

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF AN APPLICATION FOR A WATER USE PERMIT

APPLICATION NO. 13828

Kiteboard Ranch, LLC (Applicant/Permittee) seeks authorization to maintain a dam and 1,186-acre-foot reservoir on Long Branch, Guadalupe River Basin for recreational purposes in Guadalupe County. Applicant will maintain the reservoir with groundwater. The application does not request a new appropriation of water. More information on the application and how to participate in the permitting process is given below.

APPLICATION. Kiteboard Ranch, LLC, 3571 Far West Blvd., No. 82, Austin, TX 78731, Applicant, has applied to the Texas Commission on Environmental Quality (TCEQ) for a Water Use Permit pursuant to Texas Water Code (TWC) § 11.121 and TCEQ Rules Title 30 Texas Administrative Code (TAC) § 295.1, *et seq.* Published and mailed notice is required to water right holders of record in the Guadalupe River Basin pursuant to Title 30 TAC §§ 295.151 - 295.153 and mailed notice to the Guadalupe County Groundwater Conservation District is required pursuant to Title 30 TAC § 295.153(b)(3).

Applicant seeks authorization to maintain a dam and reservoir located on Long Branch, tributary of Mill Creek, tributary of the Guadalupe River, Guadalupe River Basin and impound therein not to exceed 1,186 acre-feet of water for recreational purposes in Guadalupe County.

A point on the centerline of the dam is located at Latitude 29.623369° N, Longitude 97.845153° W in Guadalupe County in ZIP Code 78155.

Ownership of the lands to be inundated, by Kiteboard Ranch, LLC, is evidenced by *Special Warranty Deed*, recorded November 18, 2019, as Document No. 201999026548 in the Official Public Records of Guadalupe County.

Applicant provided evidence of an alternate source being groundwater from the Carrizo-Wilcox aquifer.

Applicant will discharge 50 acre-feet of groundwater per year anywhere along the perimeter of the reservoir, identified by a point located at Latitude 29.623369° N, Longitude 97.845153° W, at a maximum discharge rate of 0.45 cfs (200 gpm), in Guadalupe County, in ZIP Code 78155.

Partial fees were received on October 29, 2021 and the application was received on February 28, 2022. Additional information and fees were received on June 3, June 8 and September 1, 2022, August 18, 2023, and June 20 and September 4, 2024. The application was declared administratively complete and filed with the Office of the Chief Clerk on September 30, 2022.

The Executive Director completed the technical review of the application and prepared a draft permit. The draft permit, if granted, would contain special conditions including, but not limited to, use of an alternate source of water and maintaining an accounting plan. The application,

technical memoranda, and Executive Director's draft permit are available for viewing on the TCEQ web page at: https://www.tceq.texas.gov/permitting/water_rights/wr-permitting/view-wr-permit-apps. Alternatively, you may request a copy of the documents by contacting the TCEQ Office of the Chief Clerk by phone at (512) 239-3300 or by mail at TCEQ OCC, Notice Team (MC-105), P.O. Box 13087, Austin, Texas 78711.

PUBLIC COMMENT / PUBLIC MEETING. Written public comments and requests for a public meeting should be submitted to the Office of the Chief Clerk, at the address provided in the information section below, within 30 days of the date of newspaper publication of the notice. A public meeting is intended for the taking of public comment and is not a contested case hearing. A public meeting will be held if the Executive Director determines that there is a significant degree of public interest in the application.

CONTESTED CASE HEARING. The TCEQ may grant a contested case hearing on this application if a written hearing request is filed within 30 days from the date of newspaper publication of this notice. The Executive Director may approve the application unless a written request for a contested case hearing is filed within 30 days after newspaper publication of this notice.

To request a contested case hearing, you must submit the following: (1) your name (or for a group or association, an official representative), mailing address, daytime phone number, and fax number, if any; (2) applicant's name and permit number; (3) the statement "[I/we] request a contested case hearing;" (4) a brief and specific description of how you would be affected by the application in a way not common to the general public; and (5) the location and distance of your property relative to the proposed activity. You may also submit proposed conditions for the requested permit which would satisfy your concerns. Requests for a contested case hearing must be submitted in writing to the Office of the Chief Clerk at the address provided in the information section below.

If a hearing request is filed, the Executive Director will not issue the Permit and will forward the application and hearing request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

INFORMATION. Written hearing requests, public comments or requests for a public meeting should be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at <https://www14.tceq.texas.gov/epic/eComment/> by entering WRPERM 13828 in the search field. For information concerning the hearing process, please contact the Public Interest Counsel, MC 103, at the same address. For additional information, individual members of the general public may contact the Public Education Program at 1-800-687-4040. General information regarding the TCEQ can be found at our web site at <http://www.tceq.texas.gov/>. Si desea información en Español, puede llamar al 1-800-687-4040 o por el internet al <http://www.tceq.texas.gov>.

Issued: June 5, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



WATER USE PERMIT

PERMIT NO. 13828

TYPE § 11.121

Permittee: Kiteboard Ranch, LLC

Address: 3571 Far West Blvd., No. 82
Austin, Texas 78731

Filed: September 30, 2022

Granted:

Purposes: Recreation

County: Guadalupe

Watercourse: Long Branch

Watershed: Guadalupe River Basin

WHEREAS, Kiteboard Ranch, LLC (Applicant) seeks authorization to maintain a dam and reservoir located on Long Branch, tributary of Mill Creek, tributary of the Guadalupe River, Guadalupe River Basin and impound therein not to exceed 1,186 acre-feet of water for recreational purposes in Guadalupe County; and

WHEREAS, a point on the centerline of the dam is located at Latitude 29.623369° N, Longitude 97.845153° W in Guadalupe County; and

WHEREAS, Ownership of the lands to be inundated, by Kiteboard Ranch, LLC is evidenced by *Special Warranty Deed*, recorded November 18, 2019, as Document No. 201999026548 in the Official Public Records of Guadalupe County; and

WHEREAS, Applicant provided evidence of an alternate source being groundwater from the Carrizo-Wilcox aquifer; and

WHEREAS, Applicant will discharge up to 50 acre-feet of groundwater per year anywhere along the perimeter of the reservoir identified by a point located at Latitude 29.623369° N, Longitude 97.845153° W, at a maximum discharge rate of 0.45 cfs (200 gpm); and

WHEREAS, the Texas Commission on Environmental Quality finds that jurisdiction over the application is established; and

WHEREAS, this permit, if granted, is subject to requirements and orders of the South Texas Watermaster; and

WHEREAS, Applicants provided, and the Executive Director has approved, an accounting plan (*Broken Oak Dam Water Accounting Record*); and

WHEREAS, the Executive Director recommends that special conditions be included in the permit; and

WHEREAS, the Commission has complied with the requirements of the Texas Water Code and rules of the Texas Commission on Environmental Quality in issuing this Water Use Permit;

NOW, THEREFORE, this permit, designated as Water Use Permit No. 13828, is issued to Kiteboard Ranch, LLC, subject to the following terms and conditions:

1. IMPOUNDMENT

- A. Permittee is authorized to maintain a dam and reservoir on Long Branch impounding up to 1,186 acre-feet of water with the centerline of the dam being located at Latitude 29.623369° N, Longitude 97.845153° W in Guadalupe County.
- B. Ownership of the land to be inundated is evidenced by *Special Warranty Deed*, recorded November 18, 2019, as Document No. 201999026548 in the Official Public Records of Guadalupe County.

2. USE

Permittee is authorized to maintain the reservoir described in PARAGRAPH 1. IMPOUNDMENT for recreational purposes with no right of diversion.

3. DISCHARGE

- A. Permittee will discharge up to 50 acre-feet of groundwater per year anywhere along the perimeter of the reservoir identified by a point located at Latitude 29.623369° N, Longitude 97.845153° W.
- B. At a maximum discharge rate of 0.45 cfs (200 gpm).

4. TIME PRIORITY

- A. The time priority for the water right is September 30, 2022.
- B. The discharged groundwater does not have a priority date and is not subject to priority calls from senior water rights.

5. SPECIAL CONDITIONS

- A. Permittee is not authorized to impound state water. Permittee shall provide and maintain a pump, siphon or other acceptable device capable of passing all inflows to the reservoir to ensure that all inflows of state water are passed downstream.
- B. Permittee is not required to maintain the reservoir at the normal maximum operating capacity at all times and can allow the reservoir levels to vary depending on weather conditions provided all state water inflows determined in the accounting plan are passed downstream when the reservoir level is below the normal maximum operating capacity.
- C. Permittee shall maintain and operate an alternate source of water for this permit. Permittee identified groundwater from the Carrizo-Wilcox aquifer as the alternate source of water for this permit. In the event the groundwater from the Carrizo-Wilcox

aquifer will no longer be used as the alternate source of water for the permit, Permittee shall immediately cease impoundment and either apply to amend the permit with a new alternate source or voluntarily forfeit the permit.

- D. Permittee shall only impound groundwater as authorized by this permit in accordance with the most recently approved accounting plan (*Broken Oak Dam Water Accounting Record*). Permittee shall maintain said plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Broken Oak Dam Water Accounting Record* shall be approved by the Executive Director. Any modification to the accounting plan that changes the permit terms must be in the form of an amendment to the permit. Should Permittee fail to maintain the accounting plan or notify the Executive Director of any modifications to the plan, Permittee shall immediately cease impoundment authorized in Paragraph 1. IMPOUNDMENT, and either apply to amend the permit, or voluntarily forfeit the permit. Permittee shall immediately notify the Executive Director of any modifications to the accounting plan and provide the appropriate documents effectuating such changes.
- E. Permittee shall install and maintain measuring device(s), at the discharge point(s) into and out of the reservoir, capable of measuring within plus or minus 5% accuracy the volume of groundwater discharged into the reservoir and any volume of state water inflows passed downstream.
- F. Permittee shall allow the South Texas Watermaster reasonable access to the property to inspect the measuring devices and records.

6. TIME LIMITATIONS

- A. Modification of the dam must be in accordance with the plans and specifications approved by the Executive Director. Modification of the dam without final approval of the plans and specifications is a violation of this authorization.
- B. Modification shall begin within one year of issuance of this permit and be completed within two years of issuance of the permit unless Permittee applies for and is subsequently granted an extension of time before the expiration of these time limitations.
- C. Failure to modify the dam within the period stated above shall subject all rights to this permit to forfeiture, subject to notice and hearing. After beginning modification, failure to timely modify the dam stated above shall subject this permit to cancellation in whole or in part, subject to notice and hearing, and removal of the dam.

This permit is issued subject to all superior and senior water rights in the Guadalupe River Basin.

Permittee agrees to be bound by the terms, conditions and provisions contained herein and such agreement is a condition precedent to the granting of this permit.

All other matters requested in the application which are not specifically granted by this permit are denied.

This permit is issued subject to the Rules of the Texas Commission on Environmental Quality and to the right of continuing supervision of State water resources exercised by the Commission.

DATE ISSUED:

For the Commission

DRAFT

Re: Kiteboard_Ranch_13828_Draft_Permit_Notice_05.12.2025

From Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Date Mon 5/26/2025 8:14 PM

To Jessica Garate [REDACTED] Curt Campbell [REDACTED]

Cc Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Jessica Garate,

Thank you for your comments on the draft permit..

As you are aware, the application for Kiteboard Ranch No. 13828 will now proceed to notice. The Office of the Chief Clerk will provide you with the details and procedures for publishing notice. Once published, water right holders will have 30 days to comment.

Assuming that the draft permit is not protested, it will take around two to three weeks for the permit to be issued and signed by the executive director of TCEQ.

I hope this answers your question. I am now preparing the application file for review and then will forward it to the Office of the Chief Clerk for notice.

Any questions, please ask.

Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

RE: Kiteboard_Ranch_13828_Draft_Permit_Notice_05.12.2025

From Jessica Garate [REDACTED]
Date Thu 5/22/2025 3:13 PM
To Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Humberto Galvan <Humberto.Galvan@tceq.texas.gov>;
Curt Campbell [REDACTED]

Good afternoon Ms. Beerman,

We have reviewed the draft permit/notice for Kiteboard Ranch, LLC's application (WRPERM #13828) and everything looks good. We have no questions or comments on the contents of the draft.

I do have a question on timing though. Is there a standard or typical time range after the 30-day period has elapsed (*if* no one contests it) and the time the permit is finalized? Given we haven't gone through this process before, I didn't have an answer when our client asked if we can expect it in something like a couple of weeks or whether we can expect it to take months, or longer? Thank you.



Jessica Garate, P.G.
Project Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006
[REDACTED] Phone
[REDACTED] Fax
[REDACTED]

www.westwardenv.com



[REDACTED] 11235-002

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Kiteboard_Ranch_13828_Draft_Permit_Notice_05.12.2025

From Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Date Mon 5/12/2025 5:18 PM

To Curt Campbell <[REDACTED]>; Jessica Garate <[REDACTED]>

Cc Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>;
Humberto Galvan <Humberto.Galvan@tceq.texas.gov>

 1 attachment (754 KB)

Kiteboard_Ranch_13828_Draft_Permit_Notice_Sent_05.12.2025.pdf;

Mr. Campbell and Ms. Garate,

Please review the attached Draft Permit/Notice for Kiteboard Ranch, LLC's Application No. 13828 for a Water Use Permit. Comments are due COB Monday, May 26, 2025.

If you have any questions or concerns, do not hesitate to contact me.

Thank You,

[Lillian E. Beerman, Ph.D.](#)

[Water Rights Permitting Team](#)

[Water Availability Division](#)

[512-239-4019](#)

lillian.beerman@tceq.texas.gov

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 12, 2025

Mr. Curt G. Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin
Guadalupe County

Dear Mr. Campbell,

Drafts, subject to revision, of the public notice, proposed Water Use Permit No. 13828, and the related technical memoranda are attached.

Staff is recommending that the referenced application be granted in accordance with the attached drafts. Please review the drafts and contact me no later than May 26, 2025, with any comments or questions as the notice will be forwarded to the Office of the Chief Clerk for mailing after that date.

Please note this application requires a 30-day comment period and once the comment period has closed, the proposed Water Use Permit No. 13828 may be issued as drafted given no hearing requests are received.

If you have any questions concerning this matter, please contact me via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

Attachments

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



WATER USE PERMIT

PERMIT NO. 13828

TYPE § 11.121

Permittee: Kiteboard Ranch, LLC

Address: 3571 Far West Blvd., No. 82
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Filed: September 30, 2022

Granted:

Purposes: Recreation

County: Guadalupe

Watercourse: Long Branch

Watershed: Guadalupe River Basin

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WHEREAS, a point on the centerline of the dam is located at Latitude 29.623369° N, Longitude 97.845153° W in Guadalupe County; and

WHEREAS, Ownership of the lands to be inundated, by Kiteboard Ranch, LLC is evidenced by *Special Warranty Deed*, recorded November 18, 2019, as Document No. 201999026548 in the Official Public Records of Guadalupe County; and

WHEREAS, Applicant provided evidence of an alternate source being groundwater from the Carrizo-Wilcox aquifer; and

WHEREAS, Applicant will discharge up to 50 acre-feet of groundwater per year anywhere along the perimeter of the reservoir identified by a point located at Latitude 29.623369° N, Longitude 97.845153° W, at a maximum discharge rate of 0.45 cfs (200 gpm); and

WHEREAS, the Texas Commission on Environmental Quality finds that jurisdiction over the application is established; and

WHEREAS, this permit, if granted, is subject to requirements and orders of the South Texas Watermaster; and

WHEREAS, Applicants provided, and the Executive Director has approved, an accounting plan (*Broken Oak Dam Water Accounting Record*); and

WHEREAS, the Executive Director recommends that special conditions be included in the permit; and

WHEREAS, the Commission has complied with the requirements of the Texas Water Code and rules of the Texas Commission on Environmental Quality in issuing this Water Use Permit;

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- B. At a maximum discharge rate of 0.45 cfs (200 gpm).

4. TIME PRIORITY

- A. The time priority for the water right is September 30, 2022.
- B. The discharged groundwater does not have a priority date and is not subject to priority calls from senior water rights.

5. SPECIAL CONDITIONS

- A. Permittee is not authorized to impound state water. Permittee shall provide and maintain a pump, siphon or other acceptable device capable of passing all inflows to the reservoir to ensure that all inflows of state water are passed downstream.
- B. Permittee is not required to maintain the reservoir at the normal maximum operating capacity at all times and can allow the reservoir levels to vary depending on weather conditions provided all state water inflows determined in the accounting plan are passed downstream when the reservoir level is below the normal maximum operating capacity.
- C. Permittee shall maintain and operate an alternate source of water for this permit. Permittee identified groundwater from the Carrizo-Wilcox aquifer as the alternate source of water for this permit. In the event the groundwater from the Carrizo-Wilcox

aquifer will no longer be used as the alternate source of water for the permit, Permittee shall immediately cease impoundment and either apply to amend the permit with a new alternate source or voluntarily forfeit the permit.

- D. Permittee shall only impound groundwater as authorized by this permit in accordance with the most recently approved accounting plan (*Broken Oak Dam Water Accounting Record*). Permittee shall maintain said plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Broken Oak Dam Water Accounting Record* shall be approved by the Executive Director. Any modification to the accounting plan that changes the permit terms must be in the form of an amendment to the permit. Should Permittee fail to maintain the accounting plan or notify the Executive Director of any modifications to the plan, Permittee shall immediately cease impoundment authorized in Paragraph 1. IMPOUNDMENT, and either apply to amend the permit, or voluntarily forfeit the permit. Permittee shall immediately notify the Executive Director of any modifications to the accounting plan and provide the appropriate documents effectuating such changes.
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- A. Modification of the dam must be in accordance with the plans and specifications approved by the Executive Director. Modification of the dam without final approval of the plans and specifications is a violation of this authorization.
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This permit is issued subject to all superior and senior water rights in the Guadalupe River Basin.

Permittee agrees to be bound by the terms, conditions and provisions contained herein and such agreement is a condition precedent to the granting of this permit.

All other matters requested in the application which are not specifically granted by this permit are denied.

This permit is issued subject to the Rules of the Texas Commission on Environmental Quality and to the right of continuing supervision of State water resources exercised by the Commission.

DATE ISSUED:

For the Commission

DRAFT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF AN APPLICATION FOR A WATER USE PERMIT

APPLICATION NO. 13828

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CONTESTED CASE HEARING. The TCEQ may grant a contested case hearing on this application if a written hearing request is filed within 30 days from the date of newspaper publication of this notice. The Executive Director may approve the application unless a written request for a contested case hearing is filed within 30 days after newspaper publication of this notice.

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Issued:

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager
Water Rights Permitting Team

Date: October 4, 2024

Through: Leslie Patterson, Team Leader 
Resource Protection Team

From: Jennifer Allis, Senior Water Conservation Specialist
Resource Protection Team

Subject: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736
Long Branch, Guadalupe River Basin
Guadalupe County

APPLICATION SUMMARY

Kiteboard Ranch, LLC (Applicant) requests authorization to maintain a reservoir on Long Branch, Guadalupe River Basin, impounding 1,186 acre-feet of water for recreational purposes in Guadalupe County. Applicant indicates that groundwater from the Carrizo-Wilcox aquifer will be the alternate source of water for this permit.

WATER CONSERVATION REVIEW

Pursuant to Title 30 Texas Administrative Code §295.9, a water conservation plan is not required to be submitted for this application.

The application is consistent with the 2021 Region L Water Plan and the 2022 State Water Plan because there is nothing in the water plans that conflicts with issuing this permit.

RECOMMENDATIONS

Resource Protection Staff have no recommendations regarding the proposed permit, if granted.




Jennifer Allis, Senior Water Conservation Specialist

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager
Water Rights Permitting Team

Date: October 4, 2024

Through: Leslie Patterson, Team Leader 
Resource Protection Team

From: Kenneth Coonrod, Aquatic Scientist
Resource Protection Team

Subject: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736
Long Branch, Guadalupe River Basin
Guadalupe County

Environmental reviews of water right applications are conducted in accordance with applicable provisions of the Texas Water Code (TWC) and the administrative rules of the Texas Commission on Environmental Quality (TCEQ). The provisions applicable to environmental reviews can vary according to the type and the location of the authorization requested.

APPLICATION SUMMARY

Kiteboard Ranch, LLC (Applicant) requests authorization to maintain a reservoir on Long Branch, Guadalupe River Basin, impounding 1,186 acre-feet of water for recreational purposes in Guadalupe County. Applicant indicates that groundwater from the Carrizo-Wilcox aquifer will be the alternate source of water for this permit.

ENVIRONMENTAL ANALYSIS

Aquatic and Riparian Habitats: The Applicant's proposed project is located on Long Branch, an intermittent stream situated in the Southern Post Oak Savannah ecoregion (Griffith et al. 2004).

The checklist for the Guadalupe River Basin identified 65 species of ichthyofauna occurring within the Middle Guadalupe hydrologic unit (United States Geologic Survey code 12100202) (Hendrickson and Cohen 2015). The plateau shiner (*Cyprinella lepida*) and the Guadalupe bass (*Micropterus treculii*), high-interest aquatic species, are known to occur in Guadalupe County (TPWD 2024). This permit is not expected to have an effect on any high-interest aquatic species, because no additional state water is being requested by the Applicant.

On August 8, 2012, the TCEQ adopted environmental flow standards for the Guadalupe, San Antonio, Mission, and Aransas Rivers, and Mission, Copano,

Aransas, and San Antonio bays (Title 30 Texas Administrative Code (TAC) Chapter 298 Subchapter E). These environmental flow standards are considered adequate to support a sound ecological environment (Title 30 TAC §298.360). The Applicant does not request a new appropriation of water or an amendment that increases the amount of water stored, taken, or diverted; therefore, the environmental flow standards do not apply. The Applicant proposes to use groundwater as an alternate source of water. The Applicant's request is not expected to adversely impact aquatic and riparian habitats in the area.

Recreational Uses: The Applicant's reservoir has a presumed primary contact recreation 1 use (TCEQ 2022). The Applicant's request should not adversely impact recreational uses.

Water Quality: The Applicant's reservoir has a presumed high aquatic life use, and Long Branch has a presumed minimal aquatic life use (TCEQ 2022).

The Applicant indicates that the reservoir will be maintained with groundwater from seven wells drawing from the Carrizo-Wilcox aquifer. Resource Protection staff have reviewed the Applicant's groundwater quality information, and the groundwater to be used is of sufficient quality that it should not adversely impact water quality.

Freshwater Inflows: Freshwater inflows are critical for maintaining the historical productivity of bays and estuaries along the Gulf Coast. The application does not request a new appropriation of water; therefore, the City's request should not have any impact to San Antonio Bay.

RECOMMENDATIONS

Resource Protection staff have no recommendations regarding this proposed permit, if granted.

LITERATURE CITED

Griffith, G.E., S.A. Bryce, J.M. Omernik, J.A. Comstock, A.C. Rogers, B. Harrison, S.L. Hatch, and D. Bezanson. 2004. Ecoregions of Texas. (2-sided color poster with map, descriptive text, and photographs). U.S. Geological Survey, Reston, VA. Scale 1:2,500,000.

Hendrickson DA, Cohen AE. 2015. Fishes of Texas Project Database [Internet]. [cited 2024 Sep 20]; Version 2.0. Available from <http://doi.org/10.17603/C3WC70>.

TCEQ. 2022. Texas Surface Water Quality Standards §§307.1-307.10. Austin (TX): Texas Commission on Environmental Quality.

TPWD. 2024. TPWD County Lists of Texas Protected Species and Species of Greatest Conservation Need [Internet]. Austin (TX): Guadalupe County, revised August 22, 2024. [cited 2024 Sep 20]. Available from <http://tpwd.texas.gov/gis/rtest/>.

Kenneth Coonrod

Kenneth Coonrod, Aquatic Scientist

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman
Water Rights Permitting Team

Date: October 6, 2022

Thru:

From: Warren D. Samuelson, P. E., Manager
Dam Safety Section MC-177

Subject: Kiteboard Ranch, LLC (13828), Application for a permit to authorize the modification and maintenance of a dam and reservoir, Long Branch, Guadalupe River Basin, Guadalupe County

Kiteboard Ranch, LLC, seeks authorization to modify and maintain a dam and reservoir (Broken Oak Dam) with a capacity of 1,186 acre-feet for recreational purposes in Guadalupe County.

The dam was inspected by the TCEQ Dam Safety Section on July 12, 2019. The dam was found to be in good condition; however, modifications were recommended so the dam could meet state standards. The applicant's engineer has submitted draft plans and specifications to the TCEQ Dam Safety Section for review. The plans and specifications and accompanying reports are currently being reviewed.

It is recommended that the permit include the following language:

TIME LIMITATIONS

- A. Modification of the dam must be in accordance with the plans and specifications approved by the Executive Director. Modification of the dam without final approval of the plans and specifications is a violation of this authorization.
- B. Modification shall begin within one year of issuance of this permit and be completed within two years of issuance of the permit unless Permittee applies for and is subsequently granted an extension of time before the expiration of these time limitations.
- C. Failure to modify the dam within the period stated above shall subject all rights to this permit to forfeiture, subject to notice and hearing. After beginning modification, failure to timely modify the dam stated above shall subject this permit to cancellation in whole or in part, subject to notice and hearing, and removal of the dam.

Warren D. Samuelson

Warren D. Samuelson, P. E., Manager, Dam Safety Section

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager
Water Rights Permitting Team

Date: December 12, 2024

Through: *KA* Kathy Alexander, Ph.D., Policy and Technical Analyst
Water Availability Division

TG Trent Gay, Team Leader
Surface Water Availability Team

From: Andrew Maria, Hydrologist
Surface Water Availability Team

Subject: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736
Long Branch, Guadalupe River Basin
Guadalupe County

HYDROLOGY REVIEW

Application Summary

Kiteboard Ranch, LLC (Applicant) requests authorization to maintain a reservoir on Long Branch, Guadalupe River Basin, impounding 1,186 acre-feet of water for recreational purposes in Guadalupe County. Applicant indicates that groundwater from the Carrizo-Wilcox aquifer will be the alternate source of water for this permit.

Applicant submitted an accounting plan on June 3, 2022. The accounting plan was subsequently revised on August 18, 2023, June 20, 2024, and a final version was submitted on September 4, 2024.

The application was declared administratively complete on September 30, 2022.

Hydrology Review

Resource Protection staff did not recommend instream flow requirements for this application. See Resource Protection staff's October 4, 2024, memorandum.

The application does not request a new appropriation of water; therefore, a water availability analysis is not necessary. However, the application must be reviewed to ensure that no water rights are affected by the request.

The application was evaluated to determine if the alternate source provided is adequate to compensate for evaporative losses from the reservoir. Based on evaporation data from the TCEQ Water Availability Model (WAM) for the Guadalupe River Basin, Quadrangle 810, staff determined the annual maximum evaporation

from the reservoir is 476.5 acre-feet per year with an estimated monthly maximum of 83.1 acre-feet.

Based on the application, the alternate source (50 acre-feet of groundwater) will not be sufficient to keep the reservoir full and spilling. However, the application indicated that when the reservoir is not kept full and spilling with the alternate source the Applicant will pass all state water downstream by calculating the volume of state water inflows and pumping those inflows downstream.

Applicant submitted an accounting plan, *Broken Oak Dam Water Accounting Record*, that tracks:

- the amount of discharged groundwater;
- evaporation losses;
- all inflows of state water entering the reservoir, including drainage area runoff and direct precipitation on the surface of the reservoir; and
- the volume of state water inflows that are passed downstream.

Staff reviewed the accounting plan and found it adequately documents compliance with the terms and conditions of the proposed permit. Staff believes that maintenance of the approved accounting plan will ensure that no state water is used and that no impacts to other water rights in the Guadalupe Basin will occur.

In addition, the application is subject to the requirements and orders of the South Texas Watermaster. The Watermaster actively manages water rights on a daily basis and protects senior water rights in times of shortage. Therefore, existing water rights should not be affected by the application.

Conclusion

Hydrology staff can support granting the application provided the permit includes the following special conditions:

1. Permittee is not authorized to impound state water. Permittee shall provide and maintain a pump, siphon or other acceptable device capable of passing all inflows to the reservoir to ensure that all inflows of state water are passed downstream.
2. Permittee is not required to maintain the reservoir at the normal maximum operating capacity at all times and can allow the reservoir levels to vary depending on weather conditions provided all state water inflows determined in the accounting plan are passed downstream when the reservoir level is below the normal maximum operating capacity.
3. Permittee shall maintain and operate an alternate source of water for this permit. Permittee identified groundwater from the Carrizo-Wilcox aquifer as the alternate source of water for this permit. In the event the groundwater from the Carrizo-Wilcox aquifer will no longer be used as the alternate source of water for the permit, Permittee shall immediately cease impoundment and

either apply to amend the permit with a new alternate source, or voluntarily forfeit the permit.

4. Permittee shall install and maintain measuring device(s), at the discharge point(s) into and out of the reservoir, capable of measuring within plus or minus 5% accuracy the volume of groundwater discharged into the reservoir and any volume of state water inflows passed downstream.
5. Permittee shall only impound groundwater as authorized by this permit in accordance with the most recently approved *Broken Oak Dam Water Accounting Record*. Permittee shall maintain said plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Broken Oak Dam Water Accounting Record* shall be approved by the Executive Director. Any modification to the accounting plan that changes the permit terms must be in the form of an amendment to the permit. Should Permittee fail to maintain the accounting plan or notify the Executive Director of any modifications to the plan, Permittee shall immediately cease impoundment authorized in Paragraph 1. IMPOUNDMENT, and either apply to amend the permit, or voluntarily forfeit the permit. Permittee shall immediately notify the Executive Director of any modifications to the accounting plan and provide the appropriate documents effectuating such changes.

Note that the application is subject to the requirements and orders of the South Texas Watermaster.

Andrew Maria

Andrew Maria, Hydrologist

RE: Kiteboard Ranch's Permit Application No. 13828

From Jessica Garate <[REDACTED]>
Date Wed 2/26/2025 3:34 PM
To Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thank you so much for the update!

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Wednesday, February 26, 2025 3:31 PM
To: Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Re: Kiteboard Ranch's Permit Application No. 13828

Jessica,
There has been no change in the status of Kiteboard Ranch 13823. Technical Review is complete, and the draft permit is in section review.
If you have any further questions, please let me know.
Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Wednesday, February 26, 2025 2:52 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Kiteboard Ranch's Permit Application No. 13828

Good afternoon, Ms. Beerman.

I'm checking in on the status of Kiteboard Ranch's Water Use Permit Application No. 13828. Would you be able to let me know if it is near completion or whether there are additional technical questions or more information that we will need to provide? Any update is greatly appreciated.



Jessica Garate, P.G.

Project Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax



Proj #11235-002

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RE: Kiteboard Ranch's Permit Application No. 13828

From Jessica Garate <[REDACTED]>
Date Fri 1/24/2025 2:09 PM
To Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thank you very much for the update!



Jessica Garate, P.G.
Project Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006
[REDACTED] Phone
[REDACTED] Fax
[REDACTED]
[REDACTED]



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Friday, January 24, 2025 11:11 AM
To: Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Re: Kiteboard Ranch's Permit Application No. 13828

Jessica,
The draft permit is in review. I will keep you apprised of any updates.
Thank you and have a nice weekend.

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Friday, January 24, 2025 10:45 AM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc: Curt Campbell <[REDACTED]>; Chris Pepper <[REDACTED]>
Subject: Kiteboard Ranch's Permit Application No. 13828

Good morning, Ms. Beerman.

I am checking on the status of Kiteboard Ranch's Water Use Permit Application No. 13828 to see if there has been any change at all. Any update would be much appreciated. Thank you and have a great weekend!



Jessica Garate, P.G.
Project Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006
[REDACTED] Phone
[REDACTED] Fax
[REDACTED]
[REDACTED]



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RE: Water Rights Permit Status

From Jessica Garate [REDACTED]
Date Mon 11/18/2024 8:33 AM
To Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc Curt Campbell <[REDACTED]>

Good morning, Ms. Beerman.

Thank you so much for the update!



Jessica Garate, P.G.
Project Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax
[REDACTED]
[REDACTED]



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Friday, November 15, 2024 12:33 PM
To: Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Re: Water Rights Permit Status

Ms. Jessica Garate,
Application No. 13828 for Kiteboard Ranch is still in Technical Review. I have not received any additional requests for information from the Technical Team since your latest response. Please do not hesitate to ask if you have any concerns and I would be happy to keep you updated.

Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Friday, November 8, 2024 6:06 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc: Curt Campbell <[REDACTED]>
Subject: Water Rights Permit Status

Good evening, Ms. Beerman.

I wanted to get an e-mail out to you before the week was over to ask about an update on Kiteboard Ranch's Water Use Permit Application No. 13828. If I attempt to wait until next week, I will probably forget! Any update would be helpful. Thank you and have a great weekend!



Jessica Garate, P.G.
Project Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

Phone
Fax



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RE: Kiteboard_Ranch_13828_Technical_Request_for_Information_08.05.2023

Jessica Garate [REDACTED]

Wed 9/4/2024 5:02 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Curt Campbell [REDACTED]

📎 3 attachments (1 MB)

240904_11235-002_WRPERM_13828_Technical_Review-RFI-3.pdf; ATTACH_A_11235-002_Water_Accounting_Plan-Revised_2.xlsx; ATTACH_B_Water Accounting Plan_Description-Revised_2.txt;

Ms. Beerman,

Please find attached here Kiteboard Ranch's Response to the Technical Request for Information for Application No. 13828. Thank you for your assistance in this matter.



Jessica Garate, P.G.

Project Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

Phone

Fax



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Thank you for your cooperation.

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Tuesday, September 3, 2024 1:50 PM

To: Jessica Garate [REDACTED] Curt Campbell [REDACTED]

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: Kiteboard_Ranch_13828_Technical_Request_for_Information_08.05.2023

Ms. Garate,

I wish to remind you that Kiteboard Ranch's Response to the Technical Request for Information for Application No. 13828 is due tomorrow.

If you have any issues or concerns, do not hesitate to contact me.

Thank You,



September 4, 2024

Project No. 11235-002

Ms. Lillian E. Beerman, Ph.D.
Texas Commission on Environmental Quality
Water Rights Permitting Team
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087
lillian.beerman@tceq.texas.gov

Subject: Response to Request for Additional Information
Kiteboard Ranch, LLC – CN605929736, RN111448155
Application for a Water Use Permit - WRPERM 13828
Long Branch, Guadalupe River Basin

Dear Ms. Beerman,

Please accept the following responses to the Additional Information request dated August 5, 2024, regarding the above-referenced application for a Water Use Permit on behalf of Kiteboard Ranch, LLC.

Comment 1: Correct the accounting plan to account for rainfall on the reservoir surface. Staff notes precipitation directly on the reservoir surface should not be included in the calculation of runoff into the reservoir.

a: Correct the spelling of “storativity” in cell F7 in the accounting plan worksheets Monthly tabs.

Response 1: Please see the attached Water Accounting Plan which has been revised to account for rainfall on the reservoir surface and is not included in the calculation for runoff into the reservoir (Attachment A). A revised text file that includes the columns added to the revised Water Accounting Plan is also attached (Attachment B).

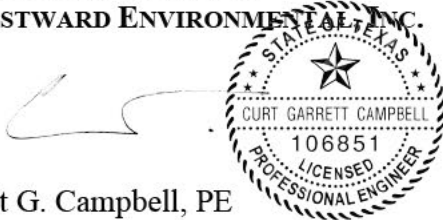
a. Please see the attached Water Accounting Plan spreadsheet which has been revised to reflect the correct spelling of “storativity” in cell H7 (previously F7) in the accounting plan worksheets Monthly tabs (Attachment A).



WESTWARD will continue to serve as the technical contact for Kiteboard Ranch, LLC on this project. Please ensure that WESTWARD is copied on all correspondence, including the final approval. If you have any questions or require additional information, please contact our office at 830-249-8284.

Respectfully submitted,

WESTWARD ENVIRONMENTAL, INC.



Curt G. Campbell, PE
VP Engineering & Natural Resources
TX License No. 106851 | TX Firm No. 4524

Attachment A: Water Accounting Plan-Revised_2 (pdf & excel files)

Attachment B: Water Accounting Plan Description-Revised_2 (pdf & text files)

Distribution: Addressee
WEI 11235-002 File

Kiteboard Ranch, LLC
WRPERM 13828 – Response to Additional Information #3
11235-002

Westward Environmental, Inc.
September 4, 2024

ATTACHMENT A
Water Accounting Plan Revised_2

**Broken Oak Dam
Water Accounting Record
Annual**

Year	
-------------	--

Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)	Delta (ac-ft)
January	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	January												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be corrected for gauge accuracy verification
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0					0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>February</div> <div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1535.60</div> <div>Storativity</div> <div>3.89</div> </div> </div> <div>*This column will be cc gauge accuracy verifi</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	March												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be confirmed by a certified gauge accuracy verification
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	April												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be compared to gauge accuracy verification
7			Site Drainage Area (ac)				1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	May												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be compared to gauge accuracy verification
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	June												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the user. If the gauge accuracy verification is not performed, the value will be 0.00.
7			Site Drainage Area (ac)		1535.60				Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	July												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be covered by the gauge accuracy verification
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	August												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be covered by the gauge accuracy verification
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	September												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be confirmed by a certified gauge accuracy verification
7			Site Drainage Area (ac)				1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	October												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the user. Please verify gauge accuracy verification.
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00
41													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	November												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the user. If the gauge accuracy verification is not performed, the value will be 0.00.
7			Site Drainage Area (ac)		1535.60				Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2	Broken Oak Dam														
3	Water Accounting Record														
4	DECEMBER														
5	Inputs														
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification		
7			Site Drainage Area (ac)		1535.60		Storativity		3.89						
8															
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0	0	0		0			0			
11	2		0	0	0	0	0		0			0			
12	3		0	0	0	0	0		0			0			
13	4		0	0	0	0	0		0			0			
14	5		0	0	0	0	0		0			0			
15	6		0	0	0	0	0		0			0			
16	7		0	0	0	0	0		0			0			
17	8		0	0	0	0	0		0			0			
18	9		0	0	0	0	0		0			0			
19	10		0	0	0	0	0		0			0			
20	11		0	0	0	0	0		0			0			
21	12		0	0	0	0	0		0			0			
22	13		0	0	0	0	0		0			0			
23	14		0	0	0	0	0		0			0			
24	15		0	0	0	0	0		0			0	0.00		
25	16		0	0	0	0	0		0			0			
26	17		0	0	0	0	0		0			0			
27	18		0	0	0	0	0		0			0			
28	19		0	0	0	0	0		0			0			
29	20		0	0	0	0	0		0			0			
30	21		0	0	0	0	0		0			0			
31	22		0	0	0	0	0		0			0			
32	23		0	0	0	0	0		0			0			
33	24		0	0	0	0	0		0			0			
34	25		0	0	0	0	0		0			0			
35	26		0	0	0	0	0		0			0			
36	27		0	0	0	0	0		0			0			
37	28		0	0	0	0	0		0			0			
38	29		0	0	0	0	0		0			0			
39	30		0	0	0	0	0		0			0			
40	31		0	0	0	0	0		0			0	0.00		

Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

Kiteboard Ranch, LLC
WRPERM 13828 – Response to Additional Information #3
11235-002

Westward Environmental, Inc.
September 4, 2024

ATTACHMENT B
Water Accounting Plan Description-Revised_2

WATER ACCOUNTING PLAN DESCRIPTION

Summary of the proposed water right authorization:

Applicant seeks authorization for water use to replace the amount of surface water on the lake that would be expected to flow downstream via pumping from private groundwater wells so that there is no consumptive use or impoundment of state water while maintaining the lake levels for recreational use and to maintain the surface water flow for downstream users.

Summary of the accounting plan:

The Water Accounting Plan calculates the amount of inflow entering the lake from the drainage basin and exiting through the spillway. The net difference between these values is considered potentially impounded surface water and will be released as surface water flow to downstream users. The water used to provide this downstream flow will be pumped from the lake into the downstream conveyance. Groundwater will be used to maintain the lake levels.

The inflow will be measured by taking water level readings from a rain gauge to be installed onsite. These readings will be converted to runoff values from the watershed based on the hydrologic calculations in the spreadsheet. The outflow will be measured using a weir depth gauge at the spillway. Readings for inflow and outflow will be taken after each precipitation event, with the calculated difference being the amount of runoff expected to flow downstream. This is the amount that will be pumped from the groundwater wells and to the surface.

Narrative of each table and column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanation of the calculations:

The accounting plan consists of a spreadsheet that tracks the following values daily (explained in greater detail below):

- * Column A: Day
- * Column B: Groundwater Volume Added (gal)
- * Column C: Onsite Precipitation (in)
- * Column D: Drainage Area Runoff (in)
- * Column E: Drainage Area Runoff (ac-ft)
- * Column F: Direct Rainfall to Pond (ac-ft)
- * Column G: Total Inflow to Pond (ac-ft)
- * Column H: Lake Elevation (ft amsl)
- * Column I: Water Level Increase (ft)
- * Column J: Stage Storage Volume (ac-ft)
- * Column K: Discharge Over Outlet Wier (ac-ft)
- * Column L: Retained Surface Water (ac-ft)
- * Column M: Required Release Volume (ac-ft)
- * Column N: Volume Released (ac-ft)
- * Column O: Comments

There are tabs for every month of the year (JAN through DEC) allowing tracking of each of the values above for every day of the year. The first tab in the spreadsheet is an ANNUAL tab which calculates monthly totals of Groundwater Volume (ac-ft), Retained Surface Water (ac-ft), and Volume Released (ac-ft), and sums up those values to provide an annual total. The Delta (ac-ft) column shows the difference between the amount of Surface Water Retained and the amount of Surface Water Released. A positive delta value shows that more water has been released than retained, thereby showing that no impoundment of water has occurred.

The last tab in the spreadsheet is Stage Storage which is the estimated storage volume of the lake (ac-ft) at a given elevation level (ft amsl). These values were derived from a volumetric analysis using AutoCAD Civil. The lake boundary line was provided by a survey performed in 2020 by Kimley Horn. The source used for elevation data is USGS 3D Elevation Program (3.644-meter resolution).

The following is a description of each column as it appears in the table for each monthly tab. Where a value is to be entered, the source of that data is provided. Where a calculation is to be made, an explanation of the calculation is provided. Column A: Day is the numerical representation of the day according to the calendar for each month.

Column B: Groundwater Volume Added (gal) is the volume of water that will be added to the lake by pumping the wells.

Column C: Onsite Precipitation (in) is the rainfall that is measured from the onsite rain gauge. This measured value will be taken and recorded after each 24-hour period which includes a precipitation event.

Column D: Drainage Area Runoff (in) calculates the amount of precipitation (from column C) that is expected to run off as downstream flow from the drainage basin. If the rainfall is zero (0), then the runoff is also zero (0). If the amount of rain is less than 1 inch, then that amount is assumed to be 1%. If the rainfall exceeds 1 inch, the SCS method for calculating runoff is applied.

Column E: Drainage Area Runoff (ac-ft) is the conversion to acre-feet from the value in column D, multiplied by the site drainage area (ac).

Column F: Direct Rainfall to Pond (ac-ft) is the amount of rainfall that lands on the surface of the pond, which is fixed at 98.40 acres.

Column G: Total Inflow to Pond (ac-ft) is the sum of the Drainage Area Runoff (from Column E) and the Direct Rainfall (from Column F) that is expected to flow or fall directly into the pond.

Column H: Lake Elevation (ft amsl) is the elevation of the lake above mean sea level, provided by an onsite floating gauge.

Column I: Water Level Increase (ft) is the increase of lake elevation from one day to the next. This is calculated by subtracting the previous day's elevation from the lake elevation of the current day if the current day's lake elevation is a greater number.

Column J: Stage Storage Volume (ac-ft) is the volume of the lake at a given elevation level (ft).

Column K: Discharge Over Outlet Weir (ac-ft) is the amount of water exiting the spillway which will be measured on the 1st and 15th day of each month as it flows over the weir gauge. It will be measured by taking a visual reading of the water level elevation exiting the weir and using a depth-to-discharge reference sheet that includes pre-populated flow rates. The reading will be provided by a depth gauge located next to the weir. A float and recording device will also be installed to measure flow over the weir over time.

Column L: Retained Surface Water (ac-ft) is the calculated difference between the water that flows into the pond and the water that is discharge over the outlet Weir (ac-ft). This is calculated by subtracting the Discharge Over Outlet Weir (ac-ft) from the Total Inflow to Pond (ac-ft).

Column M: Required Release Volume (ac-ft) is the amount of groundwater that is required to be released as part of this accounting plan. This value will be taken

two times per month, on the 15th day and on the last day of each month.

Column N: Volume Released (ac-ft) is the amount of surface water pumped out of the reservoir and released into the channel downstream.

Column O: Comments are to be filled as necessary according to user discretion. is the amount of groundwater that was actually released from pumping. This value should correspond to the Required Release Volume above.

**Broken Oak Dam
Water Accounting Record
Annual**

Year	
-------------	--

Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)	Delta (ac-ft)
January	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	January												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated based on rain gauge accuracy verification
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0					0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> Broken Oak Dam Water Accounting Record February </div> <div> Lake Surface Area (acres) 98.40 Water Surface Elevation (ft amsl) 520.00 Site Drainage Area (ac) 1535.60 Runoff Curve Number 72 Storativity 3.89 </div> <div>*This column will be c rain gauge accuracy v</div> </div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	March												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be c rain gauge accuracy v
7			Site Drainage Area (ac)				1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	April												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the rain gauge accuracy value
7			Site Drainage Area (ac)				1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Inputs</div> <div> <div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>May</div> </div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1535.60</div> <div>Storativity</div> <div>3.89</div> </div> <div>*This column will be c rain gauge accuracy v</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	June												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the rain gauge accuracy value
7			Site Drainage Area (ac)				1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	July												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be c rain gauge accuracy v
7			Site Drainage Area (ac)				1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	August												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be c rain gauge accuracy v
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	September												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the rain gauge accuracy value
7			Site Drainage Area (ac)		1535.60				Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	October												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be calculated by the rain gauge accuracy value
7					Site Drainage Area (ac)		1535.60		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	
40	31		0	0	0	0	0		0			0	0.00
41													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>November</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1535.60</div> <div>Storativity</div> <div>3.89</div> </div> <div>*This column will be c</div> <div>rain gauge accuracy v</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)
10	1		0	0	0	0	0		0			0	
11	2		0	0	0	0	0		0			0	
12	3		0	0	0	0	0		0			0	
13	4		0	0	0	0	0		0			0	
14	5		0	0	0	0	0		0			0	
15	6		0	0	0	0	0		0			0	
16	7		0	0	0	0	0		0			0	
17	8		0	0	0	0	0		0			0	
18	9		0	0	0	0	0		0			0	
19	10		0	0	0	0	0		0			0	
20	11		0	0	0	0	0		0			0	
21	12		0	0	0	0	0		0			0	
22	13		0	0	0	0	0		0			0	
23	14		0	0	0	0	0		0			0	
24	15		0	0	0	0	0		0			0	0.00
25	16		0	0	0	0	0		0			0	
26	17		0	0	0	0	0		0			0	
27	18		0	0	0	0	0		0			0	
28	19		0	0	0	0	0		0			0	
29	20		0	0	0	0	0		0			0	
30	21		0	0	0	0	0		0			0	
31	22		0	0	0	0	0		0			0	
32	23		0	0	0	0	0		0			0	
33	24		0	0	0	0	0		0			0	
34	25		0	0	0	0	0		0			0	
35	26		0	0	0	0	0		0			0	
36	27		0	0	0	0	0		0			0	
37	28		0	0	0	0	0		0			0	
38	29		0	0	0	0	0		0			0	
39	30		0	0	0	0	0		0			0	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O			
1	Broken Oak Dam																	
2	Water Accounting Record																	
3	DECEMBER																	
4	Inputs																	
5																		
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification					
7			Site Drainage Area (ac)		1535.60		Storativity		3.89									
8																		
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Drainage Area Runoff (in)	Drainage Area Runoff (ac-ft)	Direct Rainfall to pond (ac-ft)	Total Inflow to Pond (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments			
10	1		0	0	0	0	0		0			0						
11	2			0	0	0	0		0			0						
12	3		0	0	0	0	0		0			0						
13	4		0	0	0	0	0		0			0						
14	5		0	0	0	0	0		0			0						
15	6		0	0	0	0	0		0			0						
16	7		0	0	0	0	0		0			0						
17	8		0	0	0	0	0		0			0						
18	9		0	0	0	0	0		0			0						
19	10		0	0	0	0	0		0			0						
20	11			0	0	0	0		0			0						
21	12		0	0	0	0	0		0			0						
22	13		0	0	0	0	0		0			0						
23	14		0	0	0	0	0		0			0						
24	15		0	0	0	0	0		0			0	0.00					
25	16		0	0	0	0	0		0			0						
26	17		0	0	0	0	0		0			0						
27	18		0	0	0	0	0		0			0						
28	19		0	0	0	0	0		0			0						
29	20			0	0	0	0		0			0						
30	21		0	0	0	0	0		0			0						
31	22		0	0	0	0	0		0			0						
32	23			0	0	0	0		0			0						
33	24		0	0	0	0	0		0			0						
34	25		0	0	0	0	0		0			0						
35	26		0	0	0	0	0		0			0						
36	27		0	0	0	0	0		0			0						
37	28		0	0	0	0	0		0			0						
38	29			0	0	0	0		0			0						
39	30		0	0	0	0	0		0			0						
40	31		0	0	0	0	0		0			0	0.00					

Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

WATER ACCOUNTING PLAN DESCRIPTION

Summary of the proposed water right authorization:

Applicant seeks authorization for water use to replace the amount of surface water on the lake that would be expected to flow downstream via pumping from private groundwater wells so that there is no consumptive use or impoundment of state water while maintaining the lake levels for recreational use and to maintain the surface water flow for downstream users.

Summary of the accounting plan:

The Water Accounting Plan calculates the amount of inflow entering the lake from the drainage basin and exiting through the spillway. The net difference between these values is considered potentially impounded surface water and will be released as surface water flow to downstream users. The water used to provide this downstream flow will be pumped from the lake into the downstream conveyance. Groundwater will be used to maintain the lake levels.

The inflow will be measured by taking water level readings from a rain gauge to be installed onsite. These readings will be converted to runoff values from the watershed based on the hydrologic calculations in the spreadsheet. The outflow will be measured using a weir depth gauge at the spillway. Readings for inflow and outflow will be taken after each precipitation event, with the calculated difference being the amount of runoff expected to flow downstream. This is the amount that will be pumped from the groundwater wells and to the surface.

Narrative of each table and column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanation of the calculations:

The accounting plan consists of a spreadsheet that tracks the following values daily (explained in greater detail below):

- * Column A: Day
- * Column B: Groundwater Volume Added (gal)
- * Column C: Onsite Precipitation (in)
- * Column D: Drainage Area Runoff (in)
- * Column E: Drainage Area Runoff (ac-ft)
- * Column F: Direct Rainfall to Pond (ac-ft)
- * Column G: Total Inflow to Pond (ac-ft)
- * Column H: Lake Elevation (ft amsl)
- * Column I: Water Level Increase (ft)
- * Column J: Stage Storage Volume (ac-ft)
- * Column K: Discharge Over Outlet Wier (ac-ft)
- * Column L: Retained Surface Water (ac-ft)
- * Column M: Required Release Volume (ac-ft)
- * Column N: Volume Released (ac-ft)
- * Column O: Comments

There are tabs for every month of the year (JAN through DEC) allowing tracking of each of the values above for every day of the year. The first tab in the spreadsheet is an ANNUAL tab which calculates monthly totals of Groundwater Volume (ac-ft), Retained Surface Water (ac-ft), and Volume Released (ac-ft), and sums up those values to provide an annual total. The Delta (ac-ft) column shows the difference between the amount of Surface Water Retained and the amount of Surface Water Released. A positive delta value shows that more water has been released than retained, thereby showing that no impoundment of water has occurred.

The last tab in the spreadsheet is Stage Storage which is the estimated storage volume of the lake (ac-ft) at a given elevation level (ft amsl). These values were derived from a volumetric analysis using AutoCAD Civil. The lake boundary line was provided by a survey performed in 2020 by Kimley Horn. The source used for elevation data is USGS 3D Elevation Program (3.644-meter resolution).

The following is a description of each column as it appears in the table for each monthly tab. Where a value is to be entered, the source of that data is provided. Where a calculation is to be made, an explanation of the calculation is provided.

Column A: Day is the numerical representation of the day according to the calendar for each month.

Column B: Groundwater Volume Added (gal) is the volume of water that will be added to the lake by pumping the wells.

Column C: Onsite Precipitation (in) is the rainfall that is measured from the onsite rain gauge. This measured value will be taken and recorded after each 24-hour period which includes a precipitation event.

Column D: Drainage Area Runoff (in) calculates the amount of precipitation (from column C) that is expected to run off as downstream flow from the drainage basin. If the rainfall is zero (0), then the runoff is also zero (0). If the amount of rain is less than 1 inch, then that amount is assumed to be 1%. If the rainfall exceeds 1 inch, the SCS method for calculating runoff is applied.

Column E: Drainage Area Runoff (ac-ft) is the conversion to acre-feet from the value in column D, multiplied by the site drainage area (ac).

Column F: Direct Rainfall to Pond (ac-ft) is the amount of rainfall that lands on the surface of the pond, which is fixed at 98.40 acres.

Column G: Total Inflow to Pond (ac-ft) is the sum of the Drainage Area Runoff (from Column E) and the Direct Rainfall (from Column F) that is expected to flow or fall directly into the pond.

Column H: Lake Elevation (ft amsl) is the elevation of the lake above mean sea level, provided by an onsite floating gauge.

Column I: Water Level Increase (ft) is the increase of lake elevation from one day to the next. This is calculated by subtracting the previous day's elevation from the lake elevation of the current day if the current day's lake elevation is a greater number.

Column J: Stage Storage Volume (ac-ft) is the volume of the lake at a given elevation level (ft).

Column K: Discharge Over Outlet Wier (ac-ft) is the amount of water exiting the spillway which will be measured on the 1st and 15th day of each month as it flows over the weir gauge. It will be measured by taking a visual reading of the water level elevation exiting the weir and using a depth-to-discharge reference sheet that includes pre-populated flow rates. The reading will be provided by a depth gauge located next to the weir. A float and recording device will also be installed to measure flow over the weir over time.

Column L: Retained Surface Water (ac-ft) is the calculated difference between the water that flows into the pond and the water that is discharge over the outlet Weir (ac-ft). This is calculated by subtracting the Discharge Over Outlet Weir (ac-ft) from the Total Inflow to Pond (ac-ft).

Column M: Required Release Volume (ac-ft) is the amount of groundwater that is required to be released as part of this accounting plan. This value will be taken two times per month, on the 15th day and on the last day of each month.

Column N: Volume Released (ac-ft) is the amount of surface water pumped out of the reservoir and released into the channel downstream.

Column O: Comments are to be filled as necessary according to user discretion. is the amount of groundwater that was actually released from pumping. This value should correspond to the Required Release Volume above.

RE: Kiteboard_Ranch_13828

From Jessica Garate <[REDACTED]>
Date Tue 8/27/2024 2:06 PM
To Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thank you so much for the accommodation, Lillian!

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Tuesday, August 27, 2024 2:03 PM
To: Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Curt Campbell <[REDACTED]@denv.com>
Subject: Re: Kiteboard_Ranch_13828

Jessica,
You should receive an invitation with the revised starting time 3:33pm, soon.
Thank You, Lillian

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Tuesday, August 27, 2024 1:38 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Curt Campbell <[REDACTED]>
Subject: RE: Kiteboard_Ranch_13828

Hi Lillian,

I apologize for the very short notice, but would it be possible to move our meeting today from 3:00pm to 3:30pm? We may have a scheduling conflict at 3:00 pm! Than kyou.



Jessica Garate, P.G.
Project Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Monday, August 19, 2024 3:30 PM

To: Curt Campbell <[REDACTED]> Jessica Garate <j[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Kiteboard_Ranch_13828

Greetings,
I am looking for a better time.
Thank you

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

RE: Kiteboard_Ranch_13828_TRF_Teams_Meeting

Jessica Garate <[REDACTED]>

Fri 8/16/2024 9:56 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Thank you, Lillian.

Yes, I did receive an invite for a different time earlier and then again for the 3-4 pm time slot. Thank you for checking to make sure that we are all properly scheduled! See you at 3pm.



Jessica Garate, P.G.

Project Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

Phone

Fax



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Friday, August 16, 2024 9:53 AM

To: Jessica Garate <[REDACTED]>; Curt Campbell <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Kiteboard_Ranch_13828_TRF_Teams_Meeting

Jessica and Curt,

You should have received an invitation for a **TEAMS MEETING FROM 3PM TO 4PM** with TCEQ Water Rights regarding your response to the recent request for information for Kiteboard Ranch Application No. 13828.

You may have received some other times as well, due to gremlins in my Outlook or Teams.

Please ignore those other times.

Please make sure you check your TEAMS calendar and other calendars to make sure:

- The **time** of the meeting is **3 to 4 pm on Friday August 16, 2024**

- The **location** of the meeting is **Microsoft TEAMS**.

I apologize for any inconvenience.

Let me know if you have any issues and I plan to see you at 3.

Thank you, Lilly

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

Kiteboard_Ranch_13828_Technical_Request_for_Information_08.05.2023

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Mon 8/5/2024 3:25 PM

To: Jessica Garate <[REDACTED]>; ccampbell@westwardenv.com <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@tceq.texas.gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Humberto Galvan <Humberto.Galvan@tceq.texas.gov>

 1 attachments (295 KB)

Kiteboard_Ranch_13828_TRFI_Sent_Email_08.05.2024.pdf;

Mr. Curt Campbell,

Please provide the requested information for technical review of Kiteboard Ranch's Application No. 13828 for a Water Use Permit by COB Wednesday, September 4, 2024.

If you have any questions or concerns, do not hesitate to contact me.

Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 5, 2024

Mr. Curt Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed and Published Notice
Long Branch, Guadalupe River Basin
Guadalupe County

Dear Mr. Campbell:

This acknowledges receipt, on June 20, 2024, of additional information. Additional information is required to complete the technical review of the referenced application.

Staff reviewed the accounting plan, Broken Oak Dam Water Accounting Record, dated June 20, 2024, and determined that the accounting plan will need to be revised, as discussed below, before staff can complete technical review of the application. Note, anytime a change is made within the accounting plan or text, the change should be reflected throughout both documents.

1. Correct the accounting plan to account for rainfall on the reservoir surface. Staff notes precipitation directly on the reservoir surface should not be included in the calculation of runoff into the reservoir.
 - a. Correct the spelling of "storativity" in cell F7 in the accounting plan worksheets Monthly tabs.

Please provide the requested information by September 4, 2024, or the application may be returned pursuant to 30 Texas Administrative Code § 281.19. Alternatively, you may have the question of the necessity of the requested data (or the sufficiency of the information already submitted) referred to the commission for a decision. To be considered, a request for a referral must be provided by September 4, 2024.

If you have any questions concerning this matter, please contact me via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

Re: Kiteboard_Ranch_13828_TRFI_06.20.2024

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thu 6/20/2024 4:55 PM

To: Jessica Garate <[REDACTED]>

Response Received. Thank you

From: Jessica Garate <[REDACTED]>

Sent: Thursday, June 20, 2024 4:52 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Subject: RE: Kiteboard_Ranch_13828_TRFI_06.20.2024

Good afternoon, Ms. Beerman.

Attached here please find the Response to Technical Request for Information #2 for Kiteboard Ranch's water rights permit application. Thank you for allowing the grace period.

Best Regards,



Jessica Garate, P.G.

Project Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

Phone

Fax



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Thursday, June 20, 2024 9:40 AM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Kiteboard_Ranch_13828_TRFI_06.20.2024

Ms. Jessica Garate,
Reminder. The Response to Kiteboard Ranch's Technical Request for Information for Application No. 13828 was due on June 17, 2024. As we discussed yesterday, you plan to submit the response today, June 20, 2024.
Much appreciated,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov



June 20, 2024

Project No. 11235-002

Ms. Lillian E. Beerman, Ph.D.
Texas Commission on Environmental Quality
Water Rights Permitting Team
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087
lillian.beerman@tceq.texas.gov

Subject: Response to Request for Additional Information
Kiteboard Ranch, LLC – CN605929736, RN111448155
Application for a Water Use Permit - WRPERM 13828
Long Branch, Guadalupe River Basin

Dear Ms. Beerman,

Please accept the following responses to the Additional Information request dated May 17, 2024, regarding the above-referenced application for a Water Use Permit on behalf of Kiteboard Ranch, LLC.

Confirm the application is not requesting to divert state water from the reservoir.

Response: It is confirmed that this application is not requesting to divert state water from the reservoir.

Please accept the following changes to the accounting plan, Broken Oak Dam Water Accounting Record. Note these changes have been made to both the attached excel and text files, where applicable.

Comment 1: Revise the accounting plan to account for rainfall on the reservoir surface.

Response 1: Please note that the Site Drainage Area of 1,634 acres on the Accounting Plan is inclusive of the reservoir and therefore accounts for the rainfall on the reservoir surface.

Comment 2: Revise the formula in the accounting plan and in the text description for Column D, Total Runoff (in.) Staff notes the logic for rain events less than 1 inch can result in a greater runoff value than rain events greater than 1 inch.

Response 2: Please see the attached Water Accounting Plan spreadsheet which has been revised to reflect that if the rainfall is less than 1 inch, the runoff is assumed to

Office P.O. Box 2205 Boerne, TX 78006



Main 830.249.8284 | Fax 830.249.0221

Texas Registered Engineering Firm # F-4524

Texas Registered Geoscience Firm # 50112

westwardenv.com

be 1%. Rain events less than 1 inch will result in less runoff than rain events greater than 1 inch.

Comment 3: Provide the measuring procedures for Column I, Discharged Outlet Weir (ac-ft).

Response 3: Once we have an as-built survey and final configuration for the weir, we will prepare a depth-to-discharge reference sheet that will include pre-populated water level elevations and their corresponding flow rates. This will simplify the process for determining flow at the weir when a water level elevation reading is taken.

A float with a recording device will be placed in a depth gauge next to the weir which will display the elevation of the water level as it exits the weir. A visual reading will be taken by someone onsite on the first and fifteenth day of every month, for a total of two times per month.

Comment 4: Clarify that Column L, Volume Released, in the Monthly Tabs tracks the amount of surface water pumped out of the reservoir and into the channel downstream.

Response 4: Please see the attached Water Accounting Plan Description (Attachment B) for clarification of Column L, Volume Released, which tracks the amount of surface water pumped out of the reservoir and into the channel downstream.

Comment 5: Confirm that the reservoir surface area is 98.4 acres. Staff notes cell C6 in the Monthly tabs indicate the reservoir surface area as 90 acres, while Worksheet 2.0, Impoundment/Dam Information, submitted February 28, 2022, indicate the surface area as 98.4 acres.

Response 5: It is confirmed that the reservoir surface area is 98.4 acres. Cell C6 in the Monthly tabs of the Water Accounting Plan spreadsheet has been revised to reflect the correct area of 98.40 acres.

Comment 6: Revise the text document as follows:

- a. Revise the first paragraph to remove the diversion of surface water.*
- b. Replace “Column J” with Column “K” for the monthly description for Required Release Volume. Staff notes Column J is duplicated and is used as the column letter for both Retained Surface Water (ac-ft) and Required Release Volume.*
- c. Replace “Column K” with Column “L” for the monthly description for Volume Released.*
- d. Replace “Column L” with Column “M” for the monthly description for Comments.*

- e. Provide the units of measurement for Required Release Volume and Volume Released.*

Response 6: Please see the attached text document with the following revisions:

- a. The first paragraph has been revised to remove the diversion of surface water.**
- b. The duplicated “Column J” has been replaced with Column “K” for the monthly description for Required Release Volume.**
- c. “Column K” has been replaced with Column “L” for the monthly description for Volume Released.**
- d. “Column L” has been replaced with Column “M” for the monthly description for Comments.**
- e. The units of measurement, ac-ft, for Required Release Volume and Volume Released are now provided.**

Comment 7: Revise the worksheets in the accounting plan as follows:

- a. Revise the formulas for February through December for Column B, Groundwater Volume (ac-ft), in the Annual Tab to reference the correct range of days from Column B of the Monthly Tabs.*
- b. Revise the formula for Column C, Retained Surface Water (ac-ft), in the Annual Tab, to refer to Column J in the Monthly Tabs. Staff notes the formula references Column K, Required Release Volume (ac-ft), in the Monthly Tabs.*

Response 7: Please see the attached worksheets with the following revisions:


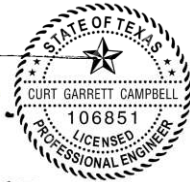
- a. The formulas for February through December for Column B, Groundwater Volume (ac-ft), in the Annual Tab have been revised to reference the correct range of days from Column B of the Monthly Tabs.**
- b. The formula for Column C, Retained Surface Water (ac-ft), in the Annual Tab, has been revised to refer to Column J in the Monthly Tabs.**

Kiteboard Ranch, LLC
WRPERM 13828 – Response to Additional Information
11235-002

Westward Environmental, Inc.
June 20, 2024

WESTWARD will continue to serve as the technical contact for Kiteboard Ranch, LLC on this project. Please ensure that WESTWARD is copied on all correspondence, including the final approval. If you have any questions or require additional information, please contact our office at 830-249-8284.

Respectfully submitted,
WESTWARD ENVIRONMENTAL, INC.

 6/20/2024 

Curt G. Campbell, PE
VP Engineering & Natural Resources
TX License No. 106851 | TX Firm No. 4524

Attachment A: Water Accounting Plan Spreadsheet-Revised (excel file)
Attachment B: Water Accounting Plan Description-Revised (text file)

Distribution: Addressee
WEI 11235-002 File

Broken Oak Dam
Water Accounting Record
Annual

Year	
------	--

Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)
January	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Total	0.00	0.00	0.00

[illegible]

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	FEBRUARY												
4	Inputs												
5	Lake Surface Area (acres)												
6	98.40 Water Surface Elevation (ft amsl)												
7	1634.00 Storivity												
8	72												
									3.89				
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0		0			0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0	0.00		

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

WATER ACCOUNTING PLAN DESCRIPTION

Summary of the proposed water right authorization:

Applicant seeks authorization for water use to replace the amount of surface water on the lake that would be expected to flow downstream via pumping from private groundwater wells so that there is no consumptive use or impoundment of state water while maintaining the lake levels for recreational use and to maintain the surface water flow for downstream users.

Summary of the accounting plan:

The water accounting plan calculates the amount of inflow entering the lake from the drainage basin and exiting through the spillway. The net difference between these values is considered potentially impounded surface water and will be released as surface water flow to downstream users. The water used to provide this downstream flow will be pumped from the lake into the downstream conveyance. Groundwater will be used to maintain the lake levels.

The inflow will be measured by taking water level readings from a rain gauge to be installed onsite. These readings will be converted to runoff values from the watershed based on the hydrologic calculations in the spreadsheet. The outflow will be measured using a weir depth gauge at the spillway. Readings for inflow and outflow will be taken after each precipitation event, with the calculated difference being the amount of runoff expected to flow downstream. This is the amount that will be pumped from the groundwater wells and to the surface.

Narrative of each table and column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanation of the calculations:

The accounting plan consists of a spreadsheet that tracks the following values daily (explained in greater detail below):

- * Column A: Day
- * Column B: Groundwater Volume Added (gal)
- * Column C: Onsite Precipitation (in)
- * Column D: Total Runoff (in)
- * Column E: Total Runoff (ac-ft)
- * Column F: Lake Elevation (ft amsl)
- * Column G: Water Level Increase (ft)
- * Column H: Stage Storage Volume (ac-ft)
- * Column I: Discharge Over Outlet Wier (ac-ft)
- * Column J: Retained Surface Water (ac-ft)
- * Column K: Required Release Volume (ac-ft)
- * Column L: Volume Released (ac-ft)
- * Column M: Comments

There are tabs for every month of the year (JAN through DEC) allowing tracking of each of the values above for every day of the year. The first tab in the spreadsheet is an ANNUAL tab which calculates monthly totals of Groundwater Volume, Retained Surface Water, and Released Surface Water, and sums up those values to provide an annual total. The last tab in the spreadsheet is Stage Storage which is the estimated storage volume of the lake (ac-ft) at a given elevation level (ft amsl). These values were derived from a volumetric analysis using AutoCAD Civil. The lake boundary line was provided by a survey performed in 2020 by Kimley Horn. The source used for elevation data is USGS 3D Elevation Program (3.644-meter resolution).

The following is a description of each column as it appears in the table for each monthly tab. Where a value is to be entered, the source of that data is provided. Where a calculation is to be made, an explanation of the calculation is provided.

Column A: Day is the numerical representation of the day according to the calendar for each month.

Column B: Groundwater Volume Added (gal) is the volume of water that will be added to the lake by pumping the wells.

Column C: Onsite Precipitation (in) is the rainfall that is measured from the onsite rain gauge. This measured value will be taken and recorded after each 24-hour period which includes a precipitation event.

Column D: Total Runoff (in) calculates the amount of precipitation (from column C) that is expected to run off as downstream flow from a drainage basin. If the rainfall is zero (0), then the runoff is also zero (0). If the amount of rain is less than 1 inch, then that amount is assumed to be 1%. If the rainfall exceeds 1 inch, the SCS method for calculating runoff is applied.

Column E: Total Runoff (ac-ft) is the conversion to acre-feet from inches of the value in column D, multiplied by the drainage area (ac).

Column F: Lake Elevation (ft amsl) is the elevation of the lake above mean sea level, provided by an onsite floating gauge.

Column G: Water Level Increase (ft) is the increase of lake elevation from one day to the next. This is calculated by subtracting the previous day's elevation from the lake elevation of the current day if the current day's lake elevation is a greater number.

Column H: Stage Storage Volume (ac-ft) is the volume of the lake at a given elevation level (ft).

Column I: Discharge Over Outlet Wier (ac-ft) is the amount of water exiting the spillway which will be measured on the 1st and 15th day of each month as it flows over the weir gauge. It will be measured by taking a visual reading of the water level elevation exiting the weir and using a depth-to-discharge reference sheet that includes pre-populated flow rates. The reading will be provided by a depth gauge located next to the weir. A float and recording device will also be installed to measure flow over the weir over time.

Column J: Retained Surface Water (ac-ft) is the calculated difference between Total Runoff (ac-ft) and Discharge Over Outlet Weir (ac-ft). This is calculated by subtracting the Discharge Over Outlet Weir (ac-ft) from the Total Runoff (ac-ft).

Column K: Required Release Volume (ac-ft) is the amount of groundwater that is required to be released as part of this accounting plan. This value will be taken two times per month, on the 15th day and on the last day of each month.

Column L: Volume Released (ac-ft) is the amount of surface water pumped out of the reservoir and released into the channel downstream.

Column M: Comments are to be filled as necessary according to user discretion. is the amount of groundwater that was actually released from pumping. This value should correspond to the Required Release Volume above.

**Broken Oak Dam
Water Accounting Record
Annual**

Year	
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Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)
January	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Total	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>January</div> <div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storativity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> Broken Oak Dam Water Accounting Record FEBRUARY </div> <div> Lake Surface Area (acres) 98.40 </div> <div> Water Surface Elevation (ft amsl) Site Drainage Area (ac) 98.40 </div> <div> Runoff Curve Number 1634.00 </div> <div> Storativity 3.89 </div> <div> 72 3.89 </div> <div> This column will be complete during the rain gauge accuracy verification </div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> <div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>MARCH</div> </div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storitivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> <div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>APRIL</div> </div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storitivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	MAY												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40 Water Surface Elevation (ft amsl)		520.00 Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89						
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> <div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JUNE</div> </div> <div> <div>Lake Surface Area (acres)</div> <div>98.40</div> <div>Water Surface Elevation (ft amsl)</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storitivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M			
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JULY</div> <div>Inputs</div>															
2																
3																
4																
5											*This column will be complete during the rain gauge accuracy verification					
6	Lake Surface Area (acres)		98.40 Water Surface Elevation (ft amsl)		520.00 Runoff Curve Number		72									
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89									
8																
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments			
10	1		0	0	0					0						
11	2		0	0	0		0			0						
12	3		0	0	0		0			0						
13	4		0	0	0		0			0						
14	5		0	0	0		0			0						
15	6		0	0	0		0			0						
16	7		0	0	0		0			0						
17	8		0	0	0		0			0						
18	9		0	0	0		0			0						
19	10		0	0	0		0			0						
20	11		0	0	0		0			0						
21	12		0	0	0		0			0						
22	13		0	0	0		0			0						
23	14		0	0	0		0			0						
24	15		0	0	0		0			0	0.00					
25	16		0	0	0		0			0						
26	17		0	0	0		0			0						
27	18		0	0	0		0			0						
28	19		0	0	0		0			0						
29	20		0	0	0		0			0						
30	21		0	0	0		0			0						
31	22		0	0	0		0			0						
32	23		0	0	0		0			0						
33	24		0	0	0		0			0						
34	25		0	0	0		0			0						
35	26		0	0	0		0			0						
36	27		0	0	0		0			0						
37	28		0	0	0		0			0						
38	29		0	0	0		0			0						
39	30		0	0	0		0			0						
40	31		0	0	0		0			0	0.00					

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	AUGUST												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40 Water Surface Elevation (ft amsl)		520.00 Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89						
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	SEPTEMBER												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40 Water Surface Elevation (ft amsl)		520.00 Runoff Curve Number		72		*This column will be complete during the				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89		rain gauge accuracy verification				
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0	0.00		
40													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	OCTOBER												
4	Inputs												
5													
6	Lake Surface Area (acres)		98.40 Water Surface Elevation (ft amsl)		520.00 Runoff Curve Number		72		*This column will be complete during the				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89		rain gauge accuracy verification				
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0		0			0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		
41													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> Broken Oak Dam Water Accounting Record NOVEMBER </div> <div> Lake Surface Area (acres) 98.40 Water Surface Elevation (ft amsl) 520.00 Runoff Curve Number 72 Site Drainage Area (ac) 1634.00 Storitivity 3.89 </div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div>												
2													
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	Inputs												
4	DECEMBER												
5													
6	Lake Surface Area (acres)		98.40		Water Surface Elevation (ft amsl)		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification
7					Site Drainage Area (ac)		1634.00		Storitivity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation (ft amsl)	Water Level Increase (ft)	Stage Storage Volume* (ac-ft)	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released (ac-ft)	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

WATER ACCOUNTING PLAN DESCRIPTION

Summary of the proposed water right authorization:

Applicant seeks authorization for water use to replace the amount of surface water on the lake that would be expected to flow downstream via pumping from private groundwater wells so that there is no consumptive use or impoundment of state water while maintaining the lake levels for recreational use and to maintain the surface water flow for downstream users.

