only for those with Recreational Storage. Multiply $1.00 x ____ acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.</td>
<td></td>
</tr>
<tr>
<td>Storage Fee</td>
<td>Only for those with Storage, excluding Recreational Storage. Multiply 50¢ x ____ acre-feet of State Water to be stored at normal max operating level.</td>
<td></td>
</tr>
<tr>
<td>Mailed Notice</td>
<td>Cost of mailed notice to all water rights in the basin. Contact Staff to determine the amount (512) 239-4691.</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>$51,025.00</td>
</tr>
</tbody>
</table>

2. AMENDMENT OR SEVER AND COMBINE

<table>
<thead>
<tr>
<th>Filing Fee</th>
<th>Description</th>
<th>Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amendment: $100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR Sever and Combine: $100 x ____ of water rights to combine</td>
<td>$12.50</td>
<td></td>
</tr>
<tr>
<td>Recording Fee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailed Notice</td>
<td>Additional notice fee to be determined once application is submitted.</td>
<td></td>
</tr>
<tr>
<td>TOTAL INCLUDED</td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

3. BED AND BANKS

<table>
<thead>
<tr>
<th>Filing Fee</th>
<th>Description</th>
<th>Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$100.00</td>
</tr>
<tr>
<td>Recording Fee</td>
<td></td>
<td>$12.50</td>
</tr>
<tr>
<td>Mailed Notice</td>
<td>Additional notice fee to be determined once application is submitted.</td>
<td></td>
</tr>
<tr>
<td>TOTAL INCLUDED</td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>
ATTACHMENT 3

Addendum to Worksheet 5.0 Section 1.d.1. Photographs and Maps
PHOTO 1:
Photograph facing southeast along the shoreline.

PHOTO 2:
Photograph facing south.
PHOTO 3:
Photograph facing southwest.

PHOTO 4:
Photograph facing southeast showing a larger portion of the shoreline.
ATTACHMENT 4

Addendum to Worksheet 5.0 Section 1.d.2. Design Basis
Basis of Design Report for:

Port of Corpus Christi Industrial Seawater Desalination Intake Structure
La Quinta, Corpus Christi, Texas

May 2019

Submitted to:
Port of Corpus Christi Authority of Nueces County

Submitted by:
Wood Environment & Infrastructure Solutions, Inc.
Houston, TX
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<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
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<td>1</td>
</tr>
<tr>
<td>2. Proposed Unit Processes</td>
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</tr>
<tr>
<td>3. Site Selection</td>
<td>1</td>
</tr>
<tr>
<td>4. Area of Influence</td>
<td>2</td>
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<td>5. Intake Structure</td>
<td>3</td>
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<td>7. Pump Selection and Strategy</td>
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<td>8. Controls</td>
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<tr>
<td>9. Conclusion</td>
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<tr>
<td>10. References</td>
<td>5</td>
</tr>
</tbody>
</table>
1. Introduction

The Port of Corpus Christi Authority (POCCA) is developing a project to provide a sustainable supply of industrial water for the Corpus Christi area that is not dependent upon freshwater sources, which can be better utilized for potable water purposes. The proposed system will provide up to 30 million gallons per day (mgd) of industrial water through the process of desalination. The purpose of this project is to develop a Basis of Design (BOD) for the intake structure in sufficient detail to complete the Texas Commission on Environmental Quality (TCEQ) Water Rights Permit Application. The proposed facility will have a seawater Design Intake Flow (DIF) of 90.4 mgd from the Corpus Christi Bay.

The proposed facility will be located in open water in an area owned by POCCA (See Figures 1 & 2). The plant intake will consist of seawater pumped through Wedgewire Screen intake structures, shown on Figure 3, then through a pair of buried intake pipes using large pumps set in an on shore subsurface vault. Primary screening will utilize the Wedgewire Screens at the intake structure. Secondary screening will remove smaller debris, then the seawater will be pumped to the desalination plant. Wood (formerly Amec Foster Wheeler), on behalf of the POCCA, has already developed and submitted to the TCEQ an Industrial Wastewater Permit Application that fully documents the process to convert seawater to industrial water. That information will not be repeated in this document.

