

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF AN APPLICATION FOR A WATER USE PERMIT

APPLICATION NO. 13823

Independence Water, L.P. and HW 2421 Land L.P. (Applicants/Permittees) seek authorization to maintain a dam and 21.9-acre-foot reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin for recreational purposes. Applicants also seek to use the bed and banks of the reservoir to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion for agricultural purposes to irrigate 15 acres out of 951.788 acres of land in Tarrant and Denton counties. More information on the application and how to participate in the permitting process is given below.

APPLICATION. Independence Water, L.P. and HW 2421 Land, L.P., 9800 Hillwood Pkwy, #300, Fort Worth, TX 76177, Applicants, have applied to the Texas Commission on Environmental Quality (TCEQ) for a Water Use Permit pursuant to Texas Water Code (TWC) §§ 11.143 and 11.042 and TCEQ Rules Title 30 Texas Administrative Code (TAC) § 295.1, *et seq.* Published and mailed notice to downstream water right holders of record in the Trinity River Basin is required pursuant to Title 30 TAC §§ 295.152(b), 295.153(c)(1) and 295.161(a). Mailed notice to the Northern Trinity Groundwater Conservation District is required pursuant to Title 30 TAC § 295.153(c)(2) and mailed notice to the Texas Parks and Wildlife Department and the Public Interest Counsel is required pursuant to Title 30 TAC § 295.161(c).

Independence Water, L.P. and HW 2421 Land, L.P. (Applicants/Permittees) seek authorization to maintain a dam and reservoir located on an unnamed tributary of Marshall Branch, tributary of Denton Creek, tributary of Elm Fork Trinity River, Trinity River Basin and impound therein not to exceed 21.9 acre-feet of water for recreational purposes in Tarrant County in ZIP Code 76262.

A point on the centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County in ZIP Code 76262.

Applicants further seek authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out of a 951.788-acre tract in Tarrant and Denton counties.

Ownership of the land to be inundated and irrigated is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the Official Public Records of Tarrant County.

Applicants propose to discharge groundwater anywhere along the perimeter of the reservoir, identified by a point located at Latitude 32.989001° N, Longitude 97.204934° W, at a maximum discharge rate of 0.109 cfs (48.97 gpm) in ZIP Code 76262.

Applicants further seek to divert groundwater from a point on reservoir located at Latitude 32.988518° N, Longitude 97.203775° W, at a maximum diversion rate of 0.445 cfs (200 gpm) in ZIP Code 76262.

Applicants submitted, and the Executive Director has approved, *Dove Pond (Golf Course Pond) Water Accounting Record*.

The application was received on December 6, 2021, and fees were received on January 31, 2022. Additional information was received on January 24, February 16, and December 12, 2022 and April 13, April 17, and May 9, 2023. The application was declared administratively complete and accepted for filing with the Office of the Chief Clerk on March 17, 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-pend-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 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 Order 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 13823 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: January 14, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



WATER USE PERMIT

PERMIT NO. 13823 TYPE §§ 11.143, 11.042

Permittees: Independence Water, L.P. Address: 9800 Hillwood Pkwy, #300
and HW 2421 Land, L.P. Fort Worth, TX 76177

Filed: March 17, 2022 Granted:

Purposes: Recreation, Agriculture Counties: Denton and Tarrant

Watercourse: Unnamed tributary of Marshall Branch, Tributary of Denton Creek,
Tributary of Elm Fork Trinity River Watershed: Trinity River Basin

WHEREAS, Independence Water, L.P. and HW 2421 Land, L.P. (Applicants/Permittees) seek authorization to maintain a dam and reservoir located on an unnamed tributary of Marshall Branch, tributary of Denton Creek, tributary of Elm Fork Trinity River, Trinity River Basin and impound therein not to exceed 21.9 acre-feet of water for recreational purposes in Tarrant County; and

WHEREAS, a point on the centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County; and

WHEREAS, Applicants further seek authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out of a 951.788-acre tract in Tarrant and Denton counties; and

WHEREAS, ownership of the land to be inundated and irrigated is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the Official Public Records of Tarrant County; and

WHEREAS, Applicants propose to discharge groundwater anywhere along the perimeter of the reservoir, identified by a point located at Latitude 32.989001° N, Longitude 97.204934° W, at a maximum discharge rate of 0.109 cfs (48.97 gpm); and