Summary of the accounting plan:

The water accounting plan calculates the amount of inflow entering the lake from the drainage basin and exiting through the spillway. The net difference between these values is considered potentially impounded surface water and will be released as surface water flow to downstream users. The water used to provide this downstream flow will be pumped from the lake into the downstream conveyance. Groundwater will be used to maintain the lake levels.

The inflow will be measured by taking water level readings from a rain gauge to be installed onsite. These readings will be converted to runoff values from the watershed based on the hydrologic calculations in the spreadsheet. The outflow will be measured using a weir depth gauge at the spillway. Readings for inflow and outflow will be taken after each precipitation event, with the calculated difference being the amount of runoff expected to flow downstream. This is the amount that will be pumped from the groundwater wells and to the surface.

Narrative of each table and column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanation of the calculations:

The accounting plan consists of a spreadsheet that tracks the following values daily (explained in greater detail below):

- * Column A: Day
- * Column B: Groundwater Volume Added (gal)
- * Column C: Onsite Precipitation (in)
- * Column D: Total Runoff (in)
- * Column E: Total Runoff (ac-ft)
- * Column F: Lake Elevation (ft amsl)
- * Column G: Water Level Increase (ft)
- * Column H: Stage Storage Volume (ac-ft)
- * Column I: Discharge Over Outlet Wier (ac-ft)
- * Column J: Retained Surface Water (ac-ft)
- * Column K: Required Release Volume (ac-ft)
- * Column L: Volume Released (ac-ft)
- * Column M: Comments

There are tabs for every month of the year (JAN through DEC) allowing tracking of each of the values above for every day of the year. The first tab in the spreadsheet is an ANNUAL tab which calculates monthly totals of Groundwater Volume, Retained Surface Water, and Released Surface Water, and sums up those values to provide an annual total. The last tab in the spreadsheet is Stage Storage which is the estimated storage volume of the lake (ac-ft) at a given elevation level (ft amsl). These values were derived from a volumetric analysis using AutoCAD Civil. The lake boundary line was provided by a survey performed in 2020 by Kimley Horn. The source used for elevation data is USGS 3D Elevation Program (3.644-meter resolution).

The following is a description of each column as it appears in the table for each monthly tab. Where a value is to be entered, the source of that data is provided. Where a calculation is to be made, an explanation of the calculation is provided.

Column A: Day is the numerical representation of the day according to the calendar for each month.

Column B: Groundwater Volume Added (gal) is the volume of water that will be added to the lake by pumping the wells.

Column C: Onsite Precipitation (in) is the rainfall that is measured from the onsite rain gauge. This measured value will be taken and recorded after each 24-hour period which includes a precipitation event.

Column D: Total Runoff (in) calculates the amount of precipitation (from column C) that is expected to run off as downstream flow from a drainage basin. If the rainfall is zero (0), then the runoff is also zero (0). If the amount of rain is less than 1 inch, then that amount is assumed to be 1%. If the rainfall exceeds 1 inch, the SCS method for calculating runoff is applied.

Column E: Total Runoff (ac-ft) is the conversion to acre-feet from inches of the value in column D, multiplied by the drainage area (ac).

Column F: Lake Elevation (ft amsl) is the elevation of the lake above mean sea level, provided by an onsite floating gauge.

Column G: Water Level Increase (ft) is the increase of lake elevation from one day to the next. This is calculated by subtracting the previous day's elevation from the lake elevation of the current day if the current day's lake elevation is a greater number.

Column H: Stage Storage Volume (ac-ft) is the volume of the lake at a given elevation level (ft).

Column I: Discharge Over Outlet Wier (ac-ft) is the amount of water exiting the spillway which will be measured on the 1st and 15th day of each month as it flows over the weir gauge. It will be measured by taking a visual reading of the water level elevation exiting the weir and using a depth-to-discharge reference sheet that includes pre-populated flow rates. The reading will be provided by a depth gauge located next to the weir. A float and recording device will also be installed to measure flow over the weir over time.

Column J: Retained Surface Water (ac-ft) is the calculated difference between Total Runoff (ac-ft) and Discharge Over Outlet Weir (ac-ft). This is calculated by subtracting the Discharge Over Outlet Weir (ac-ft) from the Total Runoff (ac-ft).

Column K: Required Release Volume (ac-ft) is the amount of groundwater that is required to be released as part of this accounting plan. This value will be taken two times per month, on the 15th day and on the last day of each month.

Column L: Volume Released (ac-ft) is the amount of surface water pumped out of the reservoir and released into the channel downstream.

Column M: Comments are to be filled as necessary according to user discretion. is the amount of groundwater that was actually released from pumping. This value should correspond to the Required Release Volume above.

PHONE MEMO

Kiteboard Ranch, LLC, WRPERM Application No. 13828

From Jessica Garate	To: Lillian E. Beerman
Date: June 19, 2024	Permit: 13828
Phone: [REDACTED]	Re: Kiteboard Ranch DS question

Spoke with Ms. Garate regarding their response to the Technical RFI#2. She said that she has been out of the office and will send it via email tomorrow June 20th.

She still has a question regarding their answer to question three. I told her to provide the description of their monitoring strategy, and that Hydro staff will contact her if they need clarification.

Lillian E. Beerman, Ph.D. June 19, 2024

Kiteboard_Ranch_13828_

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Fri 5/17/2024 1:38 PM

To: [REDACTED] Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Humberto Galvan <Humberto.Galvan@tceq.texas.gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

 1 attachments (290 KB)

Kiteboard_Ranch_13828_Technical_Request_for_Information_No.2_05.17.2024.pdf;

Mr. Curt Campbell,

Please review and respond to the attached Technical Request for Information No. 2 for Kiteboard Ranch's Application No. 13828 for a Water Use Permit.

Comments are due COB Monday, June 17, 2024.

If you have any questions or concerns, do not hesitate to ask.

Thank You,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzalez, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 17, 2024

Mr. Curt Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed and Published Notice
Long Branch, Guadalupe River Basin
Guadalupe County

Dear Mr. Campbell:

This acknowledges receipt, on August 18, 2023, of additional information. Additional information is required to complete the technical review of the referenced application.

Confirm the application is not requesting to divert state water from the reservoir.

In addition, Staff reviewed the accounting plan, Broken Oak Dam Water Accounting Record, dated August 18, 2023, and determined that the accounting plan will need to be revised, as discussed below, before staff can complete technical review of the application. Note, anytime a change is made within the accounting plan or text, the change should be reflected throughout both documents.

1. Revise the accounting plan to account for rainfall on the reservoir surface.
2. Revise the formula in the accounting plan and in the text description for Column D, Total Runoff (in). Staff notes the logic for rain events less than 1 inch can result in a greater runoff value than the rain events greater than 1 inch.
3. Provide the measuring procedures for Column I, Discharged Outlet Wier (ac-ft).
4. Clarify that Column L, Volume Released, in the Monthly Tabs tracks the amount of surface water pumped out of the reservoir and into the channel downstream.
5. Confirm that the reservoir surface area is 98.4 acres. Staff notes cell C6 in the Monthly Tabs indicate the reservoir surface area as 90 acres, while Worksheet 2.0, Impoundment/Dam Information, submitted February 28, 2022, indicate the surface area to be 98.4 acres.

6. Revise the text document as follows:

- a. Revise the first paragraph to remove the diversion of surface water.
- b. Replace "Column J" with "Column K" for the monthly description for Required Released Volume. Staff notes Column J is duplicated and is used as the column letter for both Retained Surface Water (ac-ft) and Required Release Volume.
- c. Replace "Column K" with "Column L" for the monthly description for Volume Released.
- d. Replace "Column L" with "Column M" for the monthly description for Comments.
- e. Provide the units of measurement for Required Release Volume and Volume Released.

7. Revise the worksheets in the accounting plan as follows:

- a. Revise the formulas for February through December for Column B, Groundwater Volume (ac-ft), in the Annual Tab to reference the correct range of days from Column B of the Monthly Tabs.
- b. Revise the formula for Column C, Retained Surface Water (ac-ft), in the Annual Tab, to refer to Column J in the Monthly Tabs. Staff notes the formula references Column K, Required Release Volume (ac-ft), in the Monthly Tabs.

Please provide the requested information by June 17, 2024, or the application may be returned pursuant to 30 Texas Administrative Code § 281.19. Alternatively, you may have the question of the necessity of the requested data (or the sufficiency of the information already submitted) referred to the commission for a decision. To be considered, a request for a referral must be provided by June 17, 2024.

If you have any questions concerning this matter, please contact me via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

RE: Kiteboard Ranch, LLC - WRPERM 13828

Jessica Garate <[REDACTED]>

Mon 3/25/2024 6:03 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thank you, Ms. Beerman. I appreciate you getting back to me.



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Monday, March 25, 2024 5:49 PM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Subject: Re: Kiteboard Ranch, LLC - WRPERM 13828

Jessica,
I appreciate your inquiry.
Kiteboard Ranch's application No. 13828 is in Technical Review.
Please be assured that I will inform you of any changes in its status.
Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Friday, March 22, 2024 3:11 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc: Curt Campbell <[REDACTED]>, Chris Kozlowski <chris.kozlowski@tceq.texas.gov>
Subject: RE: Kiteboard Ranch, LLC - WRPERM 13828

Good afternoon, Ms. Beerman.

I'm just following up to check on the status of the Kiteboard Ranch, LLC Water Rights Application. I have not checked in a couple of months and want to know whether it still in technical review. Thank you.



Jessica Garate, GIT
Staff Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Wednesday, January 17, 2024 10:25 AM
To: Jessica Garate <[REDACTED]>
Cc: Curt Campbell <[REDACTED]>, Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Re: Kiteboard Ranch, LLC - WRPERM 13828

Ms. Garate,
Kiteboard Ranch's Application No. 13828 is in Technical Review. Staff has reviewed Kiteboard's response to the Technical Request for Information and the accounting plan you submitted on August 18, 2023. If they have any further questions or concerns, we will be reaching out to you. Thank you,

Lillian E. Beerman, Ph.D.

RE: Kiteboard Ranch, LLC - WRPERM 13828

Jessica Garate <[REDACTED]>

Wed 1/17/2024 10:45 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]> Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Thank you very much for the update, Ms. Beerman.



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax



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Thank you for your cooperation.

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Wednesday, January 17, 2024 10:25 AM

To: Jessica Garate <[REDACTED]>

Cc: Curt Campbell <[REDACTED]> Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: Kiteboard Ranch, LLC - WRPERM 13828

Ms. Garate,

Kiteboard Ranch's Application No. 13828 is in Technical Review. Staff has reviewed Kiteboard's response to the Technical Request for Information and the accounting plan you submitted on August 18, 2023. If they have any further questions or concerns, we will be reaching out to you. Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

Re: WRPERM 13828 - Status?

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Tue 10/24/2023 10:00 AM

To: Chris Pepper <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; [REDACTED] <[REDACTED]>

Mr. Pepper,

I received your inquiry into the status of technical review of Kiteboard Ranch's Application No. 13828 for a Water Use Permit. Kiteboard responded in August 2023 to the request for information sent by our technical specialists. Kiteboard's response to these questions and the application are actively in technical review. If we have further questions, we will notify Mr. Campbell with Westward Environmental, the Applicant Contact for Kiteboard Ranch.

If you have any questions or concerns, please do not hesitate to contact me.

[Lillian E. Beerman, Ph.D.](#)

[Water Rights Permitting Team](#)

[Water Availability Division](#)

[512-239-4019](#)

lillian.beerman@tceq.texas.gov

From: Chris Pepper <[REDACTED]>

Sent: Monday, October 23, 2023 9:44 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: P. E. Curt Campbell ([REDACTED]); Jessica Garate ([REDACTED])

Subject: WRPERM 13828 - Status?

Good morning, Lillian.

Hope yall are well up there this rainy morning!

Question – I've been working with Westward to complete an environmental audit for one my clients (Kiteboard Ranch), and was hoping to get a quick status update one when Technical Review might be completed for their application?

CN – RN – Client

Kiteboard Ranch, LLC

WRPERM 13828

CN605929736, RN111448155

Application No. 13828 for Water Use Permit

Long Branch, Guadalupe River Basin

Thank you so much! Good luck with your week.

Sincerely, Chris

Chris Pepper | Partner

Mobile 512.791.6545 | Direct 512.640.4189

3500 Jefferson St., Suite 330**

Austin, Texas 78731

**** Please note our new address**



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Kiteboard Ranch, LLC - WRPERM 13828 - Response to Technical RFI

Jessica Garate [REDACTED]

Fri 8/18/2023 5:52 PM

To:Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc:Curt Campbell <[REDACTED]>

📎 3 attachments (2 MB)

11235-002_WRPERM_1328_Response_to_Technical_RFI.pdf; ATTACH_B_Water Accounting Plan_Description.txt; ATTACH_C_11235-002_Water_Accounting_Plan.xlsx;

Good evening, Ms. Beerman.

Please find our response to the TCEQ's Technical RFI for Kiteboard Ranch, LLC's Water Rights Permit. Thank you.



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax

[REDACTED]

[REDACTED] [env.com](mailto:[REDACTED]@env.com)



Proj #

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August 18, 2023

Project No. 11235-002

Ms. Lillian E. Beerman, Ph.D.
Texas Commission on Environmental Quality
Water Rights Permitting Team
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087
lillian.beerman@tceq.texas.gov

Subject: Response to the Technical Request for Information (RFI)
Kiteboard Ranch, LLC – CN605929736, RN111448155
Application for a Water Use Permit - WRPERM 13828
Long Branch, Guadalupe River Basin

Dear Ms. Beerman,

Please accept the following response to the Technical Request for Information (RFI) comments dated July 20, 2022 regarding the above-referenced application for a Water Use Permit on behalf of Kiteboard Ranch, LLC.

Comment 1: Confirm whether groundwater is currently being discharged into the reservoir.

Response 1: It has been confirmed by Applicant that groundwater is not currently being discharged into the reservoir.

Comment 2: If Applicant is not currently discharging groundwater into the reservoir, provide ambient water quality data for one sampling point in the middle of the reservoir.

The sample site should be representative of ambient water quality conditions in the reservoir. Water chemistry information should include the following parameters: chlorides, sulfates, total dissolved solids, pH, and temperature (measured at the time the sample is collected). Samples should not be collected within 24 hours of any significant (>0.25 inch) precipitation event. Surface water quality data collection and analytical methods should conform to guidelines set forth in the Texas Commission on Environmental Quality Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415) Chapter 5 – Water Sample Collection.

Response 2: Please see the water quality sampling results provided in Attachment A from a grab sample taken on August 1, 2025 in the middle of the reservoir at coordinates 29.627570, -97.843725.

Office P.O. Box 2205 Boerne, TX 78006



Main 830.249.8284 | Fax 830.249.0221

Texas Registered Engineering Firm # F-4524

Texas Registered Geoscience Firm # 50112

westwardenv.com

Comment 3: If Applicant is currently discharging groundwater into the reservoir, provide ambient water quality data for the following:

- a. one sampling point on Long Branch upstream of the reservoir,*
- b. one sampling point within 500 feet downstream of the reservoir dam,*
- c. one sampling point in the middle of the reservoir, and*
- d. one sampling point within 200 feet of the groundwater well discharge pipe.*

The sample sites should be representative of ambient water quality conditions in Long Branch and the reservoir. All sampling protocols as described in question 2 above are applicable and should be followed. Additionally, provide the discharge rate(s) from the groundwater well(s), as well as identify which well(s) were actively pumping during sampling events.


Response 3: Not applicable as water is currently not being discharged into the reservoir.

Comment 4: Provide a text file containing a detailed description of the Broken Oak Dam Water Accounting Record accounting plan submitted June 3, 2022, including a summary of the proposed water right authorization, a summary of the accounting plan, a narrative explanation of each table and of each column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanations of the calculations.

Response 4: Please see Attachment B for the requested summaries and explanations of the Broken Oak Dam Water Accounting Plan. The Water Accounting Plan is also provided in Attachment C.

WESTWARD will continue to serve as the technical contact for Kiteboard Ranch, LLC on this project. Please ensure that WESTWARD is copied on all correspondence, including the final approval. If you have any questions or require additional information, please contact our office at 830-249-8284.

Respectfully submitted,
WESTWARD ENVIRONMENTAL, INC.


Curt G. Campbell, PE 8/18/23
VP Engineering & Natural Resources
TX License No. 106851 | TX Firm No. 4524



Attachment A: Water Quality Sample Results

Attachment B: Water Accounting Plan Spreadsheet (pdf & excel files)

Attachment C: Water Accounting Plan Description (pdf & text files)

Distribution: Addressee
WEI 11235-002 File

Attachment A:
Water Quality Sample Results

August 15, 2023

Brandy Teitge

Westward Environmental

P.O. Box 2205

Boerne, TX 78006

SATL Report No.: 2308016

RE: Broken Oak Dam (BOD)

Project Number: 11235.002

Dear Brandy Teitge

SATL received 1 Sample(s) on 08/01/2023 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

A handwritten signature in dark ink, appearing to read 'Richard Hawk'.

Richard Hawk,
General Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1610 S. Laredo Street, San Antonio, Texas 78207-7029 (210) 229-9920 Fax (210) 229-9921

www.satestinglab.com

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

SAMPLE SUMMARY

Total Samples received in this work order: 1

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Sampling Method</u>	<u>Date Sampled</u>	<u>Date Received</u>
BOD-001	2308016-01	Liquid	Grab	08/01/23 10:35	08/01/23 11:50

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

Sample ID #: BOD-001

Sampling Method: Grab

Lab Sample ID #: 2308016-01

Sample Matrix: Liquid

Date/Time Collected: 08/01/23 10:35

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Dissolved Solids *	81.0	mg/L	2.50	SM2540C	B333196	08/04/23 11:45	SM2540C	SG	
Anions by Ion Chromatography									
Chloride *	12.0	mg/L	0.200	EPA 300.0	B333194	08/14/23 23:01	EPA 300.0	SG	
Sulfate *	4.34	mg/L	0.20	EPA 300.0	B333194	08/14/23 23:01	EPA 300.0	SG	

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B333196 - SM2540C									
Blank (B333196-BLK1)					Prepared: 08/03/23 15:45 Analyzed: 08/04/23 10:54				
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B333196-BS1)					Prepared: 08/03/23 15:45 Analyzed: 08/04/23 10:32				
Total Dissolved Solids	114	2.50	mg/L	100		114	80-120		
LCS Dup (B333196-BSD1)					Prepared: 08/03/23 15:45 Analyzed: 08/04/23 10:34				
Total Dissolved Solids	103	2.50	mg/L	100		103	80-120	10	20
Duplicate (B333196-DUP1)					Source: 2308024-06 Prepared: 08/03/23 15:45 Analyzed: 08/04/23 10:56				
Total Dissolved Solids	993	2.50	mg/L		997			0.4	20

Anions by Ion Chromatography Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B333194 EPA 300.0									
Blank (B333194-BLK1)					Prepared: 08/14/23 09:00 Analyzed: 08/14/23 11:53				
Chloride	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
Blank (B333194-BLK2)					Prepared: 08/14/23 09:00 Analyzed: 08/14/23 17:41				
Chloride	0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
Blank (B333194-BLK3)					Prepared: 08/14/23 09:00 Analyzed: 08/15/23 03:12				
Chloride	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B333194-BS1)					Prepared: 08/14/23 09:00 Analyzed: 08/14/23 12:11				
Chloride	4.96	0.100	mg/L	5.00		99	90-110		
Sulfate	5.07	0.10	mg/L	5.00		101	90-110		
LCS (B333194-BS2)					Prepared: 08/14/23 09:00 Analyzed: 08/14/23 17:58				
Chloride	4.87	0.100	mg/L	5.00		97	90-110		
Sulfate	5.01	0.10	mg/L	5.00		100	90-110		
LCS (B333194-BS3)					Prepared: 08/14/23 09:00 Analyzed: 08/15/23 03:29				

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit
Batch B333194 - EPA 300.0									
Chloride	4.88	0.100	mg/L	5.00		98	90-110		
Sulfate	5.00	0.10	mg/L	5.00		100	90-110		
LCS Dup (B333194-BSD1)				Prepared: 08/14/23 09:00 Analyzed: 08/14/23 12:29					
Chloride	4.91	0.100	mg/L	5.00		98	90-110	0.8	20
Sulfate	5.04	0.10	mg/L	5.00		101	90-110	0.6	20
LCS Dup (B333194-BSD2)				Prepared: 08/14/23 09:00 Analyzed: 08/14/23 18:16					
Chloride	4.88	0.100	mg/L	5.00		98	90-110	0.2	20
Sulfate	4.99	0.10	mg/L	5.00		100	90-110	0.4	20
LCS Dup (B333194-BSD3)				Prepared: 08/14/23 09:00 Analyzed: 08/15/23 03:47					
Chloride	4.89	0.100	mg/L	5.00		98	90-110	0.08	20
Sulfate	5.01	0.10	mg/L	5.00		100	90-110	0.2	20
Duplicate (B333194-DUP1)				Source: 2308016-01		Prepared: 08/14/23 09:00 Analyzed: 08/14/23 23:19			
Chloride	12.7	0.200	mg/L		12.0			6	20
Sulfate	4.48	0.20	mg/L		4.34			3	20
Duplicate (B333194-DUP2)				Source: 2308173-01		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 00:49			
Chloride	570	2.50	mg/L		566			0.8	20
Sulfate	252	2.50	mg/L		252			0.4	20
Duplicate (B333194-DUP3)				Source: 2308173-02		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 02:00			
Chloride	256	2.50	mg/L		251			2	20
Sulfate	69.7	2.50	mg/L		68.6			2	20
Matrix Spike (B333194-MS1)				Source: 2308016-01		Prepared: 08/14/23 09:00 Analyzed: 08/14/23 23:55			
Chloride	17.8	0.100	mg/L	5.00	12.0	117	80-120		
Sulfate	9.53	0.10	mg/L	5.00	4.34	104	80-120		
Matrix Spike (B333194-MS2)				Source: 2308173-01		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 01:07			
Chloride	334	0.100	mg/L	5.00	566	NR	80-120		M
Sulfate	340	0.10	mg/L	5.00	252	NR	80-120		M
Matrix Spike (B333194-MS3)				Source: 2308173-02		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 02:18			
Chloride	202	0.100	mg/L	5.00	251	NR	80-120		M
Sulfate	88.2	0.10	mg/L	5.00	68.6	393	80-120		M
Matrix Spike Dup (B333194-MSD1)				Source: 2308016-01		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 00:13			

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B333194 - EPA 300.0									
Matrix Spike Dup (B333194-MSD1)		Source: 2308016-01		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 00:13					
Chloride	17.8	0.100	mg/L	5.00	12.0	117	80-120	0.07	20
Sulfate	9.38	0.10	mg/L	5.00	4.34	101	80-120	2	20
Matrix Spike Dup (B333194-MSD2)		Source: 2308173-01		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 01:24					
Chloride	334	0.100	mg/L	5.00	566	NR	80-120	0.05	20 M
Sulfate	341	0.10	mg/L	5.00	252	NR	80-120	0.07	20 M
Matrix Spike Dup (B333194-MSD3)		Source: 2308173-02		Prepared: 08/14/23 09:00 Analyzed: 08/15/23 02:36					
Chloride	202	0.100	mg/L	5.00	251	NR	80-120	0.05	20 M
Sulfate	88.3	0.10	mg/L	5.00	68.6	394	80-120	0.06	20 M

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssufficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Westward Environmental
P.O. Box 2205
Boerne TX, 78006

Project Manager: Brandy Teitge
Project: Broken Oak Dam (BOD)
Project Number: 11235.002

Reported:
08/15/23 17:37
Received:
08/01/23 11:50

Additional Notes:

Report No. 2308016

Aimee Landon For Sairam Abburu, Lab Director For

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Richard Hawk, General Manager

CHAIN-OF-CUSTODY RECORD

Page 9 of 10

Sample Receipt Checklist

Client: Westward Environmental Project: Broken Oak Dam (BOD)	Project Manager: Sairam Abburu Project Number: 11235.002
---	---

Report To:

Brandy Teitge

SATL Report Number: 2308016

Work Order Due by:	08/10/23 17:00 (7 day TAT)	Date Received:	08/01/23 11:50
Received By:	Aimee Landon	Date Logged In:	08/01/23 12:34
Logged In By:	Aimee Landon		

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	Yes
Sample temperature at receipt *:	20.6°C
Custody Seals Present:	No
All containers intact:	Yes
Sample labels/COC agree:	Yes
Samples Received within Holding time :	Yes
Samples appropriately preserved **:	Yes
Containers received broken/damaged/leaking:	No
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	Not Applicable
TRRP 13 Reporting requested?	No
BacT Sample bottles filled to volume (100mL mark), if applicable:	Not Applicable
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	Not Applicable
Subcontracting required for any analyses:	No
RUSH turnaround time requested:	No
Requested Turnaround Time:	No
Samples delivered via :	Hand Delivered
Air bill included if Samples were shipped:	No
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	Notated on CoC, if any

Notes:

* Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.

** If improperly preserved, notate client authorization on CoC to proceed with analysis.

 Checked By : Aimee Landon

 Date : 08/01/23 11:50

 SATL#FO001
 Revised 09/15/2022

Attachment B:
Water Accounting Plan Description
(pdf & text file electronic submittal)

WATER ACCOUNTING PLAN DESCRIPTION

Summary of the proposed water right authorization:

Applicant seeks authorization for water use to divert surface water through the lake via pumping from private groundwater wells so that there is no consumptive use or impoundment of state water while maintaining the lake levels for recreational use and to maintain the surface water flow for downstream users.

Summary of the accounting plan:

The water accounting plan calculates the amount of inflow entering the lake from the drainage basin and exiting through the spillway. The net difference between these values is considered potentially impounded surface water and will be released as surface water flow to downstream users. The water used to provide this downstream flow will be pumped from the lake into the downstream conveyance. Groundwater will be used to maintain the lake levels.

The inflow will be measured by taking water level readings from a rain gauge to be installed onsite. These readings will be converted to runoff values from the watershed based on the hydrologic calculations in the spreadsheet. The outflow will be measured using a weir depth gauge at the spillway. Readings for inflow and outflow will be taken after each precipitation event, with the calculated difference being the amount of runoff expected to flow downstream. This is the amount that will be pumped from the groundwater wells and to the surface.

Narrative of each table and column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanation of the calculations:

The accounting plan consists of a spreadsheet that tracks the following values daily (explained in greater detail below):

- Column A: Day
- Column B: Groundwater Volume Added (gal)
- Column C: Onsite Precipitation (in)
- Column D: Total Runoff (in)
- Column E: Total Runoff (ac-ft)
- Column F: Lake Elevation (ft amsl)
- Column G: Water Level Increase (ft)
- Column H: Stage Storage Volume (ac-ft)
- Column I: Discharge Over Outlet Wier (ac-ft)
- Column J: Retained Surface Water (ac-ft)
- Column K: Required Release Volume (ac-ft)
- Column L: Volume Released (ac-ft)
- Column M: Comments

There are tabs for every month of the year (JAN through DEC) allowing tracking of each of the values above for every day of the year. The first tab in the spreadsheet is an ANNUAL tab which calculates monthly totals of Groundwater Volume, Retained Surface Water, and Released Surface Water, and sums up those values to provide an annual total. The last tab in the spreadsheet is Stage Storage which is the estimated storage volume of the lake (ac-ft) at a given elevation level (ft

amsl). These values were derived from a volumetric analysis using AutoCAD Civil. The lake boundary line was provided by a survey performed in 2020 by Kimley Horn. The source used for elevation data is USGS 3D Elevation Program (3.644-meter resolution).

The following is a description of each column as it appears in the table for each monthly tab. Where a value is to be entered, the source of that data is provided. Where a calculation is to be made, an explanation of the calculation is provided.

Column A: Day is the numerical representation of the day according to the calendar for each month.

Column B: Groundwater Volume Added (gal) is the volume of water that will be added to the lake by pumping the wells.

Column C: Onsite Precipitation (in) is the rainfall that is measured from the onsite rain gauge. This measured value will be taken and recorded after each 24-hour period which includes a precipitation event.

Column D: Total Runoff (in) calculates the amount of precipitation (from column C) that is expected to run off as downstream flow from a drainage basin. If the rainfall is zero (0), then the runoff is also zero (0). If the amount of rain is less than 1 inch, then that amount is assumed to be 20%, which is 3.89 in this case. If the rainfall exceeds 1 inch, the SCS method for calculating runoff is applied.

Column E: Total Runoff (ac-ft) is the conversion to acre-feet from inches of the value in column D, multiplied by the drainage area (ac).

Column F: Lake Elevation (ft) is the elevation of the lake above mean sea level, provided by an onsite floating gauge.

Column G: Water Level Increase (ft) is the increase of lake elevation from one day to the next. This is calculated by subtracting the previous day's elevation from the lake elevation of the current day if the current day's lake elevation is a greater number.

Column H: Stage Storage Volume (ac-ft) is the volume of the lake at a given elevation level (ft).

Column I: Discharge Over Outlet Wier (ac-ft) is the amount of water exiting the spillway which will be measured as it flows over the weir gauge.

Column J: Retained Surface Water (ac-ft) is the calculated difference between Total Runoff (ac-ft) and Discharge Over Outlet Weir (ac-ft). This is calculated by subtracting the Discharge Over Outlet Weir (ac-ft) from the Total Runoff (ac-ft).

Column J: Required Release Volume is the amount of groundwater that is required to be released as part of this accounting plan. This value will be taken two times per month.

Column K: Volume Released is the amount of groundwater that was actually released from pumping. This value should correspond to the Required Release Volume above.

Column L: Comments are to be filled as necessary according to user discretion.

Attachment C:
Water Accounting Plan
(pdf & excel file electronic submittal)

**Broken Oak Dam
Water Accounting Record
Annual**

Year	
-------------	--

Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)
January	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Total	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	January												
4	Inputs												
5													
6	Lake Surface Area (acres)		90.00		Water Surface Elevation		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification
7			Site Drainage Area (ac)				1634.00		Storativity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>FEBRUARY</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>MARCH</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div> <div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storitivity</div> <div>3.89</div> </div>												
2													
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> Broken Oak Dam Water Accounting Record APRIL </div> <div> Lake Surface Area (acres) 90.00 </div> <div> Water Surface Elevation 90.00 </div> <div> Runoff Curve Number 520.00 </div> <div> Site Drainage Area (ac) 1634.00 </div> <div> Storativity 1634.00 </div> <div> 72 3.89 </div> <div> *This column will be complete during the rain gauge accuracy verification </div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	MAY												
4	Inputs												
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89		rain gauge accuracy verification				
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JUNE</div> <div>Inputs</div> <div>Lake Surface Area (acres)90.00</div> <div>Water Surface Elevation520.00</div> <div>Runoff Curve Number72</div> <div>Site Drainage Area (ac)1634.00</div> <div>Storitivity3.89</div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	JULY												
4	Inputs												
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89		rain gauge accuracy verification				
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div> <div>Inputs</div> <div> Broken Oak Dam Water Accounting Record AUGUST </div> <div> Lake Surface Area (acres) 90.00 </div> <div> Water Surface Elevation 90.00 </div> <div> Runoff Curve Number 520.00 </div> <div> Site Drainage Area (ac) 1634.00 </div> <div> Storativity 1634.00 </div> <div> 72 3.89 </div> <div> *This column will be complete during the rain gauge accuracy verification </div> </div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

1	A	B	C	D	E	F	G	H	I	J	K	L	M
2	Broken Oak Dam												
3	Water Accounting Record												
4	SEPTEMBER												
5	Inputs												
6	Lake Surface Area (acres)		90.00		Water Surface Elevation		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification
7					Site Drainage Area (ac)		1634.00		Storitivity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		
41													

1	A	B	C	D	E	F	G	H	I	J	K	L	M
2	Broken Oak Dam												
3	Water Accounting Record												
4	OCTOBER												
5	Inputs												
6	Lake Surface Area (acres)		90.00		Water Surface Elevation		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification
7					Site Drainage Area (ac)		1634.00		Storitivity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		
41													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	NOVEMBER												
4	Inputs												
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the				
7			Site Drainage Area (ac)		1634.00 Storitivity		3.89		rain gauge accuracy verification				
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam												
2	Water Accounting Record												
3	DECEMBER												
4	Inputs												
5													
6	Lake Surface Area (acres)		90.00		Water Surface Elevation		520.00		Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification
7			Site Drainage Area (ac)				1634.00		Storitivity		3.89		
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

WATER ACCOUNTING PLAN DESCRIPTION

Summary of the proposed water right authorization:

Applicant seeks authorization for water use to divert surface water through the lake via pumping from private groundwater wells so that there is no consumptive use or impoundment of state water while maintaining the lake levels for recreational use and to maintain the surface water flow for downstream users.

Summary of the accounting plan:

The water accounting plan calculates the amount of inflow entering the lake from the drainage basin and exiting through the spillway. The net difference between these values is considered potentially impounded surface water and will be released as surface water flow to downstream users. The water used to provide this downstream flow will be pumped from the lake into the downstream conveyance. Groundwater will be used to maintain the lake levels.

The inflow will be measured by taking water level readings from a rain gauge to be installed onsite. These readings will be converted to runoff values from the watershed based on the hydrologic calculations in the spreadsheet. The outflow will be measured using a weir depth gauge at the spillway. Readings for inflow and outflow will be taken after each precipitation event, with the calculated difference being the amount of runoff expected to flow downstream. This is the amount that will be pumped from the groundwater wells and to the surface.

Narrative of each table and column (including the name and number of the column as it appears in the table(s), the source(s), of the data, and explanation of the calculations:

The accounting plan consists of a spreadsheet that tracks the following values daily (explained in greater detail below):

- * Column A: Day
- * Column B: Groundwater Volume Added (gal)
- * Column C: Onsite Precipitation (in)
- * Column D: Total Runoff (in)
- * Column E: Total Runoff (ac-ft)
- * Column F: Lake Elevation (ft amsl)
- * Column G: Water Level Increase (ft)
- * Column H: Stage Storage Volume (ac-ft)
- * Column I: Discharge Over Outlet Wier (ac-ft)
- * Column J: Retained Surface Water (ac-ft)
- * Column K: Required Release Volume (ac-ft)
- * Column L: Volume Released (ac-ft)
- * Column M: Comments

There are tabs for every month of the year (JAN through DEC) allowing tracking of each of the values above for every day of the year. The first tab in the spreadsheet is an ANNUAL tab which calculates monthly totals of Groundwater Volume, Retained Surface Water, and Released Surface Water, and sums up those values to provide an annual total. The last tab in the spreadsheet is Stage Storage which is the estimated storage volume of the lake (ac-ft) at a given elevation level (ft amsl). These values were derived from a volumetric analysis using AutoCAD Civil. The lake boundary line was provided by a survey performed in 2020 by Kimley Horn. The source used for elevation data is USGS 3D Elevation Program (3.644-meter resolution).

The following is a description of each column as it appears in the table for each monthly tab. Where a value is to be entered, the source of that data is provided. Where a calculation is to be made, an explanation of the calculation is provided.

Column A: Day is the numerical representation of the day according to the calendar for each month.

Column B: Groundwater Volume Added (gal) is the volume of water that will be added to the lake by pumping the wells.

Column C: Onsite Precipitation (in) is the rainfall that is measured from the onsite rain gauge. This measured value will be taken and recorded after each 24-hour period which includes a precipitation event.

Column D: Total Runoff (in) calculates the amount of precipitation (from column C) that is expected to run off as downstream flow from a drainage basin. If the rainfall is zero (0), then the runoff is also zero (0). If the amount of rain is less than 1 inch, then that amount is assumed to be 20%, which is 3.89 in this case. If the rainfall exceeds 1 inch, the SCS method for calculating runoff is applied.

Column E: Total Runoff (ac-ft) is the conversion to acre-feet from inches of the value in column D, multiplied by the drainage area (ac).

Column F: Lake Elevation (ft) is the elevation of the lake above mean sea level, provided by an onsite floating gauge.

Column G: Water Level Increase (ft) is the increase of lake elevation from one day to the next. This is calculated by subtracting the previous day's elevation from the lake elevation of the current day if the current day's lake elevation is a greater number.

Column H: Stage Storage Volume (ac-ft) is the volume of the lake at a given elevation level (ft).

Column I: Discharge Over Outlet Wier (ac-ft) is the amount of water exiting the spillway which will be measured as it flows over the weir gauge.

Column J: Retained Surface Water (ac-ft) is the calculated difference between Total Runoff (ac-ft) and Discharge Over Outlet Weir (ac-ft). This is calculated by subtracting the Discharge Over Outlet Weir (ac-ft) from the Total Runoff (ac-ft).

Column J: Required Release Volume is the amount of groundwater that is required to be released as part of this accounting plan. This value will be taken two times per month.

Column K: Volume Released is the amount of groundwater that was actually released from pumping. This value should correspond to the Required Release Volume above.

Column L: Comments are to be filled as necessary according to user discretion.

**Broken Oak Dam
Water Accounting Record
Annual**

Year	
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Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)
January	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Total	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>January</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>*This column will be complete during the</div> <div>rain gauge accuracy verification</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storativity</div> <div>3.89</div> </div>												
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3													
4													
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Inputs</div> <div>Broken Oak Dam Water Accounting Record FEBRUARY</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>*This column will be complete during the rain gauge accuracy verification</div> </div> <div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storitivity</div> <div>3.89</div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>MARCH</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>*This column will be complete during the</div> <div>rain gauge accuracy verification</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>APRIL</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>MAY</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
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1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JUNE</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
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1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JULY</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
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	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>AUGUST</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Storivity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
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10	1		0	0	0					0			
11	2		0	0	0		0			0			
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[illegible]

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1	<div>Inputs</div> <div> Broken Oak Dam Water Accounting Record NOVEMBER </div>												
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6	Lake Surface Area (acres)		90.00	Water Surface Elevation		520.00	Runoff Curve Number		72	*This column will be complete during the rain gauge accuracy verification			
7				Site Drainage Area (ac)		1634.00	Storivity		3.89				
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
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19	10		0	0	0		0			0			
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6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number				72		*This column will be complete during the rain gauge accuracy verification		
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Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

Re: Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Fri 8/4/2023 3:38 PM

To: Jessica Garate <[REDACTED]>

You too!

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>

Sent: Friday, August 4, 2023 3:38 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Kenneth Coonrod <Kenneth.Coonrod@tceq.texas.gov>

Subject: RE: Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Thank you for confirming. Have a great weekend.



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax

[REDACTED]

[REDACTED]



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Friday, August 4, 2023 3:37 PM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Kenneth Coonrod <Kenneth.Coonrod@tceq.texas.gov>

Subject: Re: Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Jessica,

I received a response from our Instream staff. TCEQ is only requesting the constituents that are listed in the Request for Information: chlorides, sulfates, total dissolved solids, pH, and temperature. The other constituents are not necessary.

If you have any further questions or concerns, please do not hesitate to contact me.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>

Sent: Friday, August 4, 2023 2:55 PM

To: Lillian Beerman <[REDACTED]>

Subject: RE: Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Great, thank you so much! We have already taken the sample and are awaiting results for chlorides, sulfates, and TDS. But it would be great to have confirmation.



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax

[REDACTED]



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Friday, August 4, 2023 2:52 PM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Jessica,

I have forwarded your question to our Instream staff.
Please let me know if you have any questions or concerns.
Thank you,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

From: Jessica Garate [REDACTED]
[REDACTED]
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: FW: Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Good morning, Ms. Beerman,

We are currently working on responses to the Technical RFI and I am going to get a water sample tomorrow. I want to confirm that the water quality data being requested in #2 is *only* for chlorides, sulfates, TDS, pH, & temperature. I recall when we first submitted the initial water rights application, another subconsultant provided the water quality data and it included other constituents (carbonates, calcium, chloride, magnesium, potassium, sodium, iron, manganese, nitrogen). We can go ahead and request that the lab test for these as well if the TCEQ prefers to have this additional information and/or if it may be requested at a later date. Thank you.



Jessica Garate, GIT
Staff Geologist
Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006
[REDACTED] Phone
[REDACTED] Fax
[REDACTED]
[REDACTED]



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Kiteboard_Ranch_13828_Technical_RFI_07.20.2023

Lillian Beerman

Thu 7/20/2023 12:07 PM

To:ccampbell@westwardenv.com <

Cc:Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

 1 attachments (297 KB)

Kiteboard_Ranch_13828_RFI_Sent_07.20.2023.pdf;

Mr. Campbell,

Please review the attached Technical RFI for Kiteboard Ranch's Application No. 13828. Response is due by COB Monday, August 21, 2023. If you have any questions, do not hesitate to ask.

Thank you,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 20, 2023

Mr. Curt Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin

Dear Mr. Campbell:

Additional information is required to complete the technical review of the referenced application.

1. Confirm whether groundwater is currently being discharged into the reservoir.
2. If Applicant is not currently discharging groundwater into the reservoir, provide ambient water quality data for one sampling point in the middle of the reservoir.

The sample site should be representative of ambient water quality conditions in the reservoir. Water chemistry information should include the following parameters: chlorides, sulfates, total dissolved solids, pH, and temperature (measured at the time the sample is collected). Samples should not be collected within 24 hours of any significant (> 0.25 inch) precipitation event. Surface water quality data collection and analytical methods should conform to guidelines set forth in the Texas Commission on Environmental Quality Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415) Chapter 5 – Water Sample Collection.

3. If Applicant is currently discharging groundwater into the reservoir, provide ambient water quality data for the following:
 - a. one sampling point on Long Branch upstream of the reservoir,
 - b. one sampling point within 500 feet downstream of the reservoir dam,
 - c. one sampling point in the middle of the reservoir, and
 - d. one sampling point within 200 feet of the groundwater well discharge pipe.

The sample sites should be representative of ambient water quality conditions in Long Branch and the reservoir. All sampling protocols as described in question 2 above are applicable and should be followed. Additionally, provide the discharge rate(s) from the

groundwater well(s), as well as identify which well(s) were actively pumping during sampling events.

4. Provide a text file containing a detailed description of the *Broken Oak Dam Water Accounting Record* accounting plan submitted June 3, 2022, including a summary of the proposed water right authorization, a summary of the accounting plan, a narrative explanation of each table and of each column (including the name and number of the column as it appears in the table), the source(s) of the data, and explanations of the calculations.

Please provide the requested information by August 21, 2023, or the application may be returned pursuant to 30 Texas Administrative Code § 281.19. Alternatively, you may have the question of the necessity of the requested data (or the sufficiency of the information already submitted) referred to the commission for a decision. To be considered, a request for a referral must be provided by August 21, 2023.

If you have any questions concerning this matter, please contact me via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

Phone Memo

From: Lillian E. Beerman

To: Jessica Garate
Westward Environmental, Inc.

Phone: [REDACTED]

Re: Kiteboard Ranch

Date: July 7, 2023

App No. 13828

Ms. Garate called for a status report for Kiteboard Ranch App No. 13828. Informed her that the application was active in Technical Review. I elevated her concerns to management.

Lillian E. Beerman, Ph.D. July 7, 2023

FW: Kiteboard_Ranch_13828

Jessica Garate <[REDACTED]>

Thu 7/6/2023 5:26 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Good afternoon, Ms. Beerman.

I'm resending the last message I wrote you about the status of Kiteboard Ranch's Water Rights Application. I'm not sure if it got lost in the shuffle or just didn't have any updates for me. I apologize if I seem impatient. I haven't submitted anything like this in the past so this is new and I've just had a lot of questions throughout the process. I thank you for all the assistance you have provided thus far, it is much appreciated!



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax

[REDACTED]

[REDACTED]



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From: Jessica Garate

Sent: Monday, May 15, 2023 4:26 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Subject: RE: Kiteboard_Ranch_13828

Hi Ms. Beerman,

I hope this e-mail finds you well. I wanted to touch base again and ask a few questions about the Water Rights Application process. The one we currently have pending for Kiteboard Ranch, LLC is the first one I've worked on so I'm lacking a reference for expectations. I know you provided some general guidelines in your previous response but when I checked the "View Pending Water Rights Applications" (https://www.tceq.texas.gov/permitting/water_rights/wr-permitting/view-wr-pend-appsand) and saw that the Guadalupe Basin currently has 6 other pending applications with administratively complete dates ranging from 2017 to 2021, it led me to believe that this process might take somewhere more in the magnitude of years rather

than months. Is that a fair expectation or might those be cases where the applicant has failed to provide information, or has stopped taking some sort of action, or that there might be other reasons for those delays?

I'm also seeking clarification on the workflow. Are reviewers assigned by basin so that when they are finished reviewing one application, they take the next one from the same basin? You had mentioned that the finalization timeline was difficult to project because consideration would be given to other applications in the Guadalupe River Basin. Are there cases where reviewers are assigned to review applications in other basin(s) to redistribute workflow?

Lastly, I just want to confirm that we should expect comments back since the application is in Technical Review, correct?

I had been thinking about this project and figured I should seek clarification for myself and to provide an update for our client. Thank you!



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

Phone

Fax



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Thursday, February 23, 2023 5:15 PM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: Kiteboard_Ranch_13828

Jessica Garate,

Thank you for your inquiry about the status of Kiteboard Ranch's Application No. 13828 for a Water Use Permit.

As you know the application is in Technical Review. Our technical specialists are currently drafting their technical memoranda for Kiteboard's application. It generally takes three months for them to complete their analysis. However, exactly when the memoranda will be finalized is difficult to predict, because consideration must be given to water availability and Kiteboard's place in line respective to other water right applications in the Guadalupe River Basin.

Once they have completed their review, if granted, I will draft a permit, which will be reviewed by the Water Rights Permitting Section. This process can take from two weeks to a month. Then the Applicant has two weeks to review and comment on the application. Your review is followed by full basin mailed and published notice. Once notice is published, water right holders in the Guadalupe Basin will have the opportunity to comment and/or protest the application. If the application is protested, it is difficult to predict whether or how long it would take to permit the reservoir. If no one protests the permit, the permit will be signed and issued as quickly as possible.

An optimistic timeframe for issuing or denying Kiteboard's application for a Water Use Permit is six to eight months.

I have received questions from the technical specialists regarding your application, so I can assure you that the application is currently under consideration.

I hope this information is helpful. If you have any further questions or concerns, do not hesitate to contact me.

Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate [REDACTED]
Sent: Thursday, February 23, 2023 9:48 AM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc: Curt Campbell <[REDACTED]>
Subject: RE: Kiteboard_Ranch_13828

Good morning, Ms. Beerman.

I'm writing to get an update on the Kiteboard Ranch Water Use Permit Application (No. 13828). The owner is also currently trying to obtain a Dam Safety Registration under Chapter 299 of the TAC which we understand is on hold until this permit is issued. While they wait to make the dam improvements, the projected costs have increased much higher than originally anticipated (at least doubling due to the rise of construction materials costs) and we would like to give the landowner a timeframe to work with to aid in making preparation decisions. Thank you for your time and attention. It is greatly appreciated!

until this permit is issued. While they wait to make the dam improvements, the projected costs have increased much higher than originally anticipated (at least doubling due to the rise of construction materials costs) and we would like to give the landowner a timeframe to work with to aid in making preparation decisions. Thank you for your time and attention. It is greatly appreciated!



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

Phone

Fax



Proj #11235-002

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Friday, January 13, 2023 5:56 PM
To: Jessica Garate [REDACTED]
Subject: Re: Kiteboard_Ranch_13828_Administratively Complete

Ms. Garate,

Application No. 13828 for Kiteboard Ranch is in Technical Review. Applications are addressed by basin and in order of the date they become administratively complete. Once technical review is complete, I will draft the permit, section managers will review the draft, and the draft will be forwarded to you for review and comment. Once you have completed your review, Notice will be sent to water right holders of record in the Guadalupe River Basin. If not contested, the permit will be signed and issued. I am your contact for any issues or concerns you have regarding the review and status of your application.

Please do not hesitate to contact me.

All the best in the New Year.

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Thursday, January 12, 2023 10:27 AM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc: Curt Campbell <[REDACTED]>
Subject: RE: Kiteboard_Ranch_13828_Administratively Complete

Hello, Ms. Beerman.

Happy New Year to you. I want to check the status of Kiteboard Ranch's Water Use Permit Application (No. 13828). Is it still in Technical Review? We have not had an update since September 2022. What is the name and contact information of the reviewer so I can reach out directly? Thank you in advance.

Best Regards,



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006

[REDACTED] Phone

[REDACTED] Fax



Proj #

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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Friday, September 30, 2022 2:58 PM
To: Curt Campbell <[REDACTED]> Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Kiteboard_Ranch_13828_Administratively Complete

Greetings,

As of September 30, 2022, Kiteboard Ranch's Application No. 13828 is Administratively Complete. Letter Attached.

If you have any questions or concerns, do not hesitate to contact me.

Thank you,

RE: Kiteboard_Ranch_13828_Administratively Complete

Jessica Garate <[REDACTED]>

Fri 9/30/2022 3:13 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Thank you for the update, Ms. Beerman. We look forward to completing the next phase of the process.

Best Regards,



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

4 Shooting Club Road / PO Box 2205

Boerne, TX 78006

[REDACTED] Phone

[REDACTED] Fax



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Friday, September 30, 2022 2:58 PM

To: Curt Campbell <[REDACTED]>; Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Kiteboard_Ranch_13828_Administratively Complete

Greetings,

As of September 30, 2022, Kiteboard Ranch's Application No. 13828 is Administratively Complete. Letter Attached.

If you have any questions or concerns, do not hesitate to contact me.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

TCEQ Interoffice Memorandum

To: Office of the Chief Clerk
Texas Commission on Environmental Quality

Thru: Chris Kozlowski, Team Leader
Water Rights Permitting Team

From: Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team

Date: September 30, 2022

Subject: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin
Guadalupe County

Partial fees were received on October 29, 2021 and the application was received on February 28, 2022. Additional information and fees were received on June 3, June 8 and September 1, 2022. The application was declared administratively complete and filed with the Office of the Chief Clerk on September 30, 2022. Published notice is required pursuant to Title 30 Texas Administrative Code (TAC) § 295.152(a) and mailed notice to water right holders of record in the Guadalupe River Basin and the Guadalupe County Groundwater Conservation District is required pursuant to Title 30 TAC § 295.153(b)(3).

All fees have been paid and the application is sufficient for filing.

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

OCC Mailed Notice Required ☒ **YES** ☐ **NO**

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 30, 2022

Mr. Curt G. Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin
Guadalupe County

Dear Mr. Campbell:

This acknowledges receipt of additional information on September 1, 2022.

The application was declared administratively complete and filed with the Office of the Chief Clerk on September 30, 2022. Staff will continue processing the application for consideration by the Executive Director.

Please be advised that additional information may be requested during the technical review phase of the application process.

If you have any questions concerning the application, please contact me at lillian.beerman@tceq.texas.gov or by phone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

RE: WRPERM 13828 - Kiteboard Ranch, LLC

Jessica Garate [REDACTED]

Thu 9/29/2022 4:20 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

You're welcome, and I appreciate all of your help!

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Thursday, September 29, 2022 4:15 PM

To: Jessica Garate [REDACTED]

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: WRPERM 13828 - Kiteboard Ranch, LLC

Thank you for your prompt response, Jessica. I forwarded your email to Warren Samuelson.

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>

Sent: Thursday, September 29, 2022 3:51 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Warren Samuelson <warren.samuelson@tceq.texas.gov>; Curt Campbell [REDACTED]

Subject: WRPERM 13828 - Kiteboard Ranch, LLC

Ms. Beerman,

Thank you for reaching out earlier today for the timeline to complete the dam modifications and get our application closer to being administrative complete. To answer your question, the projected timeframe for construction is from April 2023 through August 2024, dependent on the contractor's schedule. I hope this fully answers your question. Please let me know if I can be of further assistance.



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

830.249.8284 Phone

830.249.0221 Fax

[REDACTED]
www.westwardenv.com



Proj #11235-002

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PHONE MEMO

Kiteboard Ranch, LLC, WRPERM Application No. 13828

From: Lillian E. Beerman	To: Jessica Garate
Date: September 29, 2022	Permit: 13828
Phone: 830.249.8284	Re: Kiteboard Ranch DS question

Spoke with Ms. Garate. Asked her question raised by Dam Safety: What is the timeframe to commence and complete modifications to the Broken Oak Dam?

Westward Environmental is not the consultant for the dam modification project. Ms. Garate said that she would reach out to the firm and get back with an answer.

Lillian E. Beerman, Ph.D. September 29, 2022

Response to Second RFI

Jessica Garate <[REDACTED]>

Thu 9/1/2022 1:31 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell [REDACTED]; Chris Pepper

<[REDACTED]>

Ms. Beerman,

Attached here you will find Westward Environmental, Inc.'s (Westward) response to TCEQ's second Request for Information regarding the Water Rights Permit for Kiteboard Ranch, LLC. Westward will continue to serve as the technical contact for Kiteboard Ranch, LLC on this project. Please ensure Westward is copied on all correspondence, including the final approval. If you have any questions or require additional information, please contact our office at 830-249-8284. Thank you.

Respectfully Submitted,



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

830.249.8284 Phone

830.249.0221 Fax



www.westwardenv.com



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September 1, 2022

Project No. 11235-002

Ms. Lillian E. Beerman, Ph.D.
Texas Commission on Environmental Quality
Water Rights Permitting Team
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087
lillian.beerman@tceq.texas.gov

Subject: Response to the Second Request for Information (RFI)
Kiteboard Ranch, LLC – CN605929736, RN111448155
Application for a Water Use Permit - WRPERM 13828
Long Branch, Guadalupe River Basin

Dear Ms. Beerman,

Please accept the following response to the Second Request for Information (RFI) comments dated August 3, 2022 regarding the above-referenced application for a Water Use Permit on behalf of Kiteboard Ranch, LLC.

Comment 1: Provide a revised Well Operation Plan that includes all wells to be utilized as alternate sources in support of the application. Resource Protection staff note that in the Applicant's response to information received June 8, 2022, the map provided lists well K-3, which corresponds to the groundwater conservation district permit and well production table provided in the original submitted application received February 28, 2022. However, in the Well Operation Plan found in Attachment C of the Applicant's response, as well as the water quality analysis table provided in the original application, well K-3 is excluded, and two additional wells, K-4 and K-5a, are listed.

Response 1: Please see the attached Revised Well Operation Plan which omits wells K-4 and K-5, as they will not be utilized to compensate for evaporative losses and therefore, need not be included in the Well Operation Plan. Well K-3 will be utilized and is included in the revised Well Operation Plan (Attachment A).

Comment 2: Provide a copy of the groundwater well permits or evidence that a groundwater permit is not required for the K-4 and K-5a wells from the Guadalupe County Groundwater Conservation District.



Response 2: Wells K-4 and K-5a will not be utilized as neither well produced sufficient water. Therefore, neither of these wells were permitted and as such, are excluded from the Well Operation Plan.

Comment 3: If well K-3 will be used as an alternate source for the application, provide onsite water chemistry information for the groundwater to be discharged from the well, 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. Provide the depth of the well and the name of the aquifer and specific information from which the water is withdrawn.

Parameter	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Sulfate, mg/L	378	378	1	Grab sample	3/24/2021 12:20 PM
Chloride, mg/L	1930	1930	1	Grab sample	3/24/2021 12:20 PM
Total Dissolved Solids, mg/L	3530	3530	1	Grab sample	3/24/2021 12:20 PM
pH, standard units	6.74	6.74	1	Grab sample	3/24/2021 12:20 PM
Temperature*, degrees Celcius	22.8	22.8	1	Grab sample	3/24/2021 12:20 PM

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

Response 3: Please see the table above which includes water chemistry data for Well K-3. Additional water quality data from testing results is also included (Attachment B). The depth of well K-3 is 110 ft. and is drawing from the Carrizo-Wilcox Aquifer.



Comment 4: Provide a water quality analysis, or any other data or relevant information, which demonstrates that discharges of groundwater from the proposed wells into the reservoir shall be of sufficient quality to meet the requirements of the applicable water quality criteria of the Texas Surface Water Quality Standards (Title 30 Texas Administrative Code 307) for Long Branch, tributary of Mill Creek, tributary of the Guadalupe River (Segment no. 1804). Note, Resource Protection staff reviewed the water quality data previously submitted by the Applicant and identified a concern

for total dissolved solids and/or sulfate for wells K-4, K-5a, K-10a, K-13, K-14, K-18, and K-23.

Response 4: It is anticipated that the TDS levels will be maintained below the secondary drinking water standards prior to discharge to the lake. Well water will be mixed with surface water in the lake prior to discharge. In addition, water quality sampling will be ongoing, and readings will be taken at both the well discharge outlet pipe and at the ultimate outfall when pumping required discharges. Wells will also be monitored regularly for TDS and the priority of use for each well will be based on the best water quality. There is no known TDS discharge limit in the TPDES program and due to the distance to segment 1804 (Guadalupe River) it is not anticipated that the TDS limits will adversely affect this segment. Additionally, Kiteboard may evaluate ion-exchange as a backup solution should TDS levels exceed those desired to maintain aquatic life in the on-site lake.

WESTWARD will continue to serve as the technical contact for Kiteboard Ranch, LLC on this project. Please ensure that WESTWARD is copied on all correspondence, including the final approval. If you have any questions or require additional information, please contact our office at 830-249-8284.

Respectfully submitted,
WESTWARD ENVIRONMENTAL, INC.



Curt G. Campbell, PE
VP Engineering & Natural Resources
TX License No. 106851 | TX Firm No. 4524

Attachment A: Revised Well Operating Plan (revised 8/17/2022)
Attachment B: Water Quality Data Table

Distribution: Addressee
WEI 11235-002 File

Well Operating Plan

Kiteboard Ranch, LLC, is the owner of a recreational lake located in Guadalupe County, Texas. The lake currently is not permitted to use/store surface water, therefore, it plans to use seven (7) onsite groundwater wells to pump water from the Carrizo-Wilcox aquifer to maintain the lake level for recreation. A water accounting plan will be implemented to avoid impounding State Water.

The onsite wells will be controlled by either a float switch or pressure transducer which will be triggered to pump when the lake falls below 518 ft amsl, determined to be the desired minimum water surface elevation of the lake. To assist in monitoring the lake level, Kiteboard Ranch, LLC will incorporate a Well Operating Plan as follows:

1. The float switch/pressure transducer will signal the pumps to start when it falls below the predetermined level above.
2. The wells with the lowest amounts of TDS will be set to discharge first. The order may change depending on water quality data that is available. Based on the most recent (Jan. 2022) water quality data we have for these wells the order is as follows:
 - o K-23
 - o K-16
 - o K-13
 - o K-14
 - o K-10a
 - o K-18
 - o K-3
3. The amount of water discharged will be metered and recorded on the Well Operating Plan log (see below).
4. The readings will be reported per the Guadalupe County Groundwater Conservation District (GCGCD) rules.

Water level readings will be recorded in the following format: (a separate sheet with this table will be kept on-site)

Well Reader's Name	Well ID	Date of Reading	Time of Reading	Water Level

All records must be kept on site and ready to give to TCEQ inspector upon request.

Quality Summary - Kiteboard

	K-3	K-10a	K-13	K-14	K-16	K-18	K-23
Parameter	DHL	DHL	DHL	DHL	DHL	DHL	DHL
Sample Date	3/24/2021	3/24/2021	3/25/2021	3/25/2021	3/24/2021	3/24/2021	3/25/2021
Temperature (C)	22.8	23.7	20.5	24.4	22.4	23.4	21.8
pH	6.74	7.71	7.22	6.76	6.75	6.88	6.3
Total Dissolved Solids (mg/L)	3530	1030	689	852	412	1640	344
Total Alkalinity (as CaCO3)	169	281	282	264	234	254	149
Bicarbonate (as CaCO3)	169	281	282	264	234	254	149
Carbonate (as CaCO3)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hydroxide (as CaCO3)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Calcium	766	51.5	133	177	54.3	290	64.1
Chloride	1930	210	81.1	114	19.5	529	14.4
Magnesium	117	22.6	17.3	20.9	8.59	29	9.39
Potassium	6.21	6.62	4.24	4.11	2.35	5.92	3.48
Sodium	361	271	71.7	77.3	55.5	244	28.7
Dissolved Iron	1.01	0.218	0.797	5.4	0.266	0.107	0.147
Dissolved Manganese	0.276	0.0954	0.482	0.465	0.0694	0.0763	0.0766
Nitrate as Nitrogen	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.19	2.61
Sulfate	378	290	154	257	59.8	365	74.7

RE: Kiteboard_Ranch_13828_Second_Request_for_Information

Jessica Garate [REDACTED]

Thu 9/1/2022 10:19 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Great, thank you so much!

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Thursday, September 1, 2022 10:18 AM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: Kiteboard_Ranch_13828_Second_Request_for_Information

Ms. Jessica Garate,

Yes, you can send it directly to me via e-mail.

I will be watching for it.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>

Sent: Thursday, September 1, 2022 10:16 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Subject: RE: Kiteboard_Ranch_13828_Second_Request_for_Information

Ms. Beerman,

Thank you so much for the deadline reminder. The response is completed and under review. Shall we submit as we did previously and e-mail the response to you directly?



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

4 Shooting Club Road / PO Box 2205

Boerne, TX 78006

830.249.8284 Phone
830.249.0221 Fax
www.westwardenv.com



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Thursday, September 1, 2022 9:44 AM
To: Curt Campbell <[REDACTED]>; Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Kiteboard_Ranch_13828_Second_Request_for_Information

Mr. Curt Campbell, P.E. and Ms. Jessica Garate,
A reminder that Kiteboard Ranch's response to TCEQ's Request for Information is due on Friday, September 2, 2022. Please let me know if you have any questions or concerns.
Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Wednesday, August 3, 2022 8:58 AM
To: [REDACTED]; Jessica Garate <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Kiteboard_Ranch_13828_Second_Request_for_Information

Mr. Curt Campbell, P.E. and Ms. Jessica Garate,

Please respond to the Second Request for Information for Kiteboard Ranch, LLC's Application No. 13828 for a temporary water use permit. The due date for your response is COB Friday, September 2, 2022. If you have any questions or concerns, do not hesitate to contact me.
Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

Kiteboard_Ranch_13828_Second_Request_for_Information

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Wed 8/3/2022 8:58 AM

To: [REDACTED] Jessica Garate
<[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Mr. Curt Campbell, P.E. and Ms. Jessica Garate,

Please respond to the Second Request for Information for Kiteboard Ranch, LLC's Application No. 13828 for a temporary water use permit. The due date for your response is COB Friday, September 2, 2022.

If you have any questions or concerns, do not hesitate to contact me.

Thank You,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 3, 2022

Mr. Curt Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin

Dear Mr. Campbell:

This acknowledges receipt, on June 3, and June 8, 2022, of additional information and fees in the amount of \$203.54 (Receipt No. M217979, copy attached).

Additional information is required before the application can be declared administratively complete.

1. Provide a revised *Well Operation Plan* that includes all wells to be utilized as alternate sources in support of the application. Resource Protection staff note that in the Applicant's response to information received June 8, 2022, the map provided lists well K-3, which corresponds to the groundwater conservation district permit and well production table provided in the original submitted application received February 28, 2022. However, in the *Well Operation Plan*, found in Attachment C of the Applicant's response, as well as the water quality analysis table provided in the original application, well K-3 is excluded, and two additional wells, K-4 and K5a, are listed.
2. Provide a copy of the groundwater well permits or evidence that a groundwater well permit is not required for the K-4 and K5a wells from the Guadalupe County Groundwater Conservation District.

Please submit the requested information by September 2, 2022, or the application may be returned pursuant to Title 30 Texas Administrative Code § 281.18.

Additional information is required for technical review of the application:

3. If well K-3 will be used as an alternate source for the application, provide onsite water chemistry information for the groundwater to be discharged from the well, 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. Provide the depth of the well and the name of the aquifer and specific formation from which the water is withdrawn.

Parameter	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Sulfate, mg/L					
Chloride, mg/L					
Total Dissolved Solids, mg/L					
pH, standard units					
Temperature*, degrees Celsius					

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

4. Provide a water quality analysis, or any other data or relevant information, which demonstrates that discharges of groundwater from the proposed wells into the reservoir shall be of sufficient quality to meet the requirements of the applicable water quality criteria of the *Texas Surface Water Quality Standards* (Title 30 Texas Administrative Code 307) for Long Branch, tributary of Mill Creek, tributary of the Guadalupe River (Segment no. 1804). Note, Resource Protection staff reviewed the water quality data previously submitted by the Applicant and identified a concern for total dissolved solids and/or sulfates for wells K-4, K-5a, K-10a, K-13, K-14, K-18, and K-23.

If you have any questions concerning this matter, please contact me via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

Attachment



08-JUN-22 04:03 PM

TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

<u>Fee Description</u>	<u>Fee Code</u> <u>Account#</u> <u>Account Name</u>	<u>Ref#1</u> <u>Ref#2</u> <u>Paid In By</u>	<u>Check Number</u> <u>Card Auth.</u> <u>User Data</u>	<u>CC Type</u> <u>Tran Code</u> <u>Rec Code</u>	<u>Slip Key</u> <u>Document#</u>	<u>Tran Date</u>	<u>Tran Amount</u>
WTR USE PERMITS	WUP	M217979	1099		BS00095339	08-JUN-22	-\$203.54
	WUP	13828	060822	N	D2802830		
	WATER USE PERMITS	YACKTMAN, ELLYN	RHDAVIS	CK			
						Total (Fee Code):	-\$203.54
						Grand Total:	-\$3,263.54

C. Berman

RECEIVED

JUN 10 2022

Water Availability Division

June 3, 2022

Project No. 11235-002

Ms. Lillian E. Beerman, Ph.D.
Texas Commission on Environmental Quality
Water Rights Permitting Team
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087
lillian.beerman@tceq.texas.gov

RECEIVED

JUN 08 2022

Water Availability Division

Subject: Response to Request for Information (RFI)
Kiteboard Ranch, LLC – CN605929736, RN111448155
Application for a Water Use Permit - WRPERM 13828
Long Branch, Guadalupe River Basin

Dear Ms. Beerman,

Please accept the following response to the Request for Information (RFI) comments dated April 7, 2022 regarding the above-referenced application for a Water Use Permit on behalf of Kiteboard Ranch, LLC.

Comment 1: Confirm that a diversion authorization is not requested. Staff notes a diversion point was indicated on the map provided by the Applicant.

Response 1: Confirmed. The point that was shown as a diversion point on the Project Map is actually the discharge point referred to in Worksheet 4.1. Please see the attached Project Map which has been revised to indicate the centerline of the dam as the discharge point at which the water from the reservoir will be discharged to maintain downstream flow (Attachment A).

Comment 2: Confirm that the alternate source will be adequate to compensate for evaporative losses from the reservoir. Staff notes that the application indicates sufficient groundwater to account for evaporative losses of 50 acre-feet per year. However, Staff has calculated the maximum monthly and annual evaporative losses to be 83.13 and 476.45 acre-feet, respectively.

Response 2: A water accounting plan has been developed that is not dependent on evaporation rates. Since the lake will be filled with groundwater the evaporation would be groundwater and would not be impounded surface water that downstream water rights holders have expectation of receiving. We determined that for this impoundment we would need to establish a way to

determine the amount of inflow from the drainage basin that enters the lake so that we could release a corresponding volume.

The accounting plan will calculate the amount of surface water runoff from the basin that enters the impoundment and exits through the spillway. The net difference of these 2 values is impounded surface water and will be released on a biweekly basis. The initial accounting model has been set up using the unit hydrograph method to estimate runoff from each rainfall event. A rain gauge will be installed onsite and daily readings will be recorded. These rainfall reading will be converted to runoff values form the watershed. The initial assumptions in the unit hydrograph calculation will be verified and fine-tuned using a depth to volume ratio of the lake (stage storage). The equation for relating runoff to runoff volume will be updated over time. A weir depth gauge will be installed on the pond overflow, it will be calibrated to record the volume of water released over time. A floating gauge will be installed to monitor lake levels. A discharge event will be performed biweekly from a pump with a floating intake in the lake.

Groundwater will be added to increase and maintain the water level in the lake for recreational purposes. In the event that evaporation of groundwater exceeds the available water for maintaining the lake level the lake levels will be allowed to drop until they can be restored using groundwater alone. All surface water will be passed through the impoundment. See attached Water Accounting Plan (Attachment B).

Comment 3: Provide an operational plan that identifies how the groundwater from the Applicant's seven wells will support the application. In the plan, describe how use of each well will be determined for a given day/time.

Response 3: The onsite wells will be controlled by a float switch or pressure transducer which will be located in the lake and will trigger the wells to pump when the lake level falls below a predetermined elevation. The wells with the lowest amounts of TDS will be set to discharge first. The total amount of water discharged from the wells will be metered and reported per the Guadalupe County Groundwater Conservation District (GCGCD) rules. See attached Well Operating Plan (Attachment C).

Comment 4: Before the application can be considered administratively complete, remit fees in the amount of \$203.54, as described below. Please make the check payable to the TCEQ or Texas Commission on Environmental Quality.

<i>Filing Fee</i>	<i>(100 to 5,000 Acre-Feet)</i>	<i>\$</i>	<i>250.00</i>
<i>Recording Fee</i>		<i>\$</i>	<i>25.00</i>
<i>Storage Fees</i>	<i>(\$1.00 x 1,186 Acre-Feet)</i>	<i>\$</i>	<i>1,186.00</i>
<i>Mailed Notice</i>	<i>(Guadalupe River Basin)</i>	<i>\$</i>	<i>336.52</i>
<i>TOTAL FEES</i>		<i>\$</i>	<i>1,797.52</i>
<i>FEES RECEIVED</i>		<i>\$</i>	<i>1,593.98</i>
<i>TOTAL FEES DUE</i>		<i>\$</i>	<i>203.54</i>

Response 4: Please find Check #1099 in the amount of \$203.54 made payable to the TCEQ included here (Attachment D).

WESTWARD will continue to serve as the technical contact for Kiteboard Ranch, LLC on this project. Please ensure that WESTWARD is copied on all correspondence, including the final approval. If you have any questions or require additional information, please contact our office at 830-249-8284

Respectfully submitted,
WESTWARD ENVIRONMENTAL, INC.

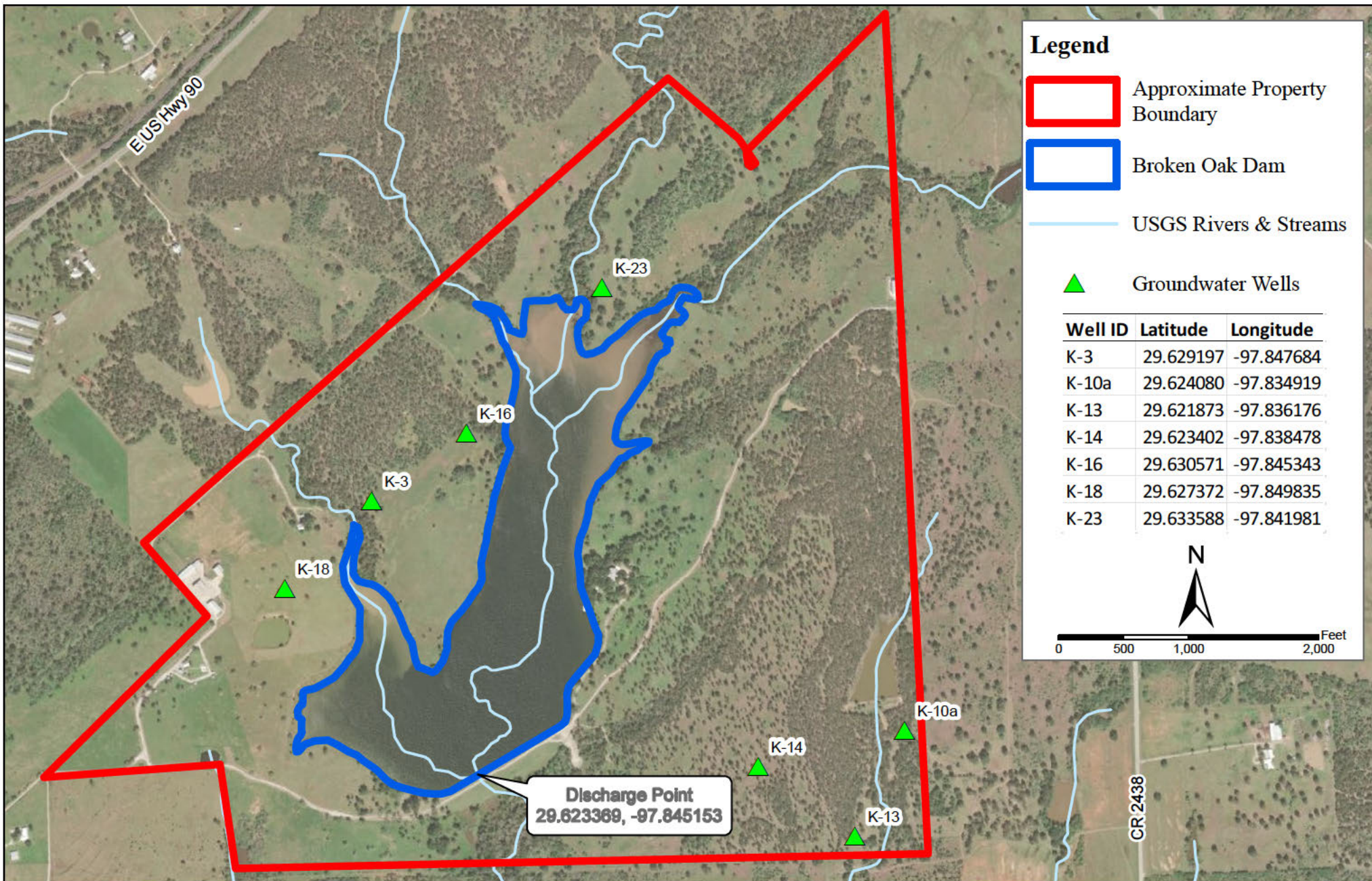


Curt G. Campbell, PE
VP Engineering & Natural Resources
TX License No. 106851 | TX Firm No. 4524

Attachment A: Project Map (revised 4/11/2022)
Attachment B: Water accounting Plan
Attachment C: Well Operating Plan
Attachment D: Check #1099

Distribution: Addressee
WEI 11235-002 File

Attachment A



SHEET NO : 001 OF 001	IMAGE: ESRI WORLD IMAGERY	
	ISSUE DATE:	04/11/2022
	DRAWN BY:	JG
	CHECKED BY:	CGC
	SCALE: 1" =	1,000'
	JOB NO :	11235-002

PROJECT MAP			
BROKEN OAK DAM KITEBOARD RANCH, LLC. SEGUIN, GUADALUPE COUNTY, TEXAS			
REV	DESCRIPTION	BY	DATE

FOR INTERIM REVIEW ONLY

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WESTWARD
Environmental, Engineering, Natural Resources.