2. Proposed Unit Processes

The following unit processes will be utilized in the intake structure:

- Wedgewire screens sized to prevent entrainment and entrapment of small marine life and debris
- Forced pumping from the intake structure to the desalinization plant pre-treatment system
- Secondary screening to remove smaller debris prior to pre-treatment
- Intake clarification with chemical coagulation to remove residual algae and suspended solids

3. Site Selection

POCCA intends to develop the shoreline of the La Quinta site, preventing use of a typical bulkhead based intake structure. An assessment to identify a new intake location resulted in identification of POCCA owned open water to the west of Beneficial Use (BU) Site 6. Advantages of this location are two-fold. The location moves the intake away from dock area industrial discharges, minimizing suspended solids from prop wash and potential unexpected contaminants from local plants. The location is also on the other side of BU Site 6, which will essentially eliminate the potential for recirculation of the brine discharge. The disadvantage is the water depth is approximately 10 feet (ft), therefore, some dredging will be necessary to drop the bathymetry to -20 ft mean lower-low water (MLLW) to allow reasonable space for the large inlet screens.
4. Area of Influence

The source water body, the Corpus Christi Bay, is tidal. The Ship Channel and the adjacent BU Site 6 and Dredge Material Placement Area (DMPA) 13 have altered the local hydrodynamic conditions in the area. However, these features have been determined to have an insignificant impact on water flow, exchange, and salinity (HDR, 2012). The adjacent LaQuinta Channel is dredged to a minimum -40 ft MLLW, ending at a large turning basin between BU Site 6 and the LaQuinta mainland.

Information to characterize the hydrodynamic conditions of this area of Corpus Christi Bay is limited. Some information near the location is provided by Schoenbaechler and Guthrie (2011) and Zhang (2010). Schoenbaechler and Guthrie (2011) documented observation data and hydrodynamic model results for Corpus Christi Bay and the La Quinta Channel near Ingleside. For the Bay area, the typical tidal range is up to approximately 2 ft, although the range is typically less than 1 ft. The mean tidal range at the NOAA Port Aransas Station 8775237 is 0.86 ft. The minimum low water of -1.33 ft was recorded on January 1, 2003. At the La Quinta Channel, near the Ingleside station, which is the nearest La Quina location, during monitoring periods in May 2000, the observed discharge through the Ship Channel was approximately 10,000 cub ft per second (cfs) with a slight velocity and discharge reversal. Zhang (2010) reported poor model agreement with observations of velocity at the southeastern end of the La Quinta channel. Observed maximum velocities were approximately 0.3 m/sec (1.0 ft/sec).

There is an insignificant salinity stratification in the entrance channel and the entire bay according to Schoenbaechler and Guthrie (2011).

Assuming a dredged bottom providing a uniform 20 ft depth of water over a 200 ft wide (40,000 ft²) area, the slack water period area of influence can be estimated by assumption of simple geometry and hydraulics. Based on the DIF of 90.4 mgd (140 cfs) flow through four sets of 20 ft Wedgewire screens on the edge of an 80ft by 80 ft area, and a tidal slack water condition, the approach velocity diminishes to 0.13 ft/sec at a radial distance of approximately 120 ft from the intakes. Due to a return to a 10 ft depth after 200 ft, radial velocities slowly drop off with distance. At 320 ft from the screens, radial flow is 0.11 ft/sec. At 420 ft from the screens, radial flow drops to 0.09 ft/sec.

The peak velocity for the tidal cycle at this location in the Bay is not well established in available reports. Peak representative velocity reported by Zhang (2012) is 1.0 ft/sec, which exceeds the flow rate through the Wedgewire screens.
5. Intake Structure

The intake structure will be constructed in an area dredged from -10 to -20 ft MLLW approximately 1,000 ft to the west of BU Site (Figures 1 & 2). Two approximately 4 ft diameter pipelines will be placed underground from the desalination plant to the intake area, the route for which will be finalized as part of the design process. The two pipelines will be buried in the bay at a bottom invert elevation of approximately -20 ft MLLW and will therefore daylight through the edge of the dredged area. Piles will be placed to support each screened intake, which will be approximately 20 ft in length and 5 ft in diameter (See Figure 4). Based on this sizing, screen porosity will need to be 25% to achieve a flow rate less than the desired 0.5 ft/sec through the screen. Since it is expected that greater than 50% porosity will be possible, the sizing will allow one of the two screened intakes per pipeline to be taken out of service for maintenance purposes while still meeting the 0.5 ft/sec goal.

Flow through the pipe will be created using large pumps in a pump vault, allowing for a flooded suction. Flow will be discharged through a secondary screen followed by pre-treatment prior to filtration. All components will be duty rated for operation in a coastal area with saltwater.