WHEREAS, Applicants further seek to divert groundwater from a point on the reservoir located at Latitude 32.988518° N, Longitude 97.203775° W, at a maximum diversion rate of 0.445 cfs (200 gpm); and

WHEREAS, Applicants submitted, and the Executive Director has approved, *Dove Pond (Golf Course Pond) Water Accounting Record*; and

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

NOW, THEREFORE, this permit, designated Water Use Permit No. 13823, is issued to Independence Water, L.P. and HW 2421 Land, L.P., subject to the following terms and conditions:

1. IMPOUNDMENT

- A. Permittees are authorized to maintain a dam and reservoir on an unnamed tributary of Marshall Branch, impounding up to 21.9 acre-feet of water for recreational purposes in Tarrant County.
- B. The centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County.
- C. Ownership of the land to be inundated, owned by HW 2421 Land, L.P., is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the Official Public Records of Tarrant County.

2. USE

- A. Permittees are authorized to maintain the reservoir described in PARAGRAPH 1. IMPOUNDMENT for recreational purposes in Tarrant County.
- B. Permittees are authorized to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out a 951.788-acre tract in Tarrant and Denton counties.
- C. Ownership of the land to be irrigated, owned by HW 2421 Land, L.P., is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the Official Public Records of Tarrant County.
- D. Written consent was provided by HW 2421 Land, L.P. for Independence Water, L.P. to irrigate the land in Tarrant County.

3. DISCHARGE

- A. Permittees will discharge groundwater anywhere along the perimeter of the reservoir identified by a point located at Latitude 32.989001° N, Longitude 97.204934° W.
- B. At a maximum discharge rate of 0.109 cfs (48.97 gpm).

4. DIVERSION

- A. Permittees are authorized to divert groundwater from a point on the reservoir, located at Latitude 32.988518° N, Longitude 97.203775° W.
- B. At a maximum diversion rate of 0.4456 cfs (200 gpm).

4. TIME PRIORITY

- A. The time priority to maintain the impoundment is March 17, 2022.
- B. The groundwater authorized to be conveyed in the bed and banks of a State watercourse in this permit does not have a priority date and is not subject to priority calls from senior water rights.

5. SPECIAL CONDITIONS

- A. Permittees shall implement reasonable measures in order to reduce impacts to aquatic resources due to entrainment or impingement. Such measures shall include, but shall not be limited to, the installation of screens on any diversion structure(s).
- B. Permittees are not authorized to divert state water and shall only divert groundwater that has been discharged into the reservoir. Permittees shall maintain the reservoir full at the uncontrolled spillway with an alternate source so that all inflows pass downstream. Permittees 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.
- C. Permittees shall maintain and operate an alternate source of water with sufficient production to ensure that no state water is used. Permittees will utilize groundwater from the Paluxy aquifer as the alternate source of water for this permit. In the event groundwater from the Paluxy aquifer will no longer be used as the alternate source of water for this permit, Permittees shall immediately cease impoundment in the reservoir and diversion of groundwater and either apply to amend the permit with a new alternate source, or voluntarily forfeit the permit.
- D. Permittees shall only impound and divert water authorized by this permit in accordance with the most recently approved *Dove Pond (Golf Course Pond) Water Accounting Record*. Permittees shall maintain said accounting plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Dove Pond (Golf Course Pond) Water Accounting Record* shall be approved by the Executive Director. Any modification that changes the permit terms must be in the form of an amendment to the permit. Should Permittees fail to maintain the accounting plan or notify the Executive Director of any modifications to the plan, Permittees shall immediately cease impoundment and diversion authorized in Paragraph 1. IMPOUNDMENT and Paragraph 2. USE, and either apply to amend the permit, or voluntarily forfeit the permit. Permittees shall immediately notify the Executive Director upon modification of the accounting plan and provide copies of the appropriate documents effectuating such changes.
- E. Prior to diversion of the groundwater authorized herein, if sufficiently accurate measuring devices are not available, Permittees shall install and maintain measuring device(s), at the discharge point of the groundwater and at any authorized diversion point, capable of measuring within plus or minus 5% accuracy.

- F. Permittees shall allow representatives of the Texas Commission on Environmental Quality reasonable access to the property to inspect the measuring device and records.