P.O. Box 2205, Boerne, Texas 78006
(830) 249-8284 Fax: (830) 249-0221
TBPE REG NO : F-4524
TBPGE REG NO : 50112

Attachment B
(Spreadsheet Provided Electronically)

Attachment C

Well Operating Plan

Kiteboard Ranch, LLC, is the owner of a recreational lake located in Guadalupe County, Texas. The lake currently is not permitted to use/store surface water, therefore, it plans to use eight (8) onsite groundwater wells to pump water from the Carrizo-Wilcox aquifer to maintain the lake level for recreation. A water accounting plan will be implemented to avoid impounding State Water.

The onsite wells will be controlled by either a float switch or pressure transducer which will be triggered to pump when the lake falls below 518 ft amsl, determined to be the desired minimum water surface elevation of the lake. To assist in monitoring the lake level, Kiteboard Ranch, LLC will incorporate a Well Operating Plan as follows:

1. The float switch/pressure transducer will signal the pumps to start when it falls below the predetermined level above.
2. The wells with the lowest amounts of TDS will be set to discharge first. The order may change depending on water quality data that is available. Based on the most recent (Jan. 2022) water quality data we have for these wells the order is as follows:
 - K-23
 - K-16
 - K-13
 - K-14
 - K-10a
 - K-18
 - K-4
 - K-5a
3. The amount of water discharged will be metered and recorded on the Well Operating Plan log (see below).
4. The readings will be reported per the Guadalupe County Groundwater Conservation District (GCGCD) rules.

Water level readings will be recorded in the following format: (a separate sheet with this table will be kept on-site)

Well Reader's Name	Well ID	Date of Reading	Time of Reading	Water Level

All records must be kept on site and ready to give to TCEQ inspector upon request.

Attachment D

Kiteboard Ranch WRPERM 13828 Response to RFI

Jessica Garate <[REDACTED]>

Fri 6/3/2022 2:41 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>; Chris Pepper <[REDACTED]>

Ms. Beerman,

I have attached here the response to RFI for the Kiteboard Ranch Water Permit application referenced above. I am sending a hard copy via FedEx today which will include the check for fees due to the TCEQ. Thank you.



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

830.249.8284 Phone

830.249.0221 Fax



www.westwardenv.com



Proj #11235-002

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June 3, 2022

Project No. 11235-002

Ms. Lillian E. Beerman, Ph.D.
Texas Commission on Environmental Quality
Water Rights Permitting Team
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087
lillian.beerman@tceq.texas.gov

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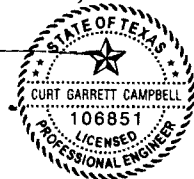
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6/3/2022

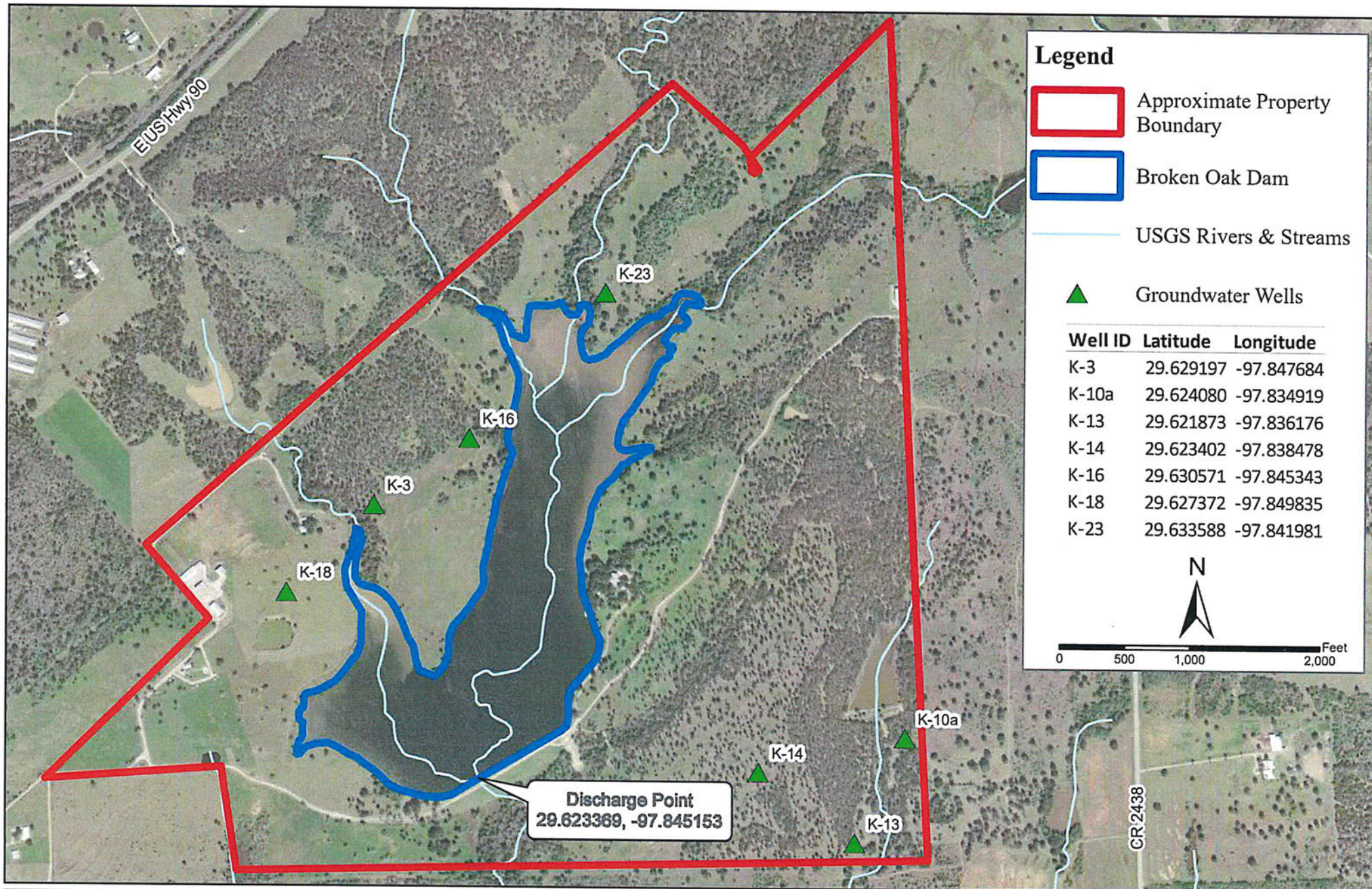


Curt G. Campbell, PE
VP Engineering & Natural Resources
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Attachment A: Project Map (revised 4/11/2022)
Attachment B: Water accounting Plan
Attachment C: Well Operating Plan
Attachment D: Check #1099

Distribution: Addressee
WEI 11235-002 File

Attachment A



Legend

Approximate Property Boundary

Broken Oak Dam

USGS Rivers & Streams

▲ Groundwater Wells

Well ID	Latitude	Longitude
K-3	29.629197	-97.847684
K-10a	29.624080	-97.834919
K-13	29.621873	-97.836176
K-14	29.623402	-97.838478
K-16	29.630571	-97.845343
K-18	29.627372	-97.849835
K-23	29.633588	-97.841981



0 500 1,000 2,000 Feet

Discharge Point
29.623369, -97.845153

SHEET NO.: 001 OF 001	IMAGE: ESRI WORLD IMAGERY	
	ISSUE DATE:	04/11/2022
	DRAWN BY:	JG
	CHECKED BY:	CGC
	SCALE: 1" =	1,000'
	JOB NO.:	11235-002

PROJECT MAP			
BROKEN OAK DAM			
KITEBOARD RANCH, LLC.			
SEGUIN, GUADALUPE COUNTY, TEXAS			
REV.	DESCRIPTION	BY	DATE

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TBPE REG. NO.: F-4524
TBPB REG. NO.: 50112

Attachment B
(Spreadsheet Provided Electronically)

**Broken Oak Dam
Water Accounting Record
Annual**

Year	
-------------	--

Month	Groundwater Volume (ac-ft)	Retained Surface Water (ac-ft)	Released Surface Water (ac-ft)
January	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Total	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X		
	Broken Oak Dam Water Account No Record anuary																									
	inlets																									
	Lake Surface Area (acres)		90.00 Water Sur ace Elevat on 5 to Drainage Area (ac)		500.00 Runoff Curve Number 163.00 S elev ty		72 3.55		* his co umn w ll be comp ets during the rain gauge accuracy verification																Shaned: Date: _____	
	Day	Groundwater Volume Added (ac ft)	One to Precipitation (in)	o at Runoff (in)	otal Runoff (ac ft)	Lake Elevation	Water Level	Stage Storage Volume*	Discharge Over Out at W ter (ac ft)	Re a ned Surface Water (ac ft)	Required Release Vo ume (ac ft)	Volume Released	Comments													
1		0	0	0	0				0	0																
2		0	0	0	0				0	0																
3		0	0	0	0				0	0																
4		0	0	0	0				0	0																
5		0	0	0	0				0	0																
6		0	0	0	0				0	0																
7		0	0	0	0				0	0																
8		0	0	0	0				0	0																
9		0	0	0	0				0	0																
10		0	0	0	0				0	0																
11		0	0	0	0				0	0																
12		0	0	0	0				0	0																
13		0	0	0	0				0	0																
14		0	0	0	0				0	0																
15		0	0	0	0				0	0	0.00															
16		0	0	0	0				0	0																
17		0	0	0	0				0	0																
18		0	0	0	0				0	0																
19		0	0	0	0				0	0																
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21		0	0	0	0				0	0																
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23		0	0	0	0				0	0																
24		0	0	0	0				0	0																
25		0	0	0	0				0	0																
26		0	0	0	0				0	0																
27		0	0	0	0				0	0																
28		0	0	0	0				0	0																
29		0	0	0	0				0	0																
30		0	0	0	0				0	0																
31		0	0	0	0				0	0	0.00															

Summary Data

#REF!

#REF!

0

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>FEBRUARY</div> <div>Inputs</div> <div>Lake Surface Area (acres)90.00</div> <div>Water Surface Elevation520.00</div> <div>Runoff Curve Number72</div> <div>Stativity1634.00</div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam Water Accounting Record MARCH												
2													
3													
4													
5	Inputs												
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number				72		*This column will be complete during the rain gauge accuracy verification		
7			Site Drainage Area (ac)		1634.00 Stativity				3.89				
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>APRIL</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Stativity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>MAY</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Stativity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JUNE</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Stativity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
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9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>JULY</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Stativity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
3													
4													
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8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam Water Accounting Record AUGUST												
2													
3													
4													
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification				
7			Site Drainage Area (ac)		1634.00 Stativity		3.89						
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam Water Accounting Record SEPTEMBER												
2													
3													
4													
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification				
7			Site Drainage Area (ac)		1634.00 Stativity		3.89						
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam Water Accounting Record OCTOBER												
2													
3													
4													
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification				
7			Site Drainage Area (ac)		1634.00 Stativity		3.89						
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Broken Oak Dam</div> <div>Water Accounting Record</div> <div>NOVEMBER</div> <div>Inputs</div> <div> <div>Lake Surface Area (acres)</div> <div>90.00</div> <div>Water Surface Elevation</div> <div>520.00</div> <div>Runoff Curve Number</div> <div>72</div> <div>Site Drainage Area (ac)</div> <div>1634.00</div> <div>Stativity</div> <div>3.89</div> </div> <div>*This column will be complete during the rain gauge accuracy verification</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Broken Oak Dam Water Accounting Record DECEMBER												
2													
3													
4													
5													
6	Lake Surface Area (acres)		90.00 Water Surface Elevation		520.00 Runoff Curve Number		72		*This column will be complete during the rain gauge accuracy verification				
7			Site Drainage Area (ac)		1634.00 Stativity		3.89						
8													
9	Day	Groundwater Volume Added (gal)	Onsite Precipitation (in)	Total Runoff (in)	Total Runoff (ac-ft)	Lake Elevation	Water Level Increase	Stage Storage Volume*	Discharge Over Outlet Wier (ac-ft)	Retained Surface Water (ac-ft)	Required Release Volume (ac-ft)	Volume Released	Comments
10	1		0	0	0					0			
11	2		0	0	0		0			0			
12	3		0	0	0		0			0			
13	4		0	0	0		0			0			
14	5		0	0	0		0			0			
15	6		0	0	0		0			0			
16	7		0	0	0		0			0			
17	8		0	0	0		0			0			
18	9		0	0	0		0			0			
19	10		0	0	0		0			0			
20	11		0	0	0		0			0			
21	12		0	0	0		0			0			
22	13		0	0	0		0			0			
23	14		0	0	0		0			0			
24	15		0	0	0		0			0	0.00		
25	16		0	0	0		0			0			
26	17		0	0	0		0			0			
27	18		0	0	0		0			0			
28	19		0	0	0		0			0			
29	20		0	0	0		0			0			
30	21		0	0	0		0			0			
31	22		0	0	0		0			0			
32	23		0	0	0		0			0			
33	24		0	0	0		0			0			
34	25		0	0	0		0			0			
35	26		0	0	0		0			0			
36	27		0	0	0		0			0			
37	28		0	0	0		0			0			
38	29		0	0	0		0			0			
39	30		0	0	0		0			0			
40	31		0	0	0		0			0	0.00		

Stage	Volume
490	0
495	10
500	42
505	134
510	276
515	489
520	802

Attachment C

Well Operating Plan

Kiteboard Ranch, LLC, is the owner of a recreational lake located in Guadalupe County, Texas. The lake currently is not permitted to use/store surface water, therefore, it plans to use eight (8) onsite groundwater wells to pump water from the Carrizo-Wilcox aquifer to maintain the lake level for recreation. A water accounting plan will be implemented to avoid impounding State Water.

The onsite wells will be controlled by either a float switch or pressure transducer which will be triggered to pump when the lake falls below 518 ft amsl, determined to be the desired minimum water surface elevation of the lake. To assist in monitoring the lake level, Kiteboard Ranch, LLC will incorporate a Well Operating Plan as follows:

1. The float switch/pressure transducer will signal the pumps to start when it falls below the predetermined level above.
2. The wells with the lowest amounts of TDS will be set to discharge first. The order may change depending on water quality data that is available. Based on the most recent (Jan. 2022) water quality data we have for these wells the order is as follows:
 - K-23
 - K-16
 - K-13
 - K-14
 - K-10a
 - K-18
 - K-4
 - K-5a
3. The amount of water discharged will be metered and recorded on the Well Operating Plan log (see below).
4. The readings will be reported per the Guadalupe County Groundwater Conservation District (GCGCD) rules.

Water level readings will be recorded in the following format: (a separate sheet with this table will be kept on-site)

Well Reader's Name	Well ID	Date of Reading	Time of Reading	Water Level

All records must be kept on site and ready to give to TCEQ inspector upon request.

Attachment D

Steve and Eilyn Yacktmann
3571 Far West Blvd. #82
Austin, Tx 78731

MONDAY, 11/05/01

11:11 AM CST 11/05/01



Westward Environmental, Inc
Attn: Curt Campbell/Jessica Gracet
4 Shooting Club Rd.

Beane Texas 78005

78005-591404

RE: Response to RFI Submittal

Jessica Garate <[REDACTED]>

Fri 6/3/2022 2:37 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thank you very much, Ms. Beerman. It is forthcoming. You have a great weekend as well!



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

4 Shooting Club Road / PO Box 2205

Boerne, TX 78006

830.249.8284 Phone

830.249.0221 Fax

www.westwardenv.com



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From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Friday, June 3, 2022 2:32 PM

To: Jessica Garate <[REDACTED]>

Subject: Re: Response to RFI Submittal

Jessica,

You can email the documents to me directly.

Thank you for your prompt response.

Have a good weekend.

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>
Sent: Friday, June 3, 2022 2:31 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Response to RFI Submittal

Good afternoon, Ms. Beerman.

We are ready to submit the response to RFI for Kiteboard Ranch, WRPERM 13828. Can I e-mail that to you directly or is that supposed to be submitted via the TCEQ website? Thank you.



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.
P.O. Box 2205 / Boerne, Texas 78006
830.249.8284 Phone
830.249.0221 Fax



www.westwardenv.com



Proj #

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Kiteboard_Ranch_LLC_13828_RFI_Extension

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Mon 5/16/2022 5:21 PM

To: [REDACTED]; Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

 2 attachments (449 KB)

Kiteboard_Ranch_13828_RFI_Extension.pdf; Kiteboard_Ranch_13828_RFI_Sent_04.07.2022.pdf;

Mr. Curt Campbell, P.E. and Ms. Jessica Garate,

An extension has been granted for Kiteboard Ranch, LLC's response to the Request for Information for Application No. 13828. The revised due date is COB Thursday, June 9, 2022.

If you have any questions or concerns, do not hesitate to contact me.

See Attachments.

Respectfully,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 16, 2022

Mr. Curt Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin

Dear Mr. Campbell:

This acknowledges the request, on May 11, 2022, of the applicants' request for an extension of time to respond to the Texas Commission on Environmental Quality (TCEQ) request for additional information, letter dated April 7, 2022.

A 30-day extension is granted until June 9, 2022, and after that date the application may be returned pursuant to Title 30 Texas Administrative Code § 281.18. No further extensions will be granted associated with this request for information.

If you have any questions concerning the application, please contact Lillian E. Beerman, Ph.D. via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

A handwritten signature in cursive script that reads "J. Brooke McGregor".

Brooke McGregor, Manager
Water Rights Permitting and Availability Section
Water Availability Division

cc. Ms. Jessica Garate

Re: Kiteboard_Ranch_13828_TEAMS Mtg_RFI

Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Wed 5/11/2022 10:32 AM

To: Jessica Garate [REDACTED]; Trent Gay [REDACTED]

Cc: Curt Campbell [REDACTED]; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Brooke

McGregor <brooke.mcgregor@tceq.texas.gov>

I didn't realize an extension was requested. I will take a look at it.

RE: Kiteboard Ranch - WRPERM 13828

Curt Campbell <ccampbell@westwardenv.com>

Wed 5/11/2022 7:00 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Jessica Garate <[REDACTED]>

Good afternoon, Ms. Beerman,

I am e-mailing you to request an extension for the deadline to respond to RFI for Kiteboard Ranch (WRPERM 13828), which was Monday, May 9, 2022. I will need the extension to adequately prepare a water accounting plan to address evaporative losses from the reservoir that is the subject of this application. We are requesting a new deadline of June 9, 2022. Thank you in advance for your consideration.



Curt G. Campbell, PE, CFM, LEED AP ND
VP Engineering & Natural Resources

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

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Re: Kiteboard Ranch 13828 TEAMS Mtg RFI

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Tue 5/10/2022 6:12 PM

To: Jessica Garate <[REDACTED]>

Ms. Garate,

I was happy to see that Trent Gay and Kathy Alexander, Ph.D. provided you with a simple sample accounting plan.

I am the project manager assigned to Kiteboard Ranch's Application No. 13828. I was also the project manager for Kiteboard's previous submission, Application No. 13818.

If you have any questions about the accounting plan, you can ask me or contact Trent Gay directly. Please feel free anytime to contact me and I can find the appropriate person or the information you needed.

I did receive your inquiry regarding an extension for the Request for Information. I apologize for the delay in my response, but I wanted to make sure that you had the information you needed to respond to our request.

The procedure for requesting an extension is straightforward. Applicants can request an extension for up to 30 days after the original due date. For Kiteboard Ranch's application no. 13828, this date should no later than June 9, 2022. The request should include the name of the applicant, the number of the application, and the new deadline – month, day, year. The applicant or applicant contact may request via email. We used to require that the extension be written on letterhead; however, we now accept emails and the reference to Westward Environmental on your emails is adequate. The request for an extension may include a sentence stating why an extension is needed.

Curt Campbell, P.E. is the Applicant Contact for Kiteboard Ranch's Application No. 13828. The request for an extension should be signed by Mr. Campbell.

Once you have provided this information, I will request management's approval.

If you have any further questions or concerns, don't hesitate to contact me.

Respectfully,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>

Sent: Tuesday, May 10, 2022 4:51 PM

To: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Trent Gay <Trent.Gay@tceq.texas.gov>

Cc: Curt Campbell <[REDACTED]>; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Brooke McGregor <brooke.mcgregor@tceq.texas.gov>

Subject: RE: Kiteboard Ranch 13828 TEAMS Mtg RFI

Hello, Mr. Kozlowski.

I requested an extension on Friday, May 6, 2022. I sent an e mail to Lillian Beerman with the request which included the request for the account plan. I addressed it to Ms. Beerman because she e mailed the RFI so I figured I could direct the request to her. Is there a different method for requesting an extension? I apologize, the deadline was yesterday, May 9, 2022. Please advise! Thank you, I look forward to your response.



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

4 Shooting Club Road / PO Box 2205

Boerne, TX 78006

830.249.8284 Phone

830.249.0221 Fax

www.westwardenv.com



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From: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Sent: Tuesday, May 10, 2022 4:44 PM

To: Jessica Garate <[REDACTED]>; Trent Gay <Trent.Gay@tceq.texas.gov>

Cc: Curt Campbell <[REDACTED]>; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Brooke McGregor <brooke.mcgregor@tceq.texas.gov>

Subject: Re: Kiteboard Ranch 13828 TEAMS Mtg RFI

Ms. Garate, you must request an extension if you don't think you will be able to provide the requested information by the due date.

From: Jessica Garate [REDACTED]
Sent: Tuesday, May 10, 2022 4:43 PM
To: Trent Gay <Trent.Gay@tceq.texas.gov>
Cc: Curt Campbell [REDACTED]; Lillian Beerman <Lillian.Beerman@tceq.texas.gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Brooke McGregor <brooke.mcgregor@tceq.texas.gov>
Subject: RE: Kiteboard Ranch 13828 TEAMS Mtg RFI

Mr. Gay,

Thank you very much for providing the account plan. We will work on a similar plan for the Kiteboard Ranch Permit (WRPERM 13828). Is there an updated deadline to provide the response to RFI?



Jessica Garate, GIT
Staff Geologist

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T

Re: Kiteboard Ranch 13828 TEAMS Mtg RFI

Trent Gay <Trent.Gay@tceq.texas.gov>

Tue 5/10/2022 2:35 PM

To: [REDACTED]

Cc: [REDACTED]; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Brooke McGregor <brooke.mcgregor@tceq.texas.gov>

Ms. Garate,

Please find attached an example of an account plan. Let us know if you have any additional questions.

Thanks,

Trent Gay

Surface Water Availability Team Leader

Texas Commission on Environmental Quality

Water Availability Division

12100 Park 35 Circle, Bldg F, 3rd Floor MC 160

Austin, TX 78753

trent.gay@tceq.texas.gov

512.239



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**CADG ERWIN FARMS, LLC ACCOUNTING PLAN
FOR APPLICATION NO. 13619**

January 5, 2021

INTRODUCTION

This memorandum describes the accounting plan submitted for Application No. 13619. The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 8.7 acre-feet and a surface area of 2.99 acres.

The applicant will not be diverting any waters of the state and will provide supplemental water from private groundwater produced by the applicant to offset net evaporation.

The accounting plan assumes that storage in the reservoirs is constant. Change in storage is minimal and can be ignored. Thus, this accounting plan is premised on a fundamental mass balance equation of water inflows and outflows from the impoundment:

$$\text{Groundwater} = \text{Net Evaporation Losses}$$

The applicant has installed meters on the discharges of groundwater and will read those meters on a daily basis. Net evaporation losses will be based on daily values measured by the U.S. Army Corps of Engineers (USACE) at Lake Lewisville (<http://www.swf-wc.usace.army.mil/cgi-bin/rcshtml.pl?page=Hydrologic>). If evaporation data are not available, the accounting plan will use the mean evaporation for the local area for the period from 1954 through 2019, calculated on a monthly basis, as published by the Texas Water Development Board (TWDB).

ELEMENTS OF THE ACCOUNTING PLAN

The accounting plan has been created as an Excel spreadsheet. The spreadsheet includes cells in which the applicant will insert meter readings for groundwater discharges and pan evaporation and precipitation from Lake Lewisville. The spreadsheet will use the data entered in those cells to automatically calculate evaporated losses. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are 16 tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes water use, supplemental groundwater, and evaporative losses.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings
3. EVAP DATA Tab – default evaporation rates

4. TWDB PAN LAKE COEFF Tab – data from the TWDB for Monthly Pan Coefficients
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 411

ANNUAL TAB

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13619. All figures on the ANNUAL tab are populated from the monthly tabs or calculated in the ANNUAL tab, so the applicant will not enter any data into the ANNUAL tab. The exception is in cell B6, where the applicant enters the current year.

The ANNUAL tab contains columns (A through F) and 14 rows. The columns in the table are as follows:

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row.
<u>Column B</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet.
<u>Column C</u>	<u>Net Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet.
<u>Column D</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. Imported converted from gallons to acre-feet from the respective worksheet for the month.
<u>Column E</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. Imported from and converted from gallons to acre-feet from the respective worksheet for the month.
<u>Column F</u>	<u>Supplemental Groundwater Release (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. Imported from and converted from gallons to acre-feet from the respective worksheet for the month.

MONTHLY TABS

The accounting plan includes 12 monthly spreadsheets, labeled JAN through DEC. Each worksheet contains 13 columns (A through M), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily groundwater pump meter readings and Lake Lewisville precipitation and evaporation depths into the monthly worksheets. All other cells will be filled automatically based on those entries.

<u>Column A</u>	<u>Day</u> . Lists the day of the month and is shaded orange.
<u>Column B</u>	<u>Groundwater Volume</u> . Cells for the applicant to enter daily meter readings from the water well meter.
<u>Column C</u>	<u>Lake Lewisville Precipitation Rate (in)</u> . The daily precipitation values for Lake Lewisville, obtained from the USACE website at http://www.swf-wc.usace.army.mil/cgi-bin/rcshtml.pl?page=Hydrologic .
<u>Column D</u>	<u>Lake Lewisville Evaporation Rate (in)</u> . The daily pan evaporation values for Lake Lewisville, obtained from the USACE website at http://www.swf-wc.usace.army.mil/cgi-bin/rcshtml.pl?page=Hydrologic .
<u>Column E</u>	<u>Default Evaporation Rate (in)</u> . This column is used on days when Lake Lewisville evaporation data is not available. If the value in Column D is blank, then Column E displays the 75 th percentile daily pan evaporation value from the EVAP DATA Worksheet.
<u>Column F</u>	<u>Total Evaporation Rate (in)</u> . This final daily pan evaporation rate is based on either the values entered in Column D or the 75 th percentile values in Column E.
<u>Column G</u>	<u>Net Evaporation Rate (in)</u> . Calculates the final net evaporation rate (evaporation rate multiplied by pan factor less precipitation) in inches.
<u>Column H</u>	<u>Net Evaporation (ac-ft)</u> . Calculated Net Evaporation, obtained by converting the Net Evaporation Rate in Column G to feet and multiplying it by the total surface area of the lake in cell C6.
<u>Column I</u>	<u>Net Evaporation (gal)</u> . Same as Column H reported in gallons.
<u>Column J</u>	<u>Calculated Net Inflow (gal)</u> . The calculated net inflow is determined by subtracting the groundwater inflow to the lake (Column B) from the sum of the evaporative loss (Column I). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream.
<u>Column K</u>	<u>Depleted Net Inflow (gal)</u> . The depleted net inflow is the positive calculated net inflow from Column J. If the calculated net inflow is less than zero, then this value is equal to zero. The Depleted Net Inflow represents the amount needed to be made up through supplemental groundwater pumping.

Column L Supplemental Groundwater Release (gal). The total supplemental groundwater release is the sum of the depleted net inflow (Column L) reported biweekly in December, January, and February and weekly for the remainder of the year.

Column M Comments. This Column allows the applicant to enter any relevant notes and observations.

EVAP DATA TAB

The EVAP DATA worksheet contains default data that will be used when historical Lake Lewisville evaporation data are not available, as well as monthly pan factors used to translate the Lake Lewisville data to gross reservoir evaporation. The worksheet includes five columns, all of which have been populated with data. The applicant will not enter any data in the EVAP DATA worksheet.

Column A Month. Lists each month

Column B Days in Month. Lists the days in each month. End-user to modify as needed to accommodate for leap year.

Column C TWDB 75th Percentile Monthly Rate (in). Lists the 75th percentile evaporation rate for each month, expressed in inches. The data for this column was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board. (TWDB, Precipitation and Lake Evaporation Data, Quadrant 411, <https://www.twdb.texas.gov/surfacewater/conditions/evaporation/doc/pancoef.txt>)

Column D Daily Pan Rate (in). Expresses the evaporation rate as a daily rate from an evaporation pan, calculated by dividing the monthly rate in Column B by the number of days in the month and then dividing the result by the monthly pan factors. These daily rates will be used if Lake Lewisville data are not available.

Column E Pan Factor. The TWDB pan factors for this area.

TWDB PAN LAKE COEFF TAB

The TWDB PAN LAKE COEFF worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Monthly Pan Coefficients Used in ThEvap, <https://www.twdb.texas.gov/surfacewater/conditions/evaporation/doc/pancoef.txt>).

TWDB EVAP TAB

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 411 from 1954 to 2019 (TWDB, Precipitation and Lake Evaporation Data, Quadrant 411, <https://www.twdb.texas.gov/surfacewater/conditions/evaporation/index.asp>).

Row 75 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2019.

**Erwin Farms - Phase 3
Water Accounting Record
Annual**

Year	
-------------	--

Month	Groundwater Volume (ac-ft)	Net Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.62	0.62	0.62	0.62
February	0.00	0.56	0.56	0.56	0.56
March	0.00	0.93	0.93	0.93	0.93
April	0.00	1.20	1.20	1.20	1.20
May	0.00	1.24	1.24	1.24	1.24
June	0.00	1.50	1.50	1.50	1.50
July	0.00	2.17	2.17	2.17	2.17
August	0.00	1.86	1.86	1.86	1.86
September	0.00	1.50	1.50	1.50	1.50
October	0.00	1.24	1.24	1.24	1.24
November	0.00	0.90	0.90	0.90	0.90
December	0.00	0.62	0.62	0.62	0.62
Total	0.00	14.34	14.34	14.34	14.34

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Erwin Farms Phase 3																
2	Water Accounting Record																
3	anuary																
4																	
5																	
6	Lake Surface Area (acres) 2.99																
7	Pan Factor 0.7																
8																	
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.1	0.1	0.07	0.02	6517	6517	6517						
11	2				0.1	0.1	0.07	0.02	6517	6517	6517						
12	3				0.1	0.1	0.07	0.02	6517	6517	6517						
13	4				0.1	0.1	0.07	0.02	6517	6517	6517						
14	5				0.1	0.1	0.07	0.02	6517	6517	6517						
15	6				0.1	0.1	0.07	0.02	6517	6517	6517						
16	7				0.1	0.1	0.07	0.02	6517	6517	6517						
17	8				0.1	0.1	0.07	0.02	6517	6517	6517						
18	9				0.1	0.1	0.07	0.02	6517	6517	6517						
19	10				0.1	0.1	0.07	0.02	6517	6517	6517						
20	11				0.1	0.1	0.07	0.02	6517	6517	6517						
21	12				0.1	0.1	0.07	0.02	6517	6517	6517						
22	13				0.1	0.1	0.07	0.02	6517	6517	6517						
23	14				0.1	0.1	0.07	0.02	6517	6517	6517	91238					
24	15				0.1	0.1	0.07	0.02	6517	6517	6517						
25	16				0.1	0.1	0.07	0.02	6517	6517	6517						
26	17				0.1	0.1	0.07	0.02	6517	6517	6517						
27	18				0.1	0.1	0.07	0.02	6517	6517	6517						
28	19				0.1	0.1	0.07	0.02	6517	6517	6517						
29	20				0.1	0.1	0.07	0.02	6517	6517	6517						
30	21				0.1	0.1	0.07	0.02	6517	6517	6517						
31	22				0.1	0.1	0.07	0.02	6517	6517	6517						
32	23				0.1	0.1	0.07	0.02	6517	6517	6517						
33	24				0.1	0.1	0.07	0.02	6517	6517	6517						
34	25				0.1	0.1	0.07	0.02	6517	6517	6517						
35	26				0.1	0.1	0.07	0.02	6517	6517	6517						
36	27				0.1	0.1	0.07	0.02	6517	6517	6517						
37	28				0.1	0.1	0.07	0.02	6517	6517	6517	91238					
38	29				0.1	0.1	0.07	0.02	6517	6517	6517						
39	30				0.1	0.1	0.07	0.02	6517	6517	6517						
40	31				0.1	0.1	0.07	0.02	6517	6517	6517	19551					
41	Summed Data													20202	20202	20202	

Signed:
Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<div>Erwin Farms Phase 3</div> <div>Water Accounting Record</div> <div>February</div>												
2													
3													
4													
5													
6													
7													
8													
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	Total Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac-ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
10	1				0.14	0.14	0.10	0.02	6517	6517	6517		
11	2				0.14	0.14	0.10	0.02	6517	6517	6517		
12	3				0.14	0.14	0.10	0.02	6517	6517	6517		
13	4				0.14	0.14	0.10	0.02	6517	6517	6517		
14	5				0.14	0.14	0.10	0.02	6517	6517	6517		
15	6				0.14	0.14	0.10	0.02	6517	6517	6517		
16	7				0.14	0.14	0.10	0.02	6517	6517	6517		
17	8				0.14	0.14	0.10	0.02	6517	6517	6517		
18	9				0.14	0.14	0.10	0.02	6517	6517	6517		
19	10				0.14	0.14	0.10	0.02	6517	6517	6517		
20	11				0.14	0.14	0.10	0.02	6517	6517	6517		
21	12				0.14	0.14	0.10	0.02	6517	6517	6517		
22	13				0.14	0.14	0.10	0.02	6517	6517	6517		
23	14				0.14	0.14	0.10	0.02	6517	6517	6517	91238	
24	15				0.14	0.14	0.10	0.02	6517	6517	6517		
25	16				0.14	0.14	0.10	0.02	6517	6517	6517		
26	17				0.14	0.14	0.10	0.02	6517	6517	6517		
27	18				0.14	0.14	0.10	0.02	6517	6517	6517		
28	19				0.14	0.14	0.10	0.02	6517	6517	6517		
29	20				0.14	0.14	0.10	0.02	6517	6517	6517		
30	21				0.14	0.14	0.10	0.02	6517	6517	6517		
31	22				0.14	0.14	0.10	0.02	6517	6517	6517		
32	23				0.14	0.14	0.10	0.02	6517	6517	6517		
33	24				0.14	0.14	0.10	0.02	6517	6517	6517		
34	25				0.14	0.14	0.10	0.02	6517	6517	6517		
35	26				0.14	0.14	0.10	0.02	6517	6517	6517		
36	27				0.14	0.14	0.10	0.02	6517	6517	6517		
37	28				0.14	0.14	0.10	0.02	6517	6517	6517	91238	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Erwin Farms Phase 3																
	Water Accounting Record																
	March																
	Lake Surface Area (acres) 2.99																
	Pan Factor 0.70																
	Signed:																
	Date:																
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.19	0.19	0.13	0.03	9776	9776	9776						
11	2				0.19	0.19	0.13	0.03	9776	9776	9776						
12	3				0.19	0.19	0.13	0.03	9776	9776	9776						
13	4				0.19	0.19	0.13	0.03	9776	9776	9776						
14	5				0.19	0.19	0.13	0.03	9776	9776	9776						
15	6				0.19	0.19	0.13	0.03	9776	9776	9776						
16	7				0.19	0.19	0.13	0.03	9776	9776	9776	68.32					
17	8				0.19	0.19	0.13	0.03	9776	9776	9776						
18	9				0.19	0.19	0.13	0.03	9776	9776	9776						
19	10				0.19	0.19	0.13	0.03	9776	9776	9776						
20	11				0.19	0.19	0.13	0.03	9776	9776	9776						
21	12				0.19	0.19	0.13	0.03	9776	9776	9776						
22	13				0.19	0.19	0.13	0.03	9776	9776	9776						
23	14				0.19	0.19	0.13	0.03	9776	9776	9776	68.32					
24	15				0.19	0.19	0.13	0.03	9776	9776	9776						
25	16				0.19	0.19	0.13	0.03	9776	9776	9776						
26	17				0.19	0.19	0.13	0.03	9776	9776	9776						
27	18				0.19	0.19	0.13	0.03	9776	9776	9776						
28	19				0.19	0.19	0.13	0.03	9776	9776	9776						
29	20				0.19	0.19	0.13	0.03	9776	9776	9776	68.32					
30	21				0.19	0.19	0.13	0.03	9776	9776	9776						
31	22				0.19	0.19	0.13	0.03	9776	9776	9776						
32	23				0.19	0.19	0.13	0.03	9776	9776	9776						
33	24				0.19	0.19	0.13	0.03	9776	9776	9776						
34	25				0.19	0.19	0.13	0.03	9776	9776	9776						
35	26				0.19	0.19	0.13	0.03	9776	9776	9776						
36	27				0.19	0.19	0.13	0.03	9776	9776	9776						
37	28				0.19	0.19	0.13	0.03	9776	9776	9776	68.32					
38	29				0.19	0.19	0.13	0.03	9776	9776	9776						
39	30				0.19	0.19	0.13	0.03	9776	9776	9776						
40	31				0.19	0.19	0.13	0.03	9776	9776	9776	29328					
41	Summed Data												303056	303056	303056	303056	

Signed:
Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Erwin Farms Phase 3																
2	Water Accounting Record																
3	April																
4																	
5	Lake Surface Area (acres) 2.99																
6	Pan Factor 0.68																
7																	
8																	
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.25	0.25	0.17	0.0	1303	1303	1303						
11	2				0.25	0.25	0.17	0.0	1303	1303	1303						
12	3				0.25	0.25	0.17	0.0	1303	1303	1303						
13	4				0.25	0.25	0.17	0.0	1303	1303	1303						
14	5				0.25	0.25	0.17	0.0	1303	1303	1303						
15	6				0.25	0.25	0.17	0.0	1303	1303	1303						
16	7				0.25	0.25	0.17	0.0	1303	1303	1303	91238					
17	8				0.25	0.25	0.17	0.0	1303	1303	1303						
18	9				0.25	0.25	0.17	0.0	1303	1303	1303						
19	10				0.25	0.25	0.17	0.0	1303	1303	1303						
20	11				0.25	0.25	0.17	0.0	1303	1303	1303						
21	12				0.25	0.25	0.17	0.0	1303	1303	1303						
22	13				0.25	0.25	0.17	0.0	1303	1303	1303						
23	14				0.25	0.25	0.17	0.0	1303	1303	1303						
24	15				0.25	0.25	0.17	0.0	1303	1303	1303	91238					
25	16				0.25	0.25	0.17	0.0	1303	1303	1303						
26	17				0.25	0.25	0.17	0.0	1303	1303	1303						
27	18				0.25	0.25	0.17	0.0	1303	1303	1303						
28	19				0.25	0.25	0.17	0.0	1303	1303	1303						
29	20				0.25	0.25	0.17	0.0	1303	1303	1303						
30	21				0.25	0.25	0.17	0.0	1303	1303	1303	91238					
31	22				0.25	0.25	0.17	0.0	1303	1303	1303						
32	23				0.25	0.25	0.17	0.0	1303	1303	1303						
33	24				0.25	0.25	0.17	0.0	1303	1303	1303						
34	25				0.25	0.25	0.17	0.0	1303	1303	1303						
35	26				0.25	0.25	0.17	0.0	1303	1303	1303						
36	27				0.25	0.25	0.17	0.0	1303	1303	1303						
37	28				0.25	0.25	0.17	0.0	1303	1303	1303	91238					
38	29				0.25	0.25	0.17	0.0	1303	1303	1303						
39	30				0.25	0.25	0.17	0.0	1303	1303	1303	26068					
40	Summed Data												381020	381020	381020		

Signed: _____
Date: _____

Signed:

Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Erwin Farms Phase 3																
	Water Accounting Record																
	May																

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Erwin Farms Phase 3																
2	Water Accounting Record																
3	une																
4																	
5																	
6	Lake Surface Area (acres) 2.99																
7	Pan Factor 0.68																
8																	
9																	
10	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
11	1				0.33	0.33	0.22	0.05	16293	16293	16293						
12	2				0.33	0.33	0.22	0.05	16293	16293	16293						
13	3				0.33	0.33	0.22	0.05	16293	16293	16293						
14	4				0.33	0.33	0.22	0.05	16293	16293	16293						
15	5				0.33	0.33	0.22	0.05	16293	16293	16293						
16	6				0.33	0.33	0.22	0.05	16293	16293	16293						
17	7				0.33	0.33	0.22	0.05	16293	16293	16293	11.051					
18	8				0.33	0.33	0.22	0.05	16293	16293	16293						
19	9				0.33	0.33	0.22	0.05	16293	16293	16293						
20	10				0.33	0.33	0.22	0.05	16293	16293	16293						
21	11				0.33	0.33	0.22	0.05	16293	16293	16293						
22	12				0.33	0.33	0.22	0.05	16293	16293	16293						
23	13				0.33	0.33	0.22	0.05	16293	16293	16293						
24	14				0.33	0.33	0.22	0.05	16293	16293	16293	11.051					
25	15				0.33	0.33	0.22	0.05	16293	16293	16293						
26	16				0.33	0.33	0.22	0.05	16293	16293	16293						
27	17				0.33	0.33	0.22	0.05	16293	16293	16293						
28	18				0.33	0.33	0.22	0.05	16293	16293	16293						
29	19				0.33	0.33	0.22	0.05	16293	16293	16293						
30	20				0.33	0.33	0.22	0.05	16293	16293	16293						
31	21				0.33	0.33	0.22	0.05	16293	16293	16293	11.051					
32	22				0.33	0.33	0.22	0.05	16293	16293	16293						
33	23				0.33	0.33	0.22	0.05	16293	16293	16293						
34	24				0.33	0.33	0.22	0.05	16293	16293	16293						
35	25				0.33	0.33	0.22	0.05	16293	16293	16293						
36	26				0.33	0.33	0.22	0.05	16293	16293	16293						
37	27				0.33	0.33	0.22	0.05	16293	16293	16293						
38	28				0.33	0.33	0.22	0.05	16293	16293	16293	11.051					
39	29				0.33	0.33	0.22	0.05	16293	16293	16293						
40	30				0.33	0.33	0.22	0.05	16293	16293	16293	32586					
41	Summed Data												488790	488790	488790		

Signed:

Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Erwin Farms Phase 3																
	Water Accounting Record																
	uly																
	Lake Surface Area (acres) 2.99																
	Pan Factor 0.70																
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.38	0.38	0.27	0.07	22810	22810	22810						
11	2				0.38	0.38	0.27	0.07	22810	22810	22810						
12	3				0.38	0.38	0.27	0.07	22810	22810	22810						
13	4				0.38	0.38	0.27	0.07	22810	22810	22810						
14	5				0.38	0.38	0.27	0.07	22810	22810	22810						
15	6				0.38	0.38	0.27	0.07	22810	22810	22810						
16	7				0.38	0.38	0.27	0.07	22810	22810	22810	159670					
17	8				0.38	0.38	0.27	0.07	22810	22810	22810						
18	9				0.38	0.38	0.27	0.07	22810	22810	22810						
19	10				0.38	0.38	0.27	0.07	22810	22810	22810						
20	11				0.38	0.38	0.27	0.07	22810	22810	22810						
21	12				0.38	0.38	0.27	0.07	22810	22810	22810						
22	13				0.38	0.38	0.27	0.07	22810	22810	22810						
23	14				0.38	0.38	0.27	0.07	22810	22810	22810	159670					
24	15				0.38	0.38	0.27	0.07	22810	22810	22810						
25	16				0.38	0.38	0.27	0.07	22810	22810	22810						
26	17				0.38	0.38	0.27	0.07	22810	22810	22810						
27	18				0.38	0.38	0.27	0.07	22810	22810	22810						
28	19				0.38	0.38	0.27	0.07	22810	22810	22810						
29	20				0.38	0.38	0.27	0.07	22810	22810	22810						
30	21				0.38	0.38	0.27	0.07	22810	22810	22810	159670					
31	22				0.38	0.38	0.27	0.07	22810	22810	22810						
32	23				0.38	0.38	0.27	0.07	22810	22810	22810						
33	24				0.38	0.38	0.27	0.07	22810	22810	22810						
34	25				0.38	0.38	0.27	0.07	22810	22810	22810						
35	26				0.38	0.38	0.27	0.07	22810	22810	22810						
36	27				0.38	0.38	0.27	0.07	22810	22810	22810						
37	28				0.38	0.38	0.27	0.07	22810	22810	22810	159670					
38	29				0.38	0.38	0.27	0.07	22810	22810	22810						
39	30				0.38	0.38	0.27	0.07	22810	22810	22810						
40	31				0.38	0.38	0.27	0.07	22810	22810	22810	68.30					
41	Summed Data													707110	707110	707110	

Signed:
Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Erwin Farms Phase 3																
	Water Accounting Record																
	August																
	Lake Surface Area (acres) 2.99																
	Pan Factor 0.71																
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.35	0.35	0.25	0.06	19551	19551	19551						
11	2				0.35	0.35	0.25	0.06	19551	19551	19551						
12	3				0.35	0.35	0.25	0.06	19551	19551	19551						
13	4				0.35	0.35	0.25	0.06	19551	19551	19551						
14	5				0.35	0.35	0.25	0.06	19551	19551	19551						
15	6				0.35	0.35	0.25	0.06	19551	19551	19551						
16	7				0.35	0.35	0.25	0.06	19551	19551	19551	136857					
17	8				0.35	0.35	0.25	0.06	19551	19551	19551						
18	9				0.35	0.35	0.25	0.06	19551	19551	19551						
19	10				0.35	0.35	0.25	0.06	19551	19551	19551						
20	11				0.35	0.35	0.25	0.06	19551	19551	19551						
21	12				0.35	0.35	0.25	0.06	19551	19551	19551						
22	13				0.35	0.35	0.25	0.06	19551	19551	19551						
23	14				0.35	0.35	0.25	0.06	19551	19551	19551	136857					
24	15				0.35	0.35	0.25	0.06	19551	19551	19551						
25	16				0.35	0.35	0.25	0.06	19551	19551	19551						
26	17				0.35	0.35	0.25	0.06	19551	19551	19551						
27	18				0.35	0.35	0.25	0.06	19551	19551	19551						
28	19				0.35	0.35	0.25	0.06	19551	19551	19551						
29	20				0.35	0.35	0.25	0.06	19551	19551	19551						
30	21				0.35	0.35	0.25	0.06	19551	19551	19551	136857					
31	22				0.35	0.35	0.25	0.06	19551	19551	19551						
32	23				0.35	0.35	0.25	0.06	19551	19551	19551						
33	24				0.35	0.35	0.25	0.06	19551	19551	19551						
34	25				0.35	0.35	0.25	0.06	19551	19551	19551						
35	26				0.35	0.35	0.25	0.06	19551	19551	19551						
36	27				0.35	0.35	0.25	0.06	19551	19551	19551						
37	28				0.35	0.35	0.25	0.06	19551	19551	19551	136857					
38	29				0.35	0.35	0.25	0.06	19551	19551	19551						
39	30				0.35	0.35	0.25	0.06	19551	19551	19551						
40	31				0.35	0.35	0.25	0.06	19551	19551	19551	58653					
41	Summed Data													606081	606081	606081	

Signed:
Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Erwin Farms - Phase 3																
2	Water Accounting Record																
3	September																
4																	
5																	
6	Lake Surface Area (acres) 2.99														Signed:		
7	Pan Factor 0.7														Date:		
8																	
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	total Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
11	2				0.27	0.27	0.2	0.05	16293	16293	16293						
12	3				0.27	0.27	0.2	0.05	16293	16293	16293						
13					0.27	0.27	0.2	0.05	16293	16293	16293						
14	5		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
15	6		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
16	7		0.27		0.27	0.27	0.2	0.05	16293	16293	16293	11 051					
17	8		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
18	9		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
19	10				0.27	0.27	0.2	0.05	16293	16293	16293						
20	11				0.27	0.27	0.2	0.05	16293	16293	16293						
21	12		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
22	13		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
23	1		0.27		0.27	0.27	0.2	0.05	16293	16293	16293	11 051					
24	2		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
25	16		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
26	17		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
27	18		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
28	19		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
29	20		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
30	21		0.27		0.27	0.27	0.2	0.05	16293	16293	16293	11 051					
31	22		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
32	23		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
33	2		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
34	25		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
35	26		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
36	27		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
37	28		0.27		0.27	0.27	0.2	0.05	16293	16293	16293	11 051					
38	29		0.27		0.27	0.27	0.2	0.05	16293	16293	16293						
39	30		0.27		0.27	0.27	0.2	0.05	16293	16293	16293	32586					
40									16293	16293	16293						
										Summed Data	488730	488730	488730				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Erwin Farms Phase 3																
2	Water Accounting Record																
3	October																
4																	
5																	
6	Lake Surface Area (acres) 2.99														Signed:		
7	Pan Factor 0.78														Date:		
8																	
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	total Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.2	0.2	0.16	0.0	1303	1303	1303						
11	2				0.2	0.2	0.16	0.0	1303	1303	1303						
12	3				0.2	0.2	0.16	0.0	1303	1303	1303						
13	4				0.2	0.2	0.16	0.0	1303	1303	1303						
14	5				0.2	0.2	0.16	0.0	1303	1303	1303						
15	6				0.2	0.2	0.16	0.0	1303	1303	1303						
16	7				0.2	0.2	0.16	0.0	1303	1303	1303	91238					
17	8				0.2	0.2	0.16	0.0	1303	1303	1303						
18	9				0.2	0.2	0.16	0.0	1303	1303	1303						
19	10				0.2	0.2	0.16	0.0	1303	1303	1303						
20	11				0.2	0.2	0.16	0.0	1303	1303	1303						
21	12				0.2	0.2	0.16	0.0	1303	1303	1303						
22	13				0.2	0.2	0.16	0.0	1303	1303	1303						
23	14				0.2	0.2	0.16	0.0	1303	1303	1303	91238					
24	15				0.2	0.2	0.16	0.0	1303	1303	1303						
25	16				0.2	0.2	0.16	0.0	1303	1303	1303						
26	17				0.2	0.2	0.16	0.0	1303	1303	1303						
27	18				0.2	0.2	0.16	0.0	1303	1303	1303						
28	19				0.2	0.2	0.16	0.0	1303	1303	1303						
29	20				0.2	0.2	0.16	0.0	1303	1303	1303						
30	21				0.2	0.2	0.16	0.0	1303	1303	1303	91238					
31	22				0.2	0.2	0.16	0.0	1303	1303	1303						
32	23				0.2	0.2	0.16	0.0	1303	1303	1303						
33	24				0.2	0.2	0.16	0.0	1303	1303	1303						
34	25				0.2	0.2	0.16	0.0	1303	1303	1303						
35	26				0.2	0.2	0.16	0.0	1303	1303	1303						
36	27				0.2	0.2	0.16	0.0	1303	1303	1303						
37	28				0.2	0.2	0.16	0.0	1303	1303	1303	91238					
38	29				0.2	0.2	0.16	0.0	1303	1303	1303						
39	30				0.2	0.2	0.16	0.0	1303	1303	1303						
40	31				0.2	0.2	0.16	0.0	1303	1303	1303	39102					
41	Summed Data												404054	404054	404054		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Erwin Farms Phase 3																
2	Water Accounting Record																
3	November																
4																	
5	Lake Surface Area (acres) 2.99																
6	Pan Factor 0.81																
7																	
8																	
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.1	0.1	0.11	0.03	9776	9776	9776						
11	2				0.1	0.1	0.11	0.03	9776	9776	9776						
12	3				0.1	0.1	0.11	0.03	9776	9776	9776						
13	4				0.1	0.1	0.11	0.03	9776	9776	9776						
14	5				0.1	0.1	0.11	0.03	9776	9776	9776						
15	6				0.1	0.1	0.11	0.03	9776	9776	9776						
16	7				0.1	0.1	0.11	0.03	9776	9776	9776	68 32					
17	8				0.1	0.1	0.11	0.03	9776	9776	9776						
18	9				0.1	0.1	0.11	0.03	9776	9776	9776						
19	10				0.1	0.1	0.11	0.03	9776	9776	9776						
20	11				0.1	0.1	0.11	0.03	9776	9776	9776						
21	12				0.1	0.1	0.11	0.03	9776	9776	9776						
22	13				0.1	0.1	0.11	0.03	9776	9776	9776						
23	14				0.1	0.1	0.11	0.03	9776	9776	9776	68 32					
24	15				0.1	0.1	0.11	0.03	9776	9776	9776						
25	16				0.1	0.1	0.11	0.03	9776	9776	9776						
26	17				0.1	0.1	0.11	0.03	9776	9776	9776						
27	18				0.1	0.1	0.11	0.03	9776	9776	9776						
28	19				0.1	0.1	0.11	0.03	9776	9776	9776						
29	20				0.1	0.1	0.11	0.03	9776	9776	9776						
30	21				0.1	0.1	0.11	0.03	9776	9776	9776	68 32					
31	22				0.1	0.1	0.11	0.03	9776	9776	9776						
32	23				0.1	0.1	0.11	0.03	9776	9776	9776						
33	24				0.1	0.1	0.11	0.03	9776	9776	9776						
34	25				0.1	0.1	0.11	0.03	9776	9776	9776						
35	26				0.1	0.1	0.11	0.03	9776	9776	9776						
36	27				0.1	0.1	0.11	0.03	9776	9776	9776						
37	28				0.1	0.1	0.11	0.03	9776	9776	9776	68 32					
38	29				0.1	0.1	0.11	0.03	9776	9776	9776						
39	30				0.1	0.1	0.11	0.03	9776	9776	9776	19652					
40	Summed Data												293280	293280	293280		

Signed:
Date:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Erwin Farms Phase 3																
	Water Accounting Record																
	December																
	Lake Surface Area (acres) 2.99																
	Pan Factor 0.78																
9	Day	Groundwater Volume (gal)	Lake Lewisville Precipitation (in)	Lake Lewisville Evaporation Rate (in)	Default Evaporation Rate (in)	otal Evaporation Rate (in)	Net Evaporation Rate (in)	Net Evaporation (ac ft)	Net Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments				
10	1				0.11	0.11	0.09	0.02	6517	6517	6517						
11	2				0.11	0.11	0.09	0.02	6517	6517	6517						
12	3				0.11	0.11	0.09	0.02	6517	6517	6517						
13	4				0.11	0.11	0.09	0.02	6517	6517	6517						
14	5				0.11	0.11	0.09	0.02	6517	6517	6517						
15	6				0.11	0.11	0.09	0.02	6517	6517	6517						
16	7				0.11	0.11	0.09	0.02	6517	6517	6517						
17	8				0.11	0.11	0.09	0.02	6517	6517	6517						
18	9				0.11	0.11	0.09	0.02	6517	6517	6517						
19	10				0.11	0.11	0.09	0.02	6517	6517	6517						
20	11				0.11	0.11	0.09	0.02	6517	6517	6517						
21	12				0.11	0.11	0.09	0.02	6517	6517	6517						
22	13				0.11	0.11	0.09	0.02	6517	6517	6517						
23	1				0.11	0.11	0.09	0.02	6517	6517	6517	91238					
24	15				0.11	0.11	0.09	0.02	6517	6517	6517						
25	16				0.11	0.11	0.09	0.02	6517	6517	6517						
26	17				0.11	0.11	0.09	0.02	6517	6517	6517						
27	18				0.11	0.11	0.09	0.02	6517	6517	6517						
28	19				0.11	0.11	0.09	0.02	6517	6517	6517						
29	20				0.11	0.11	0.09	0.02	6517	6517	6517						
30	21				0.11	0.11	0.09	0.02	6517	6517	6517						
31	22				0.11	0.11	0.09	0.02	6517	6517	6517						
32	23				0.11	0.11	0.09	0.02	6517	6517	6517						
33	2				0.11	0.11	0.09	0.02	6517	6517	6517						
34	25				0.11	0.11	0.09	0.02	6517	6517	6517						
35	26				0.11	0.11	0.09	0.02	6517	6517	6517						
36	27				0.11	0.11	0.09	0.02	6517	6517	6517						
37	28				0.11	0.11	0.09	0.02	6517	6517	6517	91238					
38	29				0.11	0.11	0.09	0.02	6517	6517	6517						
39	30				0.11	0.11	0.09	0.02	6517	6517	6517						
40	31				0.11	0.11	0.09	0.02	6517	6517	6517	19551					
41	Summed Data													202027	202027	202027	

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.34	0.10	0.74
February	28	2.80	0.14	0.71
March	31	4.23	0.19	0.70
April	30	5.06	0.25	0.68
May	31	5.14	0.27	0.61
June	30	6.82	0.33	0.68
July	31	8.16	0.38	0.70
August	31	7.63	0.35	0.71
September	30	6.02	0.27	0.74
October	31	4.74	0.20	0.78
November	30	3.46	0.14	0.81
December	31	2.72	0.11	0.78

TWDB Link

<https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board
Monthly Pan Coefficients Used in ThEvap

Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72
509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74
512	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75
513	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76
514	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
611	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74
612	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72

709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73
712	0.74	0.72	0.72	0.71	0.66	0.71	0.72	0.72	0.74
713	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75
714	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72
811	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75
814	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
908	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
1008	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71
1009	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72
1010	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72
1011	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73
1012	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74

1014	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1101	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71
1103	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
1106	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
1107	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
1108	0.71	0.69	0.69	0.69	0.65	0.69	0.69	0.69	0.71
1109	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72
1110	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72
1111	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73
1112	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1113	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1114	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1201	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
1202	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71
1203	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
1204	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69
1205	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
1206	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7
1207	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71
1208	0.71	0.69	0.69	0.69	0.65	0.69	0.69	0.69	0.71
1209	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72
1210	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72
1211	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73
1212	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1213	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74
1214	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74

Oct	Nov	Dec	Ann
0.77	0.8	0.77	0.7
0.78	0.81	0.78	0.71
0.79	0.82	0.79	0.72
0.79	0.81	0.79	0.73
0.8	0.82	0.8	0.74
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.75	0.78	0.75	0.68
0.77	0.81	0.77	0.69
0.77	0.81	0.77	0.69
0.77	0.8	0.77	0.7
0.77	0.8	0.77	0.7
0.78	0.81	0.78	0.71
0.79	0.82	0.79	0.72
0.79	0.81	0.79	0.73
0.8	0.82	0.8	0.74
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.74	0.76	0.74	0.68
0.75	0.77	0.75	0.69
0.75	0.77	0.75	0.69
0.77	0.8	0.77	0.7
0.77	0.8	0.77	0.7
0.77	0.79	0.77	0.71
0.79	0.82	0.79	0.72
0.78	0.79	0.78	0.73
0.79	0.8	0.79	0.74
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.73	0.75	0.73	0.67
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.75	0.77	0.75	0.69
0.75	0.77	0.75	0.69

0.77	0.8	0.77	0.7
0.77	0.8	0.77	0.7
0.76	0.77	0.76	0.71
0.77	0.78	0.77	0.72
0.78	0.79	0.78	0.73
0.79	0.8	0.79	0.74
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.72	0.73	0.72	0.67
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.75	0.77	0.75	0.69
0.74	0.75	0.74	0.69
0.75	0.76	0.75	0.7
0.75	0.76	0.75	0.7
0.76	0.77	0.76	0.71
0.76	0.76	0.76	0.72
0.77	0.77	0.77	0.73
0.79	0.8	0.79	0.74
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.72	0.73	0.72	0.67
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.74	0.76	0.74	0.68
0.74	0.75	0.74	0.69
0.75	0.76	0.75	0.7
0.75	0.76	0.75	0.7
0.76	0.77	0.76	0.71
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.72	0.73	0.72	0.67
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.74	0.76	0.74	0.68
0.74	0.75	0.74	0.69
0.75	0.76	0.75	0.7
0.74	0.74	0.74	0.7
0.76	0.77	0.76	0.71
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72

0.76	0.76	0.76	0.72
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.72	0.73	0.72	0.67
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.74	0.76	0.74	0.68
0.73	0.73	0.73	0.69
0.74	0.74	0.74	0.7
0.74	0.74	0.74	0.7
0.76	0.77	0.76	0.71
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72
0.74	0.76	0.74	0.68
0.74	0.76	0.74	0.68
0.72	0.73	0.72	0.67
0.72	0.73	0.72	0.67
0.73	0.75	0.73	0.67
0.73	0.75	0.73	0.67
0.74	0.76	0.74	0.68
0.73	0.73	0.73	0.69
0.74	0.74	0.74	0.7
0.74	0.74	0.74	0.7
0.76	0.77	0.76	0.71
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72
0.76	0.76	0.76	0.72

EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Developm

Monthly lake surface evaporation in inches, ai

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN
411	1954	1.23	4.22	4.94	5.55	4.06	6.96
411	1955	1.74	1.84	4.02	4.47	5.18	6.97
411	1956	2.08	2.20	4.85	5.78	6.13	8.44
411	1957	1.85	1.79	2.73	2.78	3.20	6.03
411	1958	1.40	1.56	2.37	3.49	4.18	6.56
411	1959	1.31	2.06	4.78	4.66	4.97	5.64
411	1960	1.42	1.93	2.86	4.33	5.13	6.79
411	1961	1.34	1.79	3.92	4.92	4.72	6.09
411	1962	1.61	2.61	3.72	4.00	6.09	5.03
411	1963	1.62	2.02	5.03	4.84	4.82	6.69
411	1964	1.91	2.14	3.92	4.61	4.75	6.81
411	1965	2.14	1.74	2.96	5.38	4.20	5.58
411	1966	1.48	1.48	4.70	4.47	4.32	5.81
411	1967	2.78	3.03	5.65	3.87	4.80	6.46
411	1968	1.11	1.80	3.45	4.12	4.10	5.70
411	1969	2.02	2.18	3.18	4.28	3.92	7.22
411	1970	0.92	2.64	2.76	3.90	4.95	5.46
411	1971	2.23	2.67	5.16	5.79	5.15	7.55
411	1972	1.72	2.80	4.35	5.48	5.19	7.13
411	1973	1.25	1.90	4.23	3.48	5.14	5.23
411	1974	1.53	3.65	4.56	5.84	5.61	6.73
411	1975	2.23	2.03	3.16	4.54	3.72	6.12
411	1976	3.17	3.83	3.68	4.15	3.98	5.68
411	1977	1.43	2.80	4.67	4.98	5.15	7.09
411	1978	1.40	1.42	3.35	5.30	5.02	7.05
411	1979	2.29	1.43	3.69	4.01	4.98	6.80
411	1980	2.16	2.77	4.05	5.10	4.74	8.25
411	1981	2.06	2.00	3.97	4.83	4.37	6.17
411	1982	2.40	1.92	3.44	3.99	3.97	5.23
411	1983	1.95	1.71	3.46	4.13	4.33	5.27
411	1984	1.59	3.02	3.51	4.90	5.36	6.62
411	1985	1.50	1.25	3.62	4.67	4.86	6.82
411	1986	2.81	2.45	4.81	4.02	3.94	5.76
411	1987	2.35	2.25	2.94	5.37	4.19	5.86
411	1988	2.14	2.32	3.50	5.10	5.79	7.42
411	1989	2.24	2.36	3.82	5.23	5.07	5.13
411	1990	2.95	2.46	2.97	3.61	4.36	7.06
411	1991	1.94	2.34	4.36	3.88	4.59	6.36
411	1992	2.37	2.26	4.06	4.15	3.90	5.24
411	1993	1.68	1.89	3.23	4.33	4.45	5.76
411	1994	1.89	1.62	3.96	4.65	3.61	6.00
411	1995	1.94	2.45	2.50	4.07	3.91	5.62
411	1996	2.77	5.29	4.06	5.42	5.94	6.34
411	1997	2.44	2.11	3.70	4.33	4.63	5.62
411	1998	1.40	1.79	3.00	5.26	5.26	7.94
411	1999	1.91	2.31	3.81	4.57	4.69	6.37
411	2000	3.09	3.78	3.39	3.84	4.48	4.77
411	2001	2.14	1.92	2.76	3.75	4.40	5.89

411	2002	2.10	2.92	3.20	3.99	4.06	5.83
411	2003	2.03	2.14	3.41	5.08	4.30	5.20
411	2004	2.10	2.14	4.00	4.00	4.57	4.50
411	2005	2.11	2.30	3.90	4.49	4.28	6.42
411	2006	4.30	2.98	4.47	4.89	5.45	6.64
411	2007	2.78	2.69	3.93	3.69	3.83	5.05
411	2008	2.47	3.03	4.01	4.66	4.77	6.76
411	2009	2.31	3.34	4.40	4.72	3.62	6.18
411	2010	2.32	2.88	3.88	4.64	4.98	6.38
411	2011	1.84	2.41	4.23	6.12	5.09	7.10
411	2012	2.42	2.75	4.10	3.92	5.83	6.41
411	2013	2.52	3.00	4.35	4.66	4.72	7.36
411	2014	1.84	2.43	2.07	5.33	5.84	6.00
411	2015	1.64	2.82	2.92	6.32	5.58	8.95
411	2016	2.12	3.32	4.03	4.55	4.67	6.72
411	2017	2.75	3.75	4.32	4.55	4.76	5.39
411	2018	2.39	1.82	3.90	3.98	5.60	7.17
411	2019	2.12	2.05	3.32	4.64	4.43	5.52

75th Percentile: 2.34 2.80 4.23 5.06 5.14 6.82

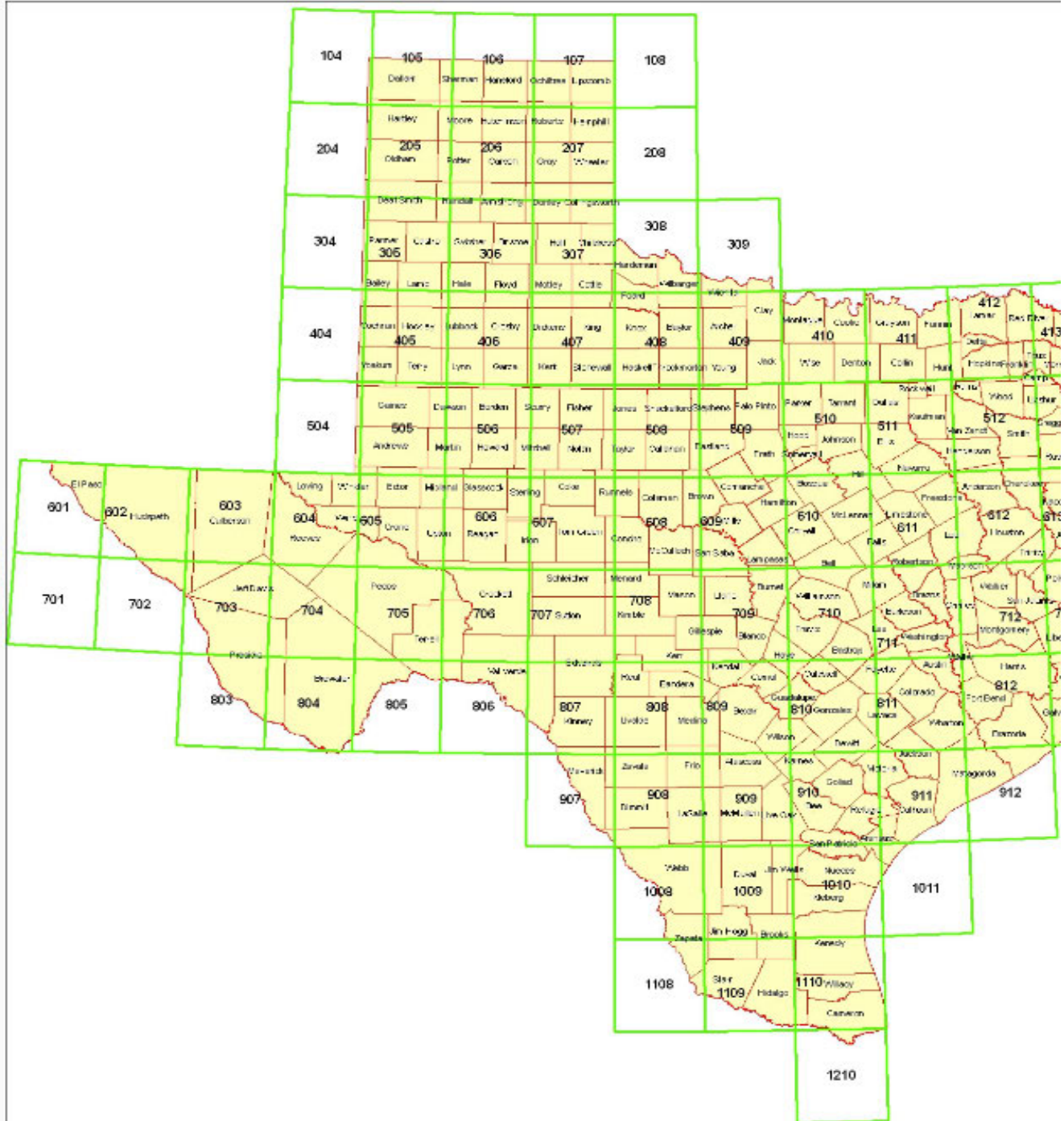
ent Board

nnual total evaporation in inches

JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
9.25	10.61	7.37	4.25	2.99	2.44	63.87
8.09	7.28	6.47	6.00	4.32	2.42	58.80
9.43	11.14	8.82	5.43	3.36	2.63	70.29
8.17	7.21	5.42	3.63	1.76	2.31	46.88
8.50	6.81	4.54	3.57	3.17	1.69	47.84
5.84	6.56	5.63	4.25	2.14	2.02	49.86
6.50	6.26	5.10	3.48	2.60	1.32	47.72
6.27	6.50	5.57	3.96	2.47	1.56	49.11
6.30	6.91	4.67	4.17	2.31	1.47	48.89
6.69	7.69	5.39	5.99	3.47	1.70	55.95
9.36	7.83	4.17	4.45	2.55	2.25	54.75
8.18	7.89	6.87	4.14	2.46	2.00	53.54
7.55	5.78	4.18	4.55	3.55	1.77	49.64
6.51	7.74	3.72	5.25	2.54	1.81	54.16
6.21	7.16	4.98	4.36	3.08	2.43	48.50
8.16	6.48	5.17	4.26	2.99	2.01	51.87
7.50	7.31	4.92	3.49	3.41	2.74	50.00
8.15	5.19	5.40	3.71	3.24	1.57	55.81
8.45	5.80	5.53	4.60	2.36	1.63	55.04
6.49	7.02	4.41	3.49	3.01	2.70	48.35
8.17	6.19	3.22	3.89	2.75	1.41	53.55
6.53	6.58	5.00	5.08	3.96	2.20	51.15
6.12	6.73	5.39	3.75	2.40	2.74	51.62
8.58	6.42	6.03	4.74	3.27	3.74	58.90
9.60	7.83	5.52	4.71	2.54	2.52	56.26
6.83	6.52	5.43	5.83	3.18	2.17	53.16
10.47	9.92	7.43	5.21	2.82	2.12	65.04
7.77	7.08	5.54	3.97	3.12	2.72	53.60
6.79	7.35	5.81	4.27	2.81	1.67	49.65
7.10	6.69	6.29	4.42	3.35	1.76	50.46
7.57	7.55	6.85	3.71	3.33	1.56	55.57
7.32	8.48	6.72	3.82	2.75	1.61	53.42
8.92	7.53	5.11	3.09	1.87	1.37	51.68
6.83	7.98	4.95	4.64	3.03	1.40	51.79
7.19	7.77	5.05	4.41	3.60	2.09	56.38
5.66	6.20	5.12	5.60	3.62	3.25	53.30
7.67	6.67	5.23	4.21	3.27	1.65	52.11
8.08	6.55	4.82	5.43	3.17	3.60	55.12
6.99	5.62	4.72	4.89	2.80	1.93	48.93
10.39	8.91	6.62	4.80	2.76	2.33	57.15
6.70	6.23	4.65	3.81	2.56	1.40	47.26
6.57	6.92	4.72	5.52	3.60	1.86	49.68
7.11	4.81	3.89	5.27	3.62	3.13	57.65
6.76	6.51	6.00	4.13	2.55	2.84	51.62
8.54	7.40	5.78	4.01	2.16	1.37	53.91
7.62	7.17	5.45	4.46	2.96	2.11	53.43
6.61	7.65	6.04	4.24	2.39	3.35	53.54
7.74	6.70	3.85	4.01	2.85	2.13	48.14

5.56	6.33	5.11	3.16	2.48	2.53	47.27
7.06	6.43	4.23	3.95	3.63	2.97	50.43
6.06	5.87	5.22	3.60	2.24	2.70	47.00
5.88	6.46	6.31	4.58	4.06	3.15	53.94
8.49	8.34	5.58	4.71	3.17	2.79	61.81
4.74	5.99	4.42	4.06	3.96	2.26	47.40
7.85	5.84	4.49	4.28	3.86	2.81	54.83
6.75	6.55	4.19	3.57	3.07	1.83	50.53
6.45	7.48	4.94	3.62	2.93	3.30	53.80
7.86	8.71	6.70	4.73	4.08	3.75	62.62
8.09	7.69	6.20	4.09	3.77	2.07	57.58
6.61	7.23	6.37	2.74	2.86	2.07	54.80
6.54	7.23	5.89	4.84	3.51	1.97	53.72
7.57	8.24	6.41	5.40	3.48	3.66	63.15
8.50	4.63	4.00	4.77	3.47	1.93	52.88
7.19	5.24	5.34	4.27	2.88	2.79	53.28
7.92	6.60	3.33	2.88	3.33	2.56	51.94
7.09	6.97	6.21	4.23	2.15	1.97	50.85

8.16	7.63	6.02	4.74	3.46	2.72	55.10
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Re: Kiteboard Ranch 13828 TEAMS Mtg RFI

Jessica Garate [REDACTED] >

Mon 5/9/2022 9:03 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thank you very much for the update!