6. Fish Protection Standards

Establishing fish protection standards for the proposed intake structure should be a high priority early in the permitting and design process. The chosen standard will dictate a number of key criteria that will affect the type, size and location of the intake structure. The recently enacted fish protection standard, found in Section 316(b) of the Clean Water Act, applies to cooling water intake structures, and may be considered best technology available (BTA) to this proposed intake structure. The currently proposed design is based on the assumption that the TCEQ will require STA for impingement protection of fish. The current intake design has a through screen velocity of less than 0.5 ft/sec which is considered by the Environmental Protection Agency (EPA) as STA for impingement protection. The proposed screen mesh size is ¼ inch by ¼ inch square for a percent open area of approximately 64%. Actual percent open area and screen efficiency is dependent on the manufacturer and should be vetted during final design. Screen efficiency will be maintained using a compressed air system to periodically clear the screens.

Cooling water intake structures with flows greater than 125 mgd are also required to provide entrainment reduction or protection per the 316(b) rule. Because the intake flow rate is less than 125 mgd for this intake structure it is assumed that entrainment reduction or protection will not be required.
7. Pump Selection and Strategy

Four pumps, a primary and spare for each line, will be placed in a large pump vault. Suction ends will be at an elevation of approximately -4 ft MLLW, thus providing a flooded suction (See Figure 5 for preliminary hydraulic profile). The pumps will be suitable for high volume, low head applications and materials will be compatible with seawater pumping. Pumps were selected based on the following assumptions:

- Suction lift suitable for flow through approximately 6,000 ft of flooded 48 inch pipe at a flow rate of 5-6 ft/sec
- 40 ft of static head, suitable for discharging from the well vault through a screen system over a wall at an elevation of 16 ft
- Maintaining an inlet velocity of approximately 5-6 ft/sec and a discharge velocity of 6-9 ft/sec;

A refined pump selection is contingent on the suction and force main alignment, the elevation change necessary to achieve, and the resulting system curve. The suction and force main design and alignment is not within the scope of this design; however, an approximation was necessary for pump sizing. A 48-inch HDPE pipe at a capacity of 31,389 gpm (half the design intake flow) will deliver untreated seawater at a velocity of 6 ft/sec. It is not recommended that the individual pump flows be combined into a larger manifold force main. The force mains will include appropriate valving for air release and backflow prevention; a manifold system will significantly increase the valving required and subsequently the footprint of the structure. 48-inch HDPE pipe is readily available domestically. Any desire to reduce the diameter size will come with the trade-off of requiring larger pump(s) and force main(s) to maintain target discharge velocities.

8. Controls

The pumps will be cycled using a control system to achieve equivalent run time. Variable frequency drives (VFDs) may be utilized to allow variation in the facilities pumping capacity resulting from tidal fluctuations. Electrical controls can be housed in cabinets at the intake structure or potentially remotely controlled from the Plant using supervisory control and data acquisition (SCADA) systems. It is likely that a roof will be placed over the pump vault to minimize rainfall accumulation and pumping. An electric transformer will be constructed on a concrete pad adjacent to the pump vault.
9. Conclusion

This BOD report summaries key elements for consideration of a new offshore intake structure to supply 90.4 mgd of raw seawater to a 30 mgd potable water output desalination plant to be constructed on property owned by POCCA in Corpus Christi Bay west of the La Quinta Ship Channel. The information contained herein is preliminary and to be used only for planning and permitting purposes. The conclusions reached in this BOD report are based on information available at the time of development.

10. References


Zhang, Y.J., May 2010. Final Report for Project Technical support – Inter-model comparison for Corpus Christi Bay testbed. NSF Center for Coastal Margin Observation & Prediction, Oregon Graduate Institute School of Science & Engineering, Oregon Health & Science University (OHSU), 20000 NW Walker Road, Portland, OR 97006.
Land Ownership Around Proposed Desalination Plant

La Quinta Terminal

DATE: MAY 2019
SCALE: 1" = 3,750'
PROJECT NO. 6703180030

POCCA PATENT
106
POCCA LA QUINTA PROPERTY
KIEWIT

Port of Corpus Christi Land

Intake Structure
Name: Port of Corpus Christi Authority of Nueces County  
Address: 222 Power Street, Corpus Christi, TX 78401  
Telephone Number: (361) 882-5633  
Fax: (361) 882-7110  
Form Completed by: Larry Karpov  
Title: Environmental Scientist  
Signature:  
Date: 8/29/2019  

NOTE: If the plan does not provide information for each requirement, include an explanation of why the requirement is not applicable.