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

Permittees agree 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 water use 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.

For the Commission

DATE ISSUED:

Re: Independence_Water_LP_HW_2421_Land_LP_13823_Notice_Package_01.09.2025

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

Date Fri 1/10/2025 10:16 AM

To Lindi Weber <[REDACTED]>

Thank you Lindi.

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

From: Lindi Weber <[REDACTED]>

Sent: Friday, January 10, 2025 9:55 AM

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

Cc: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Subject: RE: Independence_Water_LP_HW_2421_Land_LP_13823_Notice_Package_01.09.2025

Lillian,

Sorry, I was on another call when you tried me this morning. We don't have an issue with the change.

Thanks,
Lindi

Lindi Weber

Assistant Service Lead, Environmental

main (817) 562-3350

cell (214) 458-5757

Westwood

9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

westwoodps.com

(888) 937-5150

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

Sent: Thursday, January 9, 2025 7:36 PM

To: Lindi Weber <[REDACTED]>

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

Subject: Independence_Water_LP_HW_2421_Land_LP_13823_Notice_Package_01.09.2025

CAUTION: External Sender. Please do not click on links or open attachments from senders you do not trust.

Ms. Lindi Weber,
Please review pages 7 and 8 of the attached permit/notice package for Independence Water L.P. and HW 2421 Land L.P.'s Application No. 13823.

An error was found in the Notice document. The paragraphs for Public Comment/Public Meeting and for Contested Case Hearings found on pages 7 and 8 have been revised. The notice document now conforms with the standard schedule for *published* notice. No other changes have been made. The document awaits your confirmation.

If you have any questions, please do not hesitate to give me a call.
Thank You,

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

John Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 17, 2024

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code §§ 11.143, 11.042, Requiring Published and
Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

Drafts, subject to revision, of the public notice, proposed Water Use Permit No. 13823, 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 December 31, 2024, 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. 13823 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. 13823 TYPE §§ 11.143, 11.042

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Tributary of Elm Fork Trinity River Watershed: Trinity River Basin

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WHEREAS, a point on the centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County; and

WHEREAS, Applicants further seek authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out of a 951.788-acre tract in Tarrant and Denton counties; and

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

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For the Commission

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PUBLIC COMMENT / PUBLIC MEETING. Written public comments and requests for a public meeting should be submitted to the Office of 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 Order 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 13823 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:

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian E. Beerman, Ph.D., Project Manager **Date:** December 15, 2022
Water Rights Permitting Team

Through: Leslie Patterson, Team Leader 
Resource Protection Team

From: Kristin Wang, Senior Water Conservation Specialist
Resource Protection Team

Subject: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant and Denton counties

APPLICATION SUMMARY

Independence Water, L.P. and HW 2421 Land, L.P. (Applicants) request authorization to maintain a reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin, impounding 21.9 acre-feet of water, for recreational purposes in Tarrant County. Applicants request authorization to maintain the reservoir with groundwater from the Paluxy aquifer.

Applicants also request authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes in Tarrant and Denton counties. The discharged groundwater will be diverted from the reservoir at a maximum diversion rate of 0.4456 cfs (200 gpm).

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 C Water Plan and the 2022 State Water Plan because there is nothing in the water plans that conflicts with issuing this proposed permit.

RECOMMENDATIONS

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




Kristin Wang, Senior Water Conservation Specialist

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager
Water Rights Permitting Team

Date: December 15, 2022

Through: Leslie Patterson, Team Leader 
Resource Protection Team

From: Kenneth Coonrod, Aquatic Scientist
Resource Protection Team

Subject: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant 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

Independence Water, L.P. and HW Land 2421, L.P. (Applicants) request authorization to maintain a reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin, impounding 21.9 acre-feet of water, for recreational purposes in Tarrant County. Applicants request authorization to maintain the reservoir with groundwater from the Paluxy aquifer.

Applicants also request authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year for subsequent diversion use of up to 23.1 acre-feet per year for agricultural purposes in Tarrant and Denton counties. The discharged groundwater will be diverted from the reservoir at a maximum diversion rate of 0.4456cfs (200 gpm).

ENVIRONMENTAL ANALYSIS

Aquatic and Riparian Habitats: The Applicants' proposed project is located on an unnamed tributary of Marshall Branch, an intermittent stream with perennial pools, and is situated in the Eastern Cross Timbers ecoregion (Griffith et al. 2004).