Get [Outlook for iOS](#)

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Monday, May 9, 2022 8:35:57 AM

To: Jessica Garate [REDACTED]

Subject: Re: Kiteboard Ranch 13828 TEAMS Mtg RFI

Ms. Garate,

I have shared your email with Trent Gay and am waiting for a response. I will likely talk to him this afternoon. I will also talk to management about an extension and let you know whether I need anything from you.

You will hear from me soon.

Thank you,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

From: Jessica Garate [REDACTED]

Sent: Friday, May 6, 2022 4:43 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell [REDACTED]

Subject: RE: Kiteboard Ranch 13828 TEAMS Mtg RFI

Good afternoon, Ms. Beerman,

I just realized that we are coming up on the due date for the responses to the RFI for Kiteboard Ranch (WRPERM 13828), which is this upcoming Monday, May 9, 2022.

I apologize, but I was waiting to hear back from Trent on the Accounting Plan and we have not formulated a response to Comment #2 which addresses the inadequate compensation for evaporative losses. Is there any way to get an extension for a couple of weeks and we will come up with a plan to do that? Again, I apologize for not following up sooner on this!



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

4 Shooting Club Road / PO Box 2205

Boerne, TX 78006

830.249.8284 Phone

830.249.0221 Fax

www.westwardenv.com



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RE: Kiteboard Ranch 13828 TEAMS Mtg RFI

Jessica Garate <[REDACTED]>

Fri 4/22/2022 4:48 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Great, thank you. And you do the same!

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Sent: Friday, April 22, 2022 4:47 PM

To: Jessica Garate <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: Re: Kiteboard Ranch 13828 TEAMS Mtg RFI

Jessica,

I forwarded your email to Trent and will get back to you.

Thank you and have a nice weekend.

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Jessica Garate <[REDACTED]>

Sent: Friday, April 22, 2022 4:40 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Subject: RE: Kiteboard Ranch 13828 TEAMS Mtg RFI

Thank you for the information, Ms. Beerman.

I came across an application using the search function on the TCEQ website that indicated Worksheet 7.0 and Accounting Plan are included. However, the attachment was not part of the available document (Trinity_13779_Fields Headquarters et al.pdf). Would it be possible to get access to this accounting plan (to see an example) if Mr. Gay does not have another to share? Thank you.



Jessica Garate, GIT

Staff Geologist

Westward Environmental, Inc.

4 Shooting Club Road / PO Box 2205

Boerne, TX 78006

830.249.8284 Phone

830.249.0221 Fax

www.westwardenv.com



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Kiteboard_Ranch_13828_TEAMS Mtg_RFI

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Fri 4/22/2022 4:11 PM

To: Jessica Garate <[REDACTED]>; [REDACTED] <[REDACTED]>

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

 1 attachments (34 KB)

Kiteboard_Ranch_13828_Email_Attach_List of Attendees_04.22.2022.docx;

Jessica Garate and Curt Campbell, P.E.

As follow-up to our meeting this afternoon regarding the TCEQ's Request for Information for Kiteboard Ranch, 13828, I am sending you a list of attendees and the link to the Water Availability Model used by our hydro team to estimate evaporative losses.

Water Availability Models

https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/wam.html

Information about the Water Availability Model (WAM) and the Water Rights Analysis Package (WRAP). Explanation of various river basin input and GIS files.

When doing the analysis, our staff uses the "Full Authorization" for the select Basin.

Please keep us informed and feel free to reach out to me for any further questions and I will direct you to the appropriate staff.

Thank You,

Lillian E. Beerman, Ph.D.
Water Rights Permitting Team
Water Availability Division
512-239-4019
lillian.beerman@tceq.texas.gov

KITEBOARD RANCH
Application No. 13828 for a Water Use Permit
Guadalupe River Basin, Guadalupe County

TEAMS MEETING with Jessica Garate and Curt Campbell, P.E. of Westward Environmental

TCEQ Attendees

Name	Water Availability Team	Contact Information
Trent Gay	Surface Water Availability Team Leader	trent.gay@tceq.texas.gov 512-239-1825
Chris Kozlowski	Water Rights Permitting Team Leader	chris.kozlowski@tceq.texas.gov 512-239-1801
Lillian E. Beerman, Ph.D.	Water Rights Permitting/ Project Manager	Lillian.beerman@tceq.texas.gov 512-239-4019

PHONE MEMO

Kiteboard Ranch, LLC, WRPERM Application No. 13828

From: Lillian E. Beerman	To: Jessica Garate
Date: April 22, 2022	Permit: 13828
Phone: 830.249.8284	Re: Kiteboard Ranch RFI, set up TEAMS mtg

Held TEAMS conference call with Chris Kozlowski, Trent Gay, Jessica Garate, and Curt Campbell regarding the methods and data used to determine evaporative losses and Question 2 in the RFI.

The Applicant contacts from Westward Environmental used the data from the Texas Water Development Board.

TCEQ uses the Water Availability model which uses August 1956 as the month of record drought and 1954 for the year of record drought for their basin.

Discussed different methods for using the groundwater to maintain the dam at capacity. If they want to send in an accounting plan, they will need to complete Worksheet 7.

They asked for examples of accounting plans for similar dams.

Lillian E. Beerman, Ph.D. April 22, 2022

PHONE MEMO

Kiteboard Ranch, LLC, WRPERM Application No. 13828

From: Lillian E. Beerman	To: Jessica Garate
Date: April 19, 2022	Permit: 13828
Phone: 830.249.8284	Re: Kiteboard Ranch RFI, set up TEAMS mtg

Spoke with Ms. Garate to set up a team meeting to discuss the methods used for determining evaporative losses regarding a specific question in the RFI.

Lillian E. Beerman, Ph.D. April 22, 2022

Re: Kiteboard Ranch 13828 Request for Information

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Tue 4/19/2022 9:58 AM

To: Jessica Garate <

Jessica Garate,

I received your message regarding evaporative losses and will forward it to appropriate staff.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov



RE: Kiteboard Ranch 13828 Request for Information

Jessica Garate <[REDACTED]>

Mon 4/18/2022 5:15 PM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Cc: Curt Campbell <[REDACTED]>

Good afternoon, Ms. Beerman.

I'm assisting Curt Campbell with the Request for Information for Kiteboard Ranch and have a question about **Comment 2**. What source and what time period/range was used by TCEQ staff for the calculated 83.13 acre feet (maximum) and 476.45 acre feet (annual) evaporative losses? Westward's calculations used data from the TWDB for Quad 810 and taken using values that went back to 1950. If we have TCEQ's calculation method, we can better compare. If necessary, we can set up a call to discuss. Thank you for your time and attention.



Jessica Garate, GIT
Staff Geologist

Westward Environmental, Inc.

P.O. Box 2205 / Boerne, Texas 78006

830.249.8284 Phone

830.249.0221 Fax

[REDACTED]

www.westwardenv.com



Proj #

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Kiteboard_Ranch_13828_Request_for_Information

Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Thu 4/7/2022 3:13 PM

To: ccampbell@westwardenv.com - [REDACTED]

Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

 1 attachments (340 KB)

Kiteboard_Ranch_13828_RFI_Sent_to_App_04.07.2022.pdf;

Mr. Curt Campbell, P.E.

Please complete the attached Request for Information for Kiteboard Ranch's Application No. 13828 by COB Monday, May 9, 2022.

If you have any questions, please do not hesitate to ask.

Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 7, 2022

Mr. Curt Campbell, P.E.
Vice President, Engineering and Natural Resources
Westward Environmental, Inc.
P.O. Box 2205
Boerne, TX 78006-3602

VIA E-MAIL

RE: Kiteboard Ranch, LLC
WRPERM 13828
CN605929736, RN111448155
Application No. 13828 for a Water Use Permit
Texas Water Code § 11.121, Requiring Mailed & Published Notice
Long Branch, Guadalupe River Basin

Dear Mr. Campbell:

This acknowledges receipt, on February 28, 2022, of the referenced application, and on October 29, 2021, of fees in the amount of \$ 1,593.98 (Receipt No. M202346, copy attached).

This area is considered to have limited to no water available for appropriation for either a term or perpetual right. TCEQ would probably be unable to recommend granting the application without an alternate source. Staff acknowledges that the Applicant has identified groundwater as an alternate source, and the alternate source of water will be considered during technical review.

Additional information and fees are required before the application can be declared administratively complete.

1. Confirm that a diversion authorization is not requested. Staff notes a diversion point was indicated on the map provided by the Applicant.
2. Confirm that the alternate source will be adequate to compensate for evaporative losses from the reservoir. Staff notes that the application indicates sufficient groundwater to account for evaporative losses of 50 acre-feet per year. However, Staff has calculated the maximum monthly and annual evaporative losses to be 83.13 and 476.45 acre-feet, respectively.
3. Provide an operational plan that identifies how the groundwater from the Applicant's seven wells will support the application. In the plan, describe how use of each well will be determined for a given day/time.
4. Before the application can be declared administratively complete, remit fees in the amount of \$ **203.54**, as described below. Please make the check payable to the TCEQ or Texas Commission on Environmental Quality.

Mr. Curt Campbell, P.E.
Kiteboard Ranch, LLC
Application No. 13828,
April 7, 2022
Page 2 of 2

Filing Fee	(100 to 5,000 Acre-Feet)	\$	250.00
Recording Fee		\$	25.00
Storage Fees	(\$1.00 x 1186 Acre-Feet)	\$	1,186.00
Mailed Notice	(Guadalupe River Basin)	\$	336.52
TOTAL FEES		\$	1,797.52
FEES RECEIVED		\$	1,593.98
TOTAL FEES DUE		\$	203.54

Please submit the requested information by May 9, 2022, or the application may be returned pursuant to Title 30 Texas Administrative Code § 281.18.

If you have any questions concerning this matter, please contact me via email at lillian.beerman@tceq.texas.gov or by telephone at (512) 239-4019.

Sincerely,

Lillian E. Beerman, Ph.D.

Lillian E. Beerman, Ph.D., Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section



Basis2 Receipt Report by Endorsement Number

MAR-03-22 11:05 AM

Acct. #: WUP

Account Name: WATER USE PERMITS

<u>Paid For</u>	<u>Endors. #</u>	<u>Ref #2</u>	<u>Paid In By</u>	<u>PayTyp</u>	<u>Chk #</u>	<u>Card#</u>	<u>Bank Slip</u>	<u>Tran.Date</u>	<u>Receipt Amnt.</u>
	M202346		YACKTMAN, ELLYN	CK	1084		BS00089677	29-OCT-21	\$1593.98

Report_ID:

Page 1



February 23, 2022

Texas Commission on Environmental Quality
Water Availability Division
MC-160 P.O. Box 13087
Austin, TX 78711-3087

Project No.: 11235-002

Subject: Water Rights Permit - WRPERM 13818
Kiteboard Ranch, LLC – CN605929736, RN111361325
Intent to Withdraw Application

To Whom This May Concern,

Westward is submitting a revised Water Rights Application on behalf of Kiteboard Ranch, LLC which you will find attached here. On October 28, 2021, TCEQ received fees in the amount of \$1,593.98 for Kiteboard Ranch's initial application No. 13818. Application No. 13818 was withdrawn on January 6, 2022. Please apply these fees to the current application. A copy of the receipt (Receipt No. M202346) is also attached here.

Westward will continue to serve as the technical contact for Kiteboard Ranch, LLC. on this project. Please ensure that Westward is copied on all correspondence, including the final approval. If you have any other questions, or require further information, please contact our office at 830-249-8284.

Respectfully submitted,

WESTWARD ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "Curt G. Campbell".

2/24/2022



Curt G. Campbell, PE
VP Engineering & Natural Resources
TX PE Firm No. 4524

Attachments: Water Rights Application
Receipt No. M202346

RECEIVED

FEB 28 2022

Water Availability Division

Office P.O. Box 2205 Boerne, TX 78006



Main 830.249.8284 | Fax 830.249.0221

Texas Registered Engineering Firm # F-4524

Texas Registered Geoscience Firm # 50112

westwardenv.com

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ WATER RIGHTS PERMITTING APPLICATION

ADMINISTRATIVE INFORMATION CHECKLIST

Complete and submit this checklist for each application. See Instructions Page. 5.

APPLICANT(S): KITEBOARD RANCH, LLC

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).

Y/N

Y **Administrative Information Report**
N Additional Co-Applicant Information
N Additional Co-Applicant Signature Pages
Y Written Evidence of Signature Authority
Y **Technical Information Report**
Y USGS Map (or equivalent)
Y Map Showing Project Details
Y Original Photographs
N Water Availability Analysis
Y **Worksheet 1.0**
N Recorded Deeds for Irrigated Land
N Consent For Irrigation Land
N **Worksheet 1.1**
N Addendum to Worksheet 1.1
N **Worksheet 1.2**
N Addendum to Worksheet 1.2
Y **Worksheet 2.0**
N Additional W.S 2.0 for Each Reservoir
Y Dam Safety Documents
Y Notice(s) to Governing Bodies
Y Recorded Deeds for Inundated Land
N Consent For Inundation Land

Y/N

N **Worksheet 3.0**
N Additional W.S 3.0 for each Point
N Recorded Deeds for Diversion Points
N Consent For Diversion Access
Y **Worksheet 4.0**
N TPDES Permit(s)
N WWTP Discharge Data
Y 24-hour Pump Test
Y Groundwater Well Permit
N Signed Water Supply Contract
Y **Worksheet 4.1**
Y **Worksheet 5.0**
Y Addendum to Worksheet 5.0
N **Worksheet 6.0**
N Water Conservation Plan(s)
N Drought Contingency Plan(s)
N Documentation of Adoption
N **Worksheet 7.0**
N Accounting Plan
Y **Worksheet 8.0**
Y Fees

For Commission Use Only:

Proposed/Current Water Right Number: _____

Basin: _____ Watermaster area Y/N: _____

ADMINISTRATIVE INFORMATION REPORT

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) 239-4600.**

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

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

- ☒ 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."

Kiteboard Ranch, LLC (Kiteboard) is the owner of ~642-acre Broken Oak Ranch located ~2 miles southwest of Kingsbury, Guadalupe County, Texas. An existing ~90-acre lake was constructed on the property in the late-1900s. The new owner has determined that the lake is not exempt from water rights permitting pursuant to 30 TAC §297.21. A notice of audit was submitted and Kiteboard seeks a permit to use groundwater pumped from private onsite wells to maintain the level of the reservoir so that there is no consumptive use or impoundment of State Water.

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?

Kiteboard Ranch, LLC

(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)?
You may search for your CN on the TCEQ website at

<http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>

CN: CN605929736 (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: Ellyn Yacktmann

Title: Manager

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

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>.

Name: Kiteboard Ranch, LLC

Mailing Address: 3571 Far West Blvd #82

City: Austin

State: Texas

ZIP Code: 78731

Indicate an X next to the type of Applicant:

<input type="checkbox"/> Individual	<input type="checkbox"/> Sole Proprietorship-D.B.A.
<input type="checkbox"/> Partnership	<input type="checkbox"/> Corporation
<input type="checkbox"/> Trust	<input type="checkbox"/> Estate
<input type="checkbox"/> Federal Government	<input type="checkbox"/> State Government
<input type="checkbox"/> County Government	<input type="checkbox"/> City Government
<input type="checkbox"/> Other Government	<input checked="" type="checkbox"/> Other <u>Limited Liability Co</u>

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number: 32072437224 SOS Charter (filing) Number: 0803462312

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: Curt G. Campbell, P.E.

Title: VP of Engineering & Natural Resources

Organization Name: Westward Environmental, Inc.

Mailing Address: PO Box 2205

City: Boerne

State: Texas

ZIP Code: 78006

Phone No.: 830-249-8284

Extension:

Fax No.: 830-249-0221

E-mail Address: [REDACTED]

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. N/A (single owner

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

First and Last Name:

Title:

Organization Name:

Mailing Address:

City:

State:

ZIP Code:

Phone No.:

Extension:

Fax No.:

E-mail Address:

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) 239-4600, prior to submitting your application.

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

If yes, provide the following information:

Account number:

Amount past due:

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

If yes, please provide the following information:

Enforcement order number:

Amount past due:

- 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

- 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

6. SIGNATURE PAGE (Instructions, Page. 11)

Applicant:

I, Elyn Yackman
(Typed or printed name)

Manager/President
(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.

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: Elyn Yackman

(Use blue ink)

Date: 10/13/21

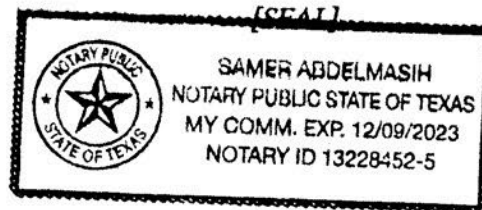
Subscribed and Sworn to before me by the said

on this 13th day of October, 2021.

My commission expires on the 9th day of December, 2023.

Notary Public

Samir Abdelmasih



Travis
County, Texas

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

**CONSENT OF SOLE MANAGER
IN LIEU OF ORGANIZATIONAL MEETING
OF
KITEBOARD RANCH, LLC**

November 4, 2019

The undersigned, being the sole manager named in the Certificate of Formation of Kiteboard Ranch, LLC, a Texas limited liability company (the "**Company**"), hereby, pursuant to the provisions of Section 6.201 of the Texas Business Organizations Code, consents to and approves the following resolutions and each and every action effected thereby:

1. Certificate of Formation.

RESOLVED, that the Certificate of Formation that was submitted to, and reviewed by, the sole manager of the Company and that has been filed in the office of the Secretary of State of the State of Texas on November __, 2019, is approved, accepted, ratified, and adopted as the Company's Certificate of Formation.

RESOLVED FURTHER, that the Secretary of the Company is directed to insert the Certificate of Formation and the Certificate of Filing issued by the Secretary of State of the State of Texas in the minute book of the Company.

2. Company Agreement.

RESOLVED, that the Company Agreement for the regulation and management of the affairs of the Company that was submitted to, reviewed by, and executed by the manager and members of the Company is approved and adopted for and as the Company Agreement of the Company, and the Secretary of the Company is directed to insert a copy of the Company Agreement in the minute book of the Company.

3. Minute Book.

RESOLVED, that (a) the minute book presented to the sole manager of the Company is approved and adopted, and the action of the Secretary in inserting in it the Certificate of Formation, the Certificate of Filing, and the Company Agreement is ratified and approved, and (b) the Secretary is hereby directed to authenticate the minute book, to retain custody of it, and to insert therein minutes of any meeting and of other proceedings (or written waivers and consents to any manager, member or other action) of the managers or members of the Company and other appropriate records of the Company.

4. Election of Officers.

RESOLVED, that the following persons are elected to the office set forth opposite their respective names, to serve as such until such officer's successor is elected or appointed and qualified or, if earlier, until such officer's death, resignation, or removal from office:

Name	Office
Ellyn Yacktman	President and Secretary

5. Issuance of Membership Interests.

RESOLVED, that the Company hereby issues 100% of the membership interests of the Company to Stephen Yacktman Family Remainder Trust in exchange for \$100.00.

RESOLVED FURTHER, that upon the issuance of such membership interests, they shall be duly issued, validly outstanding, fully paid and nonassessable.

6. Banking and Borrowing.

RESOLVED, that the Company establish such banking arrangements as from time to time become necessary, desirable or appropriate, including arrangements with respect to establishing and maintaining checking accounts and with respect to borrowing funds, and that the signature of the sole manager of the Company at the bottom of the form of certificate of resolutions customarily required by any such banking institution authorizing such arrangements shall constitute and be construed as a unanimous written consent to the adoption of such resolutions by the sole manager of the Company under the provisions of Section 6.201 of the Texas Business Organizations Code, and that the Secretary of the Company is hereby authorized to certify to such resolutions so signed by the sole manager of the Company in such form as said banking institution may customarily require, and such resolutions so certified shall be deemed to be copied in the minute book as if set forth therein in full.

RESOLVED FURTHER, that the sole manager of the Company is hereby authorized to borrow, from time to time, in the name and on behalf of the Company, such funds in such amounts from such persons or lending institutions as permitted by the Company Agreement.

RESOLVED FURTHER, that the signature of the sole manager of the Company at the bottom of the form of certificate of resolutions customarily required by any such lenders authorizing such borrowing shall constitute and be construed as a unanimous written consent to the adoption of such resolutions by the sole manager of the Company under the provisions of Section 6.201 of the Texas Business Organizations Code, and that the Secretary of the Company is

hereby authorized to certify to such resolutions so signed by the sole manager of the Company in such form as said lender may customarily require, and such resolutions so certified shall be deemed to be copied in the minute book as if set forth therein in full.

7. Annual Meeting of Members.

RESOLVED, that an annual meeting of members of the Company may be held during each calendar year on such date and at such time as shall be designated from time to time by the sole manager.

8. Organizational Expenses.

RESOLVED, that the manager or any appropriate officer of the Company be, and hereby is, authorized and directed to pay all charges and expenses incident to and necessary for the organization of the Company and to reimburse any person who has made any disbursement therefor.

9. Fiscal Year.

RESOLVED, that the fiscal year of the Company shall end on the last day of December of each year.

10. Qualification to Transact Business as a Foreign Limited Liability Company.

RESOLVED, that the manager or any appropriate officer of the Company is hereby authorized and directed to cause the Company to qualify as a foreign limited liability company in such jurisdictions as may be legally required by reason of the property owned, business conducted, or other activities effected by the Company in such jurisdictions now or at any time hereafter.

11. General Authorization.

RESOLVED, that the manager and any officers of the Company are hereby severally authorized (a) to sign, execute, certify to, verify, acknowledge, deliver, accept, file, and record any and all instruments and documents, and (b) to take, or cause to be taken, any and all such action, in the name and on behalf of the Company, as (in such officer's judgment) shall be necessary, desirable or appropriate in order to effect the purposes of the foregoing resolutions.

RESOLVED FURTHER, that any and all action taken by any manager, officer or member of the Company prior to the date this Consent is actually executed in effecting the purposes of the foregoing resolutions is hereby ratified, approved, confirmed, and adopted in all respects.

12. Electronic Signature.

RESOLVED, that this Consent may be transmitted via electronic means and executed by the undersigned, and an electronic signature of the undersigned shall be deemed an original signature for all purposes and have the same force and effect as a manually-signed original.

* * * * *

EXECUTED to be effective as of the date first above written.


Ellyn Yackman

COMPANY AGREEMENT
OF
KITEBOARD RANCH, LLC
A Texas Limited Liability Company

This Company Agreement (this "**Agreement**") of Kiteboard Ranch, LLC, a Texas limited liability company, executed to be effective as of November __, 2019, is adopted, executed and agreed to by the Manager and Member of the Company (as defined below).

1. **Formation.** Kiteboard Ranch, LLC (the "**Company**") has been organized as a Texas limited liability company under and pursuant to the Texas Business Organizations Code (the "**TBOC**").

2. **Manager.** Ellyn Yacktmann, an individual residing in Travis County, Texas, shall be the sole manager of the Company (the "**Manager**").

3. **Contributions.** In exchange for 100% of the membership interests in the Company, the undersigned member (the "**Member**") has made an initial contribution to the capital of the Company in the amount of \$100.00. Without creating any rights in favor of any third party, the Member may, from time to time, make additional contributions of cash or property to the capital of the Company, but shall have no obligation to do so.

4. **Distributions.** The Member shall be entitled to (a) receive all distributions (including, without limitation, liquidating distributions) made by the Company, and (b) enjoy all other rights, benefits and interests in the Company.

5. **Single-Member Limited Liability Company for Tax Purposes.** The Manager and Member hereby state that it is their intention that the Company shall be treated as a disregarded entity for purposes of United States federal income tax laws, and further state that they will not take any position or make any election, in a tax return or otherwise, inconsistent herewith. In furtherance of the foregoing, the Company will file its results of operations as part of the Member's income tax return for each year for United States federal income tax purposes.

6. **Amendment of Agreement.** Any amendment or supplement to this Agreement shall only be effective if in writing and if the same shall be consented to and approved by the Manager and the Member.

7. **Management.** The Company shall be managed by a single Manager, and the management of the Company is fully reserved to said Manager. The powers of the Company shall be exercised by or under the authority of, and the business and affairs of the Company shall be managed under the direction of, the Manager, who shall make all decisions and take all actions for the Company.

8. **Officers.**

(a) The Manager may, from time to time, designate one or more persons to be the officers of the Company. Any officers so designated shall have such authority and perform such duties as the Manager may, from time to time, delegate to them. The Manager may assign titles to particular officers. Unless the Manager decides otherwise, if the title is one commonly used for officers of a for-profit corporation formed under the TBOC, the assignment of such title shall constitute the delegation to such officer of the authority and duties that are normally associated with that office. Each officer shall hold office until such officer's successor shall be duly designated and shall qualify or until such officer's death or until such officer shall resign or shall have been removed in the manner hereinafter provided. Any number of offices may be held by the same person. The salaries or other compensation, if any, of the officers and agents of the Company shall be fixed from time to time by the Manager.

(b) Any officer may resign as such at any time. Such resignation shall be made in writing and shall take effect at the time specified therein, or if no time is specified, at the time of its receipt by the Manager. The acceptance of a resignation shall not be necessary to make it effective, unless expressly so provided in the resignation. Any officer may be removed as such, either with or without cause, by the Manager whenever in her judgment the best interests of the Company will be served thereby; provided, however, that such removal shall be without prejudice to the contract rights, if any, of the officer so removed. Designation of an officer shall not of itself create contract rights. Any vacancy occurring in any office of the Company may be filled by the Manager.

9. **Winding Up and Termination.** The Company shall be wound up and terminated at such time, if any, as the Member may elect. No other event will cause the Company to wind up and terminate.

10. **Governing Law.** THIS AGREEMENT IS GOVERNED BY AND SHALL BE CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS (EXCLUDING ITS CONFLICT OF LAWS RULES).

* * * * *

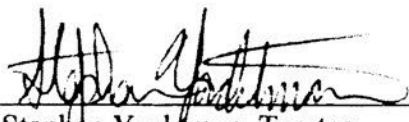
EXECUTED as of the date first written above.

SOLE MANAGER:


Ellyn Yacktmah

SOLE MEMBER:

STEPHEN YACKTMAN FAMILY REMAINDER
TRUST

By: 
Stephen Yacktmah, Trustee

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, Applicant 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) 239-4600 to schedule a meeting. Applicant attended a pre-application meeting with TCEQ Staff for this Application? Y / N Yes (If yes, date : January 5, 2022).

1. 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 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 N (If yes, indicate the Certificate or Permit number: _____)

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 _____

- c. Applicant requests to extend an existing Term authorization or to make the right permanent? Y / N N (If yes, indicate the Term Certificate or Permit number: _____)

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. If the application does not contain consent from the current owner to make the requested amendment, TCEQ will not begin processing the amendment application until the Change of Ownership has been completed and will consider the Received Date for the application to be the date the Change of Ownership is completed. 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):

List of water rights to sever	Combine into this ONE water right

- 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:

- **Worksheet 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)
- **Worksheet 5.0 – Environmental Information** (Required for any new diversion points that are not already authorized in a water right)

- 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) 239-4600 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)

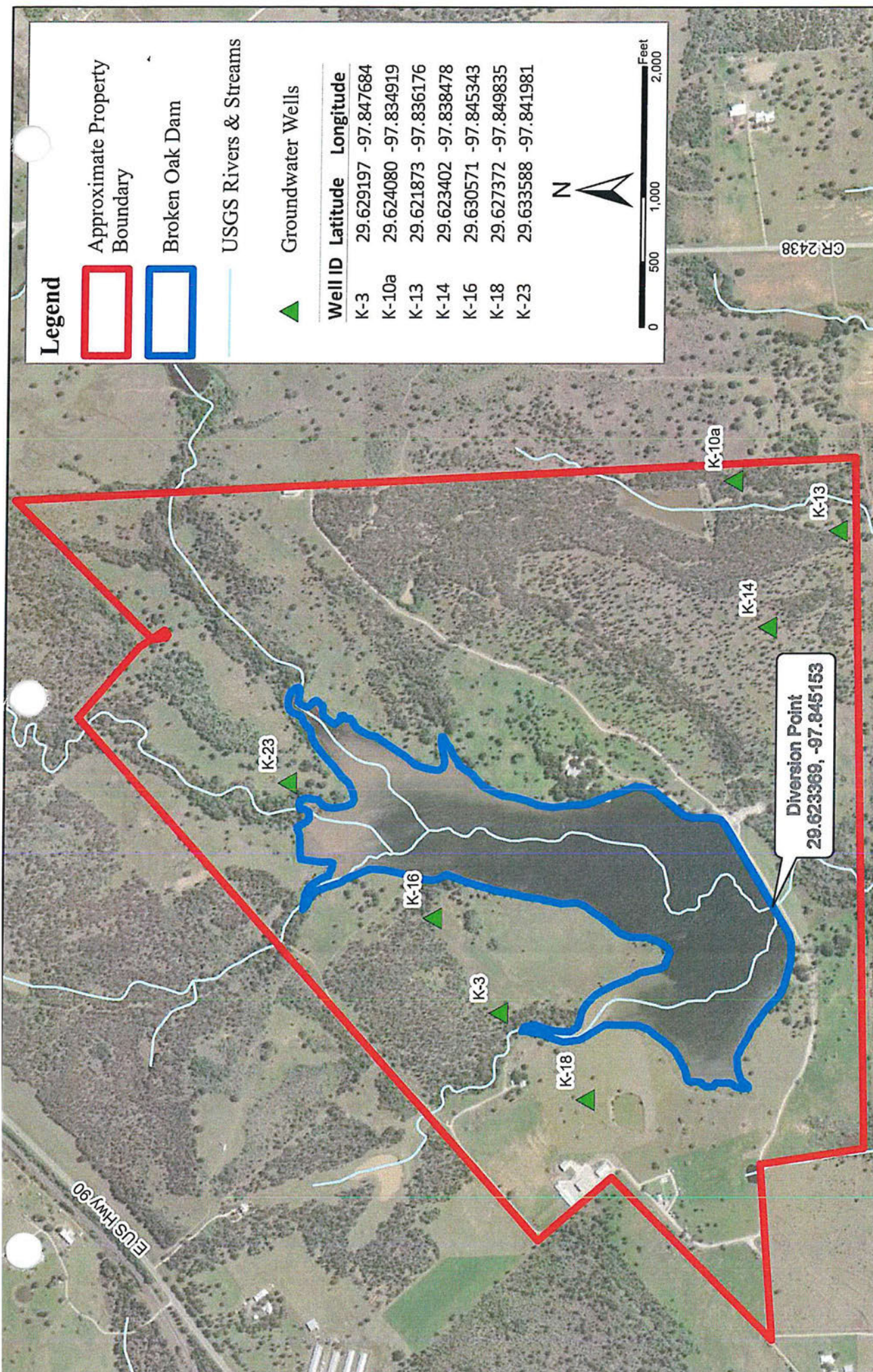
- a. Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant 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":

Kiteboard Ranch, LLC is located within the Region L Planning Group. This application
proposes the use of groundwater pumped from private wells onsite to maintain the
level of the reservoir so that there is no consumptive use or impoundment of State
Water.

- 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.

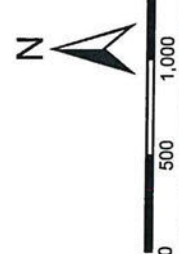
- c. Does the application include required Maps? (Instructions Page. 15) Y / N Y



Legend

- Approximate Property Boundary
- Broken Oak Dam
- USGS Rivers & Streams
- Groundwater Wells

Well ID	Latitude	Longitude
K-3	29.629197	-97.847684
K-10a	29.624080	-97.834919
K-13	29.621873	-97.836176
K-14	29.623402	-97.838478
K-16	29.630571	-97.845343
K-18	29.627372	-97.849835
K-23	29.633588	-97.841981



2/23/2022

STATE OF TEXAS
CURT GARRETT CAMPBELL
106851
LICENSED PROFESSIONAL ENGINEER

Curt G. Campbell, P.E.
License No. 106851

PROJECT MAP			
BROKEN OAK DAM KITEBOARD RANCH, LLC. SEGUIN, GUADALUPE COUNTY, TEXAS			
REV.	DESCRIPTION	BY	DATE

IMAGE: ESRI WORLD IMAGERY			
ISSUE DATE:	02/21/2022		
DRAWN BY:	JG		
CHECKED BY:	CGC		
SCALE: 1" =	1,000'		
JOB NO.:	11235-002		

WESTWARD
Environmental Engineering, Natural Resources,
P.O. Box 2205, Boerne, Texas 78006
(830) 249-8284 Fax: (830) 249-0221
TBPGE REG. NO.: F-4524
TBPGE REG. NO.: 50112



SUBJECT SITE

WESTWARD

Environmental, Engineering, Natural Resources.

P.O. Box 2205, Boerne, Texas 78006
(830) 249-8284 Fax: (830) 249-0221
TBPE REG. NO.: F-4524
TBPG REG. NO.: 50112

2/23/2022

Curt G. Campbell P.E.
License No. 106851

USGS MAP			
BROKEN OAK DAM KITEBOARD RANCH, LLC SEGUIN, GUADALUPE COUNTY, TEXAS			
REV.	DESCRIPTION	BY	DATE

IMAGE: ESRI WORLD TOPO MAP			
ISSUE DATE:	01/25/2022		
DRAWN BY:	JG		
CHECKED BY:	CGC		
SCALE: 1" =	2000'		
JOB NO.:	11235-002		

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:

Quantity (acre- feet) <i>(Include losses for Bed and Banks)</i>	State Water Source (River Basin) or Alternate Source <i>*each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0</i>	Purpose(s) of Use	Place(s) of Use <i>*requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer</i>
1186	Carrizo-Wilcox Aquifer	recreation/on-channel storage	Guadalupe County

~50* Total amount of water (in acre-feet) to be used annually (include losses for Bed and Banks applications) * Based on monthly evaporation rates.

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

a. 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: N/A

Quantity (acre- feet)	Existing Purpose(s) of Use	Proposed Purpose(s) of Use*	Existing Place(s) of Use	Proposed Place(s) of Use**

**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:
- 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.
 - 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

N/A

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 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"

N/A

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>.
- 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: Long Branch
- b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 1186.
- c. The impoundment is on-channel X or off-channel _____ (mark one)
 - i. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4600? Y / N Y
 - ii. 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 Y
- d. Is the impoundment structure already constructed? Y / N Y
 - i. For already constructed **on-channel** structures:
 1. Date of Construction: Between December 1994 - January 1995
 2. Was it constructed to be an exempt structure under TWC § 11.142? Y / N 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 Y
 3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? Y / N N
 - a. If yes, provide the Site No. _____ and watershed project name _____;
 - b. Authorization to close "ports" in the service spillway requested? Y / N 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 Y
Provide the date and the name of the Staff Person July 12, 2019; Warren Samuelson & Dan Yates
 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 N
 - b. Plans (with engineer's seal) for the structure required. Y / N Y
 - c. Engineer's signed and sealed hazard classification required. Y / N Y
 - d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. Y / N Y

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 Y

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

1. Surface area (in acres) of on-channel reservoir at normal maximum operating level: 98.4.
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 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) 239-4600).

2. Structure Location (Instructions, Page. 23)

- a. On Watercourse (if on-channel) (USGS name): Long Branch
- b. Zip Code: 78155
- c. In the James A Swift Original Survey No. N/A, Abstract No. 292,
Guadalupe 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. see attached Special Warranty Deed.***

*****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 29.623369 °N, Longitude 97.845153 °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): GIS
- dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. Y / N Y



DAM SAFETY SECTION CRITICAL INFRASTRUCTURE DIVISION

Dam Safety Inspection Report

GENERAL INFORMATION

INVENTORY No.: TX07548

DAM: Broken Oak Dam

OWNER: LARRY STRUTHOFF

STREAM: Long Branch

BASIN: Guadalupe River

COUNTY: Guadalupe

GENERAL LOCATION: 2 miles southwest of Kingsbury

DAM HEIGHT: 30 feet

SIZE CLASSIFICATION: Intermediate

NORMAL CAPACITY: 974 acre-feet

MAXIMUM CAPACITY: 1,680 acre-feet

NORMAL WATER LEVEL: 506.5 feet mean sea level (msl) (per owner's drawings)

CURRENT WATER LEVEL: 505.6 feet msl

PREVIOUS INSPECTION DATE: N/A

CURRENT INSPECTION DATE: July 12, 2019

INSPECTION BY TCEQ PERSONNEL: Warren Samuelson, P.E. and Dan Yates, P.E.

PERSONNEL CONTACTED: Larry Struthoff

SUMMARY

Broken Oak Dam, an intermediate size earthen dam, was inspected by TCEQ staff on July 12, 2019. This was the first TCEQ inspection of the dam. The owner was notified of the inspection on July 3, 2019. The dam was found in overall good condition. The primary issues of concern included the following: overgrown vegetation and trees on the downstream slope and toe, and large

trees in the emergency spillway; displaced riprap and benching erosion in the riprap protection on the upstream slope; erosion undermining the service spillway; hog and other animal damage on the downstream slope and toe; seepage on the downstream toe; and vegetation growing in open joints and cracks in the service spillway. An emergency action plan has not been submitted to TCEQ and a hydrologic and hydraulic analysis of the dam has not been submitted to TCEQ. A verbal exit interview, explaining the results of the inspection, was conducted on the same day of the inspection with Mr. Struthoff.

BACKGROUND

Broken Oak Dam was constructed between December 1994 and January 1995 by the owner Larry Struthoff. Mr. Struthoff said that excavation for the dam went 4-feet into clay material and that dam was constructed with a clay core, utilizing locally available material. He indicated that excavation for the core at the right end was 13 to 14 feet deep. He also indicated that he placed a clay blanket on the south bank.

Before constructing the dam, Mr. Struthoff and obtained a 404 permit from the US Army Corps of Engineers. However, he did not obtain a water rights permit. Mr. Struthoff is in the process of trying to sell the property and the dam.

Mr. Struthoff provided TCEQ staff with drawings of the crest, slopes and spillway of the dam. TCEQ compared station-elevation data presented in the drawings with 2011 LiDAR data obtained from the Texas Natural Resources Information System (TNRIS). Elevation variance between the two datasets was greater than 15 feet. The drawings show a crest that varies from 510.48 – 511.57 feet msl, while the LiDAR yields a nominal crest elevation of 528 feet msl. This suggests a possible datum shift issue with the drawings. For the purposes of this inspection report and for TCEQ data records, the elevations cited in the drawings (for the crest, spillway and culverts) will be used until better survey data becomes available.

TCEQ estimated normal and maximum capacity using the following formula:

Capacity in acre-feet = (Dam height)*(0.4)*(Water surface area)

TCEQ delineated the surface area at the normal pool and top of dam using the 2011 LiDAR data. The results were 95.1 acres at normal pool and 140 acres at top of dam. Height of dam was taken from the owner's drawings. Using the estimated capacity formula yields the following:

Normal capacity = (25.6 feet)*(0.4)*(95.1 acres) = 973.8 acre-feet

Maximum capacity = (30 feet)*(0.4)*(140 acres) = 1,680 acre-feet

It is also noted that the drawings show a 12-foot crest width, but the dam is now topped by a 16-foot wide asphalt concrete road.

PRE-INSPECTION MEETING

TCEQ staff were met at the dam by Mr. Struthoff and Roger McDowell. Mr. Struthoff gave an overview of the construction of the dam. He also said that the dam has never been overtopped, and that the emergency spillway on the right side of the dam has only been engaged once. Mr. McDowell accompanied TCEQ for the full duration of the inspection. Mr. Struthoff did not accompany TCEQ for the inspection but returned to the dam for an exit interview.

INSPECTION FINDINGS

Figure 1 is a location map. Figure 2 is a 2018 aerial photo of the dam with 10-foot contours. Figure 3 is a 2018 aerial of the dam and surrounding area, indicating embankment photo locations. Figure 4 is an aerial of the service spillway section indicating photo locations. Note that right and left indications are from the perspective of an observer looking downstream. Field measurements were taken during the inspection using a hand-level and survey rod. The water level was at approximately 0.9 feet below the invert of the service spillway culverts.

Crest

- The crest of the dam is topped by a 16-foot wide asphalt concrete road.
- The crest was in good alignment. [Photos 1-2]
- Longitudinal cracking was observed in the asphalt concrete. The cracking was most prominent on the upstream and downstream sides of the roadway but was also evident in the center. Cracks up to 6 inches were observed. [Photos 3-4]
- The crest was found to be in good condition.

Upstream Slope

- The 4.5 horizontal to 1 vertical [4.5H:1V] upstream slope is an earthen embankment with a rock riprap covered lower section and grass covered upper section. [Photo 5]
- Minor vegetation growth was noted in the rock riprap protection including a small tree at the left end.
- Areas of displaced riprap and exposed embankment were observed at numerous locations. [Photo 6]
- Wind and wave action erosion with 2-foot benching was observed. [Photos 7-9]
- The upstream slope was found to be in good condition.

Downstream Slope

- The 6H:1V downstream slope is an earthen embankment with a grassy vegetative cover. [Photos 10-11]
- The slope was in an overgrown condition with 2 to 3-foot tall grass, weedy brush and small 6 to 7-foot tall trees. [Photos 12-13]
- A large 30-foot wide area of hog damage was observed on the toe near the right end of the slope. Other smaller areas of hog damage were observed along the toe and lower slope. [Photos 14-15]
- Seepage was observed at the toe extending across the middle third of the embankment's length. Dense cattails and other aquatic vegetation were observed. [Photo 16]
- A burrow into the toe (probed to 2 feet) was observed at the seep's water surface. [Photo 17]
- Numerous burrows and animal trails were observed on the embankment. [Photo 18]
- The downstream slope was found to be in fair condition.

Service Spillway

- The service spillway is located at the left end of the embankment and is a trapezoidal concrete overflow structure with a low water crossing comprised of eighteen 2-foot inner diameter concrete culvert pipes. The downstream side of the roadway has eighteen 24-inch by 8-inch by 8-inch baffle blocks spaced uniformly along its edge. Flow through the culverts and over the crossing then enters a stepped concrete spillway channel where it travels for approximately 180 feet downstream before encountering approximately fifty 3 to 4-foot boulder baffle blocks embedded in the channel concrete. The spillway channel then turns and discharges to the right to Long Branch which then flows approximately 0.8 miles to Interstate 10. [Photo 19-20]
- Open construction joints were observed between the concrete of the circular culverts and the concrete of the low water crossing's upstream approach. Gaps between sections of culvert pipe were observed. [Photo 21]
- Cracking, spalling and exposed reinforcing steel was observed on the downstream side of the low water crossing. [Photo 22]
- The concrete channel is crossed by an 8-foot tall game fence. The fence has hinged flap sections to facilitate passage of debris. Corrosion was observed on the entire fence and has frozen one of the flap sections. [Photo 23]
- Vegetation was observed in cracks, open construction joints and in the baffle blocks. [Photo 24]
- Erosion and undermining of the left concrete side slope and channel was observed at the downstream end. [Photos 25-27]

- The service spillway was found to be in fair condition.

Emergency Spillway

- There is a low section of the roadway on the right end of the dam that functions as an emergency spillway. [Photo 28]
- The spillway approach has good grass cover. Large trees were observed in the estimated flowpath, both upstream and downstream of the crest. [Photo 29]
- The emergency spillway was found to be in good condition.

Downstream Channel

- The channel downstream of the concrete service spillway was overgrown with heavy brush and trees.
- 4 to 5-foot erosion was observed immediately downstream of the concrete spillway.
- The downstream channel was found in fair condition.

CONFIDENTIAL



OPERATION AND MAINTENANCE (O&M) PLAN

The owner did not indicate that a written O&M plan is available, but it was observed that a program of maintenance is performed at the dam.

EMERGENCY ACTION PLAN (EAP)

An EAP has not been submitted to TCEQ.

REQUIREMENTS/RECOMMENDATIONS

The following requirements and/or recommendations are provided (not prioritized):

1. As indicated during the inspection and in our letter of July 16, 2019, an application for a water rights permit needs to be filed as soon as possible.
2. In 30 TAC Chapter 299, §299.61, an EAP is required.

The *Guidelines for Developing Emergency Action Plans for Dams in Texas* (and associated electronic templates) can be downloaded at:

https://www.tceq.texas.gov/compliance/investigation/damsafetyprog.html#guide_eaps

3. In 30 TAC Chapter 299, §299.15, the hydraulic requirements for dams and spillways are indicated. The dam's hydraulic adequacy is unknown, and it is recommended that a Texas Licensed Professional Engineer (PE) conduct an H&H analysis. The *Hydrologic and Hydraulic Guidelines for Dams in Texas* can be downloaded at:

https://www.tceq.texas.gov/assets/public/comm_exec/pubs/gi/gi-364.pdf

Depending on the results of the analysis, additional spillway capacity may need to be designed and installed. Any proposed modifications to the dam need to be reviewed and approved by TCEQ Dam Safety prior to construction.

4. In 30 Texas Administrative Code (TAC) Chapter 299, §299.43(a), a written O&M plan is required to be developed. The owner may use the most current version, at the time of the plan's development, of the agency's *Guidelines for Operation and Maintenance of Dams in Texas*, a manual, a checklist, or some other written procedure to demonstrate implementation of the program. The *Guidelines for Operation and Maintenance of Dams in Texas* can be downloaded at:

https://www.tceq.texas.gov/publications/gi/gi_357/index.html

This plan should be designed to provide the owner or owner's representatives clear instructions for everyday operation of the dam, as well as maintenance guidance. The plan is for the owner's records and

should be accessible if requested by TCEQ; however, the plan is not required to be submitted to, nor is the plan approved by TCEQ. Your O&M plan shall include items addressed in the requirements/recommendations portion of this report. The method and the timeframe for addressing these items are left up to the owner, and it is recognized that finances may govern when the work can be undertaken. The following deficiencies need to be monitored in conjunction with your O&M plan:

- a. Overgrown condition: small trees and overgrown vegetation on the downstream slope and toe, and trees in the emergency spillway.*

All excessive vegetation, brush, and trees with a trunk diameter less than 4 inches should be removed from the dam embankment's crest, slopes, and the area located within 15-20 feet of the embankment's toe. After removal, a short grass cover (or riprap repair) should be established over the affected areas. A short grass cover provides an ideal surface to protect against erosion, prevents harborage for burrowing animals, and allows for easier detection of incipient problems. Mowing should be performed as needed (prior to any future inspections (including owner inspections), and/or typically not less than twice yearly). Mr. Struthoff indicated that the dam is mowed once every two years.

All trees regardless of size should be removed from the emergency spillway. The trees and roots are to be removed, the resulting holes backfilled with properly compacted non-dispersive clay, and a vegetative cover established.

- b. Benching erosion: missing riprap and benching erosion was observed in the riprap protection on the upstream slope.*

Sections of missing riprap should be filled in. The erosion condition should be monitored periodically, and after any high wind or storm events, for any progression toward the crest.

- c. Undermining erosion: turbulent flows have eroded the channel downstream of the service spillway and the side slope and spillway slab are being undermined.*

Repairs should be implemented to prevent any further undermining of the concrete side slope and spillway slab.

- d. *Cracking and Open Joints: Small cracks and open joints were observed between the culvert pipes and surrounding concrete, vegetation was observed in cracks and open joints of the concrete spillway, and cracks were observed on the roadway on the embankment crest.*

Cracks should be cleaned and sealed with a flexible water-resistant sealant.

- e. *Spalling, Disintegration, or Erosion (of Concrete Structures): concrete spalling and exposed and corroded reinforcing steel was observed at the construction joint between the downstream face of the low water crossing and the spillway apron, exposed and corroded reinforcing steel was observed on the spillway slab:*

Corroded steel should be replaced/repared. Spalled concrete should be repaired, and cracks sealed with a flexible water-resistant sealant.

- f. *Seepage: seepage was observed at the toe of the downstream slope extending across the middle third of the embankment's length.*

The downstream toe area should be routinely monitored for seepage. The normal amount should be estimated, and the seepage monitored at least monthly for any increase, especially if there is no corresponding rise in reservoir elevation. Recording seepage rates and corresponding reservoir level observations in a maintenance log will help identify potentially critical areas where water may be seeping through the embankment or foundation; extra care should be taken to detect seepage when reservoir levels are high.

If seepage location(s) move (or emerge) high up on the embankment and/or historic seepage flowrates should increase drastically or include suspended soil (fines) or boils, then it is possible/likely that a piping condition exists and your PE, as well as TCEQ Dam Safety, should be contacted immediately. The reservoir may need to be lowered or drained to prevent an emergency situation from developing.

- g. Burrows and Hog Damage: extensive feral hog damage was observed on the downstream slope, burrows and trails were observed on the downstream slope.*

The noted animal burrows should be backfilled with properly compacted non-dispersive clay, and a vegetative cover should be established. Burrowing activity can create flow paths and can otherwise weaken the integrity of the embankment. Additionally, the noted hog damage destroys the dam's protective vegetative cover and exposes the embankment material, which could lead to erosion. Assistance in removing nuisance animals can be obtained from the Texas Wildlife Services Program. Nuisance animals should be discouraged from inhabiting the dam.

If conditions worsen with any of the deficiencies, then a PE should be consulted to determine the level of damage and recommend repairs/improvements, if needed.


5. If the property and dam are sold, the new owner's name and address are required to be provided to TCEQ.

CONCLUSIONS

The owner of this dam may be liable for downstream damages in the event of a spill or breach. It is the owner's responsibility to maintain the dam in a safe condition in order to prevent loss of life and limit the potential for property loss. In addition, regular maintenance may reduce future rehabilitation and repair costs. This structure will be scheduled for reinspection in 5 years, or in conjunction with any modifications.



Warren D. Samuelson, P.E.
Manager, Dam Safety Section
Critical Infrastructure Division



Dan Yates, P.E.
Dam Safety Section
Critical Infrastructure Division

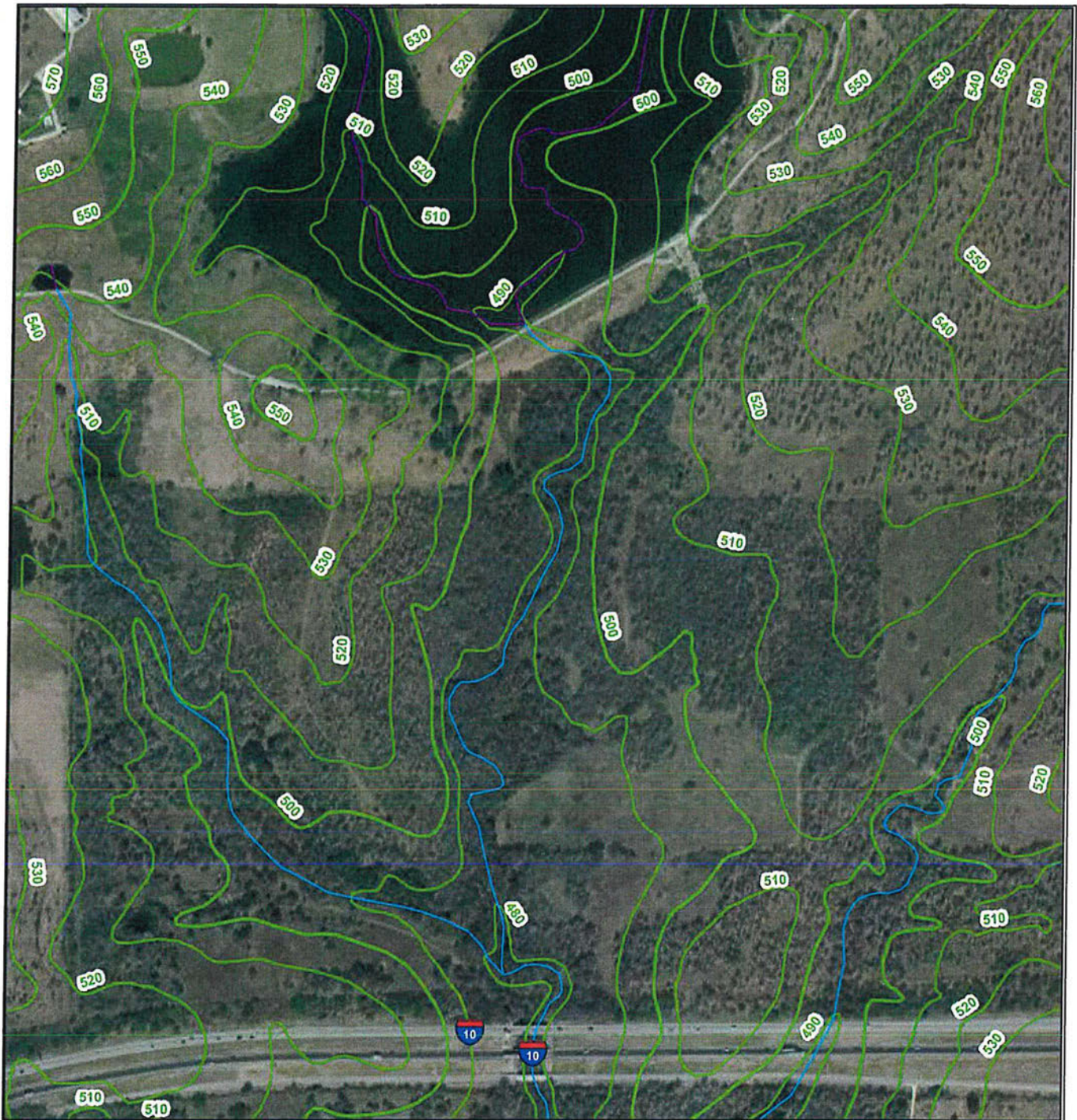


0 1 2 4 Miles



**Figure 1 - Location Map
Broken Oak Dam TX07548**

This map was generated by the Critical Infrastructure Division of the Texas Commission on Environmental Quality. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map contact the Critical Infrastructure Division at 512-239-1510.

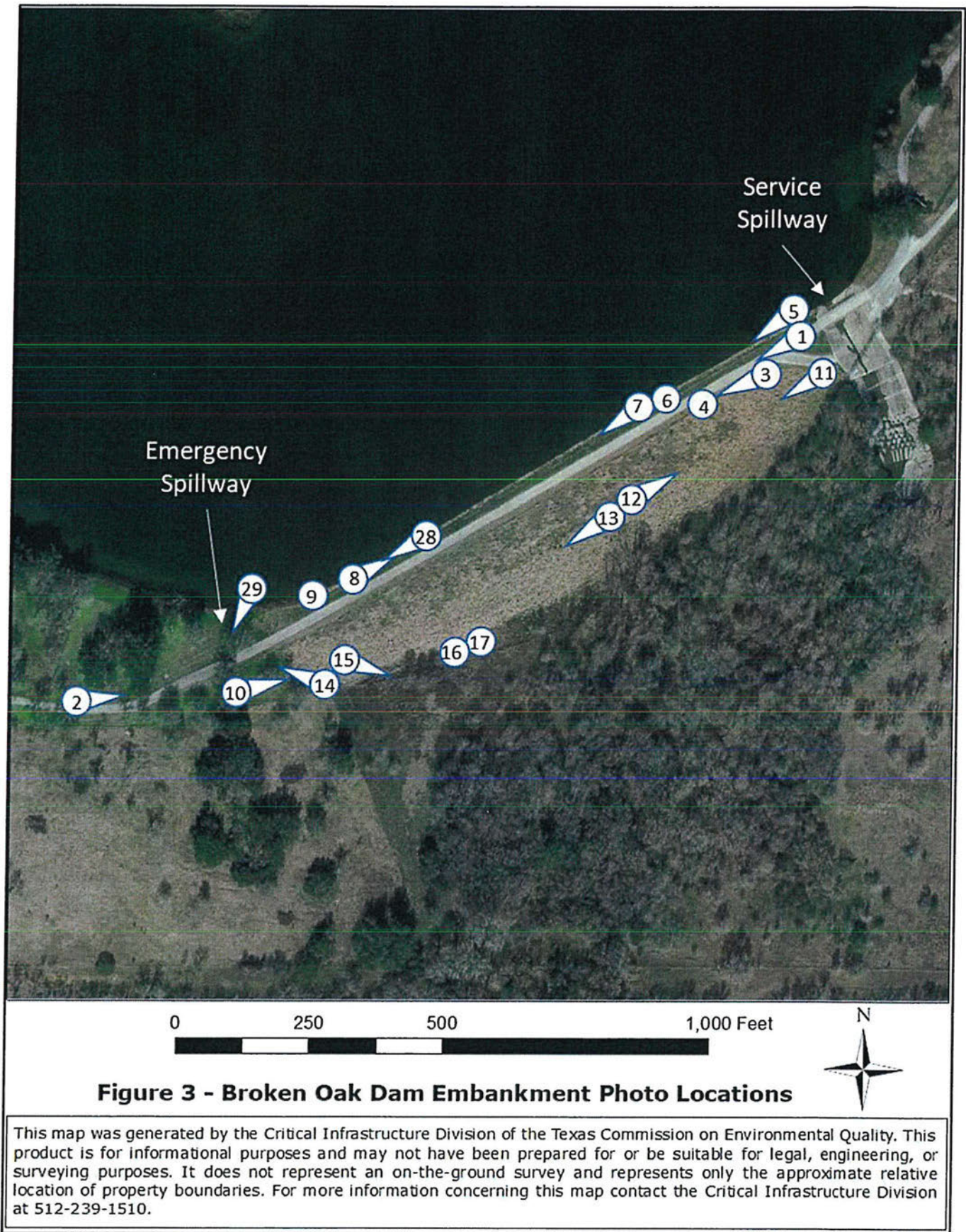


0 750 1,500 3,000 Feet



Figure 2 - Broken Oak Dam 10-foot Contours

This map was generated by the Critical Infrastructure Division of the Texas Commission on Environmental Quality. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map contact the Critical Infrastructure Division at 512-239-1510.





0 75 150 300 Feet



Figure 4 - Broken Oak Dam Service Spillway Photo Locations

This map was generated by the Critical Infrastructure Division of the Texas Commission on Environmental Quality. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map contact the Critical Infrastructure Division at 512-239-1510.



Photo 1 – Crest. At service spillway. Looking right. Note cracking in asphalt concrete.



Photo 2 – Crest. At right end of emergency spillway. Looking left.



Photo 3 – Crest. Looking right. Note asphalt concrete cracking.

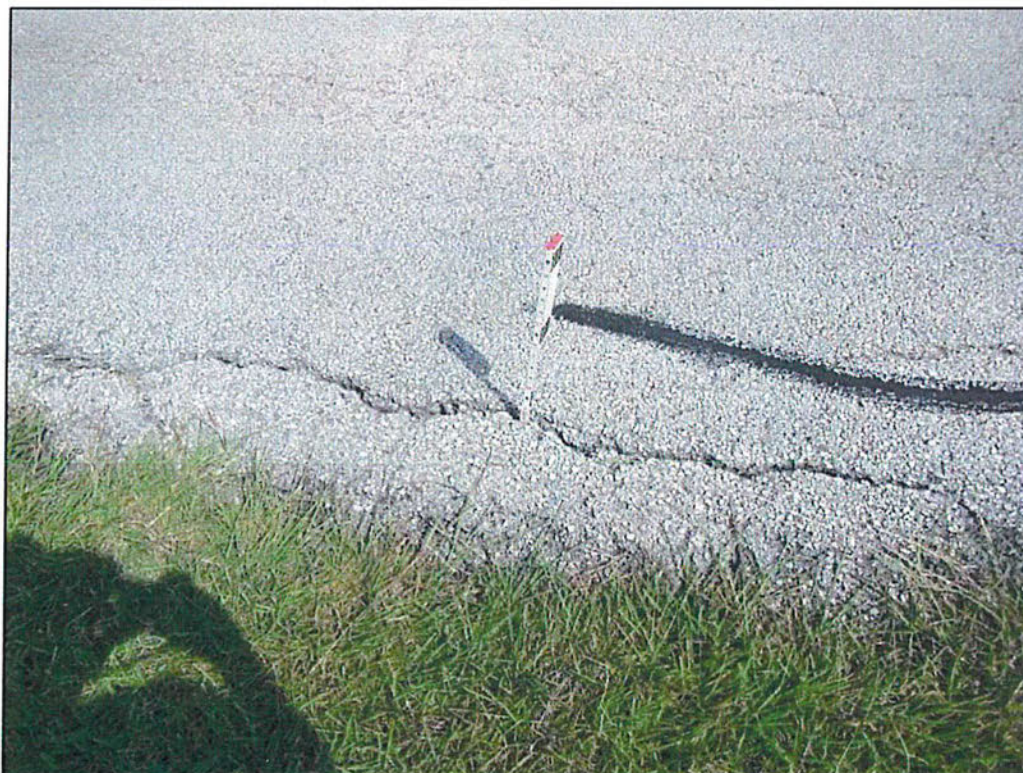


Photo 4 – Crest. Typical cracking. Probed to 4 inches.

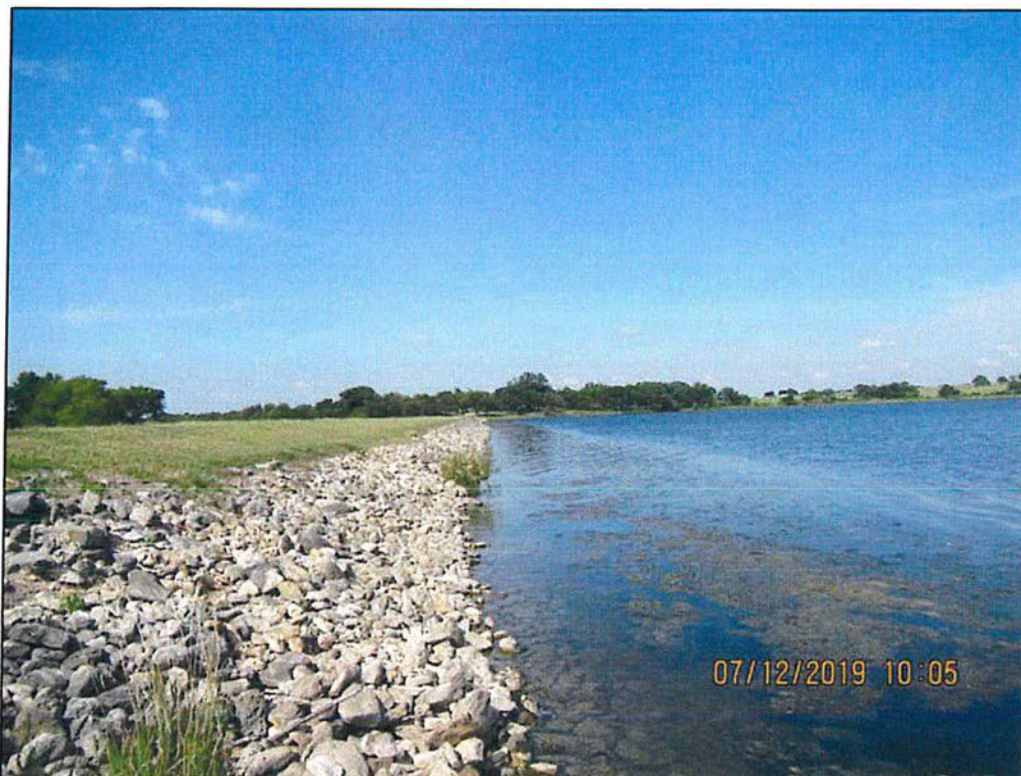


Photo 5 – Upstream slope. At service spillway. Looking right. Note minor vegetation in riprap.



Photo 6 – Upstream slope. Displaced riprap and exposed embankment.



Photo 7 – Upstream slope. Looking right. Note displaced riprap and benching erosion.



Photo 8 – Upstream slope. Mid embankment. Looking left. Note displaced riprap and benching.

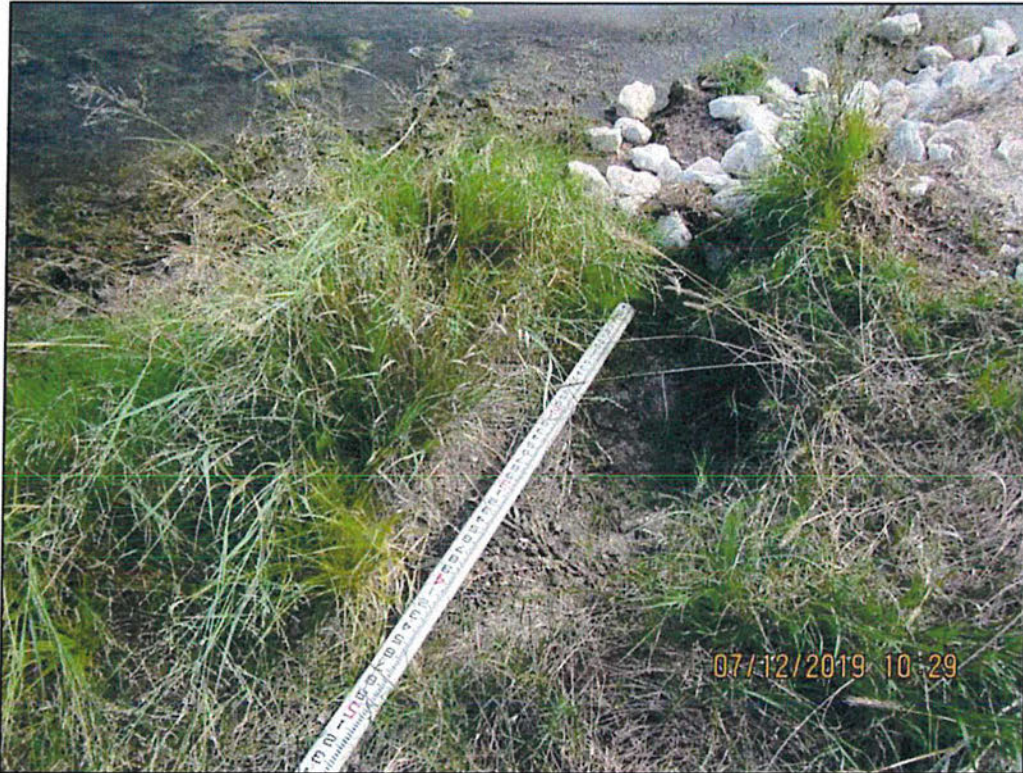


Photo 9 – Upstream slope. At right end of riprap section. Note erosion.



Photo 10 – Downstream slope. At right end of dam. Looking left.



Photo 11 – Downstream slope. At service spillway. Looking right.



Photo 12 – Downstream slope. Mid embankment. Looking left. Note trees and brush.



Photo 13 – Downstream slope. Mid embankment. Looking right. Note trees and brush.



Photo 14 – Downstream slope. Near right end. Looking upstream and to right. Note hog damage.



Photo 15 – Downstream slope toe. Near right end. Looking downstream. Note hog damage.



Photo 16 – Downstream toe. Mid dam. Note seepage.



Photo 17 – Downstream toe. Seepage. Note animal activity.



Photo 18 – Downstream slope. Typical animal burrow.



Photo 19 – Service spillway. At left end looking right.



Photo 20 – Service spillway. Upstream culvert inlet. Eighteen 2-foot circular concrete culvert pipes.



Photo 21 – Service spillway. Upstream side. Note typical gaps in construction joint.



Photo 22 – Service spillway. Culvert pipe outlet at right end. Note spalling, cracks, voids, open joints, exposed reinforcing steel.



Photo 23 – Service spillway. At right side looking upstream. 8-foot fence with flap gate sections. Note corrosion.

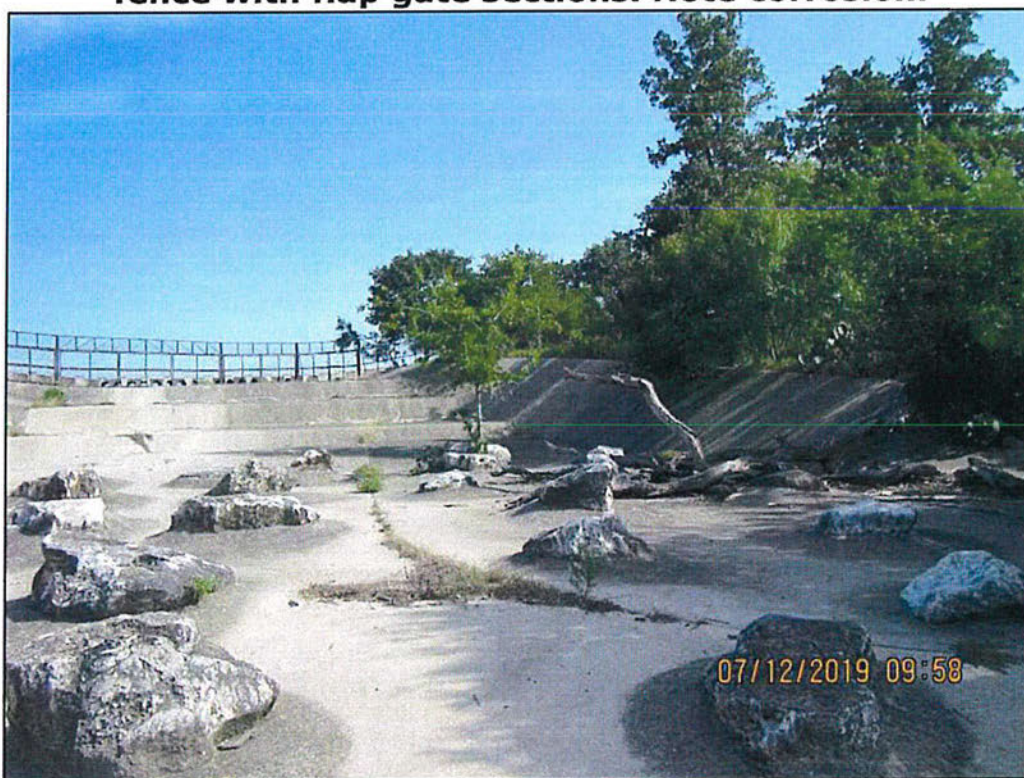


Photo 24 – Service spillway. Looking upstream. Note vegetation.



Photo 25 – Service spillway. At downstream end. Note undermining erosion.



Photo 26 – Service spillway. At downstream end. Note undermining erosion.



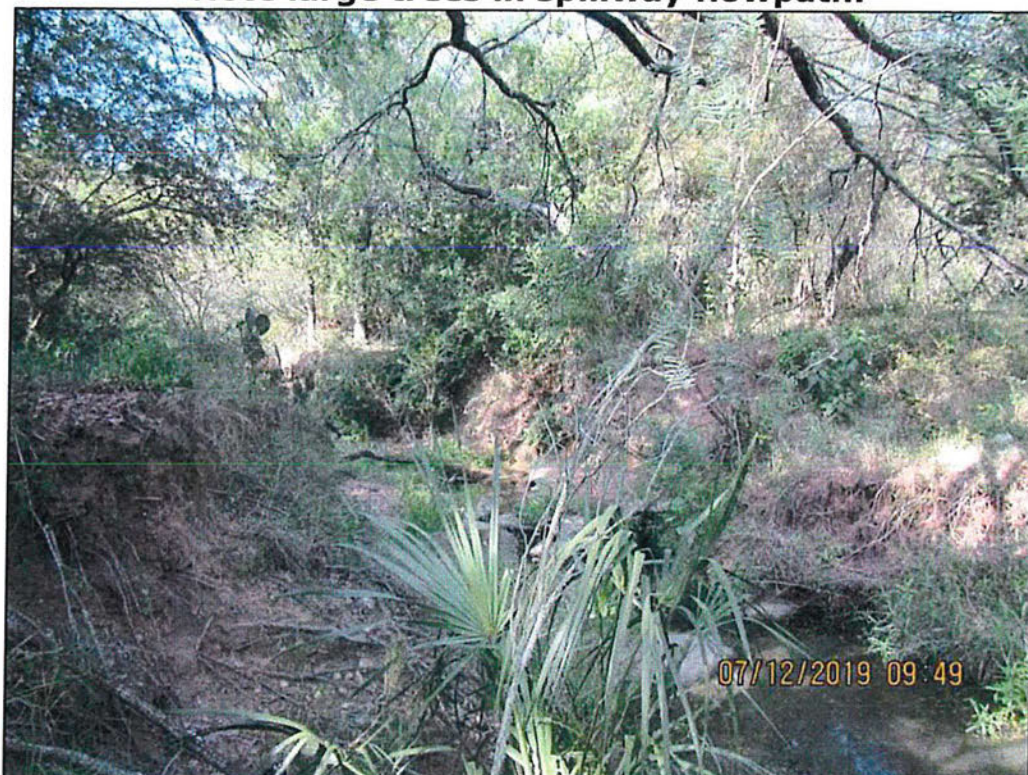
Photo 27 – Service spillway. At downstream end. Undermining erosion probed to 4.5 feet.