I. BACKGROUND DATA

A. Water Use
   1. Annual diversion appropriated or requested (in acre-feet): 102,000
   2. Maximum diversion rate (cfs): 140.8

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

<table>
<thead>
<tr>
<th>Source</th>
<th>Water Right No.(s)</th>
<th>Current Use</th>
<th>Anticipated Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water</td>
<td></td>
<td>0</td>
<td>102,000</td>
</tr>
<tr>
<td>Groundwater</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Purchased</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>0</td>
<td>102,000</td>
</tr>
</tbody>
</table>
2. How was the surface water data and/or groundwater data provided above (B1) obtained?
   Master meter _____; Customer meter _____; Estimated X_____; Other _____

3. Was purchased water raw or treated?
   If both, % raw N/A; % treated N/A and Supplier(s): N/A

C. Industrial/Mining Information
   1. Major product(s) or service(s) produced by applicant: Potable Water


II. WATER USE AND CONSERVATION PRACTICES

A. Water Use in Industrial or Mining Processes

<table>
<thead>
<tr>
<th>Production Use</th>
<th>% Groundwater</th>
<th>% Surface Water</th>
<th>% Saline Water</th>
<th>% Treated Water</th>
<th>Water Use (in acre-ft)</th>
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</thead>
<tbody>
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<td>Cooling, condensing, &amp; refrigeration</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Processing, washing, transport</td>
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</tr>
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<td>Boiler feed</td>
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<td>0</td>
<td>100</td>
<td>0</td>
<td>102,000</td>
</tr>
</tbody>
</table>
1. Was fresh water recirculated at this facility? □ Yes □ No

2. Provide a detailed description of how the water will be utilized in the industrial or mining process.

   The Port of Corpus Christi (POCC) is developing a project to provide a sustainable supply of potable water for the Corpus Christi area that is not dependent upon rain water. The proposed system will provide up to 30 million gallon (MGD) of permeate through the process of desalination.

3. Estimate the quantity of water consumed in production and mining processes and is therefore unavailable for reuse, discharge or other means of disposal.

   61 MGD will be available after treatment for industrial users in the Corpus Christi area; 30 MGD will be discharged to Corpus Christi Channel.


<table>
<thead>
<tr>
<th>Month</th>
<th>Diversion Amount</th>
<th>% of Water Returned (If Any)</th>
<th>Monthly Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>February</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>March</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>April</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>May</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>June</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>July</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>August</td>
<td>N/A</td>
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<td>N/A</td>
</tr>
<tr>
<td>September</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>October</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
5. Projected monthly water demand for next year (in acre-feet).

<table>
<thead>
<tr>
<th>Month</th>
<th>Diversion Amount</th>
<th>% of Water Returned</th>
<th>Monthly Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>8500</td>
<td>60.7</td>
<td>5160</td>
</tr>
<tr>
<td>February</td>
<td>8500</td>
<td>60.7</td>
<td>5160</td>
</tr>
<tr>
<td>March</td>
<td>8500</td>
<td>60.7</td>
<td>5160</td>
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<tr>
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B. Specific and Quantified Conservation Goal

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

1. Water conservation goal (water use efficiency measure)
   Type of goal(s):
   ______ % reused water
   60.7 % of water not consumed and therefore returned
   ______ Other (specify)

2. Provide specific and quantified five-year and ten-year targets for water savings and the basis for development of such goals for this water use/facility.
3. Describe the methods and/or device(s) within an accuracy of plus or minus 5% used to measure and account for the amount of water diverted from the supply source.

4. Provide a description of the leak-detection and repair, and water-loss accounting measures used.
   N/A

5. Equipment and/or process modifications used to improve water use efficiency.
   N/A

6. Other water conservation techniques used. N/A

Best Management Practices
The Texas Water Developmental Board’s (TWDB) Report 362 is the Water Conservation Best Management Practices (BMP) guide. The BMP Guide is a voluntary list of management practices that water users may implement in addition to the required components of Title 30, Texas Administrative Code, Chapter 288. The Best Management Practices Guide broken out by sector, including Agriculture, Commercial, and Institutional, Industrial, Municipal and Wholesale along with any new or revised BMPs can be found at the following link on the Texas Water Developments Board’s website: http://www.twdb.state.tx.us/conservation/bmps/index.asp

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact 512-239-3282.