The checklist for the Trinity River Basin identified 29 species of ichthyofauna occurring within the Denton hydrologic unit (United States Geologic Survey code 12030104) (Hendrickson and Cohen 2015). The alligator snapping turtle

(*Macrochelys temminckii*), the sandbank pocketbook (*Lampsilis satura*), and the Texas heelsplitter (*Potamilus amphichaenus*), high-interest aquatic species, are known to occur in Tarrant County (TPWD 2015). 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 Applicants.

The Applicants have agreed to install screens on any new diversion structure(s) in order to minimize entrainment and impingement of aquatic organisms.

On April 20, 2011, the TCEQ adopted environmental flow standards for the Trinity and San Jacinto Rivers, and Galveston Bay (Title 30 Texas Administrative Code (TAC) Chapter 298 Subchapter B). These environmental flow standards are considered adequate to support a sound ecological environment (Title 30 TAC § 298.10). The Applicants do 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 Applicants propose to use groundwater as an alternate source of water. The Applicants' request is not expected to adversely impact aquatic and riparian habitats in the area.

Recreational Uses: The unnamed tributary of Marshall Branch has a presumed primary contact recreation 1 use (TCEQ 2018). The Applicants' request should not adversely impact recreational uses.

Water Quality: The unnamed tributary of Marshall Branch has a presumed limited aquatic life use (TCEQ 2018). The Applicants' request should not adversely impact water quality.

The Applicant indicates that the reservoir will be maintained with groundwater from four wells in the Paluxy aquifer. Resource Protection staff have reviewed the Applicants' 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 proposed project is located more than 200 river miles from the Gulf of Mexico. The application does not request a new appropriation of water; therefore, the Applicants' request should not have any impact to Galveston Bay.

RECOMMENDATIONS

Resource Protection staff recommend the following Special Conditions be included in the proposed permit, if granted:

1. Permittee shall implement reasonable measures in order to reduce impacts to aquatic resources due to entrainment or impingement. Such measures shall include, but shall not be limited to, the installation of screens at the diversion structure.

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 2022 Apr 6]; Version 2.0. Available from <http://doi.org/10.17603/C3WC70>.

TCEQ. 2018. Texas Surface Water Quality Standards §§307.1-307.10. Austin (TX): Texas Commission on Environmental Quality.

TPWD. 2015. TPWD County Lists of Texas Protected Species and Species of Greatest Conservation Need [Internet]. Austin (TX): Tarrant County, revised December 30, 2016. [cited 2022 Apr 6]. 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: August 24, 2022

Thru:

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

Subject: 7_Independence Water, LP, and HW 2421, LP, Application for a permit to maintain an existing dam and reservoir, unnamed tributaries of Marshall Branch, Trinity River Basin, Tarrant County

7_Independence Water, LP, and HW 2421, LP, (Applicant) seek authorization to maintain an existing dam and reservoir impounding a capacity of 21.9 acre-feet of water for recreational purposes in Tarrant County.

The dam, Dove Lake Dam, was last inspected on October 19, 2017. It was found to be in fair condition at that time. It was also found to be classified as a low hazard dam.

Therefore, there are no further dam safety requirements that need to be met.

Warren D. Samuelson

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

RECEIVED

AUG 30 2022

Water Availability Division

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager Date: January 3, 2024
Water Rights Permitting Team

Through: ~~K~~ / ~~A~~ Kathy Alexander, Ph.D., Policy and Technical Analyst
Water Availability Division

TG Trent Gay, Team Leader
Surface Water Availability Team

From: Andrew Garcia, Hydrologist
Surface Water Availability Team

Subject: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

HYDROLOGY REVIEW

Application Summary

Independence Water, L.P. and HW Land 2421, L.P. (Applicants) request authorization to maintain a reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin, impounding 21.9 acre-feet of water, for recreational purposes in Tarrant County. Applicants request authorization to maintain the reservoir with groundwater from the Paluxy aquifer.

Applicants also request authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes in Tarrant and Denton counties. The discharged groundwater will be diverted from the reservoir at a maximum diversion rate of 0.4456 cfs (200 gpm).

The Applicants submitted an accounting plan (*Dove Pond (Golf Course