Photo 28 – Emergency spillway. At mid dam looking right.



**Photo 29 – Emergency spillway approach. Looking downstream.
Note large trees in spillway flowpath.**



**Photo 30 – Downstream channel. At edge of concrete spillway.
Looking downstream. Note erosion.**



[January 26, 2022]

[Name]

[Address 1]

[Address 2]

**Subject: Kiteboard Ranch, LLC
Application for Water Rights Permit
Guadalupe County, Texas**

Dear Mr./Ms. _____,

Kiteboard Ranch, LLC (Kiteboard Ranch) is the owner of ~640-acre Broken Oak Ranch which is located two (2) miles southwest of the City of Kingsbury and north of Interstate 10 in Guadalupe County, Texas. There is an existing lake on the property that is part of the drainage conveyance system on Long Branch in the Guadalupe River Basin. As part of the proposed plan for development, which includes the reuse of the lake for recreational purposes, Westward Environmental, Inc. (WESTWARD) has applied for a Water Rights Permit on behalf of Kiteboard Ranch.

WESTWARD is pursuing this application with the Texas Commission on Environmental Quality (TCEQ) to appropriate State Water by utilizing private onsite groundwater wells to replace water loss due to evaporation thereby maintaining the water levels of the existing lake. There will be no consumptive use or impoundment of State Water.

Notification of the application is being sent to all of the Water Rights holders in the Guadalupe River Basin as well as to all members of the Guadalupe County Commissioners Court. If you have any questions regarding this application, you may contact our office at 830-249-8284.

Respectfully Submitted,
WESTWARD ENVIRONMENTAL, INC.

Curt G. Campbell, PE, CFM
VP Engineering & Natural Resources
TX License No. 106851 | TX Firm No. 4524

OFFICE P.O. Box 2205 Boerne, TX 78006

Texas Registered **ENGINEERING** Firm # F-4524



MAIN 830.249.8284 | FAX 830.249.0221

Texas Registered **GEOSCIENCE** Firm # 50112

westwardenv.com

SPECIAL WARRANTY DEED

STATE OF TEXAS §
 § KNOW ALL MEN BY THESE PRESENTS
COUNTY OF GUADALUPE §

Pursuant to the provisions of the Bankruptcy Court Order attached hereto as Exhibit "A", which is incorporated herein by reference as if set forth in full for all purposes, OLMOS COMPANIES 1, LLC ("Grantor"), for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of all consideration are hereby acknowledged, has GRANTED, SOLD AND CONVEYED and by these presents does GRANT, SELL, AND CONVEY unto KITEBOARD RANCH, LLC, a Texas limited liability company ("Grantee"), that certain real property located in Guadalupe County, Texas, being more particularly described on Exhibit "B" attached hereto and fully made a part hereof (the "Land"), together with all of Grantor's improvements located thereon and all rights and appurtenances thereto in anywise belonging to Grantor, including but not limited to, all rights, titles and interests, if any, of Grantor in (a) any land lying in or under the bed of any highway, avenue, street, road, alley, open or proposed, in, on, across, abutting or adjacent to the Land, but only from the Land to the center line of such highway, avenue, street, road, or alley; and (b) all rights, titles and interests of Grantor, if any, in and to any awards made, or to be made in lieu thereof, for damage by reason of change in grade of any such highway, avenue, street, road or alley with respect to the Land only (all of said Land, property and interest being collectively referred to herein as the "Property"), subject, however, to those matters described on Exhibit "C" attached hereto and fully made a part hereof (the "Permitted Exceptions").

TO HAVE AND TO HOLD the above described Property, subject to the Permitted Exceptions, together with any and all the rights and appurtenances thereto in anywise belonging to Grantor, unto the said Grantee, their legal representatives, successors and assigns FOREVER, and Grantor does hereby bind himself and its legal representatives, successors and assigns to WARRANT AND FOREVER DEFEND all and singular the Property unto the said Grantee, their successors, legal representatives and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Grantor, but not otherwise.

It is expressly agreed and stipulated that the vendor's lien and superior title are retained against the above described property, premises and improvements until the above described note and all interest thereon shall be fully paid according to its face, tenor, effect and reading, when this deed shall become absolute.

THIS CONVEYANCE IS MADE WITHOUT RECOURSE (EVEN AS TO THE RETURN OF THE PURCHASE PRICE), REPRESENTATION OR WARRANTY (EXCEPT AS TO THE SPECIAL WARRANTY OF TITLE CONTAINED HEREIN) OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY AND GRANTOR IS TRANSFERRING THE PROPERTY COVERED HEREBY AS IS, WHERE IS, AND WITH ALL FAULTS, AND WITHOUT REPRESENTATIONS OR WARRANTY (ALL OF WHICH GRANTOR HEREBY DISCLAIMS) (EXCEPT AS TO THE WARRANTIES, COVENANTS AND

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FILED BY PRESIDIO TITLE

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SS: SS:

COUNTY OF GUADALUPE

THIS CONVEYANCE IS MADE WITHOUT RECOURSE (EVEN AS TO THE RETURN OF THE PURCHASE PRICE), REPRESENTATION OR WARRANTY (EXCEPT AS TO THE SPECIAL WARRANTY OF TITLE CONTAINED HEREIN) OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY AND GRANTOR IS TRANSFERRING THE PROPERTY COVERED HEREBY AS IS, WHERE IS, AND WITH ALL FAULTS, AND WITHOUT REPRESENTATIONS OR WARRANTY (ALL OF WHICH GRANTOR HEREBY DISCLAIMS) (EXCEPT AS TO THE WARRANTIES, COVENANTS AND

REPRESENTATIONS EXPRESSLY MADE HEREIN) AS TO FITNESS FOR ANY PARTICULAR PURPOSE, MERCHANTABILITY, DESIGN, QUALITY, LAYOUT, FOOTAGE, PHYSICAL CONDITION, OPERATION, COMPLIANCE WITH SPECIFICATIONS, ABSENCE OF LATENT DEFECTS, OR COMPLIANCE WITH LAWS AND REGULATIONS (INCLUDING, WITHOUT LIMITATION, THOSE RELATING TO HEALTH, SAFETY AND THE ENVIRONMENT) OR ANY OTHER MATTER AFFECTING OR RELATED TO THE PROPERTY. GRANTEE ACKNOWLEDGES THAT, BY ACCEPTING THIS DEED, GRANTOR HAS NOT, (EXCEPT AS TO THE WARRANTIES, COVENANTS AND REPRESENTATIONS EXPRESSLY MADE HEREIN, MADE, DOES NOT MAKE AND SPECIFICALLY DISCLAIMS ALL REPRESENTATION AND WARRANTIES AS TO WATER, SOIL OR GEOLOGY OF THE PROPERTY AND AS TO INCOME TO BE DERIVED FROM THE PROPERTY. WITHOUT LIMITING THE FOREGOING (EXCEPT AS TO THE WARRANTIES, COVENANTS AND REPRESENTATIONS EXPRESSLY MADE HEREIN, INCLUDING, WITHOUT LIMITATION THOSE SET FORTH IN THIS CONTRACT), GRANTOR DOES NOT AND HAS NOT MADE ANY REPRESENTATION OR WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ANY HAZARDOUS SUBSTANCES (AS HEREINAFTER DEFINED) ON, UNDER OR ABOUT THE PROPERTY OR THE COMPLIANCE OR NONCOMPLIANCE OF THE PROPERTY WITH THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT, THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT, THE RESOURCE CONSERVATION RECOVERY ACT, THE FEDERAL WATER POLLUTION CONTROL ACT, THE FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT, THE CLEAN WATER ACT, THE CLEAN AIR ACT, THE TEXAS NATURAL RESOURCES CODE, THE TEXAS WATER CODE, THE TEXAS SOLID WASTE DISPOSAL ACT, THE TEXAS HAZARDOUS SUBSTANCES SPILL PREVENTION AND CONTROL ACT, ANY SO CALLED FEDERAL, STATE OR LOCAL "SUPERFUND" OR "SUPERLIEN" STATUTE, OR ANY OTHER STATUTE, LAW, ORDINANCE, CODE, RULE, REGULATION, ORDER OR DECREE REGULATING, RELATING TO OR IMPOSING LIABILITY (INCLUDING STRICT LIABILITY) OR STANDARDS OF CONDUCT CONCERNING ANY HAZARDOUS SUBSTANCES (COLLECTIVELY, THE "HAZARDOUS SUBSTANCE LAWS"). FOR PURPOSES OF THIS AGREEMENT, THE TERM "HAZARDOUS SUBSTANCES" SHALL MEAN AND INCLUDE THOSE ELEMENTS OR COMPOUNDS WHICH ARE CONTAINED ON THE LIST OF HAZARDOUS SUBSTANCES ADOPTED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND THE LIST OF TOXIC POLLUTANTS DESIGNATED BY CONGRESS OR THE ENVIRONMENTAL PROTECTION AGENCY OR UNDER ANY HAZARDOUS SUBSTANCE LAWS. GRANTEE HEREBY FURTHER ACKNOWLEDGES AND AGREES THAT, BY ACCEPTING THIS DEED, IT IS, EXCEPT AS TO THE WARRANTIES, COVENANTS AND REPRESENTATIONS EXPRESSLY MADE HEREIN, RELYING SOLELY UPON THE INSPECTION, EXAMINATION, AND EVALUATION OF THE PROPERTY BY GRANTEE. THE PURCHASE PRICE IS A NEGOTIATED PURCHASE PRICE REPRESENTING THE FACT THAT THE PROPERTY IS BEING PURCHASED BY GRANTEE ON AN "AS IS," "WHERE IS" AND "WITH ALL FAULTS" BASIS. THE EXPRESS INTENTION OF GRANTEE AND GRANTOR IS THAT GRANTEE SHALL PURCHASE THE PROPERTY FROM GRANTOR WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, FROM OR OF GRANTOR (OTHER THAN THE EXPRESS WARRANTIES, COVENANTS AND REPRESENTATIONS OF GRANTOR SET

FORTH IN THE CONTRACT AND OTHER THAN THE SPECIAL WARRANTIES HEREIN). GRANTEE HEREBY WAIVES AND RELINQUISHES ALL RIGHTS AND PRIVILEGES ARISING OUT OF, OR WITH RESPECT, OR IN RELATION TO, ANY REPRESENTATION OR WARRANTY, WHETHER EXPRESS OR IMPLIED, WHICH MAY HAVE BEEN MADE OR GIVEN, OR WHICH MAY BE DEEMED TO HAVE BEEN MADE OR GIVEN, BY GRANTOR OTHER THAN THE SPECIAL WARRANTIES IN THIS SPECIAL WARRANTY DEED). WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, GRANTEE HEREBY ASSUMES ALL RISK AND LIABILITY (AND AGREES THAT GRANTOR SHALL NOT BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL, OR OTHER DAMAGES) RESULTING OR ARISING FROM OR RELATING TO THE OWNERSHIP, USE, CONDITION, LOCATION, MAINTENANCE, REPAIR, OR OPERATION OF THE PROPERTY, EXCEPT AS OTHERWISE PROVIDED HEREIN. GRANTEE ACKNOWLEDGES THAT GRANTEE HAS INSPECTED THE PROPERTY AND HAS ACCEPTED THE PROPERTY "AS IS", "WHERE IS" AND "WITH ALL FAULTS." GRANTOR IS NOT LIABLE OR BOUND IN ANY MANNER BY ANY VERBAL OR WRITTEN STATEMENTS, REPRESENTATIONS, OR INFORMATION PERTAINING TO THE PROPERTY FURNISHED BY ANY REAL ESTATE BROKER, AGENT, EMPLOYEE, SERVANT OR OTHER PERSON, UNLESS THE SAME ARE SPECIFICALLY SET FORTH OR REFERRED TO HEREIN, AND GRANTOR SHALL NOT BE LIABLE OR BOUND IN ANY MANNER BY ANY STATEMENT OR INFORMATION CONTAINED IN ANY REPORT PROVIDED PURSUANT TO THIS DEED AND PRIOR AGREEMENTS, OR ANY OMISSION WITH RESPECT TO ANY SUCH REPORT. IT IS UNDERSTOOD AND AGREED THAT THE PURCHASE PRICE HAS BEEN ADJUSTED BY PRIOR NEGOTIATION TO REFLECT THAT ALL PROPERTY IS SOLD BY GRANTOR SUBJECT TO THE FOREGOING.

By accepting this deed, GRANTEE has agreed that and understands that Grantor shall not be responsible or liable to GRANTEE for any defects, errors, omissions, or on account of any other conditions affecting the Property, and because GRANTEE is purchasing the Property AS IS, WHERE IS, and WITH ALL FAULTS, GRANTEE hereby fully, irrevocably and unconditionally releases and discharges the Grantor and, as applicable, its officers, directors, successors, assigns, administrator(s), trustees, agents, attorneys, employees and representatives (collectively, the "Grantor Parties") from, and GRANTEE hereby waives and relinquishes any claims that GRANTEE may ever have against the Grantor and Grantor Parties for, any cost, loss, liability, damage, and expense arising out of or related to any alleged representations (other than those expressly made herein, including, without limitation those set forth in this Agreement), or warranties, whether express or implied, which may have been made or given, or which may be deemed to have been given by Grantor Parties (Grantor having specifically disclaimed having made any such representations or warranties), or any defects or other conditions affecting the Property, including, without limitation, claims arising out of the presence of Hazardous Substances on the Property or any other past, present or future physical or environmental condition of the Property. THE RELEASE AND WAIVER CONTAINED IN THIS SECTION SHALL APPLY AND BE ENFORCEABLE AS A DEFENSE AGAINST ANY CLAIMS MADE BY GRANTEE (OR GRANTEE'S SUCCESSORS AND ASSIGNS) EXCEPT AS PROVIDED IN THE CONTRACT AND THIS DEED, and such release and waiver shall be given full force and effect according to each of its express terms and provisions, whether the causes of action are in the nature of fraud,

tort or breach of Contract, choate or inchoate, or relating to unknown and suspected claims, damages or losses.

Ad valorem taxes applicable to the Property have been paid up to and including the year 2018 and ad valorem taxes applicable to the Property for the year 2019 have been prorated by Grantor and Grantee as of the date of this Special Warranty Deed. Subject to any rights regarding reallocation of said pro-rations contained in any document executed between Grantor and Grantee, Grantee hereby assumes payment of ad valorem taxes for the year 2019 and each year thereafter.

This deed is being executed in original counterparts which will be recorded in the office of the County Clerk of Guadalupe County, Texas.

EXECUTED AND EFFECTIVE as of November 19, 2019.

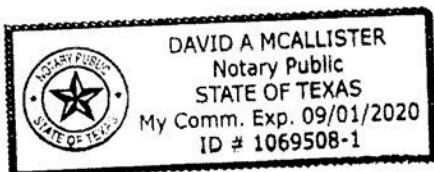
GRANTOR:

Olmos Companies 1, LLC

By: 
Larry Struthoff, Managing Member

STATE OF TEXAS §
COUNTY OF BEXAR §

This instrument was acknowledged before me on November 18, 2019 by Larry Struthoff in his capacity as Managing Member of Olmos Companies 1, LLC and on behalf of said limited liability company.





Notary Public for the State of Texas

EXHIBIT "A"



IT IS HEREBY ADJUDGED and DECREED that the below described is SO ORDERED.

Dated: November 14, 2019.

Craig A. Gargotta

**CRAIG A. GARGOTTA
UNITED STATES BANKRUPTCY JUDGE**

**IN THE UNITED STATES BANKRUPTCY COURT
FOR THE WESTERN DISTRICT OF TEXAS
SAN ANTONIO DIVISION**

IN RE:	§	CASE NO. 19-51098-CAG
OLMOS COMPANIES 1, LLC	§	
	§	CHAPTER 11 PROCEEDING
Debtor	§	

**ORDER GRANTING DEBTOR OLMOS COMPANIES 1, LLC'S MOTION FOR
EXPEDITED AUTHORITY TO SELL ASSETS FREE AND CLEAR OF
LIENS AND CLAIMS**

On November 1st, 2019, Olmos Companies 1, LLC ("Olmos" or the "Debtor") filed its Motion for Expedited Authority to Sell Assets Free and Clear of Liens and Claims (the "Sale Motion"). In the Sale Motion, the Debtor sought authority for the Debtor to sell substantially all of Olmos' assets (the "Property") to Steven Yacktman or his assignee Kiteboard Ranch, LLC (the "Purchaser") pursuant to the sales contract (the "Contract"), a copy of which was attached to the Sale Motion as Exhibit "A". Unless otherwise defined in this Order, capitalized terms used herein shall have the meanings ascribed to them in the Contract. On November 13th, 2019, a hearing (the "Sale Hearing") was held to consider the Debtor's request for entry of an order approving the Sale Motion and any timely filed objections.

The Court, having reviewed the Sale Motion and the record in this case and having

considered argument of counsel and evidence presented at the Sale Hearing finds that the Sale Motion is in the best interest of the Debtor and its estate. As a result, for good cause shown, and the reasons stated by the Court on the record at the Sale Hearing (which are incorporated herein by reference), the Court finds as follows:

A. The Debtor has continued in possession of its property and is operating its business as a Debtor-in-possession pursuant to Sections 1107(a) and 1108 of the Bankruptcy Code.

B. This Court has jurisdiction over this matter and the parties and property affected thereby, pursuant to 28 U.S.C. §§ 157 and 1334, 11 U.S.C. §§ 363 and 365, and Fed. R. Bankr. P. 2002, 6004, 9007 & 9014. This is a core proceeding within the meaning of 28 U.S.C. § 157(b)(2)(A), (M), (N) and (O). Venue is proper pursuant to 28 U.S.C. §§ 1408 and 1409.

C. Due and adequate notice of the filing of the Sale Motion and the Sale Hearing was given by service of the Sale Motion and notices of the hearing. Notice of the Sale Motion and Sale Hearing was reasonably calculated to provide all interested parties with timely and proper notice of the same. As evidenced by the certificate of service previously filed with the Court, proper, timely, adequate and sufficient notice of the Sale Motion and Sale Hearing and the transactions contemplated thereby was provided in accordance with the orders previously entered by this Court, section 105(a) and 363 of the Bankruptcy Code and Bankruptcy Rules 2002, 6006, 9007 and 9014. The notices described herein were good, sufficient and appropriate under the circumstances, and no other or further notice of the Sale Motion, Sale Hearing, or the sale approved herein is or shall be required. Notice was adequate and sufficient under the circumstances of the case, and such notice complied with all applicable requirements of the Bankruptcy Code, the Federal Rules of Bankruptcy Procedure, and the Local Rules of this Court.

D. The Debtor has established that there are sufficient business justifications to authorize the sale of the Property prior to or after confirmation of a Chapter 11 plan.

E. The terms of the Contract and the temporary real property lease attached thereto are fair and reasonable and the transactions contemplated thereunder reflect the Debtor's prudent business judgment under all of the relevant circumstances and will result in the highest possible sales price for the Debtor's estate and creditors thereof. The proposed transactions contemplated in the Contract, as modified herein, are in the best interests of the Debtor, creditors and interested parties.

F. The Debtor has good title to the Property. The Debtor and the Purchaser are not affiliates of one another within the meaning of §101(2) of the Bankruptcy Code. Both the Debtor and the Purchaser have represented to the Court that Purchaser is a good faith purchaser. The Purchaser, as transferee of the Property, constitutes a good faith purchaser under Section 363 of the Bankruptcy Code, and the Purchaser is entitled to all of the protections of Section 363(m) of the Bankruptcy Code afforded to a good faith purchaser. Neither the Debtor nor the Purchaser have engaged in any conduct that would cause or permit the Contract to be avoided under §363(n) of the Bankruptcy Code.

G. The following are the undisputed lienholders on the Property:

1. Taxing authorities, including but not limited to Guadalupe County, Texas.
2. II C.B., L.P. (sometimes referred to as "II C.B."), its successor and assigns, as the successor to Ellis Management Company d/b/a Ellis Equity Lending¹, in connection with the \$3,750,000.00 Promissory Note dated January 23rd, 2019, the Security Agreement filed on

¹ The Transfer of Note and Lien was recorded in the Real Property Records of Guadalupe County, Texas under Clerk's File Number 201999003127 on February 13, 2019.

January 28th, 2019, and the Deed of Trust and Security Agreement that was recorded in the Real Property Records of Guadalupe County, Texas under Clerk's File Number 2019999001799, and which documents are all attached to II C.B., L.P.'s secured proof of claim number 7 on file in this case. II C.B., L.P. is a perfected lienholder against the Property and is an oversecured creditor. Debtor has made no payments on the \$3,750,000.00 Promissory Note since execution of the \$3,750,000.00 Promissory Note on January 23, 2019. In connection with the foregoing secured debt, Larry Dean Struthoff executed a Guaranty Agreement in favor of the lender, and a copy of that document is also attached to II C.B., L.P.'s secured proof of claim number 7.

Accordingly, **IT IS HEREBY ORDERED, ADJUDGED, AND DECREED, AS FOLLOWS:**

1. The Sale Motion is granted for the Purchaser referenced in the Contract and is based upon the terms and conditions set forth in the Contract and herein. In connection herewith, all objections to the Sale Motion that have not been withdrawn, resolved, waived or settled are overruled on the merits.

2. The Contract is approved in all respects, and the Debtor is authorized to sell the Property to the Purchaser specified herein and only on terms and conditions in accordance with those set forth in the Contract. The terms and provisions of the Contract are hereby approved as if fully set forth and incorporated herein; provided, however, that the terms and conditions of this Order shall control in the event of any conflict with the terms and conditions of the Contract.

3. The Debtor's sale of the Property to the Purchaser in accordance with this Order and the Contract, pursuant to Section 363 of the Bankruptcy Code, shall be free and clear of any and all liens, claims, encumbrances, and other interests, with any and all such liens, claims, encumbrances, and other interests attaching to the net proceeds of the sale in the same validity and

in the same order of priority as in the underlying Property. The claims, liens, encumbrances, and other interests, if any, asserted by any person or entity in or to any of the purchase price proceeds shall be in the same priority and subject to the same infirmities and defenses as existed with respect to the claims, liens, encumbrances, and other interests in the Property prior to the sale.

The ad valorem tax liens for 2019 and prior years pertaining to the Property shall attach to the sales proceeds and Presidio Title Company (the "Title Company") shall pay all ad valorem tax debt owed incident to the Property immediately upon closing and prior to any disbursement of proceeds to any other person or entity. Furthermore, in the event that the sale of the Property does not occur in 2019, then the ad valorem tax liens for year 2020 shall attach to the sales proceeds to secure payment of the Debtor's pro rata share of the 2020 ad valorem taxes.

The ad valorem taxes for year 2019 (or 2020 if applicable) pertaining to the Property shall be prorated in accordance with the Contract and shall become the responsibility of the Purchaser and the year 2019 (or 2020 if applicable) ad valorem tax lien shall be retained against the subject property until said taxes are paid in full.

4. Notwithstanding anything to the contrary in this Order, the Debtor is authorized, through the Title Company consummating the sale, to pay or satisfy at the Closing: (a) all allowed ad valorem taxes for 2019 (or 2020 if applicable) and prior years; (b) the \$288,000.00 real estate commission due and owing to Kuper Sotheby's Realty and the Purchaser's broker pursuant to the provisions of the Contract; and (c) the allowed claim of II C.B., L.P. in the amount of \$4,218,820.70 (as of November 18, 2019, with per diem accruing thereafter at the rate of \$1,592.47). Furthermore, at Closing, the Debtor, either directly or through the Title Company, is authorized and shall pay \$46,200.00 to the United States Trustee for quarterly fees for the first and second quarter 2019 and as an estimate for the quarterly fee for the third quarter 2019. The

payment shall be sent to the Office of the U.S. Trustee, Attn: Brian Henault, 903 San Jacinto, Room 230, Austin, TX 78701.

5. The Debtor and its representatives shall and are authorized to (a) perform and consummate the transactions contemplated by the Contract, (b) execute and deliver all documents and instruments thereby required and (c) transfer to the Purchaser, or an affiliated special purpose entity designated by the Purchaser, all right, title, and interest in and to the Property.

6. Pursuant to Sections 105(a) and 363 of the Bankruptcy Code, Bankruptcy Rule 7070 and Fed. R. Civ. Pro. 70, this Order shall and does, as of the Closing Date and the payment of the consideration described in the Contract and compliance with all terms and conditions of the Contract, divest the Debtor and its estate of all right, title, and interest in the Property and vest good, valid and marketable title in and to the Property in the Purchaser, or an affiliated special purpose entity designated by the Purchaser, free and clear of any and all liens, mortgages, security interests, pledges, hypothecations, encumbrances, restrictions, reservations, encroachments, infringements, easements, conditional sale agreements, title retention or other security arrangements, defects of title, adverse rights or interests, charges or claims of any nature whatsoever.

7. II C.B., L.P. and its successors and assigns, secured creditor and lienholder, shall be paid in full at Closing according to the terms herein, and if the sales proceeds are insufficient to do so, the sale to the Purchaser shall not close. If there are insufficient funds to pay II C.B., L.P. in full at closing, the Debtor shall be required to seek further orders from this Court prior to conveying the Property in any manner. Solely for the sale to Purchaser that is set forth in the Sale Motion and that is referenced in this Order, and without waiving any of its rights and remedies and without having made any admissions herein and without the terms of this Order being used by

Debtor or anyone else against II C.B., L.P. if the sale to Purchaser is not consummated, II C.B., L.P. has agreed to accept less than full payment of its asserted oversecured debt in connection with the sale to the Purchaser. If the sale is consummated and the Property sold to Purchaser by December 2nd, 2019 and the funds are received by Presidio Title as of that date, II C.B., L.P. will agree to be paid its pre-petition debt of \$3,899,679.89 plus a reduced post-petition default interest rate of 15.5%² (from and including May 6th, 2019 through the date of closing) plus reasonable post-petition attorneys' fees and costs³ through the date of consummated sale and closing in full satisfaction of its secured debt and will agree to waive any remaining deficiency against Debtor and Larry Dean Struthoff in his capacity as guarantor of the II C.B., L.P. debt. However, in the event that the sale to the Purchaser is not consummated according to the terms of the Contract or does not close by December 2nd, 2019, II C.B., L.P. may continue to assert its post-petition default rate of interest, shall not be required to accept a lower interest rate in this case or at any other time, and no person or entity may use II C.B., L.P.'s agreement to a reduced interest rate in connection with the particular sale referenced in this Order against II C.B., L.P. in any manner at any future date in connection with any proceeding or dispute between the various parties involved in this case. Nothing in this Order shall prevent II C.B., L.P. or its successors and assigns from seeking relief from the automatic stay or be deemed to constitute a waiver of any of II C.B., L.P.'s rights to seek further relief from this Court.

8. If any person or entity that has filed financing statements, liens or other documents

² II C.B., L.P. has asserted that its post-petition default rate of interest has been 18% since the filing of this case.

³ II C.B., L.P. has already filed two Notices of Post-Petition Mortgage Fee notices with the Court as supplements to its secured claim number 7. The total of those fees and costs are \$7,611.56 (\$4,547.91 and \$3,063.65) as of November 10, 2019. II C.B., L.P. has and will continue to incur additional attorneys' fees between November 11, 2019 and the date that the sale is consummated and the funds are received from the Purchaser. II C.B., L.P. shall be paid its additional attorneys' fees and costs through the date of the closing and shall provide Debtor's counsel with a copy of the detailed time records to substantiate the fees and costs.

or agreements evidencing liens on or interests in the Property shall not have delivered to the Debtor prior to the Closing, in proper form for filing and executed by the appropriate parties, termination statements, instruments of satisfaction, releases of all liens or other interests which the person or entity has with respect to the Property, all liens or interests identified in any financing statements, agreements or other documents shall be deemed released, terminated and satisfied, and this Order is and shall be binding upon and govern the acts of all entities, including without limitation, all filing agents, filing officers, title agents, title companies, recorders of mortgages, recorders of deeds, registrars of deeds, registrars of patents, trademarks or other intellectual property, administrative agencies, governmental departments, secretaries of state, federal, state, and local officials, and all other persons and entities who may be required by operation of law, the duties of their office or contract, to accept, file, register or otherwise record or release any documents or instruments, or who may be required to report or inure any title or state of title in or to any of the Property.

9. Because the Purchaser has acted in good faith, pursuant to Section 363(m) of the Bankruptcy Code, the reversal or modification of this Order on appeal will not affect the validity of the transfer of the Property to the Purchaser or any other transactions contemplated by the Contract and/or authorized by this Order, unless the same is stayed pending appeal prior to closing under the Contract. Therefore, the title company is authorized to assist in consummating the sale of the Real Property immediately upon the entry of this Order.

10. If for any reason the Purchaser fails to timely consummate the acquisition of the Property on or before November 18th, 2019 in accordance with the Contract or this Order, Purchaser shall forfeit its \$48,000.00 held in escrow by the Title Company. The Title Company is authorized to deliver such \$48,000.00 to the Debtor without further notice or court order.

11. The Court has jurisdiction under 28 U.S.C §§157 and 1334 and 11 U.S.C. §§105, 363, and 506 to determine the matters addressed herein as core proceedings under 28 U.S.C. §157(b). This Court shall retain jurisdiction over any issues relating to the Contract and to enforce its Order pursuant to 11 U.S.C. §105 and Bankruptcy Rule 7070. Any suit, action, proceeding, claim or dispute under or related to this Order, the disposition of purchase price proceeds, or any order necessary to consummate the sale and assignment transactions shall be determined by this Court as a core proceeding under 11 U.S.C. § 157(b) and this Court retains jurisdiction with respect thereto.

12. This is a final order and is enforceable upon entry by the Clerk of the Court. To the extent necessary under the Federal Rules of Bankruptcy Procedure 5003, 9014, 9021 and 9002, this Court expressly finds that there is no just reason for delay in this implementation of this Order and expressly directs entry of judgment as set forth herein and the stays of Federal Rules of Bankruptcy Procedure Rules 6004(h), 6006(d), 7062 and Fed. R. Civ. P. 62(a) are hereby waived, modified and shall not apply to the sale of the Property in accordance with the Contract, and the Debtor is authorized to take all actions and enter into all transactions authorized by this Order immediately. In connection with the foregoing, the Debtor, the Purchaser and the Title Company assisting with the consummation of the sale are authorized to close this transaction immediately upon entry of this Order and are not required to wait fourteen (14) days before closing the sale and assignment contemplated herein.

13. The sale does not and will not subject or expose the Purchaser, its successors or assigns, to any liability, claim, cause of action or remedy by reason of such sale and transfer, including, without limitation, any claim, cause of action or remedy based on any theory of successor or transferee liability, and Purchaser shall not assume any liability or obligation of the

Seller, fixed or contingent, disclosed or undisclosed, or any liability for any claims, debts, defaults, duties, obligations or liabilities of Debtor of any kind or nature, whether known or unknown, contingent or fixed, all of which, to the extent that they existed prior to the Closing Date, are retained by the Debtor (the "Retained Liabilities").

14. Each and every federal, state and local government agency or department are directed to accept (and file, if appropriate) any and all documents and instruments necessary to consummate the transactions contemplated by the Contract.

15. This Court retains exclusive jurisdiction to resolve any dispute arising from or related to the Contract, this Order, and the transactions contemplated thereby. The Court specifically retains jurisdiction over the assets and the executory contracts that are the subject of the Sale Motion, to the extent that the sale is not closed as a result of the inability to satisfy the conditions precedent to Closing as described in the Contract.

16. Pursuant to Federal Rule of Civil Procedure 52, the Court's findings of fact stated orally and reported in open court are hereby incorporated herein by reference, the same as if fully copied and set forth at length.

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Submitted by:

William B. Kingman, SBN 11476200
Law Offices of William B. Kingman, PC
3511 Broadway
San Antonio, TX 78209
(210) 829-1199/Fax: (210) 821-1114
bkingman@kingmanlaw.com
Counsel for Debtor

EXHIBIT "B"
Legal Description

All that certain tract or parcel of land containing 641.07 acres in Guadalupe County, Texas, out of the Young Seltoon Survey, Abstract 293, W.H. Wood Survey, Abstract 345, C.H. Hall Survey, Abstract 162 and the James A. Swift Survey, Abstract 292, being the same tract called 642.16 acres described in conveyance from Larry D. Struthoff and Beverly S. Struthoff to Olmos Companies I, LLC., of record in Volume 4257, Page 221, Official Records of Guadalupe County, Texas.

Said 641.07 acre tract, being more particularly described as follows:

Beginning at a ½ inch iron pin set with cap on the North line of Pratt Road (County Road 211) at a corner of Jerome Harris, et al, 33.962 acre tract, of record in Volume 854, Page 211, Official Records of Guadalupe County, Texas, for the West corner of this tract;

Thence: along with the Southeast line of said Harris tract, the following courses and distances:
North 49 degrees 18 minutes 51 seconds East, 929.26 feet to a fence post found and North 49 degrees 09 minutes 43 seconds East, 750.43 feet to a 5 inch diameter fence post found, at the East corner of said Harris tract, for a corner of this tract;

Thence: North 40 degrees 32 minutes 23 seconds West, 810.32 feet to an iron pipe found on the Northeast line of Ralph & Terry Boehke, 109.738 acre tract, of record in Volume 871, Page 210, Official Records of Guadalupe County, Texas, at the South corner of Thomas E. & Patricia C. Lewis, 135.71 acre tract, of record in Volume 696, Page 97, Official Records of Guadalupe County, Texas, for a corner of this tract;

Thence: North 49 degrees 17 minutes 02 seconds East, 1845.22 feet to a fence post found at the East corner of said Lewis tract, at the South corner of Violet V. Pennington, Tract 1 - 303.956 acre tract, of record in Volume 732, Page 1388, Official Records of Guadalupe County, Texas, for a corner of this tract;

Thence: along with the Southeast line of said Pennington tract, the following courses and distances:
North 49 degrees 26 minutes 39 seconds East, 1038.12 feet to a fence post found;
North 49 degrees 30 minutes 05 seconds East, 1589.01 feet to a fence post found;
North 49 degrees 30 minutes 11 seconds East 999.31 feet to a 5/8 inch iron pin found;
South 40 degrees 44 minutes 01 second East, 781.88 feet to a 5/8 inch iron pin found;
North 49 degrees 41 minutes 06 seconds East, 616.21 feet to a point and
North 49 degrees 03 minutes 36 seconds East, at 859.48 feet passing a nail found in post at the East corner of said Pennington, tract on the Southwest line of Leonara Kuhn, Tract 2 - 215.297 acre tract, of record in Volume 732, Page 1388, Official Records of Guadalupe County, Texas, and continuing in all a total distance of 948.63 feet to a point located within said Kuhn tract, for the Northeast corner of this tract;

Thence: South 00 degrees 28 minutes 13 seconds East, at 112.32 feet passing an angle corner of said Kuhn tract and continuing in all a total distance of 1711.06 feet to a nail in post found, for a corner of this tract;

Thence: South 01 degrees 18 minutes 36 seconds East, 594.19 feet to a nail in post found, at a corner of said Kuhn tract, for a corner of this tract;

Thence: South 88 degrees 08 minutes 31 seconds East, 9.93 feet to a nail found in post found at a corner of said Kuhn tract, for a corner of this tract;

Thence: South 01 degrees 00 minutes 30 seconds East, 4063.71 feet to a post found and South 00 degrees 22 minutes 52 seconds East, 153.63 feet to a 5/8 inch iron pin found at an angle corner of Margaret Taylor Tract 3 (229.797 acres), of record in Volume 732, Page 1388, Official Records of Guadalupe County, Texas, for the Southeast corner of this tract;

Thence: South 89 degrees 12 minutes 18 seconds West, 1335.23 feet to a ½ inch iron pin found at a corner of said Taylor Tract, and same being the Northeast corner of Jaquelin Ball, remaining portion of a 251.82 acre tract, of record in Volume 732, Page 1388, Official Records of Guadalupe County, Texas, for a corner of this tract;

Thence: along with the North line of said Ball tract, the following courses and distances:
North 89 degrees 42 minutes 09 seconds West, 1506.99 feet to a ½ inch iron pin found;
North 89 degrees 59 minutes 37 seconds West, 1263.21 feet to a nail in post found;
South 89 degrees 22 minutes 30 seconds West, 658.52 feet to a nail in post found;
North 88 degrees 21 minutes 36 seconds West, 374.25 feet to a point;
South 88 degrees 22 minutes 35 seconds West, 243.97 feet to a nail in post found on the East line of Audrey Belle Weedn, 105 acre tract, of record in Volume 3085, Page 276, Official records of Guadalupe County, Texas, at the Northwest corner of said Ball tract, for a corner of this tract;

Thence: along with the East and North lines of said Weedn tract., the following courses and distances:
North 00 degrees 31 minutes 25 seconds East, 817.73 feet to a 5 inch diameter fence post found and
South 89 degrees 33 minutes 56 seconds West, 651.82 feet to a 5 inch diameter fence post found at the Southeast corner of Pratt road, for a corner of this tract;

Thence: along with the East and North line of said Pratt Road, the following courses and distances:
North 03 degrees 04 minutes 59 seconds East, 26.00 feet to a point and
South 89 degrees 14 minutes 16 seconds West, 676.12 feet to a 5 inch diameter post;
North 47 degrees 56 minutes 26 seconds West, 9.86 feet to the Point of Beginning.

Bearing Basis - South 40 degrees 44 minutes 01 seconds East, 781.88 feet - from the Northeast line of this tract, as obtained from GPS Observation using WGS84, NAVD88.

Note: The Company is prohibited from insuring the area or quantity of the land described herein. Any statement in the above legal description of the area or quantity of land is not a representation that such area or quantity is correct, but is made only for informational and/or identification purposes and does not override Item 2 of Schedule B hereof.

EXHIBIT "C"
PERMITTED EXCEPTIONS

1. Outstanding ad valorem taxes for tax years 2019
2. All validly existing easements, rights-of-way, and prescriptive rights, whether of record or not or appearing on any survey, and all presently recorded and validly existing restrictions, reservations, covenants and conditions that affect the Property, including, but not limited to:
 - (a) Any discrepancies, conflicts, or shortages in area or boundary lines, or any encroachments or protrusions, or any overlapping of improvements. Any easements, rights-of-way, roadways, encroachments which a survey or physical inspection might disclose.
 - (b) Any portion of the subject property lying within the boundaries of dedicated or existing roadways or which may be used for road or street purposes.
 - (c) Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title that are or would be disclosed by an accurate and complete land survey of the land.
 - (d) All leases, grants, exceptions or reservations of coal, lignite, oil, gas and other minerals, together with all rights, privileges and immunities relating thereto, appearing in the Real Property Records of Guadalupe County, Texas or not. All building restrictions and zoning regulations previously or hereafter adopted by any municipal or other public authority relating to the Property

Subject to any and all leases, agreements, amendments and supplements thereto, existing with the tenants in possession, whether written or oral and whether recorded or unrecorded.

 - (e) Visible and apparent easements, to include, but not limited to easements for roadways on or across the land herein described.
 - (f) Any visible and apparent roadway or easement over, under or across the subject property, the existence of which does not appear of record.

Mineral and/or royalty interest: Recorded: July 02, 1925 in Volume 84, Page 434 of the Deed Records of Guadalupe County, Texas.

 - (j) Mineral and/or royalty interest: Recorded: July 02, 1925 in Volume 84, Page 435 of the Deed Records of Guadalupe County, Texas.
 - (k) Mineral and/or royalty interest: Recorded: July 16, 1925 in Volume 84, Page 530 of the Deed Records of Guadalupe County, Texas.
 - (l) Mineral and/or royalty interest: Recorded: November 25, 1936 in Volume 164, Page 355 of the Deed Records of Guadalupe County, Texas.

(m) Mineral and/or royalty interest: Recorded: December 20, 1994 in Volume 1128, Page 374 of the Official Public Records of Guadalupe County, Texas.

(n) Mineral and/or royalty interest: Recorded: September 22, 1995 in Volume 1166, Page 429 of the Official Public Records of Guadalupe County, Texas.

(o) Mineral and/or royalty interest: Recorded: September 22, 1995 in Volume 1166, Page 502 of the Official Public Records of Guadalupe County, Texas.

(p) Mineral and/or royalty interest: Recorded: October 18, 1995 in Volume 1234, Page 181 of the Official Public Records of Guadalupe County, Texas.

(q) All leases, grants, exceptions or reservations of coal, lignite, oil, gas and other minerals, together with all rights, privileges, and immunities relating thereto, appearing in the Public Records whether listed herein or not. There may be leases, grants, exceptions or reservations of mineral interest that are not listed.

(m) Mineral and/or royalty interest: Recorded: December 20, 1994 in Volume 1128, Page 374 of the Official Public Records of Guadalupe County, Texas.

(n) Mineral and/or royalty interest: Recorded: September 22, 1995 in Volume 1166, Page 429 of the Official Public Records of Guadalupe County, Texas.

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(q) All leases, grants, exceptions or reservations of coal, lignite, oil, gas and other minerals, together with all rights, privileges, and immunities relating thereto, appearing in the Public Records whether listed herein or not. There may be leases, grants, exceptions or reservations of mineral interest that are not listed.

201999026548

I certify this instrument was ELECTRONICALLY FILED
and RECORDED in the OFFICIAL PUBLIC RECORDS
of Guadalupe County, Texas on
11/18/2019 04:40:32 PM PAGES: 18 COURTNEY
TERESA KIEL, COUNTY CLERK



Teresa Kiel

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).

N/A

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. ☐ 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 _____ 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):

Check one		Write: Existing or Proposed
<input type="checkbox"/>	Directly from stream	
<input type="checkbox"/>	From an on-channel reservoir	
<input type="checkbox"/>	From a stream to an on-channel reservoir	
<input type="checkbox"/>	Other method (explain fully, use additional sheets if necessary)	

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 _____

If yes, the drainage area is _____ sq. miles.

(If assistance is needed, call the Surface Water Availability Team at (512) 239-4600, prior to submitting application)

2. Diversion Location (Instructions, Page 25)

- a. On watercourse (USGS name): _____
- 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 _____°N, Longitude _____°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): _____
- 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.

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 to maintain the reservoir level.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 100% % and explain the method of calculation: the total amount of water lost is from evaporation loss

Is the source of the discharged water return flows? Y / N N If yes, provide the following information:

1. The TPDES Permit Number(s). N/A (attach a copy of the **current** TPDES permit(s))
2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N/A

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) N/A.
- c. Is the source of the water being discharged groundwater? Y / N Y If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: Carrizo-Wilcox Aquifer
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 see attached for 24-hour pump test data on neighboring well, Tracking #570595 and Texas Water Well Report for onsite well production data.
3. Indicate how the groundwater will be conveyed to the stream or reservoir. Groundwater will be pumped directly into the reservoir from the onsite wells identified above.
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 N
If yes, provide the signed contract(s).
- cii. Identify any other source of the water N/A

STATE OF TEXAS WELL REPORT for Tracking #570595

Owner: **Erica Bowles**
Address: **7303 US HWY 90E**
Seguine, TX 78155
Well Location: **7303 US HWY 90E**
Seguine, TX 78155
Well County: **Guadalupe**

Owner Well #: **No Data**
Grid #: **67-18-7**
Latitude: **29° 37' 37" N**
Longitude: **097° 51' 59" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/9/2020**

Drilling End Date: **1/4/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	100

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	25	100	Gravel	#40

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	25	Concrete 21 Bags/Sacks

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data on 2021-01-06**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM after 24 hours, no drawdown specified**

Water Quality:	Strata Depth (ft.) 24 - 80	Water Type No Data
----------------	--------------------------------------	------------------------------

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Drillink, Inc.**
2974 CR 284
Harwood, TX 78632

Driller Name: **4446** License Number: **4446**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description	Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
0	13	tan clay	4.5	Blank	New Plastic (PVC)	SDR17	0	40
13	25	gray clay	4.5	Screen	New Plastic (PVC)	SDR17 0.020	40	100
25	40	gray sandy clay	4.5	CAP	New Plastic (PVC)	SCH40	100	100
40	80	fine sand						
80	100	gray clay						

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540



On time. On target. In touch.™

Texas Water Well Report (Extended Radius)

Target Property:

Broken Oak

Pratt Road

Kingsbury, Guadalupe County, Texas 78155

Prepared For:

Westward Environmental Inc

Order #: 163306

Job #: 403626

Project #: 11235.002

Date: 04/01/2021

TARGET PROPERTY SUMMARY

Broken Oak

Pratt Road

Kingsbury, Guadalupe County, Texas 78155

USGS Quadrangle: Kingsbury, TX

Target Property Geometry: Area

Target Property Longitude(s)/Latitude(s):

**(-97.834894, 29.639229), (-97.838328, 29.636580), (-97.840387, 29.637960), (-97.853262, 29.628262),
(-97.851631, 29.626658), (-97.855622, 29.623636), (-97.851330, 29.623712), (-97.851370, 29.623276),
(-97.851349, 29.621325), (-97.834443, 29.621387), (-97.834894, 29.639229)**

County/Parish Covered:

Guadalupe (TX)

Zipcode(s) Covered:

Kingsbury TX: 78638

Seguin TX: 78155

State(s) Covered:

TX

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DATABASE FINDINGS SUMMARY

DATABASE	ACRONYM	LOCA- TABLE	UNLOCA- TABLE	SEARCH RADIUS (miles)
<u>FEDERAL</u>				
UNITED STATES GEOLOGICAL SURVEY NATIONAL WATER INFORMATION SYSTEM	NWIS	0	0	1.0000
SUB-TOTAL		0	0	
<u>STATE (TX)</u>				
SELECT SUBMITTED DRILLERS REPORT DATABASE WELLS	SSDRD	28	0	1.0000
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS	TCEQ	37	0	1.0000
TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE	TWDB	5	0	1.0000
WATER UTILITY DATABASE	WUD	0	0	1.0000
SUB-TOTAL		70	0	

TOTAL	70	0
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LOCATABLE DATABASE FINDINGS

ACRONYM	SEARCH RADIUS (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
<u>FEDERAL</u>								
NWIS	1.000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
<u>STATE (TX)</u>								
SSDRD	1.000	0	0	0	5	23	NS	28
TCEQ	1.000	2	1	1	10	23	NS	37
TWDB	1.000	1	0	0	1	3	NS	5
WUD	1.000	0	0	0	0	0	NS	0
SUB-TOTAL		3	1	1	16	49	0	70

TOTAL	3	1	1	16	49	0	70
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NOTES:

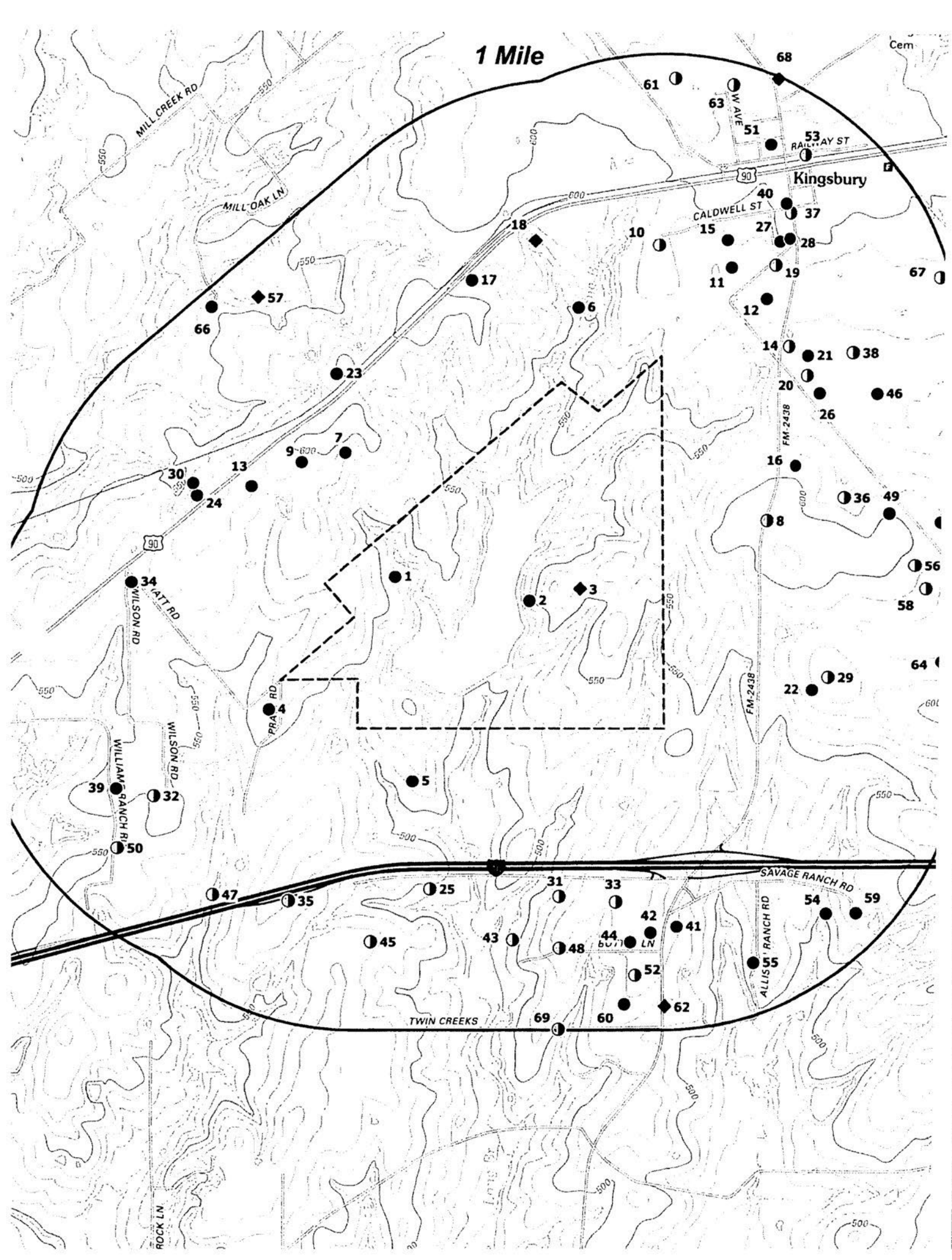
NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

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1 Mile



REPORT SUMMARY OF LOCATABLE SITES

MAP ID#	DATABASE NAME	SITE ID#	DISTANCE FROM SITE	SITE NAME	ADDRESS	CITY, ZIP CODE	PAGE #
1	TCEQ	TX238834	TP	LARRY STRUTHOFF			1
2	TCEQ	TX238831	TP	LARRY STRUTHOFF			3
3	TWDB	67-18-702	TP	HERMAN SCHMIDT WELL 1			6
4	TCEQ	TX238795	0.102 SSW	RALPH BOEHNKE			8
5	TCEQ	TX238828	0.172 S	ED WILSON			12
6	TCEQ	TX238803	0.256 NNE	LOUIS SALINAS			15
7	TCEQ	TX238829	0.291 NW	TOM LEWIS			18
8	SSDRD	TX210955	0.349 E	CLIFTON MATTHIES	6075 FM 2438	KINGSBURY, 78638	20
9	TCEQ	TX238805	0.361 NW	TOM LEWIS			21
10	SSDRD	TX563967	0.368 N	MARIO MOLINA	9701 HWY 90 E	KINGSBURY, 78638	24
11	TCEQ	TX238810	0.376 NE	PAUL BELL			25
12	TCEQ	TX238808	0.399 ENE	J D POWELL			28
13	TCEQ	TX238792	0.409 NW	H. N. NANCE			31
14	SSDRD	TX223401	0.429 E	GRAFE, BOB	6635 FM 2438	KINGSBURY	34
15	TCEQ	TX238814	0.444 NNE	FAUSTINO OBRERO			35
16	TCEQ	TX238802	0.448 E	LELAND LORENZO			38
17	TCEQ	TX238816	0.456 NW	CRYSTAL CLEAR WATER SUPPLY			40
18	TWDB	67-18-703	0.476 NNW	F. SCHMIDT WELL 1			42
19	SSDRD	TX197520	0.484 NE	KUHN, LEONORA S.	CROSSROADS	KINGSBURY, 78638	44
20	SSDRD	TX194526	0.493 E	BRANDON BAKER	1175 CROSSROADS	KINGSBURY, 78638	45
21	TCEQ	TX238813	0.495 E	CHRIS WRAMP			46
22	TCEQ	TX238822	0.500 E	J. W. COFFEY			49
23	TCEQ	TX238799	0.510 NW	JOHN BREAZEAK			52
24	TCEQ	TX238800	0.520 WNW	FRED THOMPSON			54
25	SSDRD	TX543807	0.532 S	DAN DWYER	7975 E IH 10	SEGUIN, 78155	56
26	TCEQ	TX238812	0.534 E	JOHN MERRITT			57
27	TCEQ	TX238819	0.548 NE	CECIL RICKETTS			59

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REPORT SUMMARY OF LOCATABLE SITES

MAP ID#	DATABASE NAME	SITE ID#	DISTANCE FROM SITE	SITE NAME	ADDRESS	CITY, ZIP CODE	PAGE #
28	SSDRD	TX441624	0.554 NE	CELESTINO MORENO	166 CROSSROADS	KINGSBURY, 78638	61
28	TCEQ	TX238807	0.579 NE	ROY RICKET			62
29	SSDRD	TX389598	0.554 E	GRAY MOSIER	5441 FM 2438	KINGSBURY, 78638	64
30	TCEQ	TX238804	0.555 WNW	LLOYD THOMPSON			65
31	SSDRD	TX543713	0.557 S	CEASAR SERNA	8277 E IH 10	SEGUIN, 78155	68
32	SSDRD	TX181081	0.565 SW	MARK WESTERHOLM	594 WILSON ROAD	SEGUIN, 78155	69
33	SSDRD	TX343298	0.575 S	JENNY RODRIQUEZ			70
34	TCEQ	TX238794	0.596 WNW	RANDY FINCH			71
35	SSDRD	TX28243	0.612 SSW	GUADALUPE COUNTY			74
36	SSDRD	TX549506	0.612 E	JAMES & KATIE HUNTER	1280 CROSS ROADS	KINGSBURY, 78638	75
37	SSDRD	TX331072	0.639 NE	MARGARET TAYLOR	6378 FM 2438	KINGSBURY, 78638	76
38	SSDRD	TX156675	0.644 E	TED IMHOFF	6187 FM 2438	KINGSBURY, 78638	77
39	TCEQ	TX238827	0.646 WSW	KERMIT WESTERHOLM			78
40	TCEQ	TX238815	0.654 NE	CHRIS BOERGER			81
41	TCEQ	TX238833	0.655 S	SILVER WOLF RANCH #2			84
42	TCEQ	TX238830	0.674 S	RED HERRING			86
43	SSDRD	TX551270	0.700 S	MICHAEL TUMLINSON	8215 IH 10 EAST	SEGUIN, 78155	88
44	TCEQ	TX238832	0.705 S	JIM TUCKER			89
45	SSDRD	TX541450	0.706 S	MATTHEW JANDT	7667 E. IH 10	SEGUIN, 78155	91
46	TCEQ	TX238818	0.722 E	BRUCE PAPE			92
47	SSDRD	TX524986	0.725 SW	CHARLES AND LISA RILEY	1022 TWIN CREEKS	SEGUIN, 78155	94
48	SSDRD	TX296310	0.728 S	KEN HOLMES	8313 I-H 10 EAST	SEGUIN, 78155	95
49	TCEQ	TX238811	0.760 E	M. E. SIMPSON			96
50	SSDRD	TX198439	0.770 SW	STEVE HOLLINGSHEAD	548 WILLIAM RANCH RD	SEGUIN, 78155	99
51	TCEQ	TX238806	0.789 NNE	AUGUST GLENWINKLE III			100
52	SSDRD	TX493027	0.817 S	GST HOLDINGS LLC	4400 FM 2438	SEGUIN, 78155	102
53	SSDRD	TX335179	0.821 NE	MARK LORENZ	950 RAILWAY ST	KINGSBURY, 78638	103
54	TCEQ	TX238820	0.822 SE	SILVER WOLF RANCH			104

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REPORT SUMMARY OF LOCATABLE SITES

MAP ID#	DATABASE NAME	SITE ID#	DISTANCE FROM SITE	SITE NAME	ADDRESS	CITY, ZIP CODE	PAGE #
55	TCEQ	TX238825	0.832 SSE	SILVER WOLF RANCH			106
56	SSDRD	TX497285	0.843 E	CHARLES HEIM	1558 CROSSROADS	KINGSBURY, 78638	108
57	TWDB	67-18-704	0.870 NW	H.W. WURZBACH			109
58	SSDRD	TX464868	0.878 E	GLENN & NANCY SEILER	1648 CROSSROADS	KINGSBURY, 78638	111
59	TCEQ	TX238824	0.890 SE	WOLF RANCH			112
60	TCEQ	TX238826	0.911 S	HOLLUB PRODUCTION CO			114
61	SSDRD	TX470431	0.919 N	ELLEY & JUBELA	477 GRAVEL PIT ROAD	KINGSBURY, 78638	117
62	TWDB	67-26-101	0.921 S	N.A. WUNDT WELL 1			118
63	SSDRD	TX400473	0.926 NNE	KEVIN REIGER	1195 W. AVENUE	KINGSBURY, 78638	121
64	TCEQ	TX238823	0.927 E	LESLIE BAKER			122
65	TCEQ	TX238817	0.928 E	JOHN MARSHALL			125
66	TCEQ	TX238796	0.949 NW	LYNN TATE			128
67	SSDRD	TX272252	0.965 ENE	EMERALD BAY ENERGY INC.	RAILWAY ST.	KINGSBURY, 78638	131
68	TWDB	67-18-806	0.992 NNE	CRYSTAL CLEAR WSC KINGSBURY WELL			132
69	SSDRD	TX206066	0.996 S	TURNER, MORGAN	507 TWIN CREEKS	SEGUIN, 78155	139

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 1

Distance from Property: 0.00 mi. X

ID NUMBER: TX238834
STATE ID : 67-26-1
OWNER NAME: LARRY STRUTHOFF
DATE DRILLED: 03/11/1996
DEPTH DRILLED: 240'
STATIC LEVEL: 105'
WATER USAGE: DOMESTIC
LONGITUDE: -97.849411000
LATITUDE: 29.628656000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 2

Distance from Property: 0.00 mi. X

ID NUMBER: TX238831
STATE ID : 67-26-1
OWNER NAME: LARRY STRUTHOFF
DATE DRILLED: 03/13/1996
DEPTH DRILLED: 480'
STATIC LEVEL: 72'
WATER USAGE: DOMESTIC
LONGITUDE: -97.841954000
LATITUDE: 29.627524000


2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238831

Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-238-0630																																																									
1) OWNER <u>Larry Struthoff</u> (Name)		ADDRESS <u>915 Pratt Rd.</u> (Street or RFD)		Sequin TX 78155 (City) (State) (Zip)																																																									
2) ADDRESS OF WELL: County <u>Guadalupe</u> (Street, RFD or other)		(City)		(State) (Zip)																																																									
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5) 																																																									
6) WELL LOG: Date Drilling: _____ Started <u>3/12</u> 19 <u>96</u> Completed <u>3/13/96</u>		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Dis. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td>6 1/8</td> <td>Surface</td> <td>480</td> </tr> <tr> <td>7 7/8</td> <td>"</td> <td>211</td> </tr> </table>		Dis. (in.)	From (ft.)	To (ft.)	6 1/8	Surface	480	7 7/8	"	211	7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other _____																																																
Dis. (in.)	From (ft.)	To (ft.)																																																											
6 1/8	Surface	480																																																											
7 7/8	"	211																																																											
From (ft.) To (ft.) Description and color of formation material		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>170</u> ft. to <u>210</u> ft.																																																											
0- sand		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Part., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Cage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>4</td> <td>N</td> <td>Plastic</td> <td>0</td> <td>212</td> <td>Sch40</td> </tr> <tr> <td>"</td> <td>"</td> <td>Screen mfg. 20"</td> <td>190</td> <td>210</td> <td>" "</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Part., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casing Screen	From	To	4	N	Plastic	0	212	Sch40	"	"	Screen mfg. 20"	190	210	" "																																				
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4	N					Plastic	0	212	Sch40																																																				
"	"					Screen mfg. 20"	190	210	" "																																																				
3- sandy clay & clay																																																													
12- sand																																																													
66- blue clay																																																													
91- rock																																																													
92- sand (blue)																																																													
100- rock																																																													
102- blue sand																																																													
120- sand & sandy clay																																																													
134- rock																																																													
135- clay																																																													
139- rock																																																													
142- clay & rocks																																																													
186- Sand																																																													
204- rock & sandy clay (Use reverse side if necessary)																																																													
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., _____ ft.		(9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>15</u> ft. No. of sacks used <u>1</u> _____ ft. to _____ ft. No. of sacks used _____ Method used _____ Cemented by <u>Larry Deharde</u> Distance to septic system field lines or other concentrated contamination <u>?</u> ft. Method of verification of above distance <u>none</u>																																																											
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>25</u> gpm with @ <u>180</u> ft. drawdown after _____ hrs.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 338.44(2)(A)] <input checked="" type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pitless Adapter Used [Rule 338.44(3)(b)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 338.71]																																																											
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>72</u> ft. below land surface Date <u>3/13/96</u> Artesian flow _____ gpm. Date _____																																																											
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmission.		12) PACKERS: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Type</th> <th>Depth</th> </tr> <tr> <td>4- sacks</td> <td>hole plug</td> <td>160'-170'</td> </tr> <tr> <td>1- 4"+7"</td> <td>rubber packer</td> <td>212'</td> </tr> </table>					Type	Depth	4- sacks	hole plug	160'-170'	1- 4"+7"	rubber packer	212'																																															
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1- 4"+7"	rubber packer	212'																																																											
COMPANY NAME <u>Deharde Water Well Service</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>2328 WPK</u>																																																											
ADDRESS <u>1075 Schuenemann Rd.</u> (Street or RFD)		Sequin TX 78155 (City) (State) (Zip)																																																											
(Signed) <u>Larry Deharde</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																																																											

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94)

TNRCC COPY

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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

MAP ID# 3

Distance from Property: 0.00 mi. X

STATE ID: 67-18-702
OWNER'S NAME: HERMAN SCHMIDT WELL 1
DATE DRILLED: NOT REPORTED
DEPTH DRILLED: NOT REPORTED
WATER USAGE:
LONGITUDE: -97.839167000
LATITUDE: 29.628055000
SOURCE: TWDB

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 4

Distance from Property: 0.10 mi. SSW

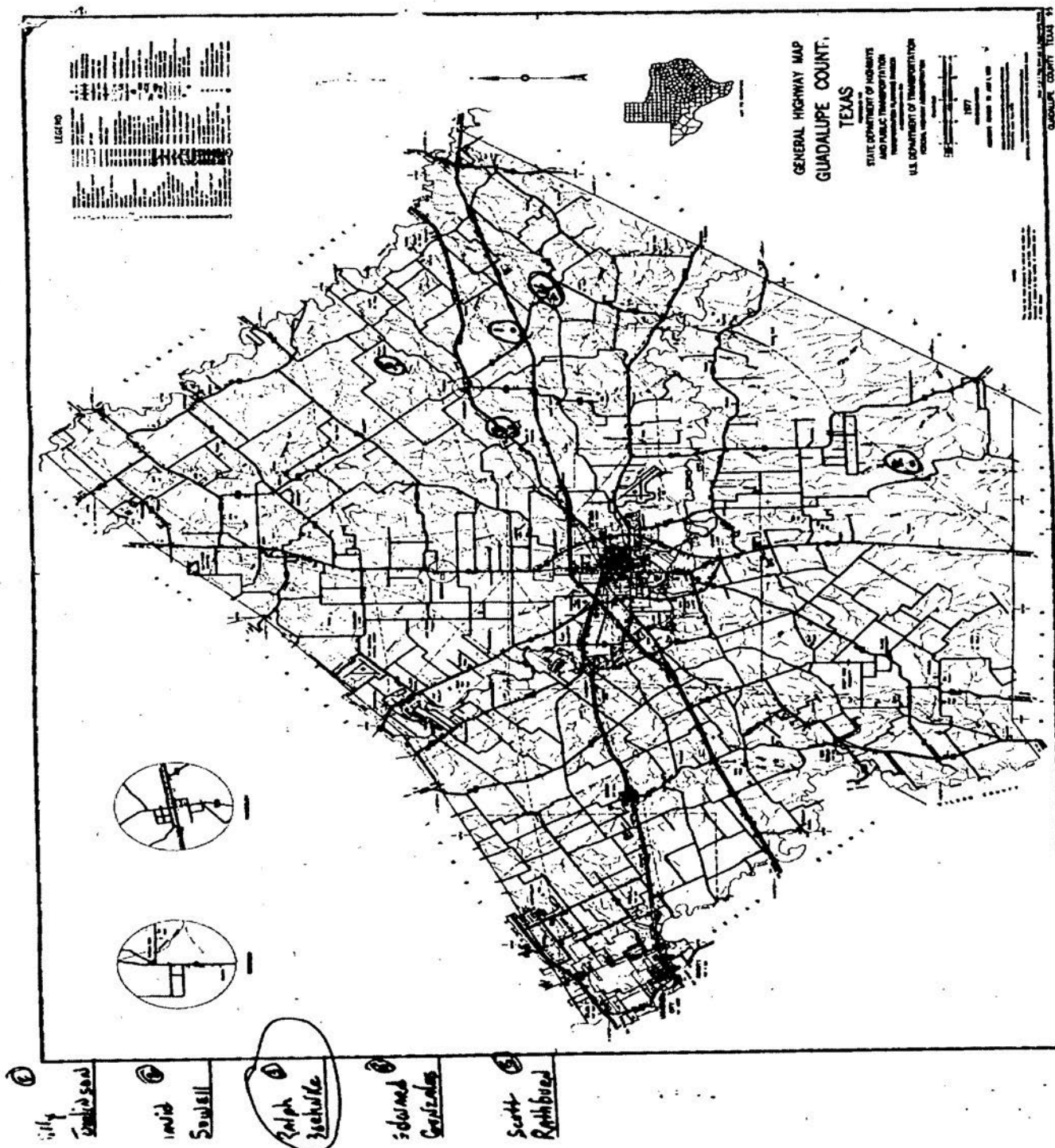
ID NUMBER: TX238795
STATE ID : 67-18-7
OWNER NAME: RALPH BOEHNKE
DATE DRILLED: 04/14/1993
DEPTH DRILLED: 113'
STATIC LEVEL: 72'
WATER USAGE: DOMESTIC
LONGITUDE: -97.856238000
LATITUDE: 29.622267000

3 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 3

Water Well ID: 238795



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 3
Water Well ID: 238795

Send original copy by certified mail to: Texas Water Comm'n/

1, P.O. Box 13067, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality
Privilege Notices on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13067
Austin, Texas 78711

1) OWNER Ralph Boehnke ADDRESS 750 Pratt Rd. Seguin Tx 78155
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: 0.8 miles in NE direction from Seguin
County Guadalupe (NE, SW, etc.) (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Section Texas County General Highway Map and attach the map to this form.

LEGAL DESCRIPTION:

Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ SEE ATTACHED MAP

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Driven
☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:

Date Drilling: 4-13 1993
Started 4-14 1993
Completed _____

DIAMETER OF HOLE

Dis. (In.)	From (ft.)	To (ft.)
<u>5 1/8</u>	Surface	<u>86</u>
<u>6 3/4</u>	"	<u>180</u>
<u>7 7/8</u>	"	<u>15</u>

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Well ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 60 ft. to 140 ft.

From (ft.) To (ft.) Description and color of formation material

<u>0-5</u>	<u>clay</u>
<u>5-15</u>	<u>sand</u>
<u>15-16</u>	<u>rock</u>
<u>16-25</u>	<u>sandstone & sand</u>
<u>25-43</u>	<u>sandy clay</u>
<u>43-45</u>	<u>rock</u>
<u>45-86</u>	<u>clay</u>
<u>86-93</u>	<u>rock</u>
<u>93-96</u>	<u>sandy clay</u>
<u>96-97</u>	<u>rock</u>

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dis. (In.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gate Casting Screen
			From	To	
<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>140</u>	<u>net clo</u>
<u>"</u>	<u>"</u>	<u>Screen Mfg. 20"</u>	<u>100</u>	<u>120</u>	<u>" "</u>

9) CEMENTING DATA (Rule 287.44(1))

Cemented from 0 ft. to 15 ft. No. of Sacks Used 1
_____ ft. to _____ ft. No. of Sacks Used _____

13) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylindrical
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 100 ft.

14) WELL TESTS:

Type Test: ☐ Pump ☐ Baller ☒ Jetted ☒ Estimated
Yield: 3 1/2 gpm at 135 ft. down to _____ ft.

15) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

Well Driller's License No. 2328
Name Harry Deharde

10) SURFACE COMPLETION

☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pressure Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:

Static level 72 ft. below land surface Date 4-14-93
Artesian flow _____ gpm. Date _____

12) PACKERS:

Type	Depth
<u>1- 4 1/2" rubber packer</u>	<u>121'</u>
<u>2 packer hole plug</u>	<u>55'-60'</u>

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmission.

COMPANY NAME Deharde Water Well Service
(Type or print)

WELL DRILLER'S LICENSE NO. 2328

ADDRESS Rt. 5 Box 440
(Street or RFD)

Seguin
(City)

Tx 78155
(State) (Zip)

(Signed) Harry Deharde
(Licensed Well Driller)

(Signed) _____
(Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 3 Located on map 67.18.7

WWD-012 (Rev. 05-18-80)

TEXAS WATER COMMISSION COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Water Well ID: 238795

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material
97-	105	sandy clay & sand
105-	111	sandy
111-	113	rock
113-		blue clay & rock

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 5

Distance from Property: 0.17 mi. S

ID NUMBER: TX238828
STATE ID : 67-26-1M
OWNER NAME: ED WILSON
DATE DRILLED: 11/13/1974
DEPTH DRILLED: 25'
STATIC LEVEL: 65'
WATER USAGE: DOMESTIC
LONGITUDE: -97.848280000
LATITUDE: 29.618843000

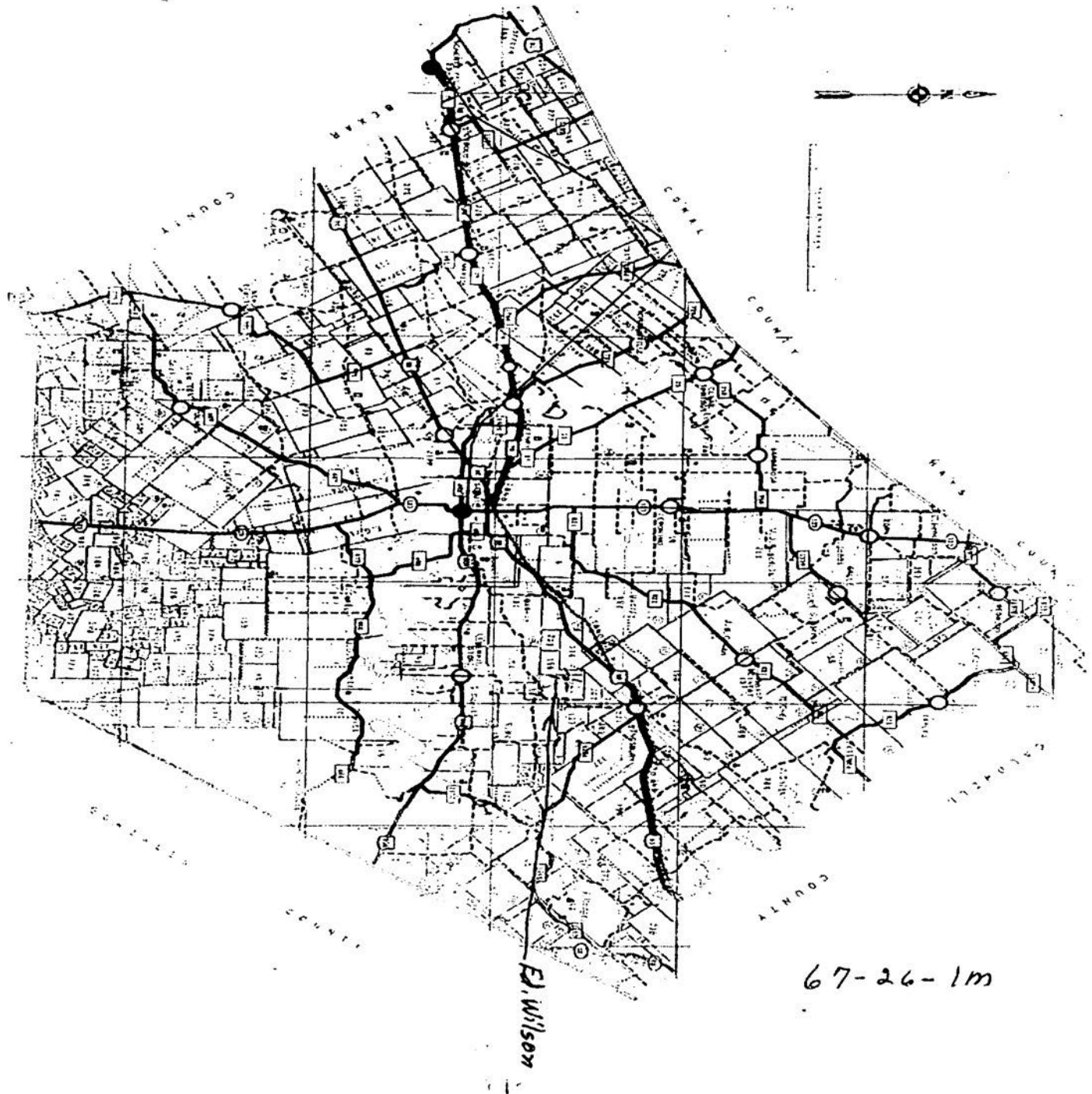
2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2

Water Well ID: 238828

Guadalupe



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238828

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 62-24-1M
Located on map
Received: 2-7-74
dt

1) OWNER:
Person having well drilled Ed Wilson (Name) Address M.R. Seguin, Texas (City) (State)
Landowner " (Name) Address " (City) (State)

2) LOCATION OF WELL:
County Guddalup miles in 3 direction from Blanco River (Town)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.*
Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey Joe M. Swift
Abstract No. A-292
(NNE NE S S E E S S W) of Section SW

(Use reverse side if necessary)

3) TYPE OF WORK (Check):
New Well ☒ Deepening _____
Reconditioning _____ Plugging _____

4) PROPOSED USE (Check):
Domestic ☒ Industrial _____ Municipal _____
Irrigation _____ Test Well _____ Other _____

5) TYPE OF WELL (Check):
Rotary ☒ Driven _____ Dug _____
Cable _____ Jetted _____ Bored _____

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 255 ft. Depth of completed well 220 ft. Date drilled 11-13-74
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0 - 50		Brown Sand
50 - 66		Brown clay
66 - 115		Blue clay
115 - 150		Blue sand + clay str.
150 - 208		Blue clay + Rocks
208 - 217		Blue Sand
217 - 255		Blue Clay + sand str.

