

September 10, 2024

Water Rights Permitting & Availability Section
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re: Laguna Madre Water District (LMWD)
Seawater Desalination Project
Application for a Temporary Water Use Permit (Form TCEQ 10202 revision 3/2010)

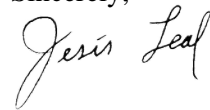
Dear Water Rights Permitting & Availability Section:

The Laguna Madre Water District (LMWD) is a popular tourist destination known for its beaches, fishing, bird watching, and golf. For many years, the LMWD has kept pace with population growth while being subject to heavy seasonal peak demands. The LMWD has been actively exploring the options of brackish groundwater, seawater, and wastewater reuse as an alternative source for raw water. The only alternatives that can meet current and future water demands would be brackish or seawater desalination. The due diligence conducted in a feasibility study with the Bureau of Reclamation identifies seawater desalination as the most cost-effective option. Seawater Desalination offers operational flexibility, allowing for the blending of river and seawater. Moreover, in scenarios where river water availability is constrained or eliminated in the future, seawater desalination provides a sustainable alternative, ensuring the District's water security independent of single-source dependency.

The attached Application for a Temporary Water Use Permit (Form TCEQ 10202 revision 3/2010) is provided for your review and approval and was prepared for Laguna Madre Water District. A Pilot Plant Study (PPS) Protocols was submitted under separate correspondence to TCEQ which provides a detailed description of the pilot plant configuration that will be used to treat seawater obtained from the Lower Laguna Madre at the Port Isabel-San Benito Navigation District Turning Basin and produce drinking water meeting all Federal, State, and local water quality requirements.

Please let us know if you have any questions or require additional information.

Sincerely,



Jesus Leal, P.E.
Principal





September 10, 2024

Water Rights Permitting & Availability Section
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re: Laguna Madre Water District (LMWD)
Seawater Desalination Project
Authorization Letter for Jesus Leal, NorrisLeal

Dear Water Rights Permitting & Availability Section,

Laguna Madre Water District hereby authorizes Jesus Leal, from NorrisLeal, LLC, to sign the attached Application For a Temporary Water Use Permit (Form TCEQ 10202 revision 3/2010) on behalf of Laguna Madre Water District.

Please let us know if you have any questions or require additional information.

Sincerely,

Charles F. Ortiz, P.E.
District Engineer
Laguna Madre Water District
956-943-2626 ext. 130
Email: [REDACTED]

105 Port Road
Port Isabel, Texas 78578
Phone: 956-943-2626 Fax: 956-943-6827
An Equal Opportunity Employer

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Telephone (512) 239-4600, FAX (512) 239-4770

APPLICATION FOR A TEMPORARY WATER USE PERMIT FOR MORE THAN 10 ACRE-FEET OF WATER, AND/OR FOR A DIVERSION PERIOD LONGER THAN ONE CALENDAR YEAR

This form is for an application for a temporary permit to divert water under Section 11.138, Texas Water Code. Any permit granted from this application may be suspended at any time by the applicable TCEQ Office if it is determined that surplus water is no longer available.

Notice: This form will not be processed until 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.

1. **Data on Applicant and Project:** Social Security or Federal ID No. 74-6003590
- A. Name: Laguna Madre Water District c/o Charles Ortiz, P.E.
- B. Mailing Address: 105 Port Road, Port Isabel, TX 78578
- C. Telephone Number: 956-943-2626 Fax Number: 956-943-6827 E-mail Address: [REDACTED]
- D. Applicant owes fees or penalties? ☐ Yes ☒ No
If yes, provide the amount and the nature of the fee or penalty as well as any identifying number:
- E. Describe Use of Water Water will be used in piloting of Seawater Reverse Osmosis System
- F. Description of Project (TDH Project No. if applicable) Desalination Piloting
- G. Highway Designation No. 100 County Cameron

2. Type of Diversion (check one):☒ From Stream ☐ From Reservoir**3. Rate of Diversion:**

A. Maximum 200 gpm
(capacity of pump)

4. Amount and Source of Water:

323 acre-feet of water within a period of 1 year (specify term period not to exceed a three year term). The water is to be obtained from Port Isabel Channel Turning Basin, tributary of Laguna Madre, tributary of Nueces Rio Grande Coastal Basin.

5. Location of Diversion Point: Provide Latitude and Longitude in decimal degrees to at least six decimal places, and indicate the method used to calculate the diversion point location.

At Latitude 26.061128 °N, Longitude 97.215422 °W, ((at) or near the stream crossing of), (at a reservoir in the vicinity of) 100 (R-O-W) Highway located in Zip Code 78578, located 23.7 miles in a NE direction from Brownsville (County Seat), Cameron County, and 2.7 miles in a SE direction from Laguna Vista, a nearby town shown on County road map. Note: Distance in straight line miles.