9) CASING:
Type: Old _____ New ☒ Steel _____ Plastic _____ Other _____
Cemented from 0 ft. to 2 ft.
Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Gauge _____

10) SCREEN:
Type: Perforated _____ Slotted _____
Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Slot Size _____

11) WELL TESTS:
Was a pump test made? Yes _____ No _____ If yes, by whom? _____
Yield: 21 gpm with 9.106 ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes _____ No _____
Did any strata contain undesirable water? Yes _____ No _____
Type of water? _____ depth of strata _____

7) COMPLETION (Check):
Straight wall _____ Gravel packed _____ Other _____
Under reamed _____ Open Hole _____

8) WATER LEVEL:
Static level: 65 ft. below land surface Date 11-13-74
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., 120 ft. below land surface.
pH - 7.0
Iron - 0.3
Hardness 10.0

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME (Type or Print) Charles L. Bohrens Water Well Drillers Registration No. 496
ADDRESS (Street or RFD) Box 242F (City) Seguin, Texas 78155 (State) _____
(Signed) Charles L. Bohrens (Water Well Driller) _____ (Company Name) _____

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 6

Distance from Property: 0.26 mi. NNE

ID NUMBER: TX238803
STATE ID : 67-18-7
OWNER NAME: LOUIS SALINAS
DATE DRILLED: 08/11/1989
DEPTH DRILLED: 165'
STATIC LEVEL: 58'
WATER USAGE: DOMESTIC
LONGITUDE: -97.839510000
LATITUDE: 29.641585000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2

Water Well ID: 238803

Please use black ink. Send original copy by certified mail to the Texas Water Commission, P.O. Box 13087, Austin, Texas 78711.

State of Texas
WATER WELL REPORT
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER LOUIS SALINAS (Name) P.O. Box 52607, Houston, Texas 77052 (City) (State) (Zip)

2) LOCATION OF WELL: County GUADALUPE 39 miles in S direction from KINGSBURY, TEXAS (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

0768-30-3 ☒ See attached map. WELL AT KINGSBURY, TEXAS

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check):
☐ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☒ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: 8-4-89 19
Completed: 8-11-89 19

DIAMETER OF HOLE		Description and color of formation material
Dis. (in.)	From (ft.) To (ft.)	
6 1/2	Surface 165	0 8 TOP SOIL SANDY
		8 34 LIGHT YELLOW CLAY & SAND
		34 38 SANDSTONE
		38 43 BLUE CLAY
		43 70 SANDSTONE (3 GPM AT 65 FEET WATER)
		70 130 BLUE BROWN CLAY
		130 140 SANDSTONE (MORE WATER)
		140 165 BROWN CLAY

7) BOREHOLE COMPLETION:
☒ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dis. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	N	PVC	0	164	

9) CEMENTING DATA (Rule 319.44(b))
Cemented from 0 ft. to 10 ft. No. of Sacks Used 2
Method used MIXED BY HAND
KUTSCHER DRILLING COMPANY

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed (Rule 319.44(c))
☐ Pitless Adapter Used (Rule 319.44(d))
☐ Approved Alternative Procedure Used (Rule 319.71)

11) WATER LEVEL:
Static level 58 ft. below land surface Date 8-11-89
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth _____

13) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) WELL TESTS:
Type Test: ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated
Yield: 10 gpm with 125 ft. drawdown after 1 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? GOOD Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmission.

COMPANY NAME KUTSCHER DRILLING COMPANY Water Well Driller's License No. 0-1861-W
(Type or Print)

ADDRESS 3810 HUNTER ROAD, SAN MARCOS, TEXAS 78666
(Street or R.F.D.) (City) (State) (Zip)

(Signed) Charles R. Kutscher (Registered Driller Trainee)
CHARLES R. KUTSCHER (Water Well Driller)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 238803
Located on map 18-7

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY

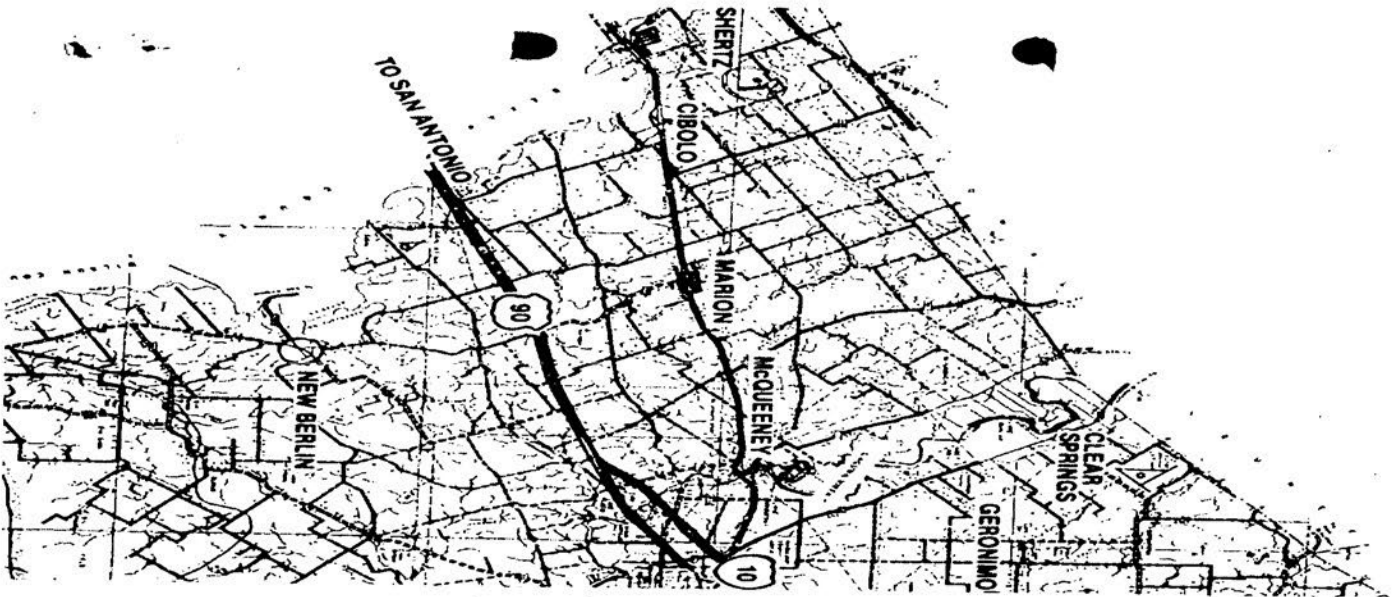
GeoSearch

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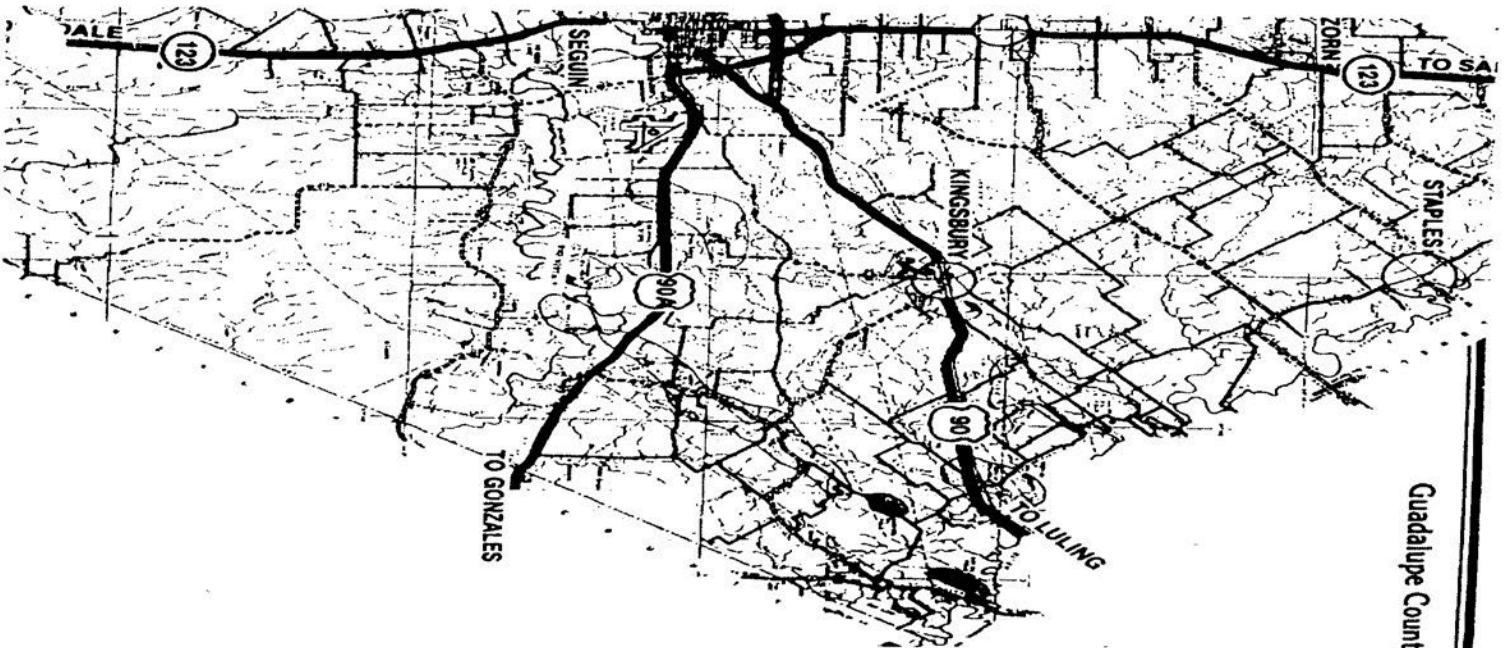
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238803

Guadalupe County, TX



Guadalupe County, TX



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 7

Distance from Property: 0.29 mi. NW

ID NUMBER: TX238829
STATE ID : 67-26-12
OWNER NAME: TOM LEWIS
DATE DRILLED: 05/27/1985
DEPTH DRILLED: 155'
STATIC LEVEL: 105'
WATER USAGE: DOMESTIC
LONGITUDE: -97.852255000
LATITUDE: 29.634594000

1 PAGE(S) OF DRILLERS' LOGS

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238829

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711		State of Texas WATER WELL REPORT		Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711																					
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side																									
1) OWNER <u>Tom Lewis</u> (Name) Address <u>RT 1 Box 334</u> (City) <u>Sequin TX</u> (State) <u>78155</u> (Zip)		2) LOCATION OF WELL: County <u>Graduate</u> <u>3</u> miles in <u>West</u> direction from <u>Kingsbury</u> (Town)																							
Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Section Texas County General Highway Map and attach the map to this form.																									
<input type="checkbox"/> Legal description: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____ <input type="checkbox"/> See attached map. <u>map on 67-26-3K</u>																									
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other		5) DRILLING METHOD (Check): <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Driven <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other																					
6) WELL LOG: Date drilled <u>5-27-85</u>		DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>6-3/4</u> Surface <u>135</u>		7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval . . . from <u>125</u> ft. to <u>135</u> ft.																					
From (ft.) To (ft.) Description and color of formation material		8) CASING, BLANK PIPE, AND WELL SCREEN DATA:																							
<u>0-4</u> TOPSOIL <u>4-100</u> <u>1/2</u> <u>Flow</u> <u>SANDY CLAY</u> <u>120-130</u> <u>GRAY CLAY</u> <u>130-155</u> <u>FINE GRAY SAND</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>135</u></td> <td></td> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>Plastic Slotted</u></td> <td><u>135</u></td> <td><u>155</u></td> <td></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>135</u>		<u>4</u>	<u>N</u>	<u>Plastic Slotted</u>	<u>135</u>	<u>155</u>	
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen																				
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<u>4</u>	<u>N</u>	<u>Plastic Slotted</u>	<u>135</u>	<u>155</u>																					
		CEMENTING DATA Cemented from <u>-1</u> ft. to <u>15'</u> ft. Method used <u>Mixed Powder</u> Cemented by <u>John Evans Drilling</u> (Company or Individual)																							
		9) WATER LEVEL: Static level <u>105</u> ft. below land surface Date <u>5-27-85</u> Artesian flow _____ gpm. Date _____																							
		10) PACKERS: Type _____ Depth _____																							
		11) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., <u>135</u> ft.																							
		12) WELL TESTS: <input type="checkbox"/> Type Test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>15</u> gpm with <u>20</u> ft. drawdown after <u>1</u> hrs.																							
13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata? _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																									
COMPANY NAME <u>John Evans Drilling</u> (Type or Print) Water Well Driller's License No. <u>1729</u>																									
ADDRESS <u>113 NAUASOTA LN</u> (Street or RFD) <u>Sequin TX</u> (City) <u>78155</u> (State) <u></u> (Zip)																									
(Signed) <u>John Evans</u> (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)																									
Please attach electric log, chemical analysis, and other pertinent information, if available.																									

TOWR-0392 (Rev. 5-27-82)

DEPARTMENT OF WATER RESOURCES COPY

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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 8

Distance from Property: 0.35 mi. E

TRACK #: 210955

DATE ENTERED: 2010-03-23

OWNER NAME: CLIFTON MATTHIES

OWNER ADDRESS: P. O. BOX 174

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.631389000 LONGITUDE: -97.828889000

WELL LOG:

DRILLING DATE (STARTED): 2005-05-31

DRILLING DATE (COMPLETED): 2005-06-01

DEPTH DRILLED: 300'

WATER LEVEL:

STATIC LEVEL: 140'

WATER LEVEL DATE: 2005-06-01

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN ROAD

SEGUIN, TX 78155

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 9

Distance from Property: 0.36 mi. NW

ID NUMBER: TX238805
STATE ID : 67-18-7
OWNER NAME: TOM LEWIS
DATE DRILLED: 09/25/1989
DEPTH DRILLED: 148'
STATIC LEVEL: 82'
WATER USAGE: DOMESTIC
LONGITUDE: -97.854664000
LATITUDE: 29.634121000

2 PAGE(S) OF DRILLERS' LOGS

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238805

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13067, Austin, Texas 78711

ion, P.O. Box 13067, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13067 Austin, Texas 78711																																																						
1) OWNER <u>Tom Lawie</u> (Name) ADDRESS <u>Rt. 1 Box 625</u> (Street or RFD) <u>Seguin TX. 78155</u> (City) (State) (Zip)																																																										
2) LOCATION OF WELL: County <u>Guadalupe</u> <u>8</u> miles in <u>NE</u> direction from <u>Seguin</u> (NE, SW, etc.) (City) (State) (Zip)																																																										
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																																										
LEGAL DESCRIPTION: Section No. <u>9</u> Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____ <input checked="" type="checkbox"/> SEE ATTACHED MAP <u>0767-26-5</u>																																																										
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Monitor <input type="checkbox"/> Public Supply <input type="checkbox"/> Injection <input type="checkbox"/> De-Watering		5) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other _____																																																						
6) WELL LOG: Date Drilling: _____ Started <u>9-25</u> 19 <u>89</u> Completed <u>9-25</u> 19 <u>89</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">DIAMETER OF HOLE</th> </tr> <tr> <th>Dia. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td><u>5 1/4</u></td> <td>Surface</td> <td><u>91</u></td> </tr> <tr> <td><u>6 3/4</u></td> <td>"</td> <td><u>148</u></td> </tr> <tr> <td><u>8 3/4</u></td> <td>"</td> <td><u>148</u></td> </tr> </table>		DIAMETER OF HOLE			Dia. (in.)	From (ft.)	To (ft.)	<u>5 1/4</u>	Surface	<u>91</u>	<u>6 3/4</u>	"	<u>148</u>	<u>8 3/4</u>	"	<u>148</u>	7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>100</u> ft. to <u>148</u> ft.																																							
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13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., _____ ft.		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>0</u> ft. to <u>15</u> ft. No. of Sacks Used <u>1</u> Method used <u>Larry Deharden</u> Cemented by _____																																																								
14) WELL TESTS: Type Test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>10</u> gpm with _____ ft. drawdown after _____ hrs.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 287.44(2)(A)] <input type="checkbox"/> Pile Adapter Used [Rule 287.44(3)(B)] <input checked="" type="checkbox"/> Approved Alternative Procedure Used [Rule 287.71]																																																								
15) WATER QUALITY: Did the drilling penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata? _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>82</u> ft. below land surface Date <u>9-25-89</u> Artesian flow _____ gpm. Date _____																																																								
12) PACKERS: _____ Type _____ Depth _____																																																										
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmission.																																																										
COMPANY NAME <u>Deharden Water Well Service</u> (Type or print) ADDRESS <u>Rt. 5 Box 1110</u> (Street or RFD) <u>Seguin</u> (City) <u>Tx.</u> (State) <u>78155</u> (Zip)		WELL DRILLER'S LICENSE NO. <u>2328</u> (Signed) <u>Larry Deharden</u> (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)																																																								
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																										
For TWC use only: Well No. <u>67-18-7</u> Located on map _____																																																										

WWD-012 (Rev. 09/21/88)

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Page # 2 out of 2
Water Well ID: 238805

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material
110	120	sand + sandy clay
120	148	blue sand
148	—	rock

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 10

Distance from Property: 0.37 mi. N

TRACK #: 563967

DATE ENTERED: 2021-01-13

OWNER NAME: MARIO MOLINA

OWNER ADDRESS: P. O. BOX 91

MCQUEENEY, TX 78123

COUNTY: GUADALUPE

LATITUDE: 29.644556000 LONGITUDE: -97.835111000

WELL LOG:

DRILLING DATE (STARTED): 2020-12-03

DRILLING DATE (COMPLETED): 2020-12-04

DEPTH DRILLED: 225'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED

WATER LEVEL DATE: 2020-12-04

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 11

Distance from Property: 0.38 mi. NE

ID NUMBER: TX238810
STATE ID : 67-18-8
OWNER NAME: PAUL BELL
DATE DRILLED: 03/22/2000
DEPTH DRILLED: 235'
STATIC LEVEL: 89'
WATER USAGE: DOMESTIC
LONGITUDE: -97.831056000
LATITUDE: 29.643536000

2 PAGE(S) OF DRILLERS' LOGS

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2

Water Well ID: 238810

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
CONFIDENTIALITY**

Section 32.005 of the Texas Water Code, concerning confidential information in the Reporting of Well Logs, reads as follows:

"Every licensed driller drilling, deepening or otherwise altering a water well within this State shall make and keep a legible and accurate well log in accordance with the department rule on forms prescribed by the department. Not later than the 60th day after the completion or cessation of drilling, deepening, or otherwise altering the well, the licensed driller shall deliver or transmit by certified mail a copy of the well log to the department and to the owner of the well or the person for whom the well was drilled. Each copy of a well log, other than a department copy must include the name, mailing address, and telephone number of the department. The well log shall be recorded at the time of drilling, and must show the depth, thickness, and character of the strata penetrated, the location of water bearing strata, the depth, size and character of casing installed, and any other information required by department rule. The department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner or person for whom the well was drilled."

The last sentence specifies the means whereby you may, if you wish, assure that logs of your wells will be kept confidential.

[illegible]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2

Water Well ID: 238810

• Send original copy by certified return receipt request

it to: TDLR, P.O. Box 12157, Austin, TX 78711

ATTENTION WELL OWNER: Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)				State of Texas		Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 512-463-7880																			
				WELL REPORT																					
1) OWNER <u>Paul Bell</u> <small>(Name)</small>		ADDRESS <u>P.O. Box 39</u> <small>(Street or RFD)</small>		<u>Kingsbury TX 78638</u> <small>(City) (State) (Zip)</small>																					
2) ADDRESS OF WELL'S LOCATION: County <u>Guadalupe</u> <u>290 Cross Rd.</u> <u>Kingsbury TX 78638</u> <small>(Street, RFD or other) (City) (State) (Zip)</small>				<u>Long.</u> <u>Lat.</u> <u>67-18-8</u> <small>Grid #</small>																					
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		(4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No				6)																			
5) WELL LOG: Date Drilling: _____ Started <u>3/21</u> ● <u>00</u> Completed <u>3/22</u> ● <u>00</u>		DIAMETER OF HOLE <table border="1" style="font-size: x-small; width:100%;"> <tr> <th>Dia. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td>6 1/2</td> <td>Surface</td> <td>250</td> </tr> <tr> <td>7 7/8</td> <td>Reamed</td> <td>235</td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	6 1/2	Surface	250	7 7/8	Reamed	235	7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other _____												
Dia. (in.)	From (ft.)	To (ft.)																							
6 1/2	Surface	250																							
7 7/8	Reamed	235																							
From (R.) To (L.) Description and color of formation material <u>0 - sand & gravel</u> <u>1 - clay & gravel</u> <u>4 - red clay</u> <u>7 - gravel</u> <u>9 - white clay</u> <u>20 - sand & sandy clay</u> <u>40 - grey clay</u> <u>72 - sand</u> <u>78 - grey clay</u> <u>115 - blue clay & rocks</u> <u>137 - rock</u> <u>140 - sandy clay & clay</u> <small>(Use reverse side of Well Owner's copy, if necessary)</small>		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed If Gravel Packed give interval from <u>170</u> ft. to <u>235</u> ft.		CASINO, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="font-size: x-small; width:100%;"> <tr> <th rowspan="2">Dia. (In.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Cage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>4</td> <td>N</td> <td>Plastic</td> <td>0</td> <td>235</td> <td>Sch 40</td> </tr> <tr> <td>"</td> <td>"</td> <td>Screen Mfg. 20°</td> <td>194</td> <td>234</td> <td>" "</td> </tr> </table>		Dia. (In.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casing Screen	From	To	4	N	Plastic	0	235	Sch 40	"	"	Screen Mfg. 20°	194	234	" "
Dia. (In.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casing Screen																				
			From	To																					
4	N	Plastic	0	235	Sch 40																				
"	"	Screen Mfg. 20°	194	234	" "																				
13) <input type="checkbox"/> Well plugged within 48 hours Casing left in well: _____ Cement/bentonite placed in well: _____ Sacks used: _____ <table border="1" style="font-size: x-small; width:100%;"> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>From (ft.)</th> <th>To (ft.)</th> <th>Sacks used</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		From (ft.)	To (ft.)	From (ft.)	To (ft.)	Sacks used																9) CEMENTING DATA Cemented from <u>0</u> ft. to <u>12</u> ft. No. of sacks used <u>1</u> <u> </u> ft. to <u> </u> ft. No. of sacks used <u> </u> Method used _____ Cemented by <u>Larry Deharde</u> Distance to septic system field lines or other concentrated contamination <u>120</u> ft. Method of verification of above distance <u>Wheel</u>			
From (ft.)	To (ft.)	From (ft.)	To (ft.)	Sacks used																					
14) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., <u>200</u> ft.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed <input checked="" type="checkbox"/> Specified Steel Sleeve Installed <input type="checkbox"/> Plug Adapter Used <input type="checkbox"/> Approved Alternative Procedure Used																							
15) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jotted <input checked="" type="checkbox"/> Estimated Yield: <u>5</u> gpm with <u>230</u> ft. drawdown after _____ hrs.		11) WATER LEVEL: Static level <u>89</u> ft. below land surface Date <u>3/22/2000</u> Artesian flow _____ gpm. Date _____																							
16) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12) PACKERS: <table border="1" style="font-size: x-small; width:100%;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td>1 - sack FREE-Hole Plug</td> <td>12'-15'</td> </tr> </table>						Type	Depth	1 - sack FREE-Hole Plug	12'-15'														
Type	Depth																								
1 - sack FREE-Hole Plug	12'-15'																								
I certify that I drilled this well (or the well was drilled under my direct supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 16 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Deharde Water Well Service</u> <small>(Type or print)</small>				WELL DRILLER'S LICENSE NO. <u>2328 WPK</u>																					
ADDRESS <u>1075 Schuenemann Rd.</u> <small>(Street or RFD)</small>				Sequin TX 78155 <small>(City) (State) (Zip)</small>																					
(Signed) <u>[Signature]</u> <small>(Licensed Well Driller)</small>				(Signed) _____ <small>(Registered Driller Trainee)</small>																					

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDLR FORM 001WWD (4/98)

Please attach electric log, chemical analysis, and other pertinent information, if available.

White - TOLR Yellow - DRILLER Pink - WELL OWNER

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 12

Distance from Property: 0.40 mi. ENE

ID NUMBER: TX238808
STATE ID : 67-18-8H
OWNER NAME: J D POWELL
DATE DRILLED: 08/10/1978
DEPTH DRILLED: 363'
STATIC LEVEL: 85'
WATER USAGE: DOMESTIC
LONGITUDE: -97.829085000
LATITUDE: 29.642032000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2

Water Well ID: 238808

2) LOCATION OF WELL:

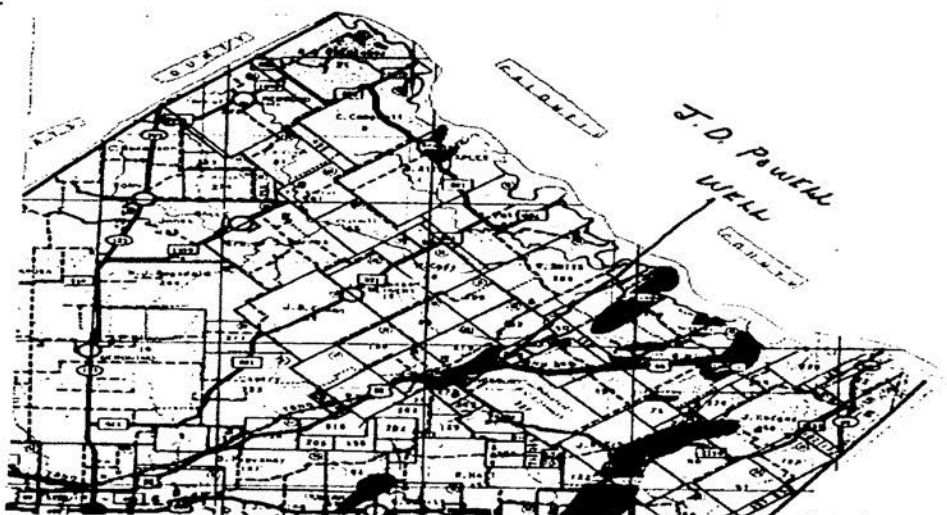
The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and directions given should be of a permanent nature (e.g. highway intersections, center of towns, river and creek bridges, railroad crossings). The distance and direction from the nearest town should always be indicated.

When giving a legal description include a sketch showing location of the well within the described area, e.g. survey abstract.

Information furnished in Section 2) of the TWDBE-GW-53 is very important. Unless the well can be accurately located on a map the value of the other data contained in the Report is greatly reduced.

0 - 12 gravel
12 - 90 grey clay
90 - 115 blue clay
115 - 120 sand + sandy clay
120 - 121 rock
121 - 140 sand + sandy clay
140 - 144 blue clay
144 - 154 sand
154 - 205 clay
205 - 206 rock
206 - 215 sand
215 - 218 rock
218 - 228 sand
228 - 245 sandy clay
245 - 249 sand tight
249 - 250 rock
250 - 270 clay
270 - 271 rock
271 - 363 clay



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FEB 8 '79

CR/TDWR

SEP 25 1978

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238808

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 238808
Located on map Yes
Received: 2/27/78

1) OWNER:
Person having well drilled J. D. Powell Address 269 Lee Seguin, Tex.
(Name) (Street or RFD) (City) (State)
Landowner _____ Address _____
(Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Brewster 1/2 miles in S direction from KINGS BURY
(N.E., S.W., etc.) (Town)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.
or Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey J. B. MILLER
Abstract No. B-231
(N½ N¼ SW¼ S¼) of Section _____

(Use reverse side if necessary)

3) TYPE OF WORK (Check):
New Well ☒ Deepening _____
Reconditioning _____ Plugging _____

4) PROPOSED USE (Check):
Domestic ☒ Industrial _____ Municipal _____
Irrigation _____ Test Well _____ Other _____

5) TYPE OF WELL (Check):
Rotary ☒ Driven _____ Dug _____
Cable _____ Jetted _____ Bored _____

6) WELL LOG:
Diameter of hole 10 3/4 in. Depth drilled 363 ft. Depth of completed well 228 ft. Date drilled 8-10-78
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
		<u>Log on reverse side</u>

9) CASING:
Type: Old _____ New ☒ Steel _____ Plastic ☒ Other _____
Cemented from 0 ft. to 3 ft.
Diameter (inches) _____ Setting _____
From (ft.) To (ft.) Case _____
4" 0 228 rel. 40

10) SCREEN:
Type PVC
Perforated _____ Slotted ☒
Diameter (inches) _____ Setting _____
From (ft.) To (ft.) Slot _____
4" 208 228 4x4 mm
153 163

7) COMPLETION (Check):
Straight well _____ Gravel packed ☒ Other _____
Under reamed _____ Open Hole _____

8) WATER LEVEL:
Static level 85 ft. below land surface Date 8-10-78
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.
below land surface. 1 HP PUMPS @ 150'

11) WELL TESTS:
Was a pump test made? Yes _____ No ☒ If yes, by whom? _____
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes _____ No ☒
Did any strata contain undesirable water? Yes _____ No ☒
Type of water? _____ depth of strata 206-228

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME ANTON O. DEHARBE Water Well Drillers Registration No. 1756
(Type or Print)
ADDRESS RT. 2 BOX 53 SEGWIN TEX
(Street or RFD) (City) (State)
(Signed) Anton O. Deharbe DEHARBE'S WATER WELL SERVICE
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 13

Distance from Property: 0.41 mi. NW

ID NUMBER: TX238792
STATE ID : 67-18-7E
OWNER NAME: H. N. NANCE
DATE DRILLED: 11/21/1933
DEPTH DRILLED: 136'
STATIC LEVEL: 73'
WATER USAGE: DOMESTIC
LONGITUDE: -97.857408000
LATITUDE: 29.632966000

2 PAGE(S) OF DRILLERS' LOGS

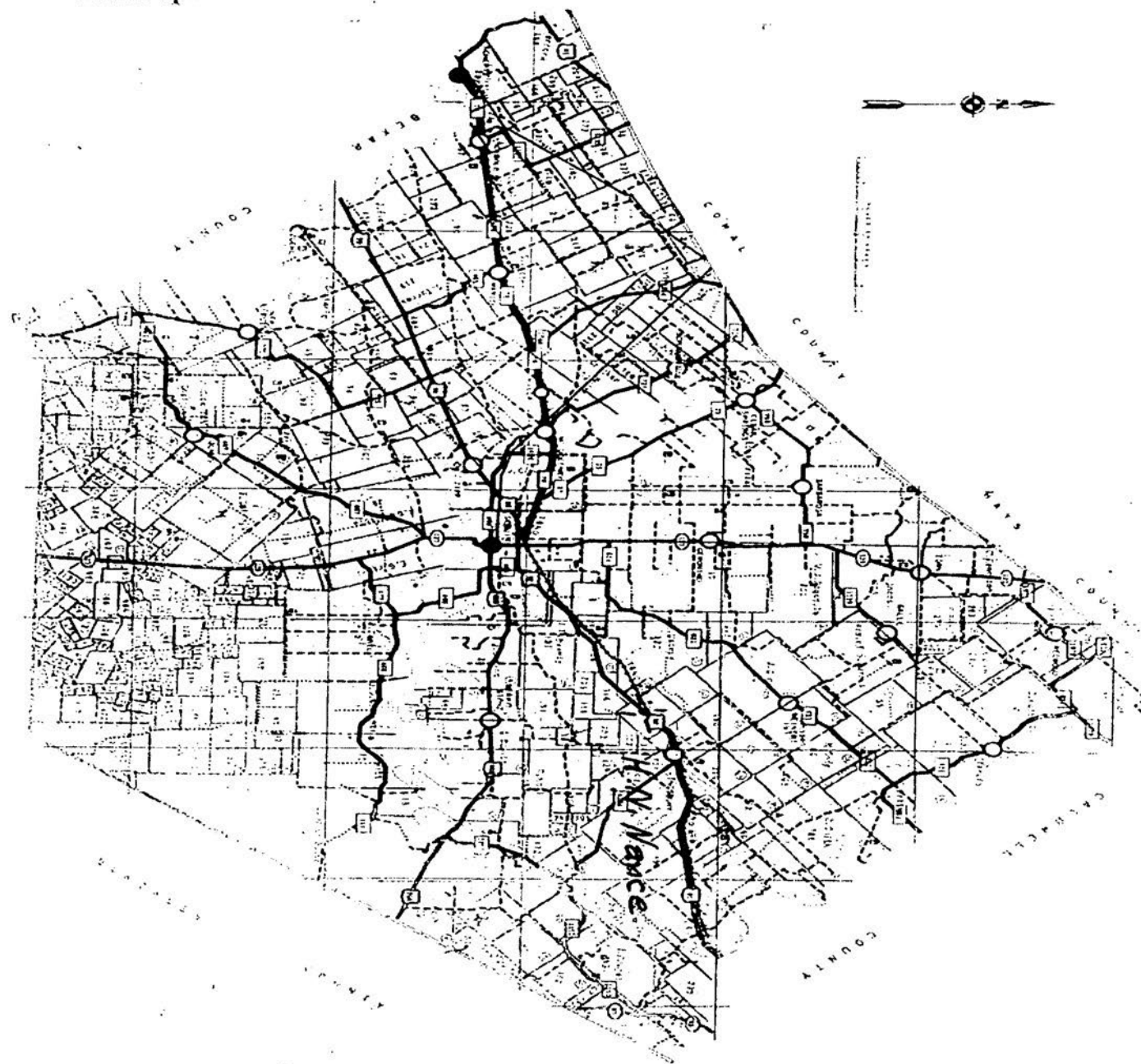
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238792

Guadalupe



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238792

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 42-18-2 E
Located on map 245
Received: 7/11/95
dlc

1) OWNER:
Person having well drilled H. N. Nance (Name)
Landowner H (Name)
Address 2975 Hockberry (Street or RFD) New Braunfels (City) Texas (State)

2) LOCATION OF WELL:
County Guadalupe 9 miles in E direction from Seguin (Town)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.*
(Use reverse side if necessary)

3) TYPE OF WORK (Check):
New Well ☒ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☒ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 136 ft. Depth of completed well 136 ft. Date drilled 11-21-73
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0 - 28		Brown Clay
28 - 45		Brown Sand
45 - 85		Brown Sandy shale
85 - 131		Blue Sand
131 - 136		Blue Clay

9) CASING:
Type: Old ☐ New ☒ Steel ☐ Plastic ☒ Other ☐
Cemented from 0 ft. to 4 ft.
Diameter (inches) 4" Setting From (ft.) 0 To (ft.) 136 Gauge 200

10) SCREEN:
Type: P.V.C.
Perforated ☐ Slotted ☒
Diameter (inches) 4 Setting From (ft.) 116 To (ft.) 136 Slot Size 1/8" x 4 rows

7) COMPLETION (Check):
Straight well ☐ Gravel packed ☐ Other ☐
Under reamed ☐ Open Hole ☐

8) WATER LEVEL:
Static level 73 ft. below land surface Date 11-21-73
Artesian pressure 0 lbs. per square inch Date 11-21-73
Depth to pump (bowl) cylinder, jet, etc., 100 ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: 22 @ 150' gpm with 0 ft. drawdown after 0 hrs.
Bailer test 0 gpm with 0 ft. drawdown after 0 hrs.
Artesian flow 0 gpm
Temperature of water 0

12) WATER QUALITY:
Was a chemical analysis made? Yes ☐ No ☐
Did any strata contain undesirable water? Yes ☐ No ☐
Type of water? 0 depth of strata 0

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Chas. L. Behrens (Type or Print) Water Well Drillers Registration No. 496
ADDRESS Rt. 2 Box 242F (Street or RFD) Seguin, Texas 78155 (City) TX (State)
(Signed) Chas. L. Behrens (Water Well Driller)

Please attach electric log, chemical analysis, and other pertinent information, if available.
*Additional instructions on reverse side.

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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 14

Distance from Property: 0.43 mi. E

TRACK #: 223401

DATE ENTERED: 2010-07-15

OWNER NAME: GRAFE, BOB

OWNER ADDRESS: PO BOX 218

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.639722000 LONGITUDE: -97.827778000

WELL LOG:

DRILLING DATE (STARTED): 2010-06-21

DRILLING DATE (COMPLETED): 2010-06-21

DEPTH DRILLED: 220'

WATER LEVEL:

STATIC LEVEL: 120'

WATER LEVEL DATE: 2010-06-21

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD.

SEGUIN, TX 78155

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 15

Distance from Property: 0.44 mi. NNE

ID NUMBER: TX238814
STATE ID : 67-18-8
OWNER NAME: FAUSTINO OBRERO
DATE DRILLED: 09/18/1988
DEPTH DRILLED: 240'
STATIC LEVEL: 100'
WATER USAGE: DOMESTIC
LONGITUDE: -97.831304000
LATITUDE: 29.644852000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2

Water Well ID: 238814

Please use black ink. Send original copy by certified mail to the Texas Water Commission, P.O. Box 13087, Austin, Texas 78711.

State of Texas
WATER WELL REPORT
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER: Trustin Otero (Name) Address: Don Delivery Kingbury, TX 78638 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County: Guadalupe 1/4 miles in SW direction from Kingbury (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey line, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 9-12-1988 Completed 9-18-1988

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
4 3/4	0 - 4	gravel
6 3/4	4 - 35	clay
	35 - 50	sandy clay
	50 - 68	spilly clay
	68 - 85	clay & dark shales
	85 - 100	clay & grey shales
	100 - 140	" "
	140 - 150	sand & sandy clay
	150 - 175	clay & shales
	175 - 210	sandy clay & shales
	210 -	clay (shales & Rks) shales

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Well ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casing Screen
			From	To	
4	N	Plastic	0	160	225
"	"	mgf. screen	140	160	"

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 0 ft. to 10 ft. No. of Sacks Used 1
Cemented by Larry Decharde

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☒ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 100' ft. below land surface Date 9-18
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth _____

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 140 ft.

14) WELL TESTS:
Type Test: ☒ Pump ☐ Bailor ☐ Jetted ☒ Estimated
Yield: 5 gpm with _____ ft. drawdown after _____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata? _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME: DECHARDE'S W.W. SERV. (Type or Print) Water Well Driller's License No. 2828

ADDRESS: 25 Box 440 (Street or RFD) SEGUIN (City) TX (State) 78155 (Zip)

(Signed) Larry Decharde (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 62-18-8
Located on map _____

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 16

Distance from Property: 0.45 mi. E

ID NUMBER: TX238802

STATE ID : 67-18-7B

OWNER NAME: LELAND LORENZO

DATE DRILLED: 06/16/1971

DEPTH DRILLED: 316'

STATIC LEVEL: 150'

WATER USAGE: DOMESTIC

LONGITUDE: -97.827305000

LATITUDE: 29.634058000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238802

Send original copy by certified mail to the Texas Water Development Board
P. O. Box 12386
Austin, Texas 78711

STATE OF TEXAS
WATER WELL REPORT

For TWDB Use only
Well No. 67-18-73
Located on map Yes
Received 7/1

1) OWNER:
Person having well drilled Leland Lorenzo Address Kingsbury, Tex 78138
Landowner 17 (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Blaine 1 mile in 5 direction from Kingsbury
(N., E., S., W., etc.) (Town)
Locate by sketch map showing landmarks, roads, tracks, highway number, etc.*
Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW 1/4 NE 1/4 SW 1/4 SE 1/4) of Section _____

3) TYPE OF WORK (Check):
New Well ☒ Deepening _____
Reconditioning _____ Plugging _____

4) PROPOSED USE (Check):
Domestic ☒ Industrial _____ Municipal _____
Irrigation _____ Test Well _____ Other _____

5) TYPE OF WELL (Check):
Rotary ☒ Driven _____ Dug _____
Cable _____ Jetted _____ Bored _____

6) WELL LOG:
Diameter of hole 6 5/8 in. Depth drilled 316 ft. Depth of completed well 220 ft. Date drilled 6-16-71
All measurements made from 1 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	100	yellow clay
100	125	yellow sand
125	170	blue shale
170	175	sand
175	316	blue shale

plugged back to 220 ft.
dry below 220 ft.

7) COMPLETION (Check):
Straight wall _____ Gravel packed ☒ Other _____
Under reamed _____ Open Hole _____

8) WATER LEVEL:
Static level 150 ft. below land surface Date 6/16/71
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., 154 ft. below land surface.

9) CASING:
Type: Old _____ New ☒ Steel _____ Plastic ☒ Other _____
Cemented from _____ ft. to _____ ft.
Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Gauge _____

10) SCREEN:
Type: Perforated ☒ Slotted _____
Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Slot Size _____

11) WELL TESTS:
Was a pump test made? Yes _____ No ☒ If yes, by whom? _____
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes _____ No ☒
Did any strata contain undesirable water? Yes _____ No ☒
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME ALFRED BROWN (Type or Print) Water Well Drillers Registration No. 310
ADDRESS P.O. Box 42 (Street or RFD) Kingsbury (City) Tex (State)
(Signed) Alfred Brown (Water Well Driller) Alfred Brown Waterwell Driller Service (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GW-53

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 17

Distance from Property: 0.46 mi. NW

ID NUMBER: TX238816
STATE ID : 67-18-8M
OWNER NAME: CRYSTAL CLEAR WATER SUPPLY
DATE DRILLED: 11/11/1974
DEPTH DRILLED: 285'
STATIC LEVEL: 132'
WATER USAGE: OTHER
LONGITUDE: -97.845452000
LATITUDE: 29.642877000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238816

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 67-18-816
Located on map 4-5
Revised: 7-5-85

1) OWNER:
Person having well drilled Crystal Clear Water Supply Address P.O. Box 505, Kingsbury, Texas
(Name) (Street or RFD) (City) (State)
Landowner _____ Address _____ (City) (State)
(Name) (Street or RFD)

2) LOCATION OF WELL:
County Guadalupe _____ miles in _____ direction from Kingsbury, Texas
(N, NE, E, SE, S, SW, W, NW) (Town)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.*
OR
Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey J.H. Kuykendall
Abstract No. A-191
(NW, NE, SW, SE) of Section 3E

3) TYPE OF WORK (Check):
New Well ☒ Deepening _____
Reconditioning _____ Plugging _____

4) PROPOSED USE (Check):
Domestic _____ Industrial _____ Municipal _____
Irrigation _____ Test Well _____ Other ☒

5) TYPE OF WELL (Check):
Rotary ☒ Driven _____ Dug _____
Cable _____ Jetted _____ Bored _____

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 285 ft. Depth of completed well 254 ft. Date drilled 11-11-74
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	12	gravel
12	50	yellow clay
50	87	gray clay
87	157	blue clay
157	159	blue rock
159	206	coarse blue sand
206	223	blue sandy clay
223	254	fine blue sand
254	285	blue clay

7) CASING:
Type: Old _____ New ☒ Steel _____ Plastic ☒ Other _____
Cemented from + 7" ft. to 17' ft.
Diameter (inches) _____ Setting _____ To (ft.) _____ Case _____
5 + 1.6 - 254 200

10) SCREEN:
Type P.V.C.
Perforated _____ Slotted ☒
Diameter (inches) _____ From (ft.) _____ To (ft.) _____ Slot Size _____
5" 196 - 206 1/2" X 6 rows
5" 224 - 254 1/2" X 6 rows

7) COMPLETION (Check):
Straight well _____ Gravel packed ☒ 24 yds 4" Other _____
Under reamed _____ Open Hole _____

8) WATER LEVEL:
Static level 192 ft. below land surface Date 11-11-74
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc. 195 ft. below land surface.
5 hp 230V 3Ø
NPS Model I15C30

11) WELL TESTS:
Was a pump test made? Yes ☒ No _____ If yes, by whom? Charles L. Behrens
Yield: 46.1 gpm with 195 ft. drawdown after 6 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm Note: 40 gpm @ 180'
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes _____ No ☒
Did any strata contain undesirable water? Yes _____ No ☒
Type of water? _____ Depth of strata 196-254

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME (Type or Print) Chas. L. Behrens Water Well Drillers Registration No. 496
ADDRESS (Street or RFD) Rt. 2 Box 242F (City) Seguin, Texas (State) 78155
(Signed) Charles L. Behrens (Water Well Driller) _____ (Company Name) _____

Please attach electric log, chemical analysis, and other pertinent information, if available. KX 67-18-806

*Additional instructions on reverse side.

Hardness — 13.0
Ph — 7.0
Iron — 0.3

GeoSearch

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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

MAP ID# 18

Distance from Property: 0.48 mi. NNW

STATE ID: 67-18-703
OWNER'S NAME: F. SCHMIDT WELL 1
DATE DRILLED: 00/00/1959
DEPTH DRILLED: 2157'
WATER USAGE:
LONGITUDE: -97.841945000
LATITUDE: 29.644722000
SOURCE: TWDB

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 19

Distance from Property: 0.48 mi. NE

TRACK #: 197520

DATE ENTERED: 2009-10-28

OWNER NAME: KUHN, LEONORA S.

OWNER ADDRESS: PO BOX 27

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.643611000 LONGITUDE: -97.828611000

WELL LOG:

DRILLING DATE (STARTED): 2008-12-30

DRILLING DATE (COMPLETED): 2008-12-30

DEPTH DRILLED: 230'

WATER LEVEL:

STATIC LEVEL: 106'

WATER LEVEL DATE: 2008-12-31

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD.

SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 20

Distance from Property: 0.49 mi. E

TRACK #: 194526

DATE ENTERED: 2009-09-28

OWNER NAME: BRANDON BAKER

OWNER ADDRESS: P.O. BOX 100

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.638334000 LONGITUDE: -97.826667000

WELL LOG:

DRILLING DATE (STARTED): 2005-12-14

DRILLING DATE (COMPLETED): 2005-12-14

DEPTH DRILLED: 323'

WATER LEVEL:

STATIC LEVEL: 109'

WATER LEVEL DATE: 2005-12-14

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 21

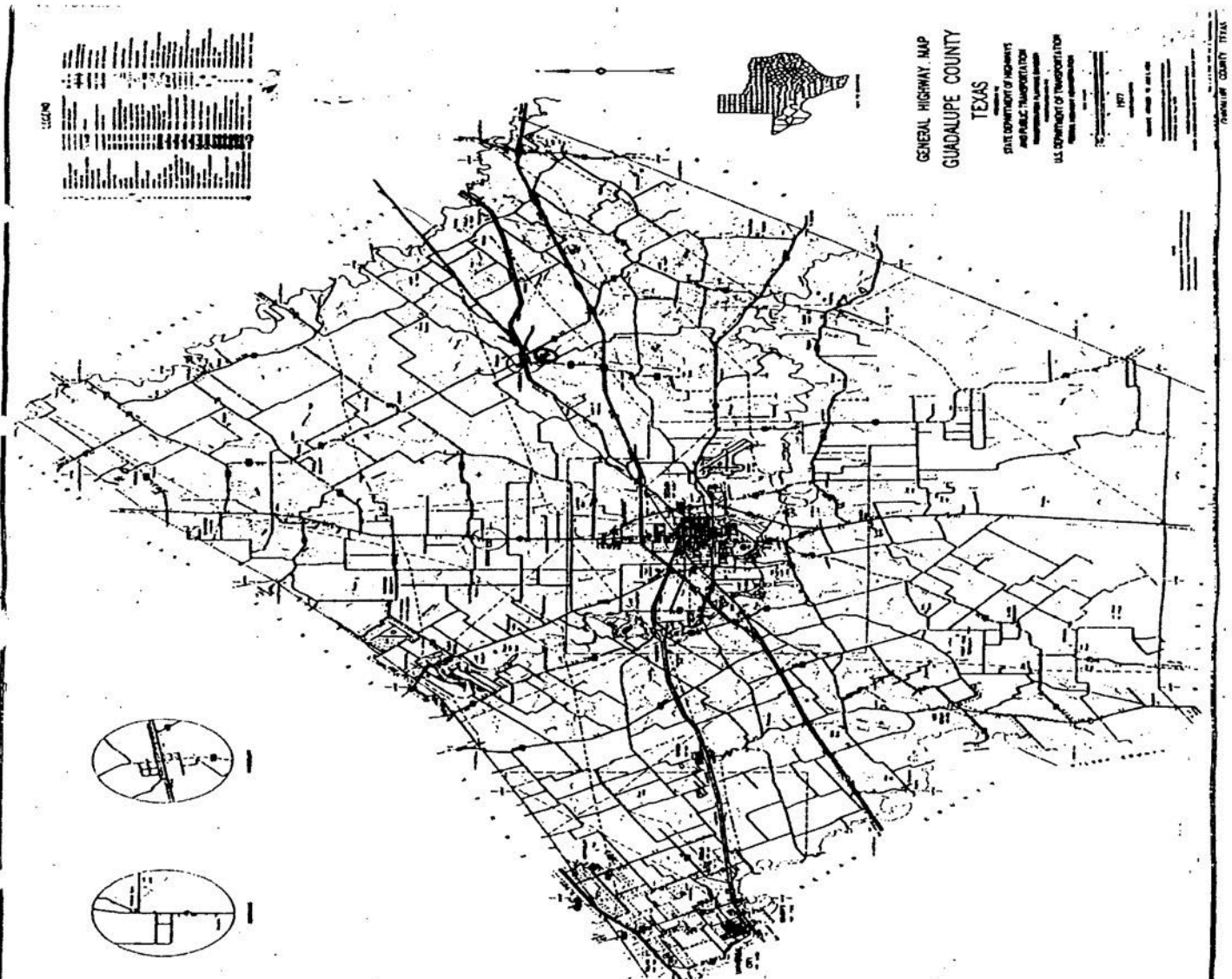
Distance from Property: 0.49 mi. E

ID NUMBER: TX238813
STATE ID : 67-18-8
OWNER NAME: CHRIS WRAMP
DATE DRILLED: 07/23/1994
DEPTH DRILLED: 270'
STATIC LEVEL: 90'
WATER USAGE: DOMESTIC
LONGITUDE: -97.826652000
LATITUDE: 29.639321000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238813



CHRIS WAMP

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238813

Send original copy, certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13087 Austin, Texas 78711																					
1) OWNER <u>CHRIS INRAmp.</u> ADDRESS <u>815 CROSSROADS KINLAID, TX 78155</u> (Name) (Street or RFD) (City) (State) (Zip)																									
2) LOCATION OF WELL: County <u>GRADY</u> miles in <u>5</u> direction from <u>KINGBURY</u> (NE, SW, etc.) (Town)																									
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Section Texas County General Highway Map and attach the map to this form.																									
<input type="checkbox"/> LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____																									
<input checked="" type="checkbox"/> SEE ATTACHED MAP																									
3) TYPE OF WORK (Check): <input type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Monitor <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Injection <input type="checkbox"/> De-Watering		5) DRILLING METHOD (Check): <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other _____																					
6) WELL LOG: Date Drilling: <u>7-21-94</u> Started: <u>7-23-94</u> Completed: _____		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Dis. (In.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td><u>7 7/8</u></td> <td>Surface</td> <td><u>270</u></td> </tr> </table>		Dis. (In.)	From (ft.)	To (ft.)	<u>7 7/8</u>	Surface	<u>270</u>	7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Well <input type="checkbox"/> Underreamed <input type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>80</u> ft. to <u>100</u> ft.															
Dis. (In.)	From (ft.)	To (ft.)																							
<u>7 7/8</u>	Surface	<u>270</u>																							
From (ft.) To (ft.) Description and color of formation material		8) CASING, BLANK PIPE, AND WELL SCREEN DATA:																							
<u>0-6 Flint Rock</u> <u>6-10 clay</u> <u>6-60 sandy clay</u> <u>60-120 shale</u> <u>120-150 shale</u> <u>150-151 Rock</u> <u>151-170 shale</u> <u>170-175 shale</u> <u>175-176 Rock</u> <u>175-180 shale</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dis. (In.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Part, Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>PLASTIC</u></td> <td><u>0</u></td> <td><u>180</u></td> <td><u>180</u></td> </tr> <tr> <td></td> <td></td> <td><u>SCREEN</u></td> <td><u>160</u></td> <td><u>180</u></td> <td><u>180</u></td> </tr> </table>				Dis. (In.)	New or Used	Steel, Plastic, etc. Part, Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4</u>	<u>N</u>	<u>PLASTIC</u>	<u>0</u>	<u>180</u>	<u>180</u>			<u>SCREEN</u>	<u>160</u>	<u>180</u>	<u>180</u>
Dis. (In.)	New or Used	Steel, Plastic, etc. Part, Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen																				
			From	To																					
<u>4</u>	<u>N</u>	<u>PLASTIC</u>	<u>0</u>	<u>180</u>	<u>180</u>																				
		<u>SCREEN</u>	<u>160</u>	<u>180</u>	<u>180</u>																				
(Use reverse side if necessary)		9) CEMENTING DATA (Rule 267.44(1)) Cemented from <u>0</u> ft. to <u>10</u> ft. No. of Sacks Used <u>3</u> _____ ft. to _____ ft. No. of Sacks Used _____ Method used <u>SELF</u> Cemented by <u>Heather Paul</u>																							
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Other _____ Depth to pump bowl, cylinder, jet, etc., <u>160</u> ft.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 267.44(2)(A)] <input type="checkbox"/> Specified Steel Sleeve Installed [Rule 267.44(3)(A)] <input type="checkbox"/> Pile Adapter Used [Rule 267.44(3)(B)] <input checked="" type="checkbox"/> Approved Alternative Procedure Used [Rule 267.71]																							
14) WELL TESTS: Type Test: <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Baller <input type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>7</u> gpm with <u>170</u> ft. drawdown after <u>2</u> hrs.		11) WATER LEVEL: Static level <u>90</u> ft. below land surface Date <u>7-24-94</u> Artesian flow _____ gpm. Date _____																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12) PACKERS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>				Type	Depth																		
Type	Depth																								
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Heather Paul</u> WELL DRILLER'S LICENSE NO. <u>1137</u> (Type or print)		ADDRESS <u>RT 3, Box 822</u> <u>Sevin</u> <u>TX</u> <u>78155</u> (Street or RFD) (City) (State) (Zip)																							
(Signed) <u>Robert Hebert</u> (Licensed Well Driller)		(Signed) <u>Heather Paul</u> (Registered Driller Trainee)																							
Please attach electric log, chemical analysis, and other pertinent information, if available.																									
For TNRCC use only: Well no. _____ Located on map <u>67-18-8</u>																									

TNRCC-0199 (Rev. 05-18-90)

TNRCC COPY

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 22

Distance from Property: 0.50 mi. E

ID NUMBER: TX238822
STATE ID : 67-26-2D
OWNER NAME: J. W. COFFEY
DATE DRILLED: 01/01/1976
DEPTH DRILLED: 188'
STATIC LEVEL: 120'
WATER USAGE: DOMESTIC
LONGITUDE: -97.826161000
LATITUDE: 29.623309000

2 PAGE(S) OF DRILLERS' LOGS

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238822

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TWDB use only Well No. <u>62-36-20</u> Located on map <u>Yes</u> Received <u>6/2/76</u>																									
1) OWNER: Person having well drilled <u>J. W. Coffey</u> (Name) Address <u>Houston, Texas</u> (City) (State) Landowner <u>J.W. Coffey</u> (Name) Address <u>Houston, Texas</u> (City) (State)																													
2) LOCATION OF WELL: <u>Guadalupe</u> County, _____ miles in _____ direction from _____ (Town) Locate by sketch map showing landmarks, roads, creeks, highway number, etc.* <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> North ↑ (Use reverse side if necessary) </div> <div style="font-size: x-small;"> Give legal location with distances and directions from adjacent sections or survey lines. Labor _____ League _____ Block _____ Survey _____ Abstract No. _____ (NW¼ NE¼ SW¼ SE¼) of Section _____ </div> </div>																													
3) TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening _____ Reconditioning _____ Plugging _____		4) PROPOSED USE (Check): Domestic <input checked="" type="checkbox"/> Industrial _____ Municipal _____ Irrigation _____ Test Well _____ Other _____		5) TYPE OF WELL (Check): Rotary _____ Driven _____ Dug _____ Cable <input checked="" type="checkbox"/> Jetted _____ Bored _____																									
6) WELL LOG: Diameter of hole <u>6</u> in. Depth drilled <u>187</u> ft. Depth of completed well <u>188</u> ft. Date drilled <u>1/1/76</u> All measurements made from <u>1</u> ft. above ground level.																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>6</td><td>flint rock & clay</td></tr> <tr><td>6</td><td>90</td><td>mixed clay and sand</td></tr> <tr><td>90</td><td>150</td><td>shale</td></tr> <tr><td>50</td><td>155</td><td>rock</td></tr> <tr><td>155</td><td>165</td><td>shale</td></tr> <tr><td>165</td><td>179</td><td>rock</td></tr> <tr><td>170</td><td>187</td><td>quick sand</td></tr> </tbody> </table>			From (ft.)	To (ft.)	Description and color of formation material	0	6	flint rock & clay	6	90	mixed clay and sand	90	150	shale	50	155	rock	155	165	shale	165	179	rock	170	187	quick sand	9) CASING: Type: Old _____ New <input checked="" type="checkbox"/> Steel _____ Plastic <input checked="" type="checkbox"/> Other _____ Cemented from _____ ft. to _____ ft. Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Casing Size _____		
From (ft.)	To (ft.)	Description and color of formation material																											
0	6	flint rock & clay																											
6	90	mixed clay and sand																											
90	150	shale																											
50	155	rock																											
155	165	shale																											
165	179	rock																											
170	187	quick sand																											
7) COMPLETION (Check): Straight well _____ Gravel packed <input checked="" type="checkbox"/> Other _____ Under reamed _____ Open Hole _____			10) SCREEN: Type _____ Perforated <input checked="" type="checkbox"/> Slotted _____ Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Slot Size _____																										
8) WATER LEVEL: Static level <u>120</u> ft. below land surface Date <u>1/3/76</u> Artesian pressure _____ lbs. per square inch Date _____ Depth to pump bowls, cylinder, jet, etc., <u>150</u> ft. below land surface.			11) WELL TESTS: Was a pump test made? Yes _____ No <input checked="" type="checkbox"/> If yes, by whom? _____ Yield: _____ gpm with _____ ft. drawdown after _____ hrs. Bailor test _____ gpm with _____ ft. drawdown after _____ hrs. Artesian flow _____ gpm Temperature of water _____																										
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.			12) WATER QUALITY: Was a chemical analysis made? Yes _____ No <input checked="" type="checkbox"/> Did any strata contain undesirable water? Yes _____ No <input checked="" type="checkbox"/> Type of water? _____ depth of strata _____																										
NAME <u>Alfred Brown</u> (Type or Print) ADDRESS <u>P.O. Box 42</u> (Street or RFD) <u>Kingsbury</u> (City) <u>Texas 78638</u> (State) (Signed) <u>Alfred Brown</u> (Water Well Driller) <u>Alfred Brown Waterwell Drlg. & Service</u> (Company Name)		Water Well Drillers Registration No. <u>310</u>																											

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238822

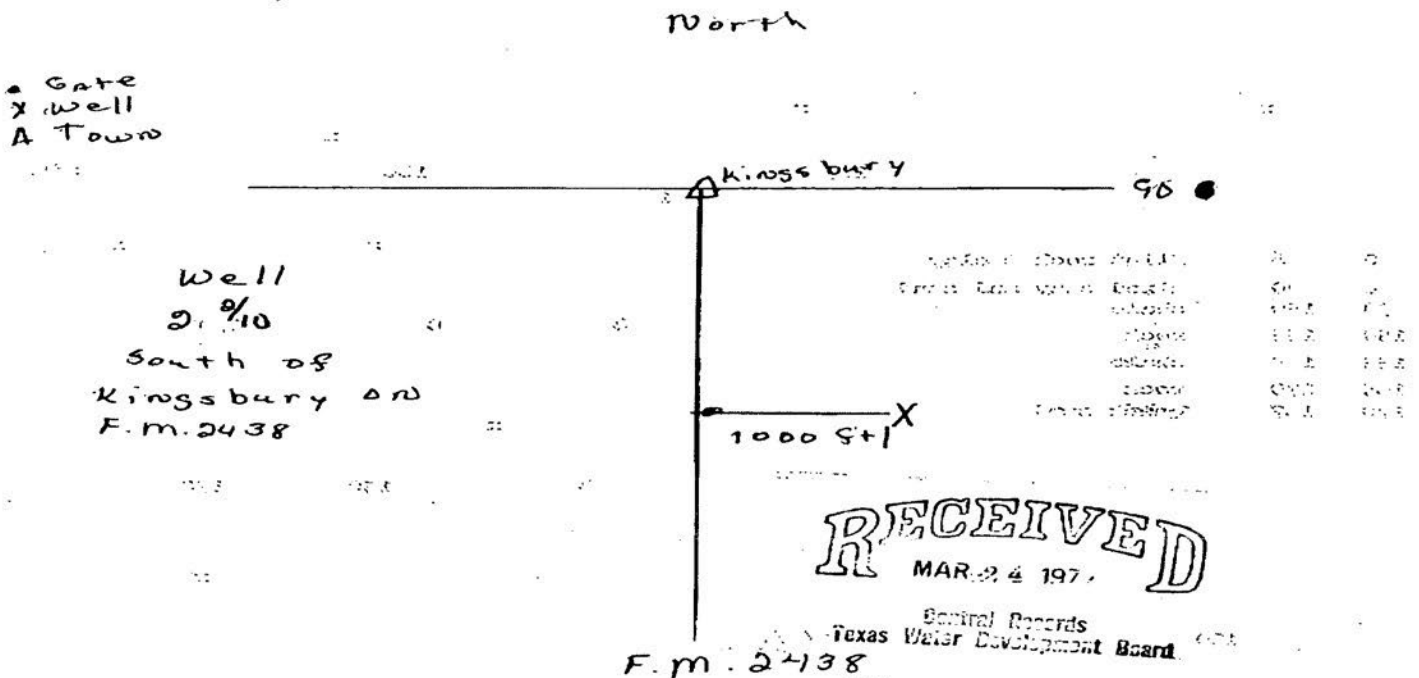
2) LOCATION OF WELL:

The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and directions given should be of a permanent nature (e.g. highway intersections, center of towns, river and creek bridges, railroad crossings). The distance and direction from the nearest town should always be indicated.

When giving a legal description include a sketch showing location of the well within the described area, e.g. survey abstract.

Information furnished in Section 2) of the TWDBE-GW-53 is very important. Unless the well can be accurately located on a map the value of the other data contained in the Report is greatly reduced.



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AUG 19 1976
TEXAS WATER
DEVELOPMENT BOARD

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 23

Distance from Property: 0.51 mi. NW

ID NUMBER: TX238799
STATE ID : 67-18-7
OWNER NAME: JOHN BREAZEAK
DATE DRILLED: 07/25/1986
DEPTH DRILLED: 135'
STATIC LEVEL: 100'
WATER USAGE: DOMESTIC
LONGITUDE: -97.852813000
LATITUDE: 29.638361000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238799

1.2 mi. S-NL
1.3 mi. E-WL

Please use black ink. Send original copy by certified mail to the Texas Water Commission, P.O. Box 13087, Austin, Texas 78711.

State of Texas
WATER WELL REPORT
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER: John Breazeal (Name) Address: 5122 Rispa San Antonio TX (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County: Guadalupe 2.5 miles in N.W. direction from Kingsbury TX (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Section Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map. 67-33-4

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG: Date Drilling: Started 7-25-86 Completed 7-25-86

DIAMETER OF HOLE		Description and color of formation material
Dis. (in.)	From (ft.) To (ft.)	
	Surface	135
0-2		SURFACE GRAVEL
2-15		RED CLAY
15-36		RED SANDY CLAY
36-60		WHITE SANDY CLAY
60-100		DAKE GRAY CLAY
100-135		LIGHT GRAY FN SAND

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dis. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgt., if commercial	Setting (ft.)		Gapn Casing Screen
			From	To	
4	N	PLASTIC	1.5	115	
4	N	.012 SCREEN	115	135	.012

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 1 ft. to 15 ft. No. of Sacks Used 3.5
Method used MIXED + POURED
Cemented by JOHN EVANS DRILL

10) SURFACE COMPLETION: ☐ Specified Surface Slab Installed [Rule 319.44(c)] ☐ Pileless Adapter Used [Rule 319.44(d)] ☒ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL: Static level 100' ft. below land surface Date 7-25-86
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth _____
PRE FAB RUBBER 115

13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 100' ft.

14) WELL TESTS: Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 10 gpm with 10 ft. drawdown after 2 hrs.

15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME John Evans Drill (Type or Print) Water Well Driller's License No. 1729

ADDRESS RT 1 Box 60A Kingsbury TX (Street or RFD) (City) (State) (Zip) 79638

(Signed) [Signature] (Licensed Water Well Driller) (Signed) [Signature] (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only Well No. 67-18-7 Located on map [Mark]

TWC-0392 (Rev. 06-10-85)

TEXAS WATER COMMISSION COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 24

Distance from Property: 0.52 mi. WNW

ID NUMBER: TX238800
STATE ID : 67-18-7
OWNER NAME: FRED THOMPSON
DATE DRILLED: 07/26/1985
DEPTH DRILLED: 135'
STATIC LEVEL: 105'
WATER USAGE: DOMESTIC
LONGITUDE: -97.860411000
LATITUDE: 29.632504000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238800

Please use black ink.
Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Fred Thompson (Name) Address 1306 SEPPELSON #4 SAGUIN TX 78155 (City) (State) (Zip)

2) LOCATION OF WELL: County Guadalupe 7 miles in N.E. direction from SEGUIN TX (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map. map on 67-19-7J

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jotted ☐ Other _____

6) WELL LOG:
Date drilled 7-26-85

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
<u>6 3/4</u>	Surface <u>135</u>	

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Well ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 105 ft. to 135 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casing Screen
			From	To	
<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>115</u>	<u>115</u>	
<u>4</u>	<u>N</u>	<u>Plastic Slotted</u>	<u>115</u>	<u>135</u>	

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 7 ft. to 15 ft.
Method used Mixed & Poured
Cemented by JOHN EVANS DRLLG

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 319.44(c)]
☒ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 105 ft. below land surface Date 7-26-85
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth _____

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 120 ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated
Yield: 10 gpm with 10 ft. drawdown after 2 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME JOHN EVANS DRLLG Water Well Driller's License No. 1729
(Type or Print)

ADDRESS 113 NAVASOTA LN SAGUIN TX 78155 (Street or RFD) (City) (State) (Zip)

(Signed) [Signature] (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TOWR use only
Well No. 67-18-7J
Located on map YBSC-F.S.

TOWR-0392 (12/29/83)

DEPARTMENT OF WATER RESOURCES COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 25

Distance from Property: 0.53 mi. S

TRACK #: 543807

DATE ENTERED: 2020-05-21

OWNER NAME: DAN DWYER

OWNER ADDRESS: 7975 E IH 10

SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.613639000 LONGITUDE: -97.847222000

WELL LOG:

DRILLING DATE (STARTED): 2020-05-11

DRILLING DATE (COMPLETED): 2020-05-11

DEPTH DRILLED: 126'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED

WATER LEVEL DATE: 2020-05-11

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 26

Distance from Property: 0.53 mi. E

ID NUMBER: TX238812
STATE ID : 67-18-8
OWNER NAME: JOHN MERRITT
DATE DRILLED: 10/22/1997
DEPTH DRILLED: 220'
STATIC LEVEL: 120'
WATER USAGE: DOMESTIC
LONGITUDE: -97.825959000
LATITUDE: 29.637517000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238812

Send original copy by certified return receipt requested mail to: JRC, MC 177, P.O. Box 13087, Austin, TX 78711-3087

ATTENTION OWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council MC 177 P.O. Box 13087 Austin, TX 78711-3087 512-238-0530																					
1) OWNER: <u>John Merritt</u> (Name)		ADDRESS <u>15015 Old Creek</u> (Street or RFD)		San Antonio TX 78217 (City) (State) (Zip)																					
2) ADDRESS OF WELL: County <u>Guadalupe</u> (Street, RFD or other)		<u>875 Cross Rd.</u> Kingsbury TX 78638 (City) (State) (Zip)		GRID # <u>67-18-8</u>																					
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5)																					
6) WELL LOG: Date Drilling: <u>10/22 1997</u> Started <u>10/22 1997</u> Completed <u>10/22 1997</u>		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Dia. (in.)</th> <th style="width: 33%;">From (ft.)</th> <th style="width: 33%;">To (ft.)</th> </tr> <tr> <td>6 1/8</td> <td>Surface</td> <td>240</td> </tr> <tr> <td>7 7/8</td> <td>"</td> <td>220</td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	6 1/8	Surface	240	7 7/8	"	220	7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other												
Dia. (in.)	From (ft.)	To (ft.)																							
6 1/8	Surface	240																							
7 7/8	"	220																							
From (ft.) To (ft.) Description and color of formation material		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other If Gravel Packed give interval ... from <u>170</u> ft. to <u>220</u> ft.																							
0 - clay 5 - gravel 8 - clay 60 - sandy clay 100 - clay 133 - sand 140 - clay 165 - rock 166 - clay 186 - sand & clay streaks 196 - rock 197 clay 201 - rock 203 - clay		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>4</td> <td>N</td> <td>Plastic</td> <td>0</td> <td>220</td> <td>Sch40</td> </tr> <tr> <td>4</td> <td>N</td> <td>Screen mfg. 16°</td> <td>180</td> <td>200</td> <td>" "</td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen	From	To	4	N	Plastic	0	220	Sch40	4	N	Screen mfg. 16°	180	200	" "
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen																				
			From	To																					
4	N	Plastic	0	220	Sch40																				
4	N	Screen mfg. 16°	180	200	" "																				
(Use reverse side of Well Owner's copy, if necessary)		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>12</u> ft. No. of sacks used <u>1</u> Method used _____ Cemented by <u>Larry Deharde</u> Distance to septic system held lines or other concentrated contamination <u>?</u> ft. Method of verification of above distance <u>None</u>																							
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., <u>180</u> ft.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 338.44(2)(A)] <input checked="" type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pileless Adapter Used [Rule 338.44(3)(b)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 338.71]																							
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input checked="" type="checkbox"/> Estimated Yield: <u>9</u> gpm @ <u>220</u> ft. drawdown after _____ hrs.		11) WATER LEVEL: Static level <u>120</u> ft. below land surface Date <u>10/22/97</u> Artesian flow _____ gpm. Date _____																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12) PACKERS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">Type</th> <th style="width: 40%;">Depth</th> </tr> <tr> <td>4 - sacks Hole Plug</td> <td>160'-170'</td> </tr> <tr> <td>4" + 7" Rubber Packer</td> <td>220'</td> </tr> </table>				Type	Depth	4 - sacks Hole Plug	160'-170'	4" + 7" Rubber Packer	220'														
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I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Deharde Water Well Service</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>2328 WPK</u>																							
ADDRESS <u>1075 Schuenemann Rd.</u> (Street or RFD)		Seguin TX 78155 (City) (State) (Zip)																							
(Signed) <u>Larry Deharde</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																							
Please attach electric log, chemical analysis, and other pertinent information, if available.																									

TNRCC-0199 (Rev. 05-21-96)

White - TNRCC

Yellow - DRILLER

Pink - WELL OWNER

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 27

Distance from Property: 0.55 mi. NE

ID NUMBER: TX238819
STATE ID : 67-18-8
OWNER NAME: CECIL RICKETTS
DATE DRILLED: 04/03/1996
DEPTH DRILLED: 217'
STATIC LEVEL: 97'
WATER USAGE: DOMESTIC
LONGITUDE: -97.828390000
LATITUDE: 29.644791000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238819

Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-239-0530																																				
1) OWNER <u>Cecil Ricketts</u> (Name)		ADDRESS <u>6912 FM 2438</u> (Street or RFD)		Kingsbury TX 78638 (City) (State) (Zip)																																				
2) ADDRESS OF WELL: County <u>Guadalupe</u>		Same (Street, RFD or other) (City) (State) (Zip)		GRID # <u>67-18-8</u>																																				
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5) •																																				
6) WELL LOG: Date Drilling: _____ Started <u>4/3</u> 19 <u>96</u> Completed <u>4/3</u> 19 <u>96</u>		7) DRILLING METHOD (Check): <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other _____		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>100</u> ft. to <u>210</u> ft.																																				
DIAMETER OF HOLE		Casing, Blank Pipe, and Well Screen Data:																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>grave</td><td></td></tr> <tr><td>7</td><td>clay</td><td></td></tr> <tr><td>85</td><td>brown clay</td><td></td></tr> <tr><td>209</td><td>clay</td><td></td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	0	grave		7	clay		85	brown clay		209	clay		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>N</td> <td>Plastic</td> <td>0</td> <td>210</td> <td>Sch40</td> </tr> <tr> <td>"</td> <td>"</td> <td>Screen mfg. 20°</td> <td>190</td> <td>210</td> <td>" "</td> </tr> </tbody> </table>		Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	4	N	Plastic	0	210	Sch40	"	"	Screen mfg. 20°	190	210	" "		
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13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., _____ ft.		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>90</u> ft. No. of sacks used <u>6</u> _____ ft. to _____ ft. No. of sacks used _____ Method used <u>Pressured cemented</u> Cemented by <u>Larry Deharde</u> Distance to septic system field lines or other concentrated contamination <u>80</u> ft. Method of verification of above distance <u>wheel</u>																																						
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input checked="" type="checkbox"/> Estimated Yield: <u>35</u> gpm with <u>180</u> ft. drawdown at <u>180</u> ft. <u>★★★★★</u>		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 338.44(2)(A)] <input checked="" type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pitless Adapter Used [Rule 338.44(3)(b)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 338.71]																																						
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>97</u> ft. below land surface Date <u>4/3/96</u> Artesian flow _____ gpm. Date _____		12) PACKERS: Type Depth <u>4- sacks</u> <u>hole plug</u> <u>90'-100'</u>																																				
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																																								
COMPANY NAME <u>Deharde Water Well Service</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>2328 WPK</u>																																						
ADDRESS <u>1075 Schuenemann Rd.</u> (Street or RFD)		Sequin TX 78155 (City) (State) (Zip)																																						
(Signed) <u>Larry Deharde</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																																						

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94)

TNRCC COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 28

Distance from Property: 0.55 mi. NE

TRACK #: 441624

DATE ENTERED: 2017-01-30

OWNER NAME: CELESTINO MORENO

OWNER ADDRESS: 166 CROSSROADS

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.644528000 LONGITUDE: -97.827972000

WELL LOG:

DRILLING DATE (STARTED): 2017-01-11

DRILLING DATE (COMPLETED): 2017-01-12

DEPTH DRILLED: 200'

WATER LEVEL:

STATIC LEVEL: 95'

WATER LEVEL DATE: 2017-01-12

TYPE OF WATER: UNKNOWN

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 28

Distance from Property: 0.58 mi. NE

ID NUMBER: TX238807
STATE ID : 67-18-8B
OWNER NAME: ROY RICKET
DATE DRILLED: 06/24/1970
DEPTH DRILLED: 160'
STATIC LEVEL: 160'
WATER USAGE: DOMESTIC
LONGITUDE: -97.827823000
LATITUDE: 29.644929000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238807

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TWDB use only Well No. <u>238807</u> Located on map <u>3420</u> Received: <u>12/1/00</u> Form GW 8 Form GW 9																																																	
1) OWNER: Person having well drilled <u>Roy Ricket</u> (Name) Address <u>Kingsbury, Tex.</u> (City) (State) Landowner <u>Roy ricket</u> (Name) Address <u>Kingsbury, Tex.</u> (City) (State)																																																					
2) LOCATION OF WELL: County <u>Brewster</u> Labor _____ League _____ Abstract No. _____ NW 1/4 NE 1/4 SW 1/4 SE 1/4 of Section _____ Block No. _____ Survey _____ (Circle as many as are known) miles in <u>SE</u> direction from <u>Kingsbury</u> (Town)																																																					
Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.																																																					
3) TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging <input type="checkbox"/>		4) PROPOSED USE (Check): Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>		5) TYPE OF WELL (Check): Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Cable <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>																																																	
6) WELL LOG: Diameter of hole <u>63/4</u> in. Depth drilled <u>160</u> ft. Depth of completed well <u>160</u> ft. Date drilled <u>11/21/00</u> All measurements made from <u>1</u> ft. above ground level.																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>4</td><td>clay</td></tr> <tr><td>4</td><td>12</td><td>gravel</td></tr> <tr><td>12</td><td>108</td><td>yellow clay</td></tr> <tr><td>108</td><td>112</td><td>rock</td></tr> <tr><td>112</td><td>140</td><td>brown diatom</td></tr> <tr><td>140</td><td>150</td><td>sand</td></tr> <tr><td>150</td><td>160</td><td>shale</td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	0	4	clay	4	12	gravel	12	108	yellow clay	108	112	rock	112	140	brown diatom	140	150	sand	150	160	shale	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>				From (ft.)	To (ft.)	Description and color of formation material																					
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7) COMPLETION (Check): Straight well <input type="checkbox"/> Gravel packed <input checked="" type="checkbox"/> Other <input type="checkbox"/> Under reamed <input type="checkbox"/> Open hole <input type="checkbox"/>		8) WATER LEVEL: Static level <u>80</u> ft. below land surface Date _____ Artesian pressure _____ lbs. per square inch Date _____																																																			
9) CASING: Type: old <input type="checkbox"/> New <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Other <input type="checkbox"/> Cemented from _____ ft. to _____ ft.		10) SCREEN: Type _____ Perforated <input checked="" type="checkbox"/> Slotted <input type="checkbox"/>																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter (inches)</th> <th>From (ft.)</th> <th>Setting To (ft.)</th> <th>Gage</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>0</td> <td>161</td> <td> </td> </tr> </tbody> </table>		Diameter (inches)	From (ft.)	Setting To (ft.)	Gage	4	0	161		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter (inches)</th> <th>From (ft.)</th> <th>Setting To (ft.)</th> <th>Slot size</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>181</td> <td>161</td> <td> </td> </tr> </tbody> </table>				Diameter (inches)	From (ft.)	Setting To (ft.)	Slot size	4	181	161																																	
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Diameter (inches)	From (ft.)	Setting To (ft.)	Slot size																																																		
4	181	161																																																			
11) WELL TESTS: Was a pump test made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes by whom? _____ Yield: _____ gpm with _____ ft. drawdown after _____ hrs Bailor test _____ gpm with _____ ft. drawdown after _____ hrs Artesian flow _____ gpm Date _____ Temperature of water _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did any strata contain undesirable water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type of water? _____ depth of strata _____		12) PUMP DATA: Manufacturer's Name <u>Aermotor</u> Type <u>Sub</u> H.P. <u>1/2</u> Designed pumping rate _____ gpm <input type="checkbox"/> gph <input type="checkbox"/> Type power unit _____ Depth to bowls, cylinder, jet, etc., <u>140</u> ft. below land surface.																																																			
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																																																					
NAME <u>Alfred Brown</u> (Type or Print) Address <u>P.O. Box 42</u> (Signed) <u>Alfred Brown</u> (Water Well Owner)		Water Well Drillers Registration No. <u>310</u> <u>Kingsbury</u> <u>Tex.</u> <u>Alfred Brown Waterwell Drlg. & Service</u> (Company Name)																																																			
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																					

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 29

Distance from Property: 0.55 mi. E

TRACK #: 389598

DATE ENTERED: 2015-03-02

OWNER NAME: GRAY MOSIER

OWNER ADDRESS: P.O. BOX 6

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.623889000 LONGITUDE: -97.825278000

WELL LOG:

DRILLING DATE (STARTED): 2015-01-26

DRILLING DATE (COMPLETED): 2015-01-27

DEPTH DRILLED: 340'

WATER LEVEL:

STATIC LEVEL: 140'

WATER LEVEL DATE: 2015-01-27

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 30

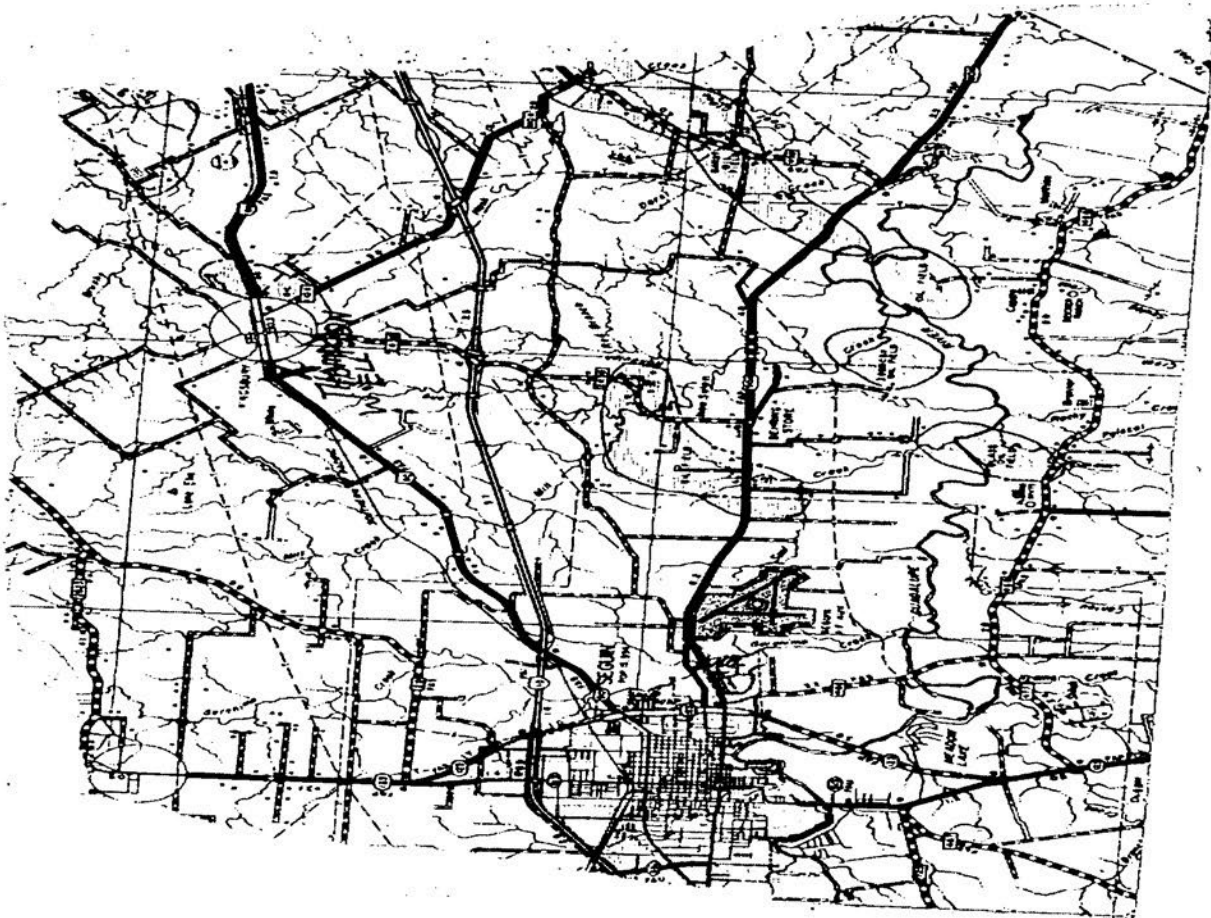
Distance from Property: 0.55 mi. WNW

ID NUMBER: TX238804
STATE ID : 67-18-7J
OWNER NAME: LLOYD THOMPSON
DATE DRILLED: 09/05/1983
DEPTH DRILLED: 220'
STATIC LEVEL: 105'
WATER USAGE: DOMESTIC
LONGITUDE: -97.860634000
LATITUDE: 29.633098000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238804



GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238804

67-18-7J

Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas WATER WELL REPORT

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Lloyd Thompson (Name) Address 946 Bailey Rd. (Street or RFD) Seguin Tex (City) 78155 (State) (Zip)
2) LOCATION OF WELL: County Brewster 1 miles in Wear (N.E., S.W., etc.) direction from Kingsbury Tex (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☒ See attached map.

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 9-5-83

DIAMETER OF HOLE		
Dis. (in.)	From (ft.)	To (ft.)
<u>6 3/4</u>	Surface	<u>220</u>

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 180 ft. to 220 ft.

From (ft.) To (ft.) Description and color of formation material

0-4 topsoil
4-4.3 tan clay
4.3-10.6 gray clay
10.6-120 sand
120-177 gray clay
177-220 sand

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dis. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgt., if commercial	Setting (ft.) From To	Cage Casing Screen
<u>4</u>	<u>New</u>	<u>slotted, PVC</u>	<u>0</u> <u>220</u>	

CEMENTING DATA

Cemented from _____ ft. to 210 ft.
Method used mud + cement
Cemented by _____ (Company or Individual)

9) WATER LEVEL:

Static level 10.5 ft. below land surface Date 9-5-83
Artesian flow _____ gpm. Date _____

10) PACKERS:

Type _____ Depth _____

11) TYPE PUMP:

☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., 182 ft.

12) WELL TESTS:

☐ Type Test ☐ Pump ☐ Bailor ☐ Jetted ☐ Estimated
Yield: 80 gpm with 0 ft. drawdown after 3 hrs.

RECEIVED

OCT-7-1983

DEPT. OF
WATER RESOURCES

(Use reverse side if necessary)

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

COMPANY NAME SOHN-EVANS DRILLING (Type or Print)

Water Well Driller's License No. 1729

ADDRESS 113 Navacota Lane (Street or RFD) Seguin (City)

Tex (State) 78155 (Zip)

(Signed) John Evans (Licensed Water Well Driller)

(Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TOWNS use only
Well No. 67-18-7J
Located on map 238804

TOWN-0392 (Rev. 5-27-82)

DEPARTMENT OF WATER RESOURCES COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 31

Distance from Property: 0.56 mi. S

TRACK #: 543713

DATE ENTERED: 2020-05-20

OWNER NAME: CEASAR SERNA

OWNER ADDRESS: 8277 E IH 10

SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.613306000 LONGITUDE: -97.840056000

WELL LOG:

DRILLING DATE (STARTED): 2020-05-12

DRILLING DATE (COMPLETED): 2020-05-12

DEPTH DRILLED: 170'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED

WATER LEVEL DATE: 2020-05-12

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 32

Distance from Property: 0.57 mi. SW

TRACK #: 181081

DATE ENTERED: 2009-06-04

OWNER NAME: MARK WESTERHOLM

OWNER ADDRESS: 594 WILSON ROAD
SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.618055000 LONGITUDE: -97.862501000

WELL LOG:

DRILLING DATE (STARTED): 2006-03-14

DRILLING DATE (COMPLETED): 2006-03-14

DEPTH DRILLED: 200'

WATER LEVEL:

STATIC LEVEL: 66'

WATER LEVEL DATE: 2006-03-14

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD
SEGUIN, TX 78155

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 33

Distance from Property: 0.58 mi. S

TRACK #: 343298

DATE ENTERED: 2013-10-14

OWNER NAME: JENNY RODRIQUEZ

OWNER ADDRESS: P.O. BOX 1778

SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.613056000 LONGITUDE: -97.836945000

WELL LOG:

DRILLING DATE (STARTED): 2013-08-23

DRILLING DATE (COMPLETED): 2013-08-24

DEPTH DRILLED: 200'

WATER LEVEL:

STATIC LEVEL: 60'

WATER LEVEL DATE: 2013-08-25

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

DEEPENING

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: HERBOLD BROTHERS

COMPANY ADDRESS: 6395 F.M. 467

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 34

Distance from Property: 0.60 mi. WNW

ID NUMBER: TX238794
STATE ID : 67-18-7
OWNER NAME: RANDY FINCH
DATE DRILLED: 03/15/1991
DEPTH DRILLED: 120'
STATIC LEVEL: 29'
WATER USAGE: DOMESTIC
LONGITUDE: -97.863926000
LATITUDE: 29.628350000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238794

94
Send original copy by certified mail to: Texas Water Commission, P.O. Box 13067, Austin, Texas 78711

94
Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

**State of Texas
WELL REPORT**

Texas Water Well Drillers Board
P.O. Box 13067
Austin, Texas 78711

1) OWNER RANDY FINCH ADDRESS 5019 SAGE CENTER DR SA 78218
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Brewster miles in East direction from Sequim
(NE, SW, etc.) (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☒ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Irrigation ☐ Test Well ☐ Monitor ☐ Public Supply ☐ De-watering ☐ Injection

5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: _____
Started 3-14 1991
Completed 3-10 1991

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
6 1/2	Surface	120

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give Interval ... from 10 ft. to 120 ft.

From (ft.)		To (ft.)		Description and color of formation material
0	2	10	6	Flint Rock
2	40			Chay
40	50			Blue shale
50	55			Sand
55	56			Rock
56	72			Sand
72	73			Rock
73	76			Sand
76	78			Shale
78	100			Sand

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
4	N	Plastic 20 perf	0	120	8

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 10 ft. No. of Sacks Used _____
_____ ft. to _____ ft. No. of Sacks Used _____
Method used _____
Cemented by S&P

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Pileless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:
Static level 29 ft. below land surface Date 3-15-91
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth _____

13) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Baller ☐ Jetted ☐ Estimated
Yield: 25 gpm with _____ ft. drawdown

15) WATER QUALITY:
Did the drilling penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

RECEIVED
APR 10 1991
TEXAS WATER COMMISSION

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Hen Bold Bros WELL DRILLER'S LICENSE NO. 1137
(Type or print)

ADDRESS Rt 3 Box 822 Sequim TX 78155
(Street or RFD) (City) (State) (Zip)

(Signed) Edend Thudd (Signed) Jim Thudd
(Licensed Well Driller) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TYWC use only: Well No. 67-18-2 Located on map _____

WWD-012 (Rev. 09/21/88)

TEXAS WATER COMMISSION COPY

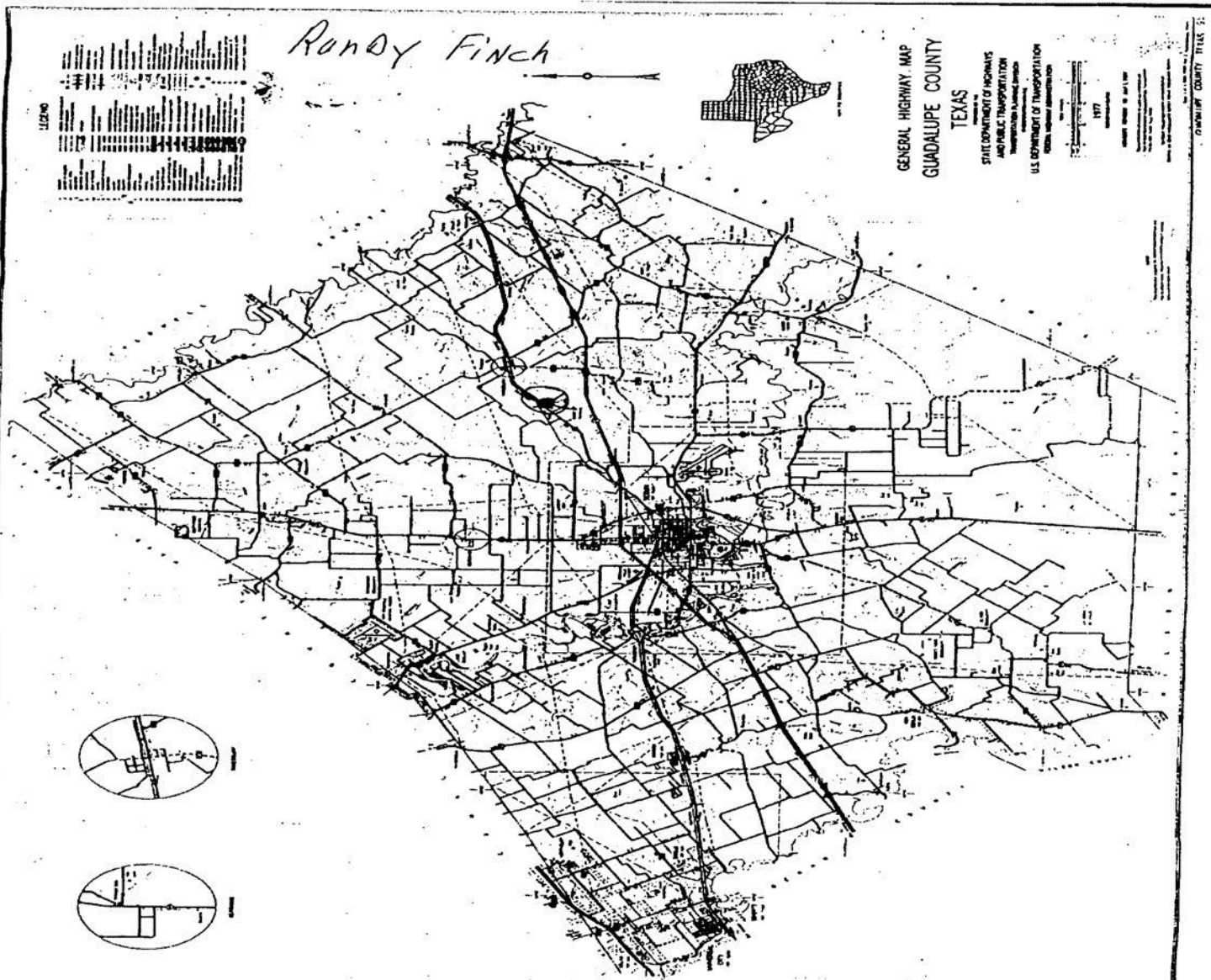
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2

Water Well ID: 238794



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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 35

Distance from Property: 0.61 mi. SSW

TRACK #: 28243

DATE ENTERED: 2003-11-13

OWNER NAME: GUADALUPE COUNTY

OWNER ADDRESS: 307 W. COURT ST.
SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.613056000 LONGITUDE: -97.855001000

WELL LOG:

DRILLING DATE (STARTED): 2003-09-29

DRILLING DATE (COMPLETED): 2003-09-29

DEPTH DRILLED: 180'

WATER LEVEL:

STATIC LEVEL: 45'

WATER LEVEL DATE: 2003-09-30

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: HERBOLD BROTHERS

COMPANY ADDRESS: 6395 F.M. 467
SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 36

Distance from Property: 0.61 mi. E

TRACK #: 549506

DATE ENTERED: 2020-07-29

OWNER NAME: JAMES & KATIE HUNTER

OWNER ADDRESS: 2262 HUNTERS WAY

SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.632500000 LONGITUDE: -97.824528000

WELL LOG:

DRILLING DATE (STARTED): 2020-07-01

DRILLING DATE (COMPLETED): 2020-07-02

DEPTH DRILLED: 290'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED

WATER LEVEL DATE: 2020-07-02

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 37

Distance from Property: 0.64 mi. NE

TRACK #: 331072

DATE ENTERED: 2013-08-06

OWNER NAME: MARGARET TAYLOR

OWNER ADDRESS: PO BOX 721

SEGUIN, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.646111000 LONGITUDE: -97.827778000

WELL LOG:

DRILLING DATE (STARTED): 2006-09-28

DRILLING DATE (COMPLETED): 2006-09-29

DEPTH DRILLED: 360'

WATER LEVEL:

STATIC LEVEL: 103'

WATER LEVEL DATE: 2006-09-29

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: NOT REPORTED

NOT REPORTED

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 38 Distance from Property: 0.64 mi. E

TRACK #: 156675

DATE ENTERED: 2008-10-17

OWNER NAME: TED IMHOFF

OWNER ADDRESS: 6187 FM 2438
KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.639445000 LONGITUDE: -97.824167000

WELL LOG:

DRILLING DATE (STARTED): 2005-08-29

DRILLING DATE (COMPLETED): 2005-08-29

DEPTH DRILLED: 280'

WATER LEVEL:

STATIC LEVEL: 142'

WATER LEVEL DATE: 2005-08-29

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN ROAD
SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 39

Distance from Property: 0.65 mi. WSW

ID NUMBER: TX238827
STATE ID : 67-26-1
OWNER NAME: KERMIT WESTERHOLM
DATE DRILLED: 03/19/1987
DEPTH DRILLED: 180'
STATIC LEVEL: 80'
WATER USAGE: DOMESTIC
LONGITUDE: -97.864564000
LATITUDE: 29.618434000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238827

2 m. SINK
8 m. WEL

Please use black ink. Send original copy by certified mail to the Texas Water Commission, P.O. Box 13087, Austin, Texas 78711.

State of Texas
WATER WELL REPORT
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER KERMIT WESTERHOLM (Name) Address 525 BERKLEY (Street or RFD) SEGUIN (City) TX (State) 78155 (Zip)

2) LOCATION OF WELL: County KAUFMAN 5 miles in NORTH EAST (N.E., S.W., etc.) direction from SEGUIN (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 3-18-87 Completed 3-19-87

DIAMETER OF HOLE		Description and color of formation material
From (ft.)	To (ft.)	
0	2	FLINT ROCK
2	20	YELLOW CLAY
20	24	ROCK
24	38	YELLOW CLAY
38	45	BROWN SAND
45	57	BLUE SHALE
57	61	SAND
61	75	BLUE SHALE
75	76	ROCK
76	80	TAN SAND
80	90	BLUE SHALE
90	117	BLUE SAND
117	118	ROCK
118	130	BLUE SAND
130	141	BLUE SHALE
141	145	BLUE SAND
145	147	ROCK
147	162	BLUE SAND
162	164	ROCK
164	175	SAND
175	180	BLUE SHALE

7) BOREHOLE COMPLETION:
☒ Open Hole ☐ Straight Well ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 10 ft. to 180 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casing Screen
			From	To	
4		PVC SLOTTED	0	180	
		PERFORATED	150	180	

9) CEMENTING DATA (Rule 319.44(b))
Cemented from 0 ft. to 10 ft. No. of Sacks Used 3
Method used MIXED IN WHEELBARROW
Cemented by HERBOLD PRO.

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed (Rule 319.44(c))
☐ Plugger Adapter Used (Rule 319.44(d))
☒ Approved Alternative Procedure Used (Rule 319.71)

11) WATER LEVEL:
Static level 80 ft. below land surface Date 3-19-87
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth _____

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 130 ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated
Yield: 60 gpm with 30 ft. drawdown after 1 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata? _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME HERBOLD PRO. Drilling (Type or Print) Water Well Driller's License No. 1137

ADDRESS RT-3- Box 824 (Street or RFD) SEGUIN (City) TX (State) 78155 (Zip)

(Signed) Robert H. Herbold (Licensee Water Well Driller) (Signed) John H. Herbold (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only:
Well No. 238827
Located on map _____

TWC-0392 (Rev. 08-10-85)

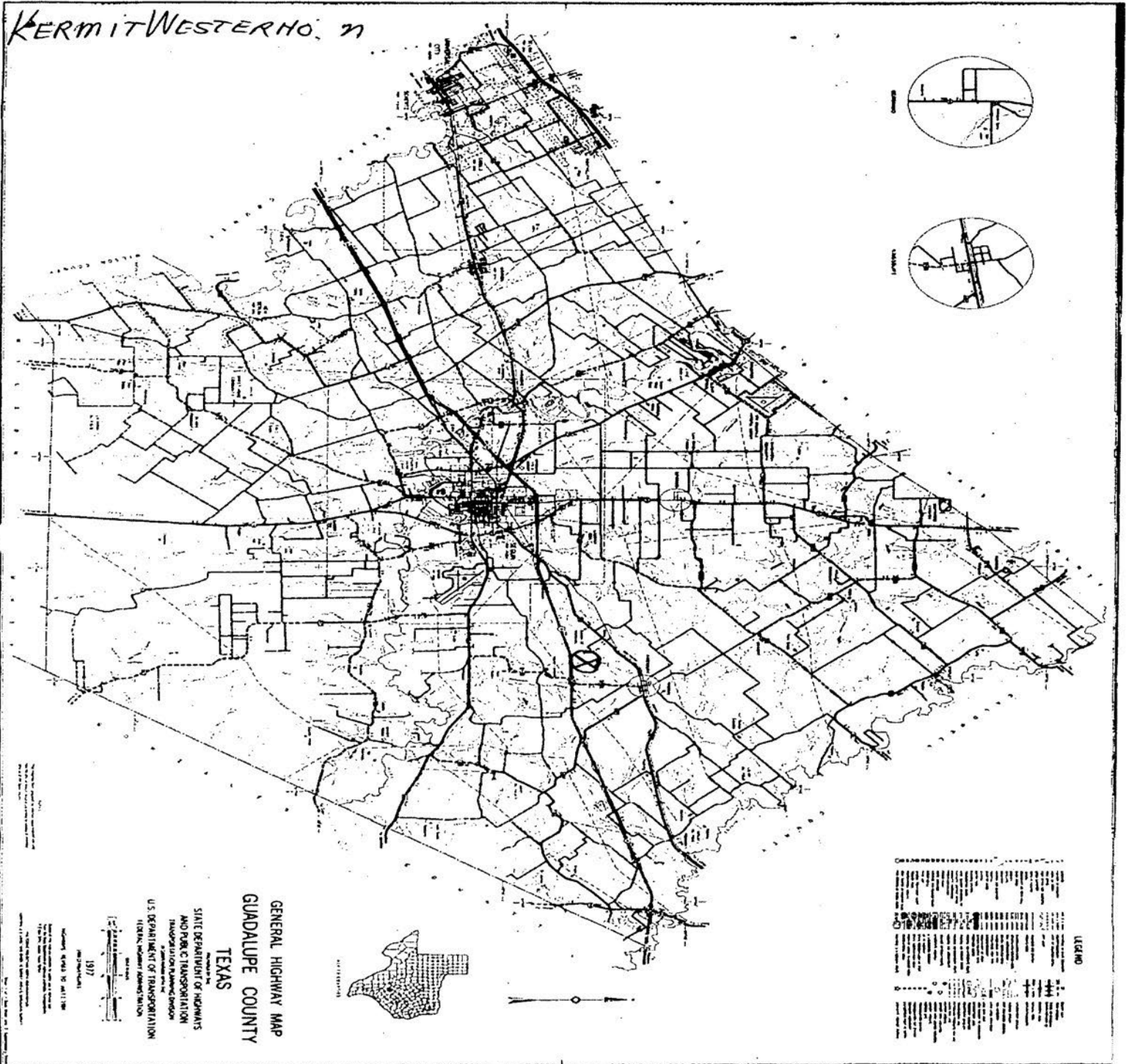
TEXAS WATER COMMISSION COPY

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238827



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 40

Distance from Property: 0.65 mi. NE

ID NUMBER: TX238815
STATE ID : 67-18-8
OWNER NAME: CHRIS BOERGER
DATE DRILLED: 03/24/1992
DEPTH DRILLED: 166'
STATIC LEVEL: 100'
WATER USAGE: DOMESTIC
LONGITUDE: -97.828057000
LATITUDE: 29.646603000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238815

Send original copy by certified mail to: Texas Water Center

P.O. Box 13067, Austin, Texas 78711

Please use black ink.

State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13067 Austin, Texas 78711																																	
1) OWNER: <u>Chris Boerger</u> ADDRESS: <u>7040 FM 2438</u> <u>Kingbury</u> <u>TX.</u> <u>78155</u> (Name) (Street or RFD) (City) (State) (Zip)																																			
2) LOCATION OF WELL: County: <u>Madalaga</u> <u>10</u> miles in <u>NE</u> direction from <u>SEGUIN</u> (NE, SW, etc.) (Town)																																			
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																			
3) LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____ <input checked="" type="checkbox"/> SEE ATTACHED MAP																																			
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Monitor <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Injection <input type="checkbox"/> De-Watering																																	
5) DRILLING METHOD (Check): <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other _____		<input type="checkbox"/> Driven																																	
6) WELL LOG: Date Drilling: <u>3-24-92</u> Started: <u>3-24-92</u> Completed: <u>3-24-92</u>		7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Well <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>100</u> ft. to <u>166</u> ft.																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">DIAMETER OF HOLE</th> </tr> <tr> <th>Dis. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> </thead> <tbody> <tr> <td><u>6 3/4</u></td> <td>Surface</td> <td><u>166</u></td> </tr> <tr> <td><u>7 7/8</u></td> <td><u>11</u></td> <td><u>15</u></td> </tr> </tbody> </table>		DIAMETER OF HOLE			Dis. (in.)	From (ft.)	To (ft.)	<u>6 3/4</u>	Surface	<u>166</u>	<u>7 7/8</u>	<u>11</u>	<u>15</u>	8) CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Dis. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Cage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>168</u></td> <td><u>ack 40</u></td> </tr> <tr> <td><u>11</u></td> <td><u>"</u></td> <td><u>Screen Mfg. 20</u></td> <td><u>146</u></td> <td><u>166</u></td> <td><u>" "</u></td> </tr> </tbody> </table>		Dis. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casting Screen	From	To	<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>168</u>	<u>ack 40</u>	<u>11</u>	<u>"</u>	<u>Screen Mfg. 20</u>	<u>146</u>	<u>166</u>	<u>" "</u>
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From (ft.) To (ft.) Description and color of formation material <u>0 4 clay + gravel</u> <u>4 6 gravel</u> <u>6 36 clay white</u> <u>36 60 sandy clay</u> <u>60 105 blue clay</u> <u>105 165 sand</u> <u>165 - blue clay</u>		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>0</u> ft. to <u>12</u> ft. No. of Sacks Used <u>1</u> _____ ft. to _____ ft. No. of Sacks Used _____ Method used _____ Cemented by <u>Darryl D. Hulse</u>																																	
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., _____ ft. <u>pump at 159 pm - 145</u>		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 287.44(2)(A)] <input checked="" type="checkbox"/> Specified Steel Sleeve Installed [Rule 287.44(3)(A)] <input type="checkbox"/> Pileless Adapter Used [Rule 287.44(3)(B)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 287.71]																																	
14) WELL TESTS: Type Test: <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Sellar <input checked="" type="checkbox"/> Jetted <input checked="" type="checkbox"/> Estimated Yield: <u>6</u> gpm with _____ ft. drawdown after _____ hrs. <u>2 hrs</u>		11) WATER LEVEL: Static level <u>100'</u> ft. below land surface Date <u>3-24-92</u> Artesian flow _____ gpm. Date _____																																	
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12) PACKERS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>Depth</th> </tr> </thead> <tbody> <tr> <td><u>hole plug</u></td> <td><u>8 - 10</u></td> </tr> </tbody> </table>		Type	Depth	<u>hole plug</u>	<u>8 - 10</u>																												
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COMPANY NAME: <u>DEHARDE WATER WELL SERV.</u> (Type or print) ADDRESS: <u>RT 5 Box 440</u> (Street or RFD) (Signed) <u>Darryl D. Hulse</u> (Licensed Well Driller)		WELL DRILLER'S LICENSE NO. <u>2328</u> <u>SEGUIN</u> TX. <u>78155</u> (City) (State) (Zip) (Signed) _____ (Registered Driller Trainee)																																	
Please attach electric log, chemical analysis, and other pertinent information, if available.																																			
For TWC use only: Well No. <u>5</u> Located on map <u>678-9</u>																																			

WWD-012 (Rev. 05-18-90)

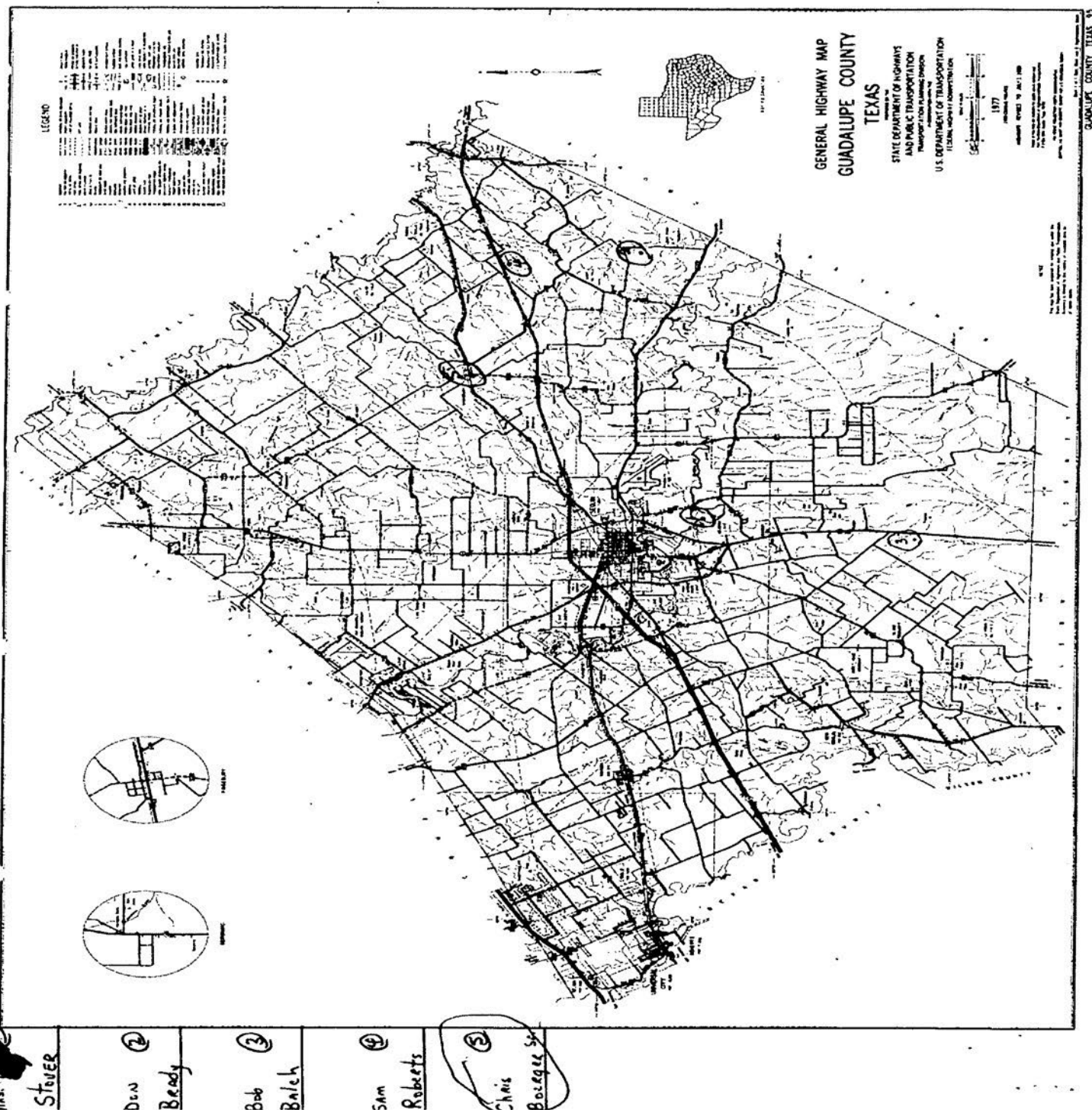
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238815



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 41

Distance from Property: 0.66 mi. S

ID NUMBER: TX238833
STATE ID : 67-26-1
OWNER NAME: SILVER WOLF RANCH #2
DATE DRILLED: 11/11/1997
DEPTH DRILLED: 360'
STATIC LEVEL: 90'
WATER USAGE: DOMESTIC
LONGITUDE: -97.833572000
LATITUDE: 29.611931000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238833

Send original copy by certified return receipt requested mail to: .CC, MC 177, P.O. Box 13087, Austin, TX 78711-3087

ATTENTION OWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council MC 177 P.O. Box 13087 Austin, TX 78711-3087 512-239-0530																				
1) OWNER: <u>Silver Wolf Ranch #2</u> (Name)		ADDRESS: <u>900 Savage Seguin, TX 78155</u> (Street or RFD) (City) (State) (Zip)																						
2) ADDRESS OF WELL: County: <u>Guadalupe</u> (Street, RFD or other) (City) (State) (Zip)		GRID: <u>67-26-1</u>																						
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5)																				
6) WELL LOG: Date Drilling: <u>11/10/97</u> Started: <u>11/10/97</u> Completed: <u>11/11/97</u>		DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>7</u> Surface <u>300</u>		7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jettied <input type="checkbox"/> Other																				
From (ft.) To (ft.) Description and color of formation material		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other If Gravel Packed give interval ... from <u>160</u> ft. to <u>360</u> ft.																						
<u>0-2 Flat Rock</u> <u>20-20 R. Clay</u> <u>30-60 Y. Clay</u> <u>60-115 B. Shale</u> <u>115-135 Sand</u> <u>135-175 B. Shale</u> <u>175-220 Sand</u> <u>220-230 Shale</u> <u>230-232 Rock</u> <u>232-238 Sand</u> <u>238-245 Shale</u> <u>245-247 Rock</u> <u>247-265 Sand</u> <u>265-285 Shale Str Sand</u> <u>285-290 Sand</u> (Use reverse side of Well Owner's copy, if necessary)		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Cage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>5</u></td> <td><u>N</u></td> <td><u>PVC</u></td> <td><u>0</u></td> <td><u>30</u></td> <td rowspan="2"><u>20TH</u></td> </tr> <tr> <td></td> <td></td> <td><u>PVC Screen</u></td> <td><u>30</u></td> <td><u>360</u></td> </tr> </tbody> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casting Screen	From	To	<u>5</u>	<u>N</u>	<u>PVC</u>	<u>0</u>	<u>30</u>	<u>20TH</u>			<u>PVC Screen</u>	<u>30</u>	<u>360</u>
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casting Screen																			
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		<u>PVC Screen</u>	<u>30</u>	<u>360</u>																				
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other Depth to pump bowls, cylinder, jet, etc., <u>200</u> ft.		9) CEMENTING DATA (Rule 338.44(1)) Cemented from <u>0</u> ft. to <u>10</u> ft. No. of sacks used <u>3</u> Method used <u>SELF MIX</u> Cemented by <u>Herbore Bros Drilling</u> Distance to septic system field lines or other concentrated contamination <u>15</u> ft. Method of verification of above distance <u>MEASURE</u>																						
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input type="checkbox"/> Jettied <input type="checkbox"/> Estimated Yield: <u>100</u> gpm with <u>0</u> ft. drawdown after <u>2</u> hrs.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 338.44(2)(A)] <input type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pitless Adapter Used [Rule 338.44(3)(b)] <input checked="" type="checkbox"/> Approved Alternative Procedure Used [Rule 338.71]																						
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>90</u> ft. below land surface Date <u>11-12-97</u> Artesian flow _____ gpm. Date _____																						
12) PACKERS: _____ Type _____ Depth _____																								
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmission.																								
COMPANY NAME: <u>Herbore Brothers</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>4070.TW</u>																						
ADDRESS: <u>6345 E.M. 467</u> (Street or RFD)		JAN 1998 TX 78155 (State) (Zip)																						
(Signed) <u>Herbore</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																						
Please attach electric log, chemical analysis, and other pertinent information, if available.																								

TNRCC-0189 (Rev. 05-21-96)

White - TNRCC

Yellow - DRILLER

Pink - WELL OWNER

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 42

Distance from Property: 0.67 mi. S

ID NUMBER: TX238830

STATE ID : 67-26-1J

OWNER NAME: RED HERRING

DATE DRILLED: 08/12/1969

DEPTH DRILLED: 194'

STATIC LEVEL: 69'

WATER USAGE: DOMESTIC

LONGITUDE: -97.835012000

LATITUDE: 29.611634000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238830

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TWDB Well No. <u>67-28-13</u> Located on map <u>3-2</u> Received: <u>1/1</u> Form CW 8 Form CW 9																																																										
1) OWNER: Red Herring Kingsbury, Tex. Person having well drilled _____ (Name) _____ Address _____ (Street or RFD) _____ (City) _____ (State) Landowner _____ (Name) _____ Address _____ (Street or RFD) _____ (City) _____ (State)																																																														
2) LOCATION OF WELL: County <u>Guthrie</u> Labor _____ League _____ Abstract No. _____ NW 1/4 NE 1/4 SW 1/4 SE 1/4 of Section _____ Block No. _____ Survey _____ (Circle as many as are known) Miles in <u>3 S.W.</u> direction from _____ (Town) (N.E., S.W., etc.)																																																														
Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks. NORTH ↑																																																														
3) TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging <input type="checkbox"/>		4) PROPOSED USE (Check): Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>		5) TYPE OF WELL (Check): Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Cable <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>																																																										
6) WELL LOG: Diameter of hole <u>7 3/8</u> in. Depth drilled <u>194</u> ft. Depth of completed well <u>194</u> ft. Date drilled <u>8/12/69</u> All measurements made from _____ ft. above ground level.																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>80</td><td>yellow hard clay</td></tr> <tr><td>80</td><td>120</td><td>blue sandy clay</td></tr> <tr><td>120</td><td>125</td><td>brown clay</td></tr> <tr><td>125</td><td>156</td><td>rock</td></tr> <tr><td>156</td><td>160</td><td>brown clay</td></tr> <tr><td>160</td><td>163</td><td>sand</td></tr> <tr><td>163</td><td>180</td><td>rock</td></tr> <tr><td>180</td><td>194</td><td>rock sand streaks</td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	0	80	yellow hard clay	80	120	blue sandy clay	120	125	brown clay	125	156	rock	156	160	brown clay	160	163	sand	163	180	rock	180	194	rock sand streaks	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>				From (ft.)	To (ft.)	Description and color of formation material																											
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7) COMPLETION (Check): Straight well <input type="checkbox"/> Gravel packed <input checked="" type="checkbox"/> Other <input type="checkbox"/> Under reamed <input type="checkbox"/> Open hole <input type="checkbox"/>		8) WATER LEVEL: <u>69</u> ft. below land surface Date <u>8/19/69</u> Artesian pressure _____ lbs. per square inch Date _____																																																												
9) CASING: Type: old <input type="checkbox"/> New <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Other <input type="checkbox"/> Cemented from _____ ft. to _____ ft.		10) SCREEN: Type _____ Perforated <input checked="" type="checkbox"/> Slotted <input type="checkbox"/>																																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter (inches)</th> <th>From (ft.)</th> <th>Setting To (ft.)</th> <th>Gage</th> </tr> </thead> <tbody> <tr><td>4</td><td>0</td><td>200</td><td> </td></tr> </tbody> </table>		Diameter (inches)	From (ft.)	Setting To (ft.)	Gage	4	0	200		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter (inches)</th> <th>From (ft.)</th> <th>Setting To (ft.)</th> <th>Slot size</th> </tr> </thead> <tbody> <tr><td>4</td><td>180</td><td>200</td><td> </td></tr> </tbody> </table>				Diameter (inches)	From (ft.)	Setting To (ft.)	Slot size	4	180	200																																										
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11) WELL TESTS: Was a pump test made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes by whom? _____ Yield: _____ gpm with _____ ft. drawdown after _____ hrs Bailor test _____ gpm with _____ ft. drawdown after _____ hrs Artesian flow _____ gpm Date _____ Temperature of water _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did any strata contain undesirable water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type of water? _____ depth of strata _____		12) PUMP DATA: Manufacturer's Name <u>Aermotor</u> Type <u>Sub</u> H.P. <u>1</u> Designed pumping rate _____ gpm <input type="checkbox"/> gph <input type="checkbox"/> Type power unit _____ Depth to bowl, cylinder, jet, etc., <u>150</u> ft. below land surface.																																																												
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																																																														
NAME: <u>Alfred Brown</u> (Type or Print) Address: <u>P.O. Box 42</u> <u>Kingsbury</u> <u>Tex. 78638</u> (City) (State)		Water Well Driller's Registration No. <u>310</u> (Signed) <u>Alfred Brown</u> (Water Well Driller) <u>Alfred Brown Waterwell Drlg. & Service</u> (Company Name)																																																												
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																														

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 43 Distance from Property: 0.70 mi. S

TRACK #: 551270

DATE ENTERED: 2020-08-18

OWNER NAME: MICHAEL TUMLINSON

OWNER ADDRESS: 8215 IH 10 EAST
SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.611222000 LONGITUDE: -97.842583000

WELL LOG:

DRILLING DATE (STARTED): 2020-07-13

DRILLING DATE (COMPLETED): 2020-07-13

DEPTH DRILLED: 160'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED

WATER LEVEL DATE: 2020-07-13

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD
SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 44

Distance from Property: 0.70 mi. S

ID NUMBER: TX238832
STATE ID : 67-26-1
OWNER NAME: JIM TUCKER
DATE DRILLED: 03/09/1998
DEPTH DRILLED: 200'
STATIC LEVEL: 78'
WATER USAGE: DOMESTIC
LONGITUDE: -97.836127000
LATITUDE: 29.611181000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238832

Send original copy by certified return receipt requested mail to: TCEQ, MC 177, P.O. Box 13067, Austin, TX 78711-3067

ATTENTION OWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council MC 177 P.O. Box 13067 Austin, TX 78711-3067 512-239-0530																					
1) OWNER <u>Jim Tucker</u> (Name)		ADDRESS <u>8611 E. IH-10</u> (Street or RFD)		Seguin TX 78155 (City) (State) (Zip)																					
2) ADDRESS OF WELL: County <u>Guadalupe</u> (Street, RFD or other)		Same as above (City) (State) (Zip)		GRID # <u>67-26-1</u>																					
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5)																					
6) WELL LOG: Date Drilling: _____ Started <u>3/9</u> 19 <u>98</u> Completed <u>3/9</u> 19 <u>98</u>		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Dia. (in.)</th> <th style="width: 33%;">From (ft.)</th> <th style="width: 33%;">To (ft.)</th> </tr> <tr> <td><u>6 3/4</u></td> <td>Surface</td> <td><u>200</u></td> </tr> <tr> <td><u>7 7/8</u></td> <td>reamed</td> <td><u>10</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>6 3/4</u>	Surface	<u>200</u>	<u>7 7/8</u>	reamed	<u>10</u>	7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other _____												
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<u>0 - surface</u> <u>2 - clay</u> <u>8 - sandy clay</u> <u>16 - sand & sandy clay</u> <u>50 - blue clay</u> <u>95 - rock</u> <u>96 - clay & rocks</u> <u>124 - sand & rocks</u> <u>129 - rock</u> <u>131 - clay</u> <u>161 - rock</u> <u>166 - sand</u> <u>188 - rock</u> <u>189 - sand</u> <u>195 - rock</u> <u>196 - sand</u>		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>200</u></td> <td><u>Sch40</u></td> </tr> <tr> <td><u>"</u></td> <td><u>"</u></td> <td><u>Screen mfg. 16"</u></td> <td><u>180</u></td> <td><u>200</u></td> <td><u>" "</u></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>200</u>	<u>Sch40</u>	<u>"</u>	<u>"</u>	<u>Screen mfg. 16"</u>	<u>180</u>	<u>200</u>	<u>" "</u>
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<u>"</u>	<u>"</u>	<u>Screen mfg. 16"</u>	<u>180</u>	<u>200</u>	<u>" "</u>																				
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., <u>140</u> ft.		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>10</u> ft. No. of sacks used <u>1</u> _____ ft. to _____ ft. No. of sacks used _____ Method used <u>Larry Deharde</u> Cemented by _____ Distance to septic system field lines or other concentrated contamination <u>?</u> ft. Method of verification of above distance <u>None</u>																							
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input checked="" type="checkbox"/> Estimated Yield: <u>30</u> gpm <u>at</u> <u>160</u> ft. drawdown after _____ hrs.		10) SURFACE COMPLETION [Rule 338.44(2)(A)] <input type="checkbox"/> Specified Surface Sub Installed [Rule 338.44(3)(A)] <input checked="" type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pileless Adapter Used [Rule 338.44(3)(b)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 338.44(3)(c)] <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-top: 5px;"> FILED MAY 19 1998 TCEQ COMPTON DECC CO </div>																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit 'REPORT OF UNDESIRABLE WATER' Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>78</u> ft. below land surface Date <u>3/9/98</u> Artesian flow _____ gpm Date _____																							
		12) PACKERS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td><u>4 - sacks</u></td> <td><u>Hole Plug</u></td> </tr> <tr> <td></td> <td><u>140' - 150'</u></td> </tr> </table>				Type	Depth	<u>4 - sacks</u>	<u>Hole Plug</u>		<u>140' - 150'</u>														
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I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Deharde Water Well Service</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>2328 WPK</u>																							
ADDRESS <u>1075 Schuenemann Rd.</u> (Street or RFD)		Seguin		TX 78155																					
(Signed) <u>Larry Deharde</u> (Licensed Well Driller)		(Signed) _____		(Registered Driller Trainee)																					
Please attach electric log, chemical analysis, and other pertinent information, if available.																									

TNRCC-0109 (Rev. 05-21-96)

White - TNRCC

Yellow - DRILLER

Pink - WELL OWNER

GeoSearch

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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 45 Distance from Property: 0.71 mi. S

TRACK #: 541450

DATE ENTERED: 2020-04-22

OWNER NAME: MATTHEW JANDT

OWNER ADDRESS: 7667 E. IH 10
SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.611111000 LONGITUDE: -97.850444000

WELL LOG:

DRILLING DATE (STARTED): 2020-04-14

DRILLING DATE (COMPLETED): 2020-04-14

DEPTH DRILLED: 143'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED

WATER LEVEL DATE: 2020-04-14

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD
SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 46

Distance from Property: 0.72 mi. E

ID NUMBER: TX238818
STATE ID : 67-18-8
OWNER NAME: BRUCE PAPE
DATE DRILLED: 11/14/1995
DEPTH DRILLED: 270'
STATIC LEVEL: 114'
WATER USAGE: DOMESTIC
LONGITUDE: -97.822825000
LATITUDE: 29.637518000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238818

Send original copy by certified mail to: TNRCC, P.O. Box 87, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-238-0630																					
1) OWNER <u>Bruce Pape</u>		ADDRESS <u>981 Crossroads</u>		Kingsbury TX 78638																					
(Name)		(Street or RFD)		(City) (State) (Zip)																					
2) ADDRESS OF WELL: County <u>Guadalupe</u>		Same		GRID # <u>67-18-2</u>																					
(Street, RFD or other)		(City)		(State) (Zip)																					
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5)																					
6) WELL LOG: Date Drilling: <u>11/13/95</u> Started <u>11/13/95</u> Completed <u>11/14/95</u>		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Dis. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td>6 1/8</td> <td>Surface</td> <td>270</td> </tr> <tr> <td>7 7/8</td> <td>"</td> <td>218</td> </tr> </table>		Dis. (in.)	From (ft.)	To (ft.)	6 1/8	Surface	270	7 7/8	"	218	7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other												
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6 1/8	Surface	270																							
7 7/8	"	218																							
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0 - gravel		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dis. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Cage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>4</td> <td>N</td> <td>Plastic</td> <td>0</td> <td>220</td> <td>Sch40</td> </tr> <tr> <td>"</td> <td>"</td> <td>Screen mfg. 20°</td> <td>196</td> <td>216</td> <td>" "</td> </tr> </table>				Dis. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casting Screen	From	To	4	N	Plastic	0	220	Sch40	"	"	Screen mfg. 20°	196	216	" "
Dis. (in.)	New or Used								Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Cage Casting Screen													
						From	To																		
4	N					Plastic	0	220	Sch40																
"	"					Screen mfg. 20°	196	216	" "																
5 - yellow clay																									
70 - sandy clay																									
90 - grey clay																									
120 - blue clay																									
135 - blue sand																									
150 - blue clay																									
200 - sand (fine)																									
217 - clay																									
234 - rock																									
236 - clay & rocks																									
261 - sandy clay & clay																									
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other Depth to pump bowls, cylinder, jet, etc., <u>180</u> ft.		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>1</u> ft. to <u>15</u> ft. No. of sacks used <u>1</u> Method used _____ Cemented by <u>Larry Deharde</u> Distance to septic system field lines or other concentrated contamination _____ ft. Method of verification of above distance <u>none</u>																							
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Baker <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>17</u> gpm with <u>220</u> ft. drawdown		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 338.44(2)(A)] <input checked="" type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pitless Adapter Used [Rule 338.44(3)(b)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 338.71]																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit 'REPORT OF UNDESIRABLE WATER' Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>114</u> ft. below land surface Date <u>11/14/95</u> Artesian flow _____ gpm. Date _____																							
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.		12) PACKERS: 3-sacks hole plug 170'-180'																							
COMPANY NAME <u>Deharde Water Well Service</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>2328 WPK</u>																							
ADDRESS <u>Rt. 5 Box 440</u> (Street or RFD)		Segin		TX 78155																					
(City)		(State)		(Zip)																					
(Signed) <u>Larry Deharde</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																							

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94)

TNRCC COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 56 Distance from Property: 0.84 mi. E

TRACK #: 497285

DATE ENTERED: 2018-12-11

OWNER NAME: CHARLES HEIM

OWNER ADDRESS: 1558 CROSSROADS
KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.629278000 LONGITUDE: -97.820611000

WELL LOG:

DRILLING DATE (STARTED): 2018-11-28

DRILLING DATE (COMPLETED): 2018-11-29

DEPTH DRILLED: 325'

WATER LEVEL:

STATIC LEVEL: 135'

WATER LEVEL DATE: 2018-11-29

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD
SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 47 Distance from Property: 0.72 mi. SW

TRACK #: 524986

DATE ENTERED: 2019-10-23

OWNER NAME: CHARLES AND LISA RILEY

OWNER ADDRESS: P.O. BOX 506

SEGUIN, TX 78156

COUNTY: GUADALUPE

LATITUDE: 29.613333000 LONGITUDE: -97.859167000

WELL LOG:

DRILLING DATE (STARTED): 2019-09-04

DRILLING DATE (COMPLETED): 2019-09-05

DEPTH DRILLED: 220'

WATER LEVEL:

STATIC LEVEL: 51'

WATER LEVEL DATE: 2019-09-04

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: HERBOLD DRILLING

COMPANY ADDRESS: 6395 FM 467

SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 48 Distance from Property: 0.73 mi. S

TRACK #: 296310

DATE ENTERED: 2012-08-23

OWNER NAME: KEN HOLMES

OWNER ADDRESS: 30720 C.R. 13

DAMON, TX 77430

COUNTY: GUADALUPE

LATITUDE: 29.610834000 LONGITUDE: -97.840000000

WELL LOG:

DRILLING DATE (STARTED): 2012-08-16

DRILLING DATE (COMPLETED): 2012-08-17

DEPTH DRILLED: 220'

WATER LEVEL:

STATIC LEVEL: 78'

WATER LEVEL DATE: 2012-08-17

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 49 Distance from Property: 0.76 mi. E

ID NUMBER: TX238811
STATE ID : 67-18-8
OWNER NAME: M. E. SIMPSON
DATE DRILLED: 04/24/1990
DEPTH DRILLED: 227'
STATIC LEVEL: 136'
WATER USAGE: DOMESTIC
LONGITUDE: -97.822056000
LATITUDE: 29.631797000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2

Water Well ID: 238811

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material
180	190	sandy blue clay
190	215	sandy blue
215		blue clay

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238811

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

94

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13087 Austin, Texas 78711																																																						
1) OWNER <u>M.E. Simpson</u> (Name)		ADDRESS <u>Box 38</u> <u>Kingbury</u> <u>Tx</u> <u>78638</u> (Street or RFD) (City) (State) (Zip)																																																								
2) LOCATION OF WELL: County <u>Buena Vista</u> 1 miles in <u>SE</u> direction from <u>Kingbury</u> (NE, SW, etc.) (Town)																																																										
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																																										
<input type="checkbox"/> LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____ <input checked="" type="checkbox"/> SEE ATTACHED MAP # <u>7</u> <u>ON 67-25-4</u>																																																										
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Monitor <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Injection <input type="checkbox"/> De-Watering		5) DRILLING METHOD (Check): <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other _____																																																						
6) WELL LOG: Date Drilling: <u>4-23</u> 19 <u>90</u> Started <u>4-24</u> 19 <u>90</u> Completed _____ 19____		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dis. (In.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> </thead> <tbody> <tr> <td><u>5 1/2</u></td> <td>Surface</td> <td><u>227</u></td> </tr> <tr> <td><u>7 7/8</u></td> <td><u>11</u></td> <td><u>210</u></td> </tr> <tr> <td><u>8 3/4</u></td> <td><u>11</u></td> <td><u>15</u></td> </tr> </tbody> </table>		Dis. (In.)	From (ft.)	To (ft.)	<u>5 1/2</u>	Surface	<u>227</u>	<u>7 7/8</u>	<u>11</u>	<u>210</u>	<u>8 3/4</u>	<u>11</u>	<u>15</u>	7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Well <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>160</u> ft. to <u>210</u> ft.																																										
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13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump below, cylinder, jet, etc., _____ ft.		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>0</u> ft. to <u>15</u> ft. No. of Sacks Used <u>1</u> Cemented from _____ ft. to _____ ft. No. of Sacks Used _____ Cement used _____ Cemented by <u>Larry Schaefer</u>																																																								
14) WELL TESTS: Type Test: <input type="checkbox"/> Pump <input type="checkbox"/> Baller <input checked="" type="checkbox"/> Jetted <input checked="" type="checkbox"/> Estimated Yield: <u>12</u> gpm with _____ ft. drawdown after _____ hrs.		10) SURFACE COMPLETION <input checked="" type="checkbox"/> Specified Surface Slab Installed [Rule 287.44(2)(A)] <input type="checkbox"/> Pile Adapter Used [Rule 287.44(3)(B)] <input type="checkbox"/> Approved Alternative Procedure Used [Rule 287.71]																																																								
15) WATER QUALITY: Did the drilling penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11) WATER LEVEL: Static level <u>136</u> ft. below land surface Date <u>4-24-90</u> Artesian flow _____ gpm. Date _____																																																								
		12) PACKERS: Type _____ Depth <u>150-160</u>																																																								
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																																																										
COMPANY NAME <u>DEHARDE'S WATER WELL SERV.</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>2328</u>																																																								
ADDRESS <u>RT 5 Box 440</u> (Street or RFD)		<u>SEGUIN</u>		<u>Tx</u> <u>78155</u> (City) (State) (Zip)																																																						
(Signed) <u>Larry Schaefer</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																																																								
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																										
For TWC use only: Well No. <u>67-18-8</u> Located on map _____																																																										

WWD-012 (Rev. 09/21/88)

TEXAS WATER COMMISSION COPY

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 50

Distance from Property: 0.77 mi. SW

TRACK #: 198439

DATE ENTERED: 2009-11-06

OWNER NAME: STEVE HOLLINGSHEAD

OWNER ADDRESS: 548 WILLIAM RANCH RD

SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.615556000 LONGITUDE: -97.864445000

WELL LOG:

DRILLING DATE (STARTED): 2006-06-27

DRILLING DATE (COMPLETED): 2006-06-27

DEPTH DRILLED: 200'

WATER LEVEL:

STATIC LEVEL: 75'

WATER LEVEL DATE: 2006-06-27

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN ROAD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 51

Distance from Property: 0.79 mi. NNE

ID NUMBER: TX238806
STATE ID : 67-18-7D
OWNER NAME: AUGUST GLENWINKLE III
DATE DRILLED: 07/14/1973
DEPTH DRILLED: 244'
STATIC LEVEL: 130'
WATER USAGE: DOMESTIC
LONGITUDE: -97.828983000
LATITUDE: 29.649429000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238806

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Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 67-18-7D
Located on map yes
Received: 73 yes

1) OWNER:
Person having well drilled August Glenwinkle III Address Kingsbury, Tex
(Name) 11 (Street or RFD) 11 (City) (State)
Landowner (Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Guadalupe miles in 11 direction from 11 (Town)
(N.E.S.W., etc.)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.
250 ft N.W. Kingsbury Postoffice
North
(Use reverse side if necessary)

3) TYPE OF WORK (Check):
New Well ☒ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☒ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 244 ft. Depth of completed well 245 ft. Date drilled 7/14/73
All measurements made from 1 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	15	GRAVEL
15	45	yellow clay
45	137	Blue shale
137	159	sand
159	200	Blue shale
200	244	sand

9) Casing:
Type: Old ☐ New ☒ Steel ☐ Plastic ☒ Other ☐
Cemented from 0 ft. to 245 ft.
Diameter (inches) 4 From (ft.) 0 To (ft.) 245 Casing

10) SCREEN:
Type: Perforated ☒ Slotted ☐
Diameter (inches) 4 From (ft.) 201 To (ft.) 245 Slot Size

7) COMPLETION (Check):
Straight well ☐ Gravel packed ☒ Other ☐
Under reamed ☐ Open Hole ☐

8) WATER LEVEL:
Static level 130 ft. below land surface Date 7/14/73
Artesian pressure 130 lbs. per square inch Date 7/14/73
Depth to pump bowls, cylinder, jet, etc., 130 ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 130 gpm with 130 ft. drawdown after 130 hrs.
Bailer test 130 gpm with 130 ft. drawdown after 130 hrs.
Artesian flow 130 gpm
Temperature of water 130

12) WATER QUALITY:
Was a chemical analysis made? Yes ☐ No ☒
Did any strata contain undesirable water? Yes ☐ No ☒
Type of water? 130 depth of strata 130

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME ALFRED BROWN Water Well Drillers Registration No. 310
(Type or Print)
ADDRESS P.O. Box 42 Kingsbury Texas 78658
(Street or RFD) (City) (State)
(Signed) Alfred Brown Alfred Brown Waterwell Drilling Service
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

GeoSearch

www.geo-search.com · phone: 888-396-0042 · fax: 512-472-9967

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 52 Distance from Property: 0.82 mi. S

TRACK #: 493027

DATE ENTERED: 2018-10-11

OWNER NAME: GST HOLDINGS LLC

OWNER ADDRESS: 929 W SUNSET BLVD SUITE # 21-502

ST. GEORGE, UT 84770

COUNTY: GUADALUPE

LATITUDE: 29.609556000 LONGITUDE: -97.835833000

WELL LOG:

DRILLING DATE (STARTED): 2018-09-17

DRILLING DATE (COMPLETED): 2018-09-18

DEPTH DRILLED: 220'

WATER LEVEL:

STATIC LEVEL: 80'

WATER LEVEL DATE: 2018-09-18

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 53

Distance from Property: 0.82 mi. NE

TRACK #: 335179

DATE ENTERED: 2013-08-15

OWNER NAME: MARK LORENZ

OWNER ADDRESS: PO BOX 4

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.648889000 LONGITUDE: -97.826944000

WELL LOG:

DRILLING DATE (STARTED): 2009-09-16

DRILLING DATE (COMPLETED): 2009-09-16

DEPTH DRILLED: 240'

WATER LEVEL:

STATIC LEVEL: 112'

WATER LEVEL DATE: 2009-09-16

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: NOT REPORTED

COMPANY ADDRESS: NOT REPORTED

NOT REPORTED

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 54

Distance from Property: 0.82 mi. SE

ID NUMBER: TX238820
STATE ID : 67-26-2
OWNER NAME: SILVER WOLF RANCH
DATE DRILLED: 02/03/2003
DEPTH DRILLED: 280'
STATIC LEVEL: 66'
WATER USAGE: DOMESTIC
LONGITUDE: -97.825221000
LATITUDE: 29.612603000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238820

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.		Texas Department of License and Regulation Water Well Driller/Pump Installer Program P.O. Box 12157 Austin, Texas 78711 (512)463-7880 FAX (512)463-8616 Toll free (800)803-9202 Email address: water.well@license.state.tx.us		This form must be completed and filed with the department and owner within 60 days upon completion of the well.	
WELL REPORT					
A. WELL IDENTIFICATION AND LOCATION DATA					
1) OWNER					
Name Silver Wolf Ranch		Address 900 Savage Ranch Rd		City State Zip Seguin TX 78155	
2) WELL LOCATION					
County Guadalupe		Physical Address Same As Above		City State Zip	
3) Type of Work					
<input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replacement		<input type="checkbox"/> Reconditioning <input type="checkbox"/> Deepening		4) Proposed Use (check) <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell <input type="checkbox"/> Rig Supply <input type="checkbox"/> If Public Supply well, were plans submitted? <input type="checkbox"/> Yes <input type="checkbox"/> No	
6) Drilling Date		Diameter of Hole		7) Drilling Method (check)	
Started 2 / 3 / 03		Dia.(in) From (ft) To (ft)		<input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other	
Completed 2 / 3 / 03		6 1/2 0 280 8 3/4 Reamed 272			
5) Grid # 67-26-2					
8) Borehole Completion <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall					
<input type="checkbox"/> Under-reamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other If Gravel Packed give the interval from 220 ft. to 270 ft.					
Casing, Blank Pipe, and Well Screen Data					
From (ft) To (ft) Description and color of formation material		Dia. (in.)		Setting (ft) Gage Casing Screen	
0 - sandy clay & clay					
80 - rock					
81 - sandy blue clay					
138 - rocks & sand					
155 - clay					
180 - sandy clay & rocks					
187 - clay					
230 - rock					
242 - sand					
265 - rocks & sand / 272 - clay					
(Use reverse side of Well Owner's copy, if necessary)					
9) Cementing Data					
Cementing from 0 ft. to 10 ft. # of sacks used 1					
Method Used Cement/Bentonite placed in well					
Cementing By Larry Deharde					
Distance to septic system field or other concentrated contamination 2 ft.					
Method of verification of above distance none					
10) Surface Completion					
<input type="checkbox"/> Specified Surface Slab Installed <input checked="" type="checkbox"/> Specified Surface Sleeve Installed 2(in) <input type="checkbox"/> Pileless Adapter Used <input type="checkbox"/> Approved Alternative Procedure Used					
11) Water Level					
Static level 66 ft. below Date 2-3-03					
Artesian Flow _____ gpm. Date _____					
12) Packers					
Type		Depth			
4 - Sacks		Hole Plug		210'-220'	
13) Plugged <input type="checkbox"/> Well plugged within 48 hours					
Casing left in well: <input type="checkbox"/> Cement/Bentonite placed in well:					
From (ft)		To (ft)		Sacks used	
14) Type Pump					
<input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other					
Depth to pump bowls, cylinder, jet etc., 180 ft.					
15) Water Test					
Type test <input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Jetted <input checked="" type="checkbox"/> Estimated					
Yield: 100 gpm with 180 ft. drawdown after _____ hrs.					
16) Water Quality					
Did you knowingly penetrate a strata which contain undesirable constituents.					
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, did you submit a REPORT OF UNDESIRABLE WATER					
Type of water _____ Depth of Strata _____					
Was a chemical analysis made <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Company or individual's Name (type or print) Deharde Water Well Service				Lic. No. 2328 WPK	
Address 1075 Schuenemann Rd		City Seguin		State TX Zip 78155	
Signature Larry Deharde		Date 2/26/03		Signature _____ Date _____	
Licensed Driller/Pump Installer				Apprentice	

TDLR FORM 6001 WWD

White - TDLR

Yellow - Owner

Pink - Driller/Pump Installer

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 55

Distance from Property: 0.83 mi. SSE

ID NUMBER: TX238825
STATE ID : 67-26-2
OWNER NAME: SILVER WOLF RANCH
DATE DRILLED: 02/20/1998
DEPTH DRILLED: 290'
STATIC LEVEL: 90'
WATER USAGE: DOMESTIC
LONGITUDE: -97.829289000
LATITUDE: 29.610212000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238825

*Send original copy by certified return receipt requested mail. TNRC, MC 177, P.O. Box 13087, Austin, TX 78711-3087.