Enclose a USGS 7.5 minute topographic map with the diversion point and/or the return water discharge points labeled. Owner's written consent is required for water used from any private reservoir, or private access to diversion point.

6. Access to Diversion Point (check one):

- ☐ Public right-of-way
☒ Private property
(A letter of permission from landowner is attached)
☐ Other (Explain)

7. Fees Enclosed:

10 ac-ft or less greater than 10 ac-ft

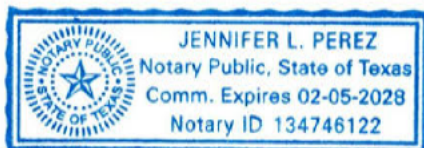
Filing	\$ 100.00	\$ 250.00
Recording	\$ 1.25	\$ 1.25
Use (\$1.00 per ac-ft or fraction thereof)	\$	\$ 323.00
(Note: 1 ac-ft = 325,851 gals. Total	\$	\$ 574.25
1 ac-ft = 7758.35 bbls.)		

Upon completion of any project for which a temporary water permit is granted, the Permittee is required by law to report the amount of water used. This document must be properly signed and duly notarized before it can be accepted or considered by the Texas Commission on Environmental Quality.

Jesus Leal
Name (sign)

Jesus Leal, P.E. (NorrisLeal, LLC)
Name (print)

Subscribed and sworn to me as being true and correct before me this 10th day of September, 2024



Jennifer L. Perez
Notary Public, State of Texas



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

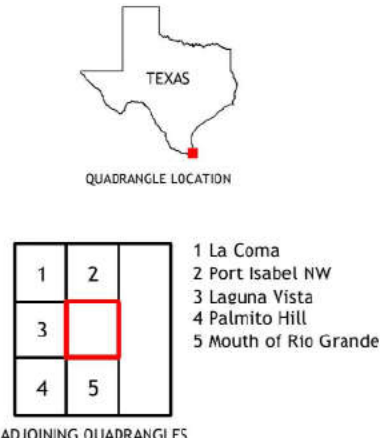
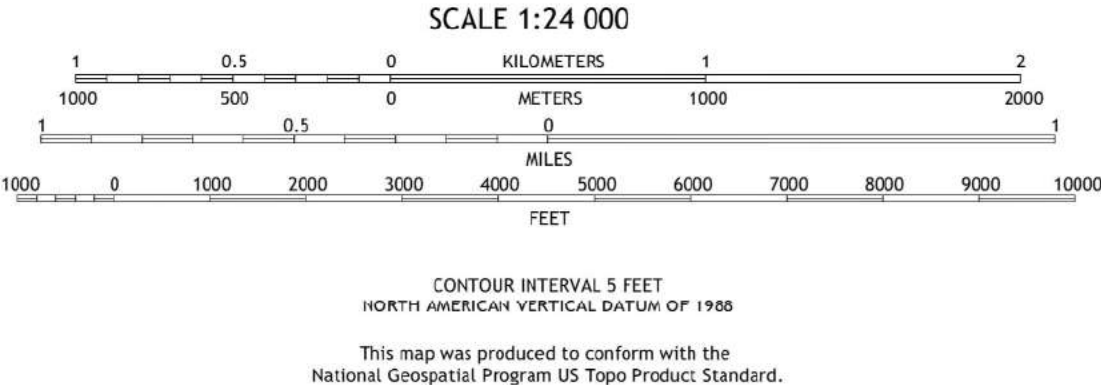
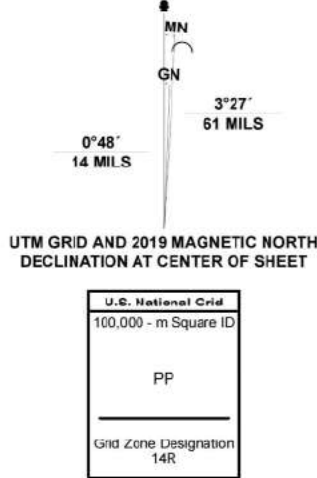


PORT ISABEL QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, November 2016 - January 2017
Roads.....U.S. Census Bureau, 2015
Names.....GNS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



PORT ISABEL, TX
2022



July 30, 2024

To Whom It May Concern:

PILOT Terminal facility at Port Isabel is providing access to Laguna Madre Water District ("LMWD") and NorrisLeal engineering to utilize our dock to install a temporary intake pipe that will be connected to the pilot-program equipment located across Port Road on adjacent property of Texas Pack. The access agreement will include authorization to access our facility for the purpose of operation and maintenance of the intake and equipment during the period of the pilot-program operation.

Best regards,

A handwritten signature in black ink that reads "Scott Brown".

Scott Brown – CEO