ATTENTION OWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council MC 177 P.O. Box 13087 Austin, TX 78711-3087 512-239-0530	
1) OWNER <u>Silver Wolf Ranch</u> (Name)		ADDRESS <u>900 Savage Seguin, Tx. 78155</u> (Street or RFD) (City) (State) (Zip)			
2) ADDRESS OF WELL: County <u>Guadalupe</u>		900 Savage Seguin, Tx. 78155 (Street, RFD or other) (City) (State) (Zip)		GRID # <u>67-26-2</u>	
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell If Public Supply well, were plans submitted to the TNRC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5)	
6) WELL LOG: Date Drilling: <u>2-19</u> 19 <u>98</u> Started <u>2-20</u> 19 <u>98</u> Completed <u>2-20</u> 19 <u>98</u>		DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>9</u> Surface <u>290</u>		7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other	
From (ft.) To (ft.) Description and color of formation material		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other If Gravel Packed give interval ... from <u>110</u> ft. to <u>290</u> ft.			
0-3 Fl. Rock 3-130 Clay 130-140 T Sand 140-160 Sand 160-170 Shale 170-177 Rock 177-181 Shale 181-200 Sand 200-201 Shale 201-205 Rock 205-220 T Sand Str. 220-240 Good Str. 240-260 Shale 260-265 Sand 265-270 Shale		Casing, Blank Pipe, and Well Screen Data: Dia. (in.) New or Used Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial Setting (ft.) From To Gage Casing Screen <u>5</u> <u>N</u> <u>PVC</u> <u>PVC</u> <u>Sam.</u> <u>0</u> <u>290</u> <u>290</u> <u>201#</u>			
(Use reverse side of Well Owner's copy, if necessary)		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>10</u> ft. No. of sacks used <u>3</u> Method used <u>SELF</u> Cemented by <u>Herbold Bros Drilling</u> Distance to septic system field lines or other concentrated contamination <u>100</u> ft. Method of verification of above distance <u>NO SPT</u>			
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Perforator <input type="checkbox"/> Cylinder <input type="checkbox"/> Other Depth to pump bowls, cylinder, jet, etc., <u>180</u> ft.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 338.44(2)(A)] <input type="checkbox"/> Specified Steel Sleeve Installed [Rule 338.44(3)(A)] <input type="checkbox"/> Pileless Adapter Used [Rule 338.44(3)(b)] <input checked="" type="checkbox"/> Alternative Procedure Used [Rule 338.71]			
14) WELL TESTS: Type test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>400</u> gpm with <u>0</u> ft. drawdown after <u>1</u> hrs.		11) WATER LEVEL: Static <u>90</u> ft. below land surface Date <u>2-21-98</u> Artesian flow _____ gpm. Date _____			
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12) PACKERS: Type _____ Depth _____			
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.					
COMPANY NAME <u>Herbold Brothers</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>4070 IW</u>			
ADDRESS <u>6395 E.M. 467</u> (Street or RFD)		<u>Seguin</u> (City)		<u>TX. 78155</u> (State) (Zip)	
(Signed) <u>Don Herbold</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)			

TNRC-0199 (Rev. 05-21-96)

White - TNRC

Yellow - DRILLER

Pink - WELL OWNER

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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

MAP ID# 57

Distance from Property: 0.87 mi. NW

STATE ID: 67-18-704
OWNER'S NAME: H.W. WURZBACH
DATE DRILLED: 00/00/1930
DEPTH DRILLED: 2139'
WATER USAGE:
LONGITUDE: -97.857223000
LATITUDE: 29.641945000
SOURCE: TWDB

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 58

Distance from Property: 0.88 mi. E

TRACK #: 464868

DATE ENTERED: 2017-11-14

OWNER NAME: GLENN & NANCY SEILER

OWNER ADDRESS: 1648 CROSSROADS
KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.628167000 LONGITUDE: -97.820000000

WELL LOG:

DRILLING DATE (STARTED): 2017-11-06

DRILLING DATE (COMPLETED): 2017-11-07

DEPTH DRILLED: 320'

WATER LEVEL:

STATIC LEVEL: 126'

WATER LEVEL DATE: 2017-11-07

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD
SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 59

Distance from Property: 0.89 mi. SE

ID NUMBER: TX238824
STATE ID : 67-26-2
OWNER NAME: WOLF RANCH
DATE DRILLED: 08/13/1997
DEPTH DRILLED: 350'
STATIC LEVEL: 90'
WATER USAGE: DOMESTIC
LONGITUDE: -97.823570000
LATITUDE: 29.612644000

1 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 1
Water Well ID: 238824

Send original copy by certified return receipt requested mail to: TNRCC, MC 177, P.O. Box 13087, Austin, TX 78711-3087

ATTENTION OWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council MC 177 P.O. Box 13087 Austin, TX 78711-3087 512-239-0530	
1) OWNER: <u>Wolf Ranch</u> (Name)		ADDRESS: <u>900 Savage Rd. Sequin, TX 78155</u> (Street or RFD) (City) (State) (Zip)			
2) ADDRESS OF WELL: <u>Guadalupe</u> County		900 Savage Rd. Sequin, TX 78155 (Street, RFD or other) (City) (State) (Zip)		GRID # <u>67-26-2</u>	
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Public Supply <input type="checkbox"/> De-watering <input type="checkbox"/> Testwork If Public Supply well, were plans submitted to the TNRCC? <input type="checkbox"/> Yes <input type="checkbox"/> No		5) <u>⊗</u>	
6) WELL LOG: Date Drilling: <u>8/12</u> 19 <u>97</u> Started <u>8/12</u> 19 <u>97</u> Completed <u>8/12</u> 19 <u>97</u>		DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>9 7/8</u> Surface <u>350</u>		7) DRILLING METHOD (Check): <input type="checkbox"/> Driven <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Bored <input type="checkbox"/> Air Hammer <input type="checkbox"/> Cable Tool <input type="checkbox"/> Jetted <input type="checkbox"/> Other _____	
From (ft.) To (ft.) Description and color of formation material		8) Borehole Completion (Check): <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Wall <input type="checkbox"/> Underreamed <input type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>100</u> ft. to <u>350</u> ft.			
0-3 Flint Rock <u>095-300 Sand</u> 3-100 R. Clay <u>300-316 Sand</u> 100-150 B. Shale <u>316-330 Rock</u> 150-155 T. Sand <u>330-350 Sand</u> 155-178 Shale 178-180 Sand 180-187 Shale 187-191 Sand 191-210 Shale 210-218 Sand 218-245 Shale 245-265 R. Clay 265-287 Rock 287-295 Sand		CASING, BLANK PIPE, AND WELL SCREEN DATA: Dia. (in.) New or Used Steel, Plastic, etc. Perf., Slotted, etc. Screen Mtg., if commercial Setting (ft.) From To Gauge Casting Screen <u>5</u> <u>N</u> <u>PVC</u> <u>300mm</u> <u>0</u> <u>350</u> <u>20TH</u>			
(Use reverse side of Well Owner's copy, if necessary)		9) CEMENTING DATA (Rule 338.44(1)) Cemented from <u>0</u> ft. to <u>10</u> ft. No. of sacks used <u>4</u> Method used <u>SELF MIX</u> Commented by <u>HERBOLD BROS Drilling</u> Distance to septic system field lines or other concentrated contamination _____ ft. Method of ventilation of above distance _____			
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other <u>NO PUMP</u> Depth to pump bowls, cylinder, jet, etc., _____ ft.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed (Rule 338.44(2)(A)) <input type="checkbox"/> Specified Steel Sleeve Installed (Rule 338.44(2)(A)) <input type="checkbox"/> Pitless Adapter Used (Rule 338.44(3)(b)) <input checked="" type="checkbox"/> Approved Alternative Procedure Used (Rule 338.71) FMP # <u>NOV 5 1997</u> DESC CD <u>DN</u>			
14) WELL TESTS: Typetest: <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>40</u> gpm with <u>10</u> ft. drawdown after <u>1</u> hrs.		11) WATER LEVEL: Static level <u>90</u> ft. below land surface Date <u>8-14-97</u> Artesian flow _____ gpm. Date _____			
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit 'REPORT OF UNDESIRABLE WATER' Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO		12) PACKERS: Type Depth			
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.					
COMPANY NAME: <u>Herbold Brothers</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>40701W</u>			
ADDRESS: <u>6395 E. M. 467</u> (Street or RFD)		<u>Sequin, TX</u> (City)		<u>78155</u> (State) (Zip)	
(Signed) <u>Herbold</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)			
Please attach electric log, chemical analysis, and other pertinent information, if available.					

TNRCC-0199 (Rev. 05-21-96)

White - TNRCC

Yellow - DRILLER

Pink - WELL OWNER

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 60

Distance from Property: 0.91 mi. S

ID NUMBER: TX238826
STATE ID : 67-26-2E
OWNER NAME: HOLLUB PRODUCTION CO
DATE DRILLED: 10/05/1977
DEPTH DRILLED: 410'
STATIC LEVEL: NOT REPORTED
WATER USAGE: DOMESTIC
LONGITUDE: -97.836411000
LATITUDE: 29.608202000

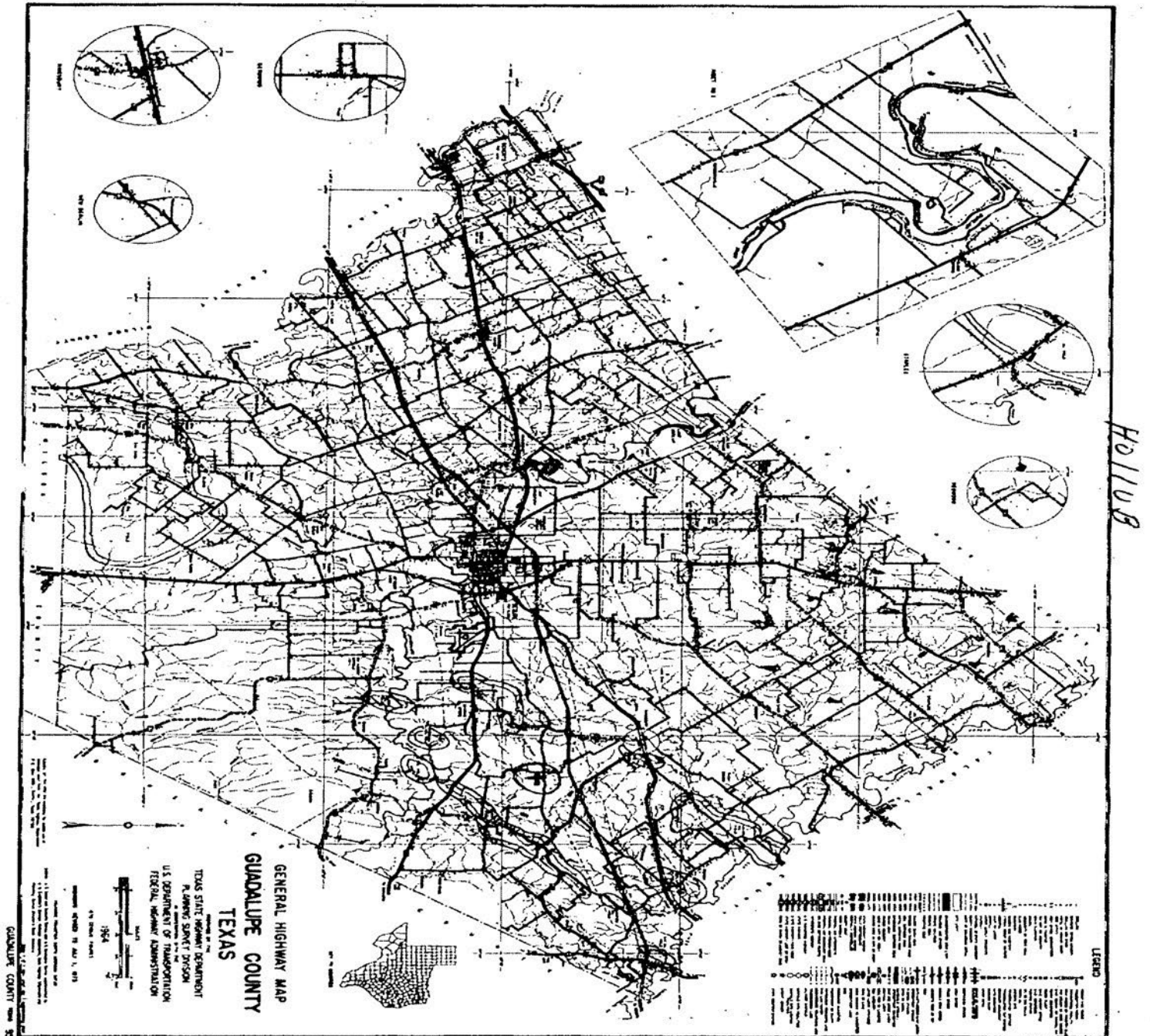
2 PAGE(S) OF DRILLERS' LOGS

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238826



67-26-2E

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238826

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TCEQ use only
Well No. 27-26-2 F
Located on map 405
Received: 7/2/77
MAC

1) OWNER:
Person having well drilled HOLLIS PRODUCTION CO Address 110 CHAPARRAL DR. SEGUIN TEXAS
(Name) (Street or RFD) (City) (State)
Landowner SAME Address _____
(Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County GUADALUPE 4 miles in SE direction from KINGBURY
(N, E, S, W, etc.) (Town)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.
Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW, NE, SW, SE) of Section _____

(Use reverse side if necessary)

3) TYPE OF WORK (Check):
New Well ☒ Deepening _____
Reconditioning _____ Plugging _____

4) PROPOSED USE (Check):
Domestic ☒ Industrial _____ Municipal _____
Irrigation _____ Test Well _____ Other _____

5) TYPE OF WELL (Check):
Rotary ☒ Driven _____ Dug _____
Cable _____ Jetted _____ Bored _____

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 410 ft. Depth of completed well 410 ft. Date drilled 10-5-77
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0 - 1	3400	
1 - 60	6-GRAY SAND	
60 - 75	GRAY SHALE	
75 - 96	FINE GRAY SAND	
96 - 165	GRAY SHALE WITH SANDSTRA	
165 - 175	FINE GRAY SAND	
175 - 204	GRAY SHALE with sand	
204 - 256	GRAY SAND	
256 - 302	GRAY SHALE	
302 - 325	FINE GRAY SAND	
325 - 345	GRAY SHALE	
345 - 410	FINE GRAY SAND with sand	

9) CASING:
Type: Old _____ New ☒ Steel _____ Plastic _____ Other _____
Cemented from _____ ft. to _____ ft.
Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Gauge _____

10) SCREEN:
Type _____
Perforated _____ Slotted _____
Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Slot Size _____

11) WELL TESTS:
Was a pump test made? Yes _____ No _____ If yes, by whom? _____
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes _____ No _____
Did any strata contain undesirable water? Yes _____ No _____
Type of water? _____ depth of strata _____

7) COMPLETION (Check):
Straight wall _____ Gravel packed _____ Other _____
Under reamed _____ Open Hole _____

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME RALPH HUGGINS Water Well Drillers Registration No. 1347
(Type or Print)
ADDRESS P.O. Box 163 SEGUIN TEXAS
(Street or RFD) (City) (State)
(Signed) Ralph Huggins HUGGINS DRILLING CO
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

GeoSearch

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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 61

Distance from Property: 0.92 mi. N

TRACK #: 470431

DATE ENTERED: 2018-02-08

OWNER NAME: ELLEY & JUBELA

OWNER ADDRESS: 477 GRAVEL PIT ROAD
KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.652528000 LONGITUDE: -97.834361000

WELL LOG:

DRILLING DATE (STARTED): 2018-01-04

DRILLING DATE (COMPLETED): 2018-01-05

DEPTH DRILLED: 250'

WATER LEVEL:

STATIC LEVEL: 130'

WATER LEVEL DATE: 2018-01-05

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD
SEGUIN, TX 78155

TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

MAP ID# 62

Distance from Property: 0.92 mi. S

STATE ID: 67-26-101
OWNER'S NAME: N.A. WUNDT WELL 1
DATE DRILLED: NOT REPORTED
DEPTH DRILLED: 2493'
WATER USAGE:
LONGITUDE: -97.834167000
LATITUDE: 29.608056000
SOURCE: TWDB

TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 1 out of 2
State ID: 67-26-101

TEXAS WATER DEVELOPMENT BOARD WELL SCHEDULE

State Well Number - 67 26 101 Previous Well Number - Q-39 County - Guadalupe 187
River Basin - Guadalupe River - 18 Zone - 2 Latitude - 29 36 29 Longitude - 97 50 03 Source of Coords - 4

Owners Well No. _____ Location _____ 1/4, _____ 1/4, Section _____, Block _____, Survey _____
Owner - N.A. Mundt well 1 Driller - Jas N. Eddy

Address _____ Tenant/Oper. _____
Date Drilled - / / Depth - 2,493 ft. Source of Depth - L Altitude - 512 ft. Source of Alt. - M
Aquifer - NOT-APPL AQUIFER CODE IS NOT APPLICABLE TO THIS WELL Well Type - P User -
WELL Const. Casing
CONSTRUCTION Method - _____ Material - _____ Casing or Blank Pipe (C)
Completion - _____ Screen Well Screen or Slotted Zone ()
Material - _____ Open Hole (O)
Cemented from _____ to _____
LIFT DATA - Pump Mfr. _____ Type - _____ No. Stages _____ Diam. Setting(feet)
Bowls Diam. - _____ in. Setting - _____ ft. Column Diam. - _____ in. (in.) From To
Motor Mfr. - _____ Fuel or Power - _____ Horsepower - _____
YIELD Flow - _____ GPM Pump - _____ GPM Meas..Rept..Est. _____ Date - _____
PERFORMANCE TEST Date - _____ Length of Test - _____ Production - _____ GPM
Static Level - _____ ft. Pumping Level - _____ ft. Drawdown - _____ ft. Sp.Cap. - _____ GPM/ft
QUALITY (Remarks - _____
WATER USE Primary - _____ Secondary - _____ Tertiary - _____
OTHER DATA AVAILABLE Water Levels - N Quality - N Logs - E Other Data - _____
WATER LEVELS Date - / / Measurement - _____
Date - / / Measurement - _____
Recorded By _____ Date Record Collected or Updated - / /
Reporting Agency - _____
REMARKS - _____
Oil test.

Aquifer - NOT-APPL
Well No. - 67 26 101

GeoSearch

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CROSS REFERENCE SHEET

Name or Subject		Date
CR-GWTD GUADALUPE	Located Well Data XX 67-26-101	
Regarding	Electric Log	

SEE

Name or Subject	GW-SC ELECTRIC LOG FILE	Q-39
-----------------	----------------------------	------

B-152(62-1)

SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 63

Distance from Property: 0.93 mi. NNE

TRACK #: 400473

DATE ENTERED: 2015-07-28

OWNER NAME: KEVIN REIGER

OWNER ADDRESS: P.O. BOX 31

KINGSBURY, TX 78638

COUNTY: GUADALUPE

LATITUDE: 29.652223000 LONGITUDE: -97.831111000

WELL LOG:

DRILLING DATE (STARTED): 2015-07-16

DRILLING DATE (COMPLETED): 2015-07-16

DEPTH DRILLED: 240'

WATER LEVEL:

STATIC LEVEL: 120'

WATER LEVEL DATE: 2015-07-16

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD

SEGUIN, TX 78155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 64

Distance from Property: 0.93 mi. E

ID NUMBER: TX238823
STATE ID : 67-26-2C
OWNER NAME: LESLIE BAKER
DATE DRILLED: 03/17/1971
DEPTH DRILLED: 330'
STATIC LEVEL: 95'
WATER USAGE: DOMESTIC
LONGITUDE: -97.819087000
LATITUDE: 29.624695000

2 PAGE(S) OF DRILLERS' LOGS

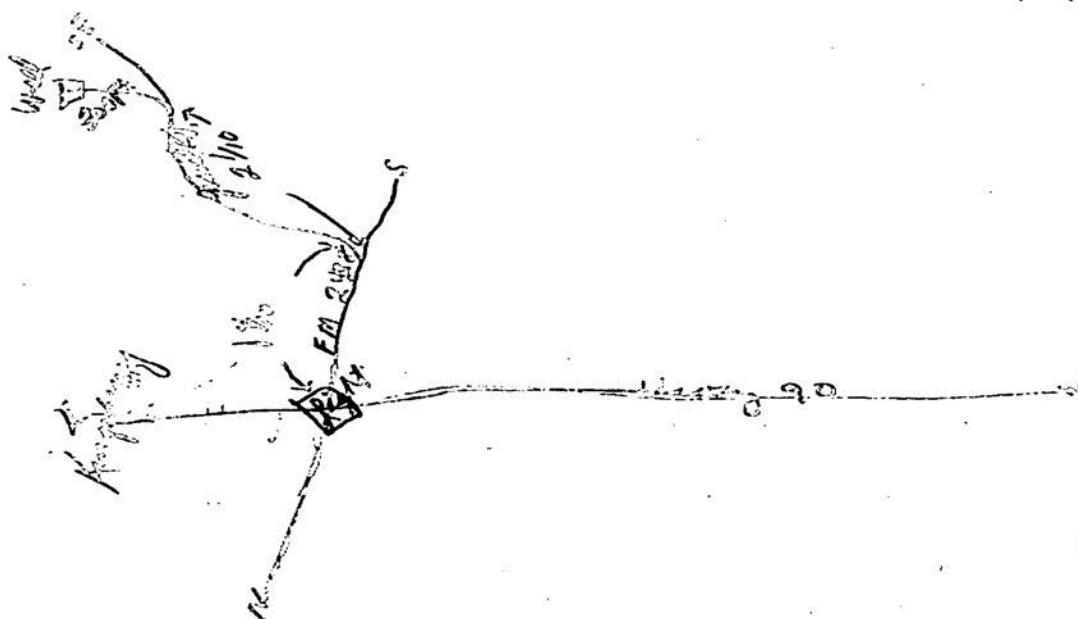
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238823

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12386 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TWDS, use only Well No. <u>26-2C</u> Located on map <u>111-1</u> Received: <u>111-1</u> Form GW 8 Form GW 9																																								
1) OWNER: Person having well drilled <u>Leslie Baker</u> (Name) Address <u>Kingsbury, Tex</u> (City, State) Landowner <u>Leslie Baker</u> (Name) Address <u>Kingsbury, Tex</u> (City, State)																																												
2) LOCATION OF WELL: County <u>Garza</u> Labor _____ League _____ Abstract No. _____ NW 1/4 NE 1/4 SW 1/4 SE 1/4 of Section _____ Block No. _____ Survey _____ (Circle as many as apply) Miles in <u>3</u> <u>mi SE</u> direction from <u>Kingsbury, Tex.</u> (Town)																																												
Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.																																												
3) TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging <input type="checkbox"/>		4) PROPOSED USE (Check): Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>		5) TYPE OF WELL (Check): Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Cable <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>																																								
6) WELL LOG: Diameter of hole <u>6 5/8</u> in. Depth drilled <u>330</u> ft. Depth of completed well <u>330</u> ft. Date drilled <u>3/17/71</u> All measurements made from <u>1</u> ft. above ground level.																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>56</td><td>yellow clay</td></tr> <tr><td>56</td><td>90</td><td>blue shale</td></tr> <tr><td>90</td><td>134</td><td>brown shale</td></tr> <tr><td>134</td><td>136</td><td>sand</td></tr> <tr><td>136</td><td>150</td><td>shale</td></tr> <tr><td>150</td><td>156</td><td>sand</td></tr> <tr><td>156</td><td>165</td><td>shale sand sticky</td></tr> <tr><td>165</td><td>170</td><td>rock</td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	0	56	yellow clay	56	90	blue shale	90	134	brown shale	134	136	sand	136	150	shale	150	156	sand	156	165	shale sand sticky	165	170	rock	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>170</td><td>220</td><td>shale sand streaks</td></tr> <tr><td>220</td><td>224</td><td>rock</td></tr> <tr><td>224</td><td>330</td><td>rock shale sand</td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	170	220	shale sand streaks	220	224	rock	224	330	rock shale sand	(Use reverse side if necessary)	
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170	220	shale sand streaks																																										
220	224	rock																																										
224	330	rock shale sand																																										
7) COMPLETION (Check): Straight well <input type="checkbox"/> Gravel packed <input checked="" type="checkbox"/> Other <input type="checkbox"/> Under reamed <input type="checkbox"/> Open hole <input type="checkbox"/>		8) WATER LEVEL: Static level <u>45</u> ft. below land surface Date <u>3/19/71</u> Artesian pressure _____ lbs. per square inch Date _____																																										
9) CASING: Type: old <input type="checkbox"/> New <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Other <input type="checkbox"/> Cemented from _____ ft. to _____ ft.		10) SCREEN: Type _____ Perforated <input checked="" type="checkbox"/> Slotted <input type="checkbox"/>																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter (inches)</th> <th>Setting From (ft.)</th> <th>To (ft.)</th> <th>Cage</th> </tr> </thead> <tbody> <tr><td>4</td><td>0</td><td>330</td><td></td></tr> </tbody> </table>		Diameter (inches)	Setting From (ft.)	To (ft.)	Cage	4	0	330		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Diameter (inches)</th> <th>Setting From (ft.)</th> <th>To (ft.)</th> <th>Slot size</th> </tr> </thead> <tbody> <tr><td>4</td><td>310</td><td>330</td><td></td></tr> </tbody> </table>				Diameter (inches)	Setting From (ft.)	To (ft.)	Slot size	4	310	330																								
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4	310	330																																										
11) WELL TESTS: Was a pump test made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes by whom? _____ Yield: _____ gpm with _____ ft. drawdown after _____ hrs Bailor test _____ gpm with _____ ft. drawdown after _____ hrs Artesian flow _____ gpm Date _____ Temperature of water _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did any strata contain undesirable water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type of water? _____ depth of strata _____		12) PUMP DATA: Manufacturer's Name <u>Aermotor</u> Type <u>Sub.</u> H.P. <u>3/4</u> Designed pumping rate _____ gpm <input type="checkbox"/> gph <input type="checkbox"/> Type power unit _____ Depth to bowls, cylinder, jet, etc., <u>240</u> ft. below land surface.																																										
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																																												
NAME: <u>Alfred Brown</u> (Type or Print) Address: <u>P.O. Box 112 Kingsbury</u> (City) <u>Tex.</u> (State)		Water Well Drillers Registration No. <u>310</u> (Signed) <u>Alfred Brown</u> <u>Alfred Brown Waterwell Drlg. & Service</u> (Company Name)																																										
Please attach electric log, chemical analysis, and other pertinent information, if available.																																												

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238823



RECEIVED
SEP 9 1971
Central Records
TCEQ

RECEIVED
AUG 9 1971
TEXAS WATER
DEVELOPMENT BOARD

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 65

Distance from Property: 0.93 mi. E

ID NUMBER: TX238817
STATE ID : 64-18-8L
OWNER NAME: JOHN MARSHALL
DATE DRILLED: 12/10/1973
DEPTH DRILLED: 283'
STATIC LEVEL: NOT REPORTED
WATER USAGE: DOMESTIC
LONGITUDE: -97.819237000
LATITUDE: 29.631390000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238817

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TWDB use only
Well No. 67-15-86
Located on map YES
Received: 74 YES
OK

1) OWNER:
Person having well drilled JOHN MARSHALL (Name) Address P.O. Box 7 SEGUIN TEXAS (City) (State)
Landowner SAME (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County GUADALUPE 1.6 miles in SE direction from KINGSBURY (Town)
(N., S.W., etc.)
Locate by sketch map showing landmarks, roads, creeks, highway number, etc.*
Give legal location with distances and directions from adjacent sections or survey lines.
Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW 1/4 NE 1/4 SW 1/4 SE 1/4) of Section _____

(Use reverse side if necessary)

3) TYPE OF WORK (Check):
New Well ☒ Deepening ☐
Reconditioning ☐ Plugging ☐

4) PROPOSED USE (Check):
Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

5) TYPE OF WELL (Check):
Rotary ☒ Driven ☐ Dug ☐
Cable ☐ Jetted ☐ Bored ☐

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 295 ft. Depth of completed well 285 ft. Date drilled 12-10-73
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	1	SAND
1	3	GRAVEL
3	24	GRAY CLAY
24	112	GRAY SHALE SANDS
112	147	HARD SAND
147	150	HARD SAND
150	170	GRAY SHALE
170	227	GRAY SAND & SHALE
227	259	GRAY SAND
259	295	HARD SAND
295	295	GRAY SHALE

9) Casing:
Type: Old _____ New ☒ Steel ☐ Plastic ☒ Other _____
Cemented from _____ ft. to _____ ft.
Diameter (inches) 4 Setting From (ft.) 0 To (ft.) 285 Case 175

10) SCREEN:
Type _____
Perforated _____ Slotted ☒
Diameter (inches) 4" Setting From (ft.) 230 To (ft.) 260 Slot Size _____

11) WELL TESTS:
Was a pump test made? Yes _____ No _____ If yes, by whom? _____
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes _____ No _____
Did any strata contain undesirable water? Yes _____ No _____
Type of water? _____ depth of strata _____

7) COMPLETION (Check):
Straight wall _____ Gravel packed _____ Other _____
Under reamed _____ Open Hole _____

8) WATER LEVEL:
Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME: RAIPER HODGENS (Type or Print) Water Well Drillers Registration No. 1347
ADDRESS: P.O. Box 163 SEGUIN TEXAS (City) (State)
(Signed) R. B. Hodgens (Water Well Driller) HODGENS DRILLING CO. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

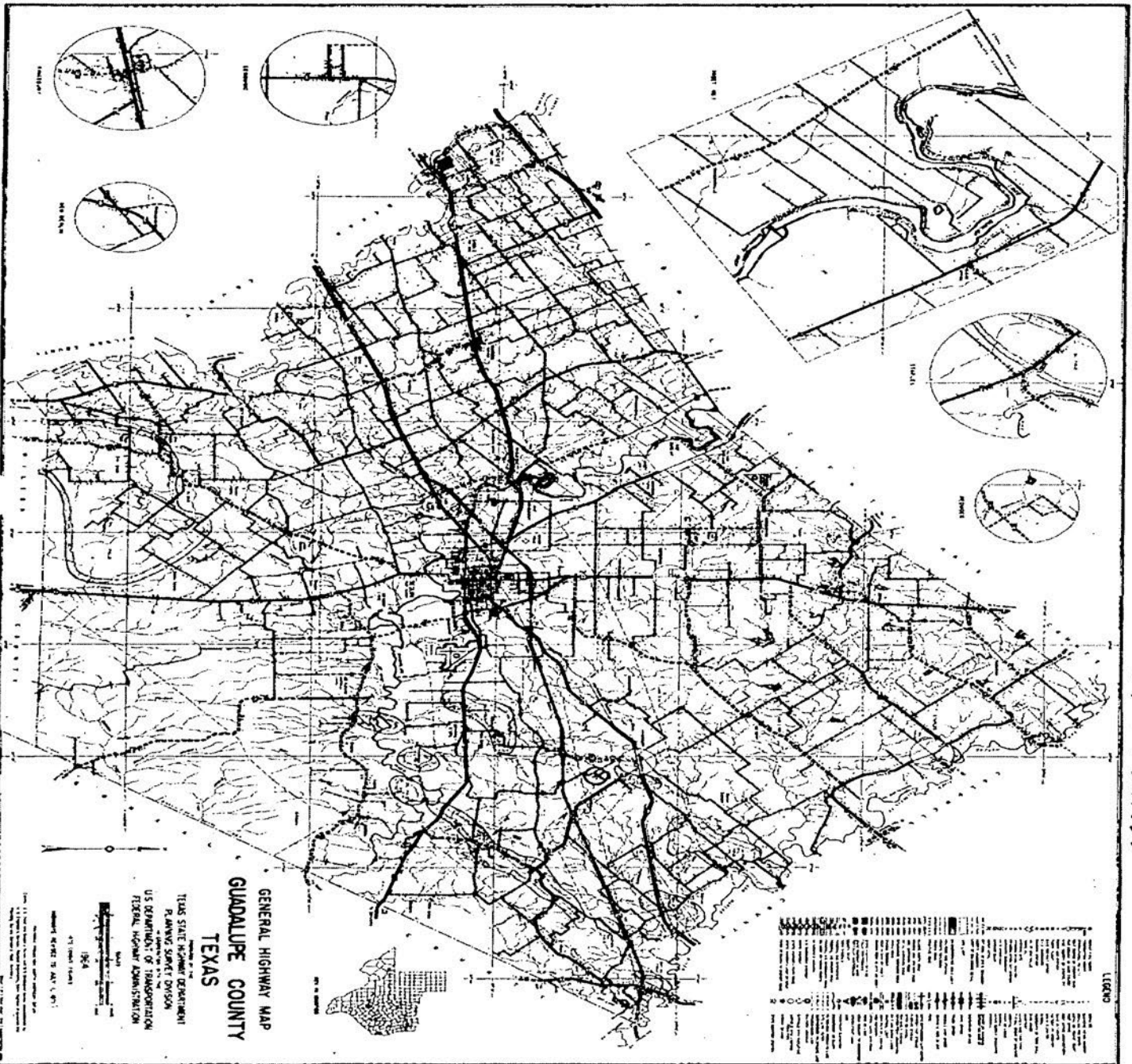
*Additional instructions on reverse side.

GeoSearch

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238817



J. MARSHALL

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

MAP ID# 66 Distance from Property: 0.95 mi. NW

ID NUMBER: TX238796
STATE ID : 67-18-7
OWNER NAME: LYNN TATE
DATE DRILLED: 01/13/1983
DEPTH DRILLED: 140'
STATIC LEVEL: 40'
WATER USAGE: DOMESTIC
LONGITUDE: -97.859786000
LATITUDE: 29.641526000

2 PAGE(S) OF DRILLERS' LOGS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 1 out of 2
Water Well ID: 238796

Send original copy, by certified mail to: Texas Water Commission, P.O. Box 13067, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13067 Austin, Texas 78711															
1) OWNER <u>LYAN TATE</u> (Name)		ADDRESS <u>RT-1 BOX 418A MARY TX 78123</u> (Street or RFD) (City) (State) (Zip)																	
2) LOCATION OF WELL County <u>CHAUDEUSE</u> <u>13</u> miles in <u>EAST</u> direction from <u>Sevin</u> (Town)																			
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																			
<input type="checkbox"/> LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____ <input checked="" type="checkbox"/> SEE ATTACHED MAP																			
3) TYPE OF WORK (Check): <input checked="" type="checkbox"/> Driller Well <input type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging		4) PROPOSED USE (Check): <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Monitor <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Injection <input type="checkbox"/> De-Watering		5) DRILLING METHOD (Check): <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Hammer <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other _____															
6) WELL LOG: Date Drilling: _____ Started <u>1-12-93</u> 19 <u>93</u> Completed <u>1-13-93</u> 19 <u>93</u>		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Dia. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td><u>7 7/8</u></td> <td>Surface</td> <td><u>140</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>7 7/8</u>	Surface	<u>140</u>	7) BOREHOLE COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Straight Well <input type="checkbox"/> Underreamed <input checked="" type="checkbox"/> Gravel Packed <input type="checkbox"/> Other _____ If Gravel Packed give interval ... from <u>20</u> ft. to <u>140</u> ft.									
Dia. (in.)	From (ft.)	To (ft.)																	
<u>7 7/8</u>	Surface	<u>140</u>																	
From (ft.) To (ft.) Description and color of formation material		8) CASING, BLANK PIPE, AND WELL SCREEN DATA:																	
<u>1-4</u> <u>Flint Rock</u> <u>4-20</u> <u>clay</u> <u>20-40</u> <u>SHAL</u> <u>40-44</u> <u>B. SHALE</u> <u>44-47</u> <u>ROCK</u> <u>47-50</u> <u>SHALE</u> <u>50-100</u> <u>SHAL STROKS</u> <u>100-123</u> <u>COARSE SHAL</u> <u>123-140</u> <u>SHAL</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Part, Screened, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td></td> <td></td> <td><u>20</u></td> <td><u>140</u></td> <td><u>2 1/2 inch</u></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Part, Screened, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4</u>			<u>20</u>	<u>140</u>	<u>2 1/2 inch</u>
Dia. (in.)	New or Used	Steel, Plastic, etc. Part, Screened, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen														
			From	To															
<u>4</u>			<u>20</u>	<u>140</u>	<u>2 1/2 inch</u>														
13) TYPE PUMP: <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Cylinder <input type="checkbox"/> Other _____ Depth to pump bowls, cylinder, jet, etc., <u>100</u> ft.		9) CEMENTING DATA (Rule 287.44(1)) Cemented from <u>0</u> ft. to <u>10</u> ft. No. of Bags Used <u>4</u> Cemented to <u>10</u> ft. No. of Bags Used _____ Method used <u>SPL</u> Cemented by <u>Hansen Bros.</u>																	
14) WELL TESTS: Type Test: <input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Estimated Yield: <u>30</u> gpm with <u>10</u> ft. drawdown after <u>1</u> hrs.		10) SURFACE COMPLETION <input type="checkbox"/> Specified Surface Slab Installed [Rule 287.44(2)(A)] <input type="checkbox"/> Specified Steel Sleeve Installed [Rule 287.44(3)(A)] <input type="checkbox"/> Flange Adapter Used [Rule 287.44(3)(B)] <input checked="" type="checkbox"/> Approved Alternative Procedure Used [Rule 287.71]																	
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input type="checkbox"/> No		11) WATER LEVEL: Static level <u>40</u> ft. below land surface Date <u>1-16-93</u> Artesian flow _____ gpm. Date _____																	
12) PACKERS: Type Depth																			
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmission.																			
COMPANY NAME <u>Hansen Bros. Drilling</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>1137</u>																	
ADDRESS <u>RT-3-Box 822</u> (Street or RFD)		<u>Sevin TX 78155</u> (City) (State) (Zip)																	
(Signed) <u>Robert H. Hurd</u> (Licensed Well Driller)		(Signed) <u>Eric H. Hurd</u> (Registered Driller Trainee)																	
Please attach electric log, chemical analysis, and other pertinent information, if available.																			
For TWC use only: Well No. _____ Located on map <u>6.7-18.7</u>																			

TWC-0199 (Rev. 05-18-90)

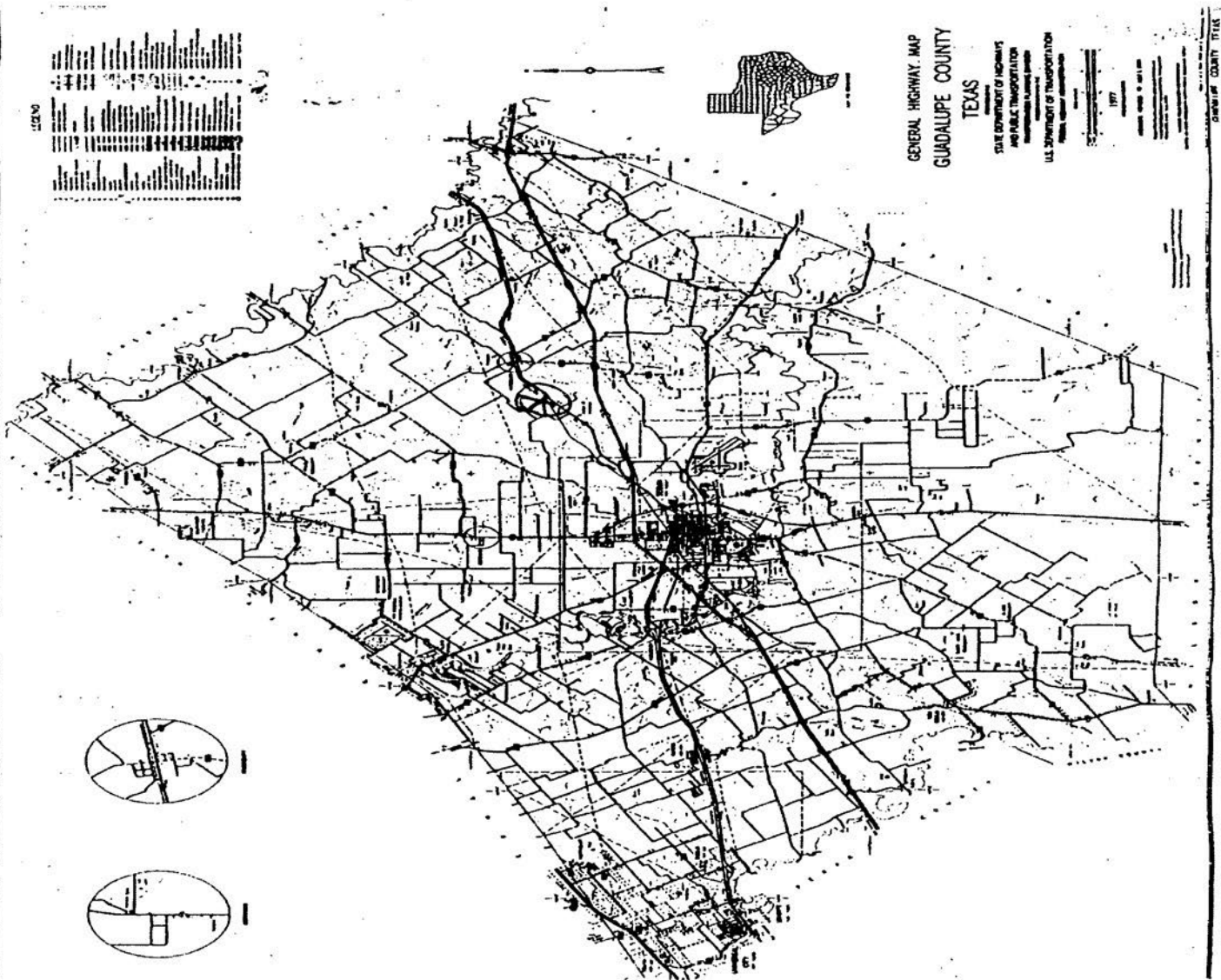
TEXAS WATER COMMISSION COPY

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER WELLS (TCEQ)

Page # 2 out of 2
Water Well ID: 238796



LYNN TAE

GeoSearch

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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 67

Distance from Property: 0.96 mi. ENE

TRACK #: 272252

DATE ENTERED: 2011-11-21

OWNER NAME: EMERALD BAY ENERGY INC.

OWNER ADDRESS: 705 CTY RD. 646

HONDO, TX 78861

COUNTY: GUADALUPE

LATITUDE: 29.643056000 LONGITUDE: -97.819444000

WELL LOG:

DRILLING DATE (STARTED): 2011-10-18

DRILLING DATE (COMPLETED): S2011-10-1

DEPTH DRILLED: 240'

WATER LEVEL:

STATIC LEVEL: 68'

WATER LEVEL DATE: 2011-10-19

TYPE OF WATER: GOOD

TYPE OF WORK:

NEW WELL

PROPOSED USE:

RIG SUPPLY

COMPANY INFORMATION:

COMPANY NAME: EVANS DRILLING

COMPANY ADDRESS: PO BOX 924

BELMONT, TX 78604

TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

MAP ID# 68

Distance from Property: 0.99 mi. NNE

STATE ID: 67-18-806
OWNER'S NAME: CRYSTAL CLEAR WSC KINGSBURY WELL
DATE DRILLED: 11/11/1974
DEPTH DRILLED: 285'
WATER USAGE: PUBLIC SUPPLY
LONGITUDE: -97.828611000
LATITUDE: 29.652501000
SOURCE: TWDB

TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 1 out of 6

State ID: 67-18-806

TEXAS WATER DEVELOPMENT BOARD WELL SCHEDULE

Aquifer W2 Field No. _____ State Well No. 67-18-806
Owner's Well No. _____ County Guadalupe

1. Location: 1/4 Sec. 1, Block 1, T. 25 N., R. 2 E.
In Kingsbury, Texas

* Owner: Crystal Clear Water Supply Address: P.O. Box 505, Kingsbury, Texas

Tenant: _____ Address: _____

Driller: Charles L. Behrens Drilling Co. Address: P.O. Box 242F, Seguin, Texas 78155

3. Elevation of LAND SURFACE is 160 ft. above sea level, determined by KINGSBURY TX QUAD

4. Drilled: Nov 11, 1974 by Dug, Cable Tool, Rotary 7 1/2" Hole

5. Depth: Rept. 285 ft. Meas. _____ ft.

6. Completion: Open Hole, Straight Wall, Underreamed Oravel Pack 2 1/2" x 4" x 1/4"

7. Pump: Mfr. _____ Type Submersible
No. Stages _____, Bowl Diam. _____ in., Setting _____ ft.
Column Diam. _____ in., Length Tailpipe _____ ft.

8. Motor: Fuel ELEC Make & Model _____ HP 5

9. Yield: Flow _____ gpm, Pump _____ gpm, Meas., Rept., Est. _____

10. Performance Test: Date 11-11-74 Length of Test 6 Made by C.L. Behrens
Static Level 132 ft. Pumping Level 180 ft. Drawdown 48 ft.
Production 40 gpm Specific Capacity _____ gpm/ft.

11. Water Level: 132 ft. Rept. Nov 11, 1974 above/below surface.
ft. Rept. _____ 19 _____ above/below surface.
ft. Rept. _____ 19 _____ above/below surface.
ft. Rept. _____ 19 _____ above/below surface.
ft. Rept. _____ 19 _____ above/below surface.

12. Use: Dom., Stock, Public Supply, Ind., Irri., Waterflooding, Observation, Not Used.

13. Quality: (Remarks on taste, odor, color, etc.) _____
Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
Temp. _____ °F, Date sampled for analysis _____ Laboratory _____
Temp. _____ °F, Date sampled for analysis _____ Laboratory _____

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test.

15. Record by: Bill O'Pee Date 10 1976
Source of Data _____

16. Remarks: * CONTACT GARLAND POWERS, JR 512-272-2292
IN SEGUIN FOR INFORMATION (MAY BE AT HOME AS HE
NEVER AT HOME

Cemented From <u>17</u> ft. to <u>+7</u> ft.		Setting, ft.	
Diam. (in.)	Type	from	to
5	Plastic	+1.6	254

Screen Openings <u>Slotted</u>		Setting, ft.	
Diam. (in.)	Type	from	to
5	Plastic	196	206
5	Plastic	224	254

TWDB-WD-2

(Sketch)

67-18-806

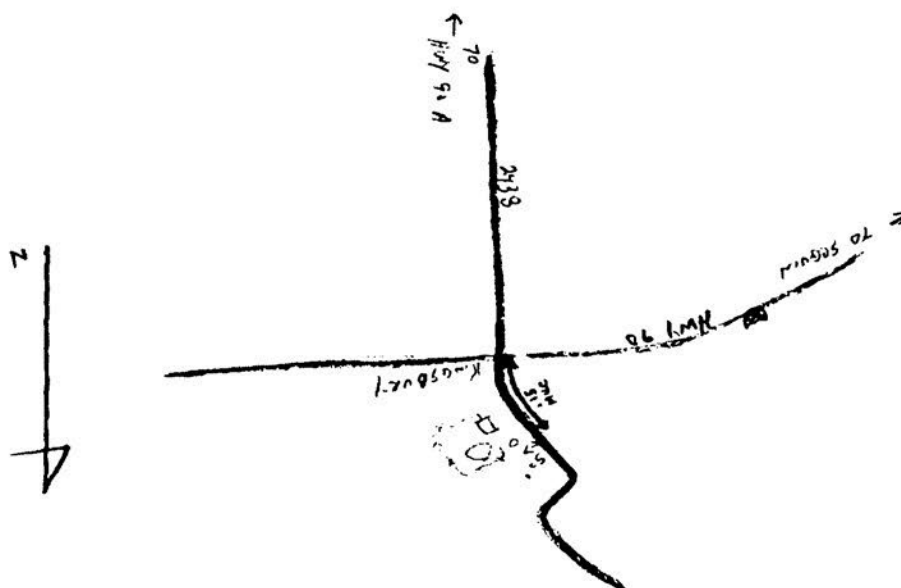
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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 2 out of 6

State ID: 67-18-806



From (ft.)	To (ft.)	Description and color of formation material
0 - 12		gravel
12 - 50		yellow clay
50 - 87		Gray clay
87 - 157		Blue clay
157 - 159		Blue Rock
159 - 206		Coarse blue sand
206 - 223		Blue Sandy clay
223 - 256		Fine blue sand
256 - 285		Blue Clay

TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 3 out of 6
State ID: 67-18-806

2002FY

TWDB Water Quality Field Data Sheet

State Well Number: 6718806

Name: Crystal Clear WSC

County: Guadalupe

Address: 2370 FM 1979

County Code: 187

Phone Number: 830-372-1031

Aquifer Code: 124WLCX

Attention: Robert Wylly

Aquifer Id: 10

Well Name or #: Kingsbury Well

Sample ID Number: 644

Date: 3/11/02

Sampler(s): D. Ray

CIRCLE EACH SAMPLE FRACTION COLLECTED:

①	②	③	④	5
500ml (filtered) Anions / Total Alk. Ice	500ml (filtered) Cations Nitric (HNO3)	250ml (filtered) Nitrate Ice + H2SO4	40 ml (unfiltered) Atrazine Ice and in dark	1L (unfiltered) Radioactivity Nitric (HNO3)

Proper preservation requires adding enough of the correct acid to each sample fraction to bring the pH below 2.0.

Time In: 8:30

Time Out: 9:30

W. L. depth from LSD (ft.): -115.10

W.L. remark: _____

M.P. = +1.00

Pumping Since: 8:47

Sampling Point: Pvc pipe & ST

Well Use: P

FIELD G.P.S. readings

Lift: S

Latitude: 29 39 07

Power: E

Longitude: 97 49 43

Sample Time: 9:10

Filter pressure: hand pump (line)

Water Quality Stabilization Parameters Table

(at least 3 readings at five minute intervals)

Time:	8:50	9:05	9:20	9:35	9:50
pH:	6.61	6.76	6.79	6.80	
Celsius Temp. (00010):	23.7	23.8	23.8	23.8	
Conductivity (uS/cm):	1121	1132	1132	1132	

Notes:

No previous WQ
Mg+1.00
will be put back on line
pretty soon.
Data Entered By: Sampier Two Database

Field Alkalinity Titration:

6.89	Start pH	4.49	End pH
50.0	mL Sample Size		
	mL Acid added for Phenol (> 8.3)		
15.8	mL Acid added for Total (8.3 - 4.5)		
Items below calculated from: mL acid added x 20 = Alkalinity			
	Phenol Alkalinity (mg/L):		mg/L
	Total Alkalinity (mg/L):	316.0	mg/L

Items Below Calculated Later From Results:

Disolved Solids (mg/L):	695
Hardness (as CaCO3):	238
Balance:	✓

Calibration Verification Readings

pH	7.00	7.09	7.36
	4 or 10	9.98	
SLP =	5.84		
Conductivity	500	498	
	1000	1008	
	2000	1954	
	5000	4950	

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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 4 out of 6

State ID: 67-18-806

Final Analysis Report

LCRA Environmental Laboratory Services

Date: 08-Apr-02

CLIENT: Texas Water Development Board

Client Sample ID: 67-18-806

Lab Order: 0203174

File No: 19095

Project: TWDB FY02

Collection Date: 03/11/2002 9:10:00 AM

Lab ID: 0203174-01

Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ICP METALS DISSOLVED								
		E200.7						Analyst: MLP
Calcium		84.2	0.20		mg/L	1	R13267A	03/21/2002 5:18:37 PM
Magnesium		18.8	0.20		mg/L	1	R13267A	03/21/2002 5:18:37 PM
Potassium		7.23	0.20		mg/L	1	R13267A	03/21/2002 5:18:37 PM
Sodium		130	0.71		mg/L	1	R13336A	03/26/2002 5:14:38 PM
ICP METALS DISSOLVED								
		E200.7						Analyst: MLP
Boron		463	50		µg/L	1	R13289A	03/21/2002 5:18:37 PM
Iron		350	50		µg/L	1	R13289A	03/21/2002 5:18:37 PM
Strontium		718	20		µg/L	1	R13289A	03/21/2002 5:18:37 PM
ICPMS DISSOLVED METALS								
		E200.8						Analyst: SW
Aluminum		ND	4.00		µg/L	1	R13325A	03/26/2002
Antimony		ND	1.00		µg/L	1	R13325A	03/26/2002
Arsenic		ND	2.00		µg/L	1	R13325A	03/26/2002
Barium		39.6	1.00		µg/L	1	R13325A	03/26/2002
Beryllium		ND	1.00		µg/L	1	R13325A	03/26/2002
Cadmium		ND	1.00		µg/L	1	R13325A	03/26/2002
Chromium		ND	1.00		µg/L	1	R13325A	03/26/2002
Cobalt		ND	1.00		µg/L	1	R13325A	03/26/2002
Copper		3.62	1.00		µg/L	1	R13325A	03/26/2002
Lead		ND	1.00		µg/L	1	R13325A	03/26/2002
Lithium		87.5	2.00		µg/L	1	R13325A	03/26/2002
Manganese		378	1.00		µg/L	1	R13325A	03/26/2002
Molybdenum		ND	1.00		µg/L	1	R13325A	03/26/2002
Nickel		1.51	1.00		µg/L	1	R13325A	03/26/2002
Selenium		ND	4.00		µg/L	1	R13325A	03/26/2002
Thallium		ND	1.00		µg/L	1	R13325A	03/26/2002
Vanadium		ND	1.00		µg/L	1	R13325A	03/26/2002
Zinc		7.70	4.00		µg/L	1	R13325A	03/26/2002

CATION/ANION BALANCES

Cation/Anion Balance

Balanced

CALCULATION

Date

1

R13519

04/08/2002

Analyst: AMJ

ANIONS BY ION CHROMATOGRAPHY, DISSOLVE E300

Analyst: WR

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 5 out of 6
State ID: 67-18-806

LCRA Environmental Laboratory Services

Date: 08-Apr-02

CLIENT: Texas Water Development Board
Lab Order: 0203174 File No: 19095
Project: TWDB FY02
Lab ID: 0203174-01

Client Sample ID: 67-18-806
Collection Date: 03/11/2002 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE E300								
Bromide Dissolved		0.31	0.10		mg/L	5	R13297A	03/21/2002 12:59:08 PM
Chloride Dissolved		109	5.00		mg/L	5	R13297A	03/21/2002 12:59:08 PM
Fluoride Dissolved		0.36	0.05		mg/L	5	R13297A	03/21/2002 12:59:08 PM
Sulfate Dissolved		118	5.00		mg/L	5	R13297A	03/21/2002 12:59:08 PM
ALKALINITY								
			M2320 B					Analyst: CMM
Alkalinity, Phenolphthalein		ND	0		mg/L CaCO ₃	1	R13226	03/19/2002
Alkalinity, Total (As CaCO ₃)		311	2		mg/L CaCO ₃	1	R13226	03/19/2002
NITRATE AND NITRITE								
			E353.2					Analyst: WR
Nitrogen, Nitrate & Nitrite		0.04	0.02		mg/L	1	R13517A	04/05/2002
SILICA								
			E370.1					Analyst: WR
Silica, Dissolved (as SiO ₂)		40.6	0.50		mg/L	1	R13404A	04/01/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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GeoSearch

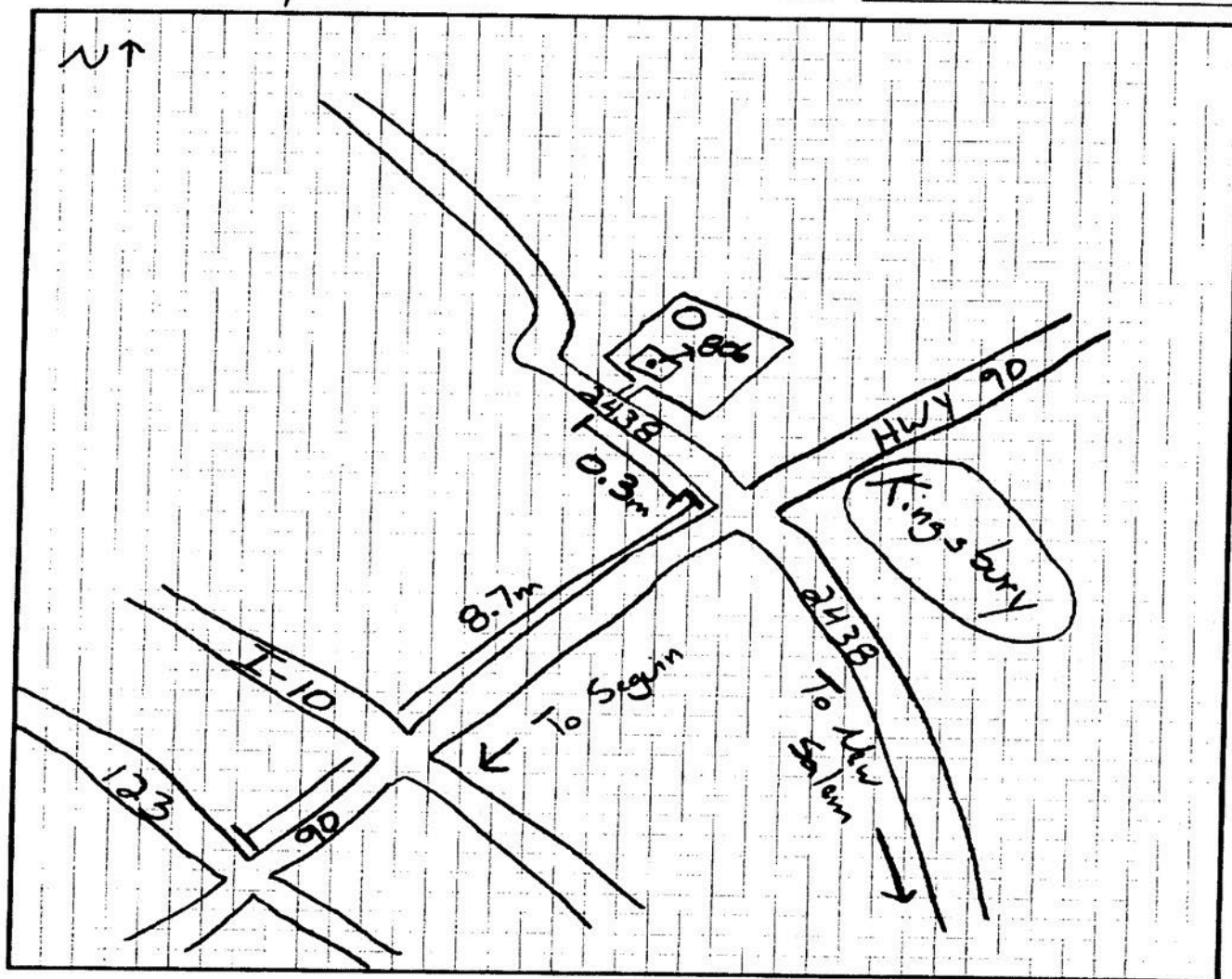
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TEXAS WATER DEVELOPMENT BOARD GROUNDWATER DATABASE (TWDB)

Page # 6 out of 6
State ID: 67-18-806

Texas Water Development Board - Well Location Sketch

By: D Rau Date: 3/11/02 Division: Hemon
County: Guadalupe Well Number: 6718806



6718806

Well Number

V:/HEMon/Share/Forms/sketch

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SUBMITTED DRILLERS REPORT DATABASE (SDRD)

MAP ID# 69

Distance from Property: 1.00 mi. S

TRACK #: 206066

DATE ENTERED: 2010-01-27

OWNER NAME: TURNER, MORGAN

OWNER ADDRESS: PO BOX 1501

SEGUIN, TX 78155

COUNTY: GUADALUPE

LATITUDE: 29.606945000 LONGITUDE: -97.840000000

WELL LOG:

DRILLING DATE (STARTED): 2008-06-05

DRILLING DATE (COMPLETED): 2008-06-05

DEPTH DRILLED: 182'

WATER LEVEL:

STATIC LEVEL: 35'

WATER LEVEL DATE: 2008-06-05

TYPE OF WATER: WILCOX

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: DEHARDE WATER WELL SERVICE

COMPANY ADDRESS: 1075 SCHUENEMANN RD.

SEGUIN, TX 78155

ENVIRONMENTAL RECORDS DEFINITIONS - FEDERAL

NWIS

United States Geological Survey National Water Information System

VERSION DATE: 1/2020

The U.S. Geological Survey (USGS) National Water Information System (NWIS) includes water inventory data originating from all 50 states, plus border and territorial sites, including data from as early as 1899. This database includes selected site types limited to Groundwater Sites and Spring Sites from the 1.5 million plus sites within NWIS. Surface-Water, Atmospheric, and Other Site types are excluded. Disclaimer: Water Data for the Nation is the USGS public web interface to much of the data stored and managed within NWIS. It is not, however, configured to present all NWIS data and users may need to contact local Water Science Centers to obtain some information. NWIS data is updated on a regularly scheduled basis, and current condition data is generally updated upon receipt at local Water Science Centers.

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ENVIRONMENTAL RECORDS DEFINITIONS - STATE (TX)

SSDRD Select Submitted Drillers Report Database Wells

VERSION DATE: 2/2021

This Texas Water Development Board database was created from the online Texas Well Report Submission and Retrieval System (a cooperative TDLR, TWDB system) that registered water-well drillers use to submit their required reports. The system was started in February 2001 and is optional for the drillers to use. This data excludes the following well types: Monitor Wells, Environmental Soil Borings, Injections Wells, De-watering and Test Wells.

TCEQ Texas Commission on Environmental Quality Water Wells

VERSION DATE: NR

The Texas Commission on Environmental Quality (TCEQ) maintains a filing system of plotted and unnumbered water wells. Plotted water wells are filed according to the County indicated by the driller and the state well number assigned by State of Texas personnel. Given the available location information provided by the driller, personnel identify where the approximate well location should be. After well placement a state well number is assigned indicating that the well lies within a specific 2.5' section of a 7.5' quadrangle. This method allows for quicker, more refined, reference when researching a specific area. Unnumbered water wells have not been assigned a state well number. This can occur for a variety of reasons; however it does not mean the well cannot be accurately spotted. Unnumbered water well records are filed according to County and are often broken up by year or by a span of years.

TWDB Texas Water Development Board Groundwater Database

VERSION DATE: 11/2020

The Texas Water Development Board Groundwater Database contains information for more than 123,500 sites in Texas including data on water wells, springs, oil/gas tests, water levels, and water quality. The purpose of the Board's data collection effort over the years has been to gain representative information about aquifers in the state in order to do water planning. It is very important, however, to realize that the wells in the database represent only a small percentage of the wells that actually exist in Texas. A registered water well driller is required by law to send in a report to the State for every well that is drilled. This requirement began in 1965, and we estimate that approximately 500,000 wells have been drilled in Texas since then. Of the 1,000,000 plus water wells drilled in Texas over the past 100 years, more than 130,000 have been inventoried and placed into the TWDB groundwater database. State well numbers have been assigned to these based on their location within numbered 7 1/2 minute quadrangles formed by lines of latitude and longitude. This database contains well information including location, depth, well type, owner, driller, construction and completion data.

WUD Water Utility Database

VERSION DATE: NR

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public

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ENVIRONMENTAL RECORDS DEFINITIONS - STATE (TX)

Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

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 ~50 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 ~200 gpm.
- c. Name of Watercourse as shown on Official USGS maps: Long Branch
- d. Zip Code 78155
- f. Location of point: In the James A Swift Original Survey No. N/A, Abstract No. 292, Guadalupe County, Texas.
- g. Point is at:
Latitude 29.623369 °N, Longitude -97.845153 °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): GIS

Map submitted must clearly identify each discharge point. See instructions Page. 15.



**GUADALUPE COUNTY GROUNDWATER
CONSERVATION DISTRICT**

OPERATING/PRODUCTION PERMIT

FOR THE WITHDRAWAL AND BENEFICIAL USE OF GROUNDWATER

Permit No. REC-2022-WX-01

I. Permittee:

Name: Kiteboard Ranch, LLC

Mailing Address: 3571 Far West Blvd #82, Austin, TX 78731

Email: stephen@yacktman.email

Phone Number: (512) 767-6700

Contact Person if different from Permittee*:

[Name, address, email & phone]

N/A

*Permittee shall advise the District of any change in contact information and shall ensure that a current emergency contact telephone number is on file with the District.

II. Permit Term: 5 years from date of issuance or renewal.**

Date Original Application was filed: September 28, 2021

Renewal Date(s):

N/A

(Attached: Copies of original permits/renewals/amendments to this permit)

Date Issued: January 13, 2022 Expiration Date: January 13, 2027

**Permits may be renewed by the District as per GCGCD Rule 5.3(g). Permits do not become vested rights in the permit holder, and there is no automatic right of renewal.

III. Annual Production*: Three Hundred and Twenty One (321) Acre-Feet/Year
from the Wilcox aquifer**

***Annual Production is the maximum annual amount of groundwater withdrawal authorized to be

produced from the well(s), under an operating permit, a permit amendment, or otherwise.

IV. Pump Size: See attached table **Production Capacity:** See attached table

V. Location of Well(s): [GPS Coordinates in decimal degrees to six decimal points, Physical address, GCAD Geo & Property ID #, and/or legal description, as applicable]:

See attached table

VI. Number of Well(s) Associated with Permit: Seven (7)

VII. Purpose of Use: Recreational

VIII. Destination of water:

To maintain water level for a 95-acre lake on the property

IX. Contractual Commitments of Water Rights: Six Hundred and Forty One and Ninth Tenths (641.9)

Carrizo Aquifer Water Rights: GCGCD Rule 5.4(d).

Wilcox Aquifer Water Rights: GCGCD Rule 5.4(f)

See attached table

X. Standard Permit Provisions. All permits are granted subject to the District Act, Rules, and orders of the Board, the laws of the State of Texas, the District's Management Plan, and Desired Future Conditions, and the continuing right of the District to manage the aquifers within the District's boundaries as authorized by Chapter 36 of the Texas Water Code, as amended, and are subject to the following conditions and requirements:

1. This Permit is granted in accordance with the provisions of the District Act, Texas Water Code, and the Rules, Management Plan and orders of the District, and the Desired Future Conditions applicable to the aquifers in the District, and the Permittee shall comply with the Water Code, the District Act, the District's Rules, orders of the District's Board, and all the terms, provisions, conditions, requirements, limitations and restrictions embodied in this Permit. Failure to comply with any of these provisions may result in cancellation or revocation of the Permit.

2. This Permit confers no vested rights in the holder, and it may be revoked or suspended, or its terms may be modified or amended pursuant to the provisions of the District's Act. This Permit confers only the right to operate under the terms and conditions of the Permit, and its terms may be modified or amended pursuant to the District's Rules, Chapter 36 of the Texas Water Code, and the directives of the Texas Legislature, or if necessary, to achieve the goals and objectives of the District's Management Plan, to achieve the Desired Future Conditions applicable to the District, or to address water quality issues.
3. The operation of the well(s) for the authorized withdrawal must be conducted in a non-wasteful manner.
4. All permitted wells used either for industrial, commercial irrigation or municipal purposes shall be equipped with approved metering devices accessible to District employees at any time during normal business hours as per Rule 5.1 (d).
5. The Permittee must keep accurate records of the amount of groundwater withdrawn and the purpose of the withdrawal and such records shall be available for inspection by District representatives. Immediate written notice must be given to the District in the event the well is either polluted or causing pollution of any aquifer.
6. The well site must be accessible to District representatives for inspection, and the Permittee agrees to cooperate fully in any reasonable inspection of the well and well site by District representatives.
7. The application pursuant to which this Permit has been issued is incorporated in this Permit, and this Permit is granted on the basis of, and contingent upon, the accuracy of the information supplied in that application and in any amendments to the application. A finding that false information has been supplied is grounds for immediate revocation of the Permit. In the event of conflict between the provisions of this Permit and the contents of the application, the provisions of this Permit shall control.
8. Violation of this Permit's terms, conditions, requirements, or special provisions, shall subject the permit holder to civil penalties, injunction from further well operation and production, and other legal action as provided by the District's Rules.
9. Wherever special provisions are inconsistent with other provisions or the District's Rules, the special provisions prevail.
10. Permittee agrees to allow District to include well(s) under this permit into GCGCD Monitoring Well Program.

Table 4. Guadalupe County GCD Well Permit Application Supplemental Information

Section #	Section 1.2	Section 1.3	Section 1.3	Section 1.3	Section 1.4	Section 1.4	Section 1.4	Section 1.5	Section 1.5	Section 1.6	Section 1.8	Section 1.13
Well Name	Depth to Water Bearing (ft)	Production Capacity (GPM)	Pump Size (HP)	Well Location (GEO ID)	Well Location (Property ID)	Latitude	Longitude	Grid Location	# Enabling Water Rights	Drill Date		
K-3	25	35	3	2G0162-0000-00300-0-00	64977	29.629197	-97.847684	67-18-7	112.91	9/17/2020		
K-10a	162	15	3	2G0292-0000-00500-0-00	70303	29.62408	-97.834919	67-26-1	48.39	1/14/2021		
K-13	84	15	1 1/2	2G0292-0000-00500-0-00	70303	29.621873	-97.836176	67-26-1	48.39	1/23/2021		
K-14	80	8	1/2	2G0292-0000-00500-0-00	70303	29.623402	-97.838478	67-26-1	25.81	1/27/2021		
K-16	20	60	3	2G0162-0000-00300-0-00	64977	29.630571	-97.845343	67-18-7	193.56	2/2/2021		
K-18	40	58	5	2G0162-0000-00300-0-00	64977	29.627372	-97.849835	67-18-7	187.11	2/22/2021		
K-23	24	8	1/2	2G0345-0000-00100-0-00	72233	29.633588	-97.841981	67-18-7	25.81	3/15/2021		

Attach Special Conditions (if applicable) _____

Attach Action Plan for implementing Special Condition(s) – (if applicable)

NOW, THEREFORE, THIS OPERATING/PRODUCTION PERMIT IS ISSUED and attested by the seal of the District.

DATED, ISSUED, AND EXECUTED THIS 13th day of January, 2022, and **TO BE EFFECTIVE** the 13th day of January, 2022, Guadalupe County, Texas, by the General Manager of the District upon delegation by the District's Board of Directors.


Kelly Cochran, General Manager

GCGCD Seal



WORKSHEET 5.0 ENVIRONMENTAL INFORMATION

1. Impingement and Entrainment

This section is required for any new diversion point that is not already authorized. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on any new diversion structure that is not already authorized in a water right). **Instructions, Page 29.**

N/A

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

This section is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins and in all basins for requests to change a diversion point. **Instructions, Page 30.** N/A

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: _____

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: _____

c. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the stream segments affected by the application and the area surrounding those stream segments.

- ☐ 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.
2. 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.

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

This section is required for applications using an alternate source of water and bed and banks applications in any basins. **Instructions, page 31.**

a. For all bed and banks applications:

- i. Submit 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.

b. For all alternate source applications:

- i. If the alternate source is treated return flows, provide the TPDES permit number N/A
- ii. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide:
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.

Please see attachment on following page for water chemistry data on groundwater wells.

Parameter	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Sulfate, mg/L					
Chloride, mg/L					
Total Dissolved Solids, mg/L					
pH, standard units					
Temperature*, degrees Celsius					

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

- iii. If groundwater will be used, provide the depth of the well between 122'-191' and the name of the aquifer from which water is withdrawn Carrizo-Wilcox Aquifer.

Water Quality - Kiteboard

Parameter	K-4		K-5a		K-10a	K-13	K-14	K-16	K-18	K-23
	3/24/2021	3/25/2021	3/29/2021	3/24/2021						
Sample Date	3/24/2021	3/25/2021	3/29/2021	3/24/2021	3/25/2021	3/25/2021	3/25/2021	3/24/2021	3/24/2021	3/25/2021
Temperature (C)	22.8	20.1	16.4	23.7	20.5	24.4	22.4	22.4	23.4	21.8
pH	6.74	7.48	7.48	7.71	7.22	6.76	6.75	6.88	6.88	6.3
Total Dissolved Solids (mg/L)	3530	8430	6650	1030	689	852	412	1640	1640	344
Total Alkalinity (as CaCO3)	169	1040	917	281	282	264	234	254	254	149
Bicarbonate (as CaCO3)	169	1040	917	281	282	264	234	254	254	149
Carbonate (as CaCO3)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Hydroxide (as CaCO3)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Calcium	766	209	201	51.5	133	177	54.3	290	290	64.1
Chloride	1930	70.5	83.3	210	81.1	114	19.5	529	529	14.4
Magnesium	117	67.4	33.8	22.6	17.3	20.9	8.59	29	29	9.39
Potassium	6.21	28.5	19.4	6.62	4.24	4.11	2.35	5.92	5.92	3.48
Sodium	361	613	512	271	71.7	77.3	55.5	244	244	28.7
Dissolved Iron	1.01	3.27	3	0.218	0.797	5.4	0.266	0.107	0.107	0.147
Dissolved Manganese	0.276	5.47	3.67	0.0954	0.482	0.465	0.0694	0.0763	0.0763	0.0766
Nitrate as Nitrogen	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.19	0.19	2.61
Sulfate	378	193	243	290	154	257	59.8	365	365	74.7

WORKSHEET 6.0

Water Conservation/Drought Contingency Plans

N/A

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 512-239-4600, 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.
 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 ☐
- 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. ____Municipal Uses by public water suppliers. See 30 TAC § 288.20.

2. ____Irrigation Use/ Irrigation water suppliers. See 30 TAC § 288.21.

3. ____Wholesale Water Suppliers. See 30 TAC § 288.22.

- 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 N/A

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 512-239-4600 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

	Description	Amount (\$)
Filing Fee	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 (\$) . <u>In Acre-Feet</u> a. Less than 100 \$100.00 b. 100 - 5,000 \$250.00 c. 5,001 - 10,000 \$500.00 d. 10,001 - 250,000 \$1,000.00 e. More than 250,000 \$2,000.00	
Recording Fee		\$25.00
Agriculture Use Fee	<i>Only for those with an Irrigation Use.</i> Multiply 50¢ x <u>0</u> Number of acres that will be irrigated with State Water. **	
Use Fee	<i>Required for all Use Types, excluding Irrigation Use.</i> Multiply \$1.00 x <u>0</u> Maximum annual diversion of State Water in acre-feet. **	
Recreational Storage Fee	<i>Only for those with Recreational Storage.</i> Multiply \$1.00 x <u>974</u> acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	\$974.00
Storage Fee	<i>Only for those with Storage, excluding Recreational Storage.</i> Multiply 50¢ x <u>0</u> acre-feet of State Water to be stored at normal max operating level.	
Mailed Notice	Cost of mailed notice to all water rights in the basin. Contact Staff to determine the amount (512) 239-4600.	\$344.98
TCEQ has been paid the fee and will credit the same amount from the previous application (WRPERM 13818) which was withdrawn on January 7, 2022.		TOTAL \$1593.98

2. AMENDMENT OR SEVER AND COMBINE

	Description	Amount (\$)
Filing Fee	Amendment: \$100	
	OR Sever and Combine: \$100 x ___ of water rights to combine	
Recording Fee		\$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
TOTAL INCLUDED		\$ N/A

3. BED AND BANKS

	Description	Amount (\$)
Filing Fee		\$100.00
Recording Fee		\$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
TOTAL INCLUDED		\$ N/A



29-OCT-21 08:56 AM

TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

Fee Code
Account#
Account Name

WTR USE PERMITS
WUP
WUP
WATER USE PERMITS

WUP
WUP
WATER USE PERMITS

<u>Ref#1</u>	<u>Check Number</u>	<u>CC Type</u>	<u>Card Auth.</u>	<u>Tran Code</u>	<u>Slip Key</u>	<u>Tran Date</u>	<u>Tran Amount</u>
<u>Ref#2</u>	<u>User Data</u>	<u>Rec Code</u>	<u>Document#</u>				
M202346	1084		BS00089677		29-OCT-21		
	102821	N	D2800451				-\$1,593.98
YACKTMAN,	RHDAVIS	CK					
ELLYN							
M202347	1898		BS00089677		29-OCT-21		
13777	102821	N	D2800451				-\$1,133.27
MCCARTHY &	RHDAVIS	CK					
MCCARTHY							
LLP							

Total (Fee Code):

-\$2,727.25

Grand Total:

-\$3,727.25

RECEIVED

NOV 01 2021

Water Availability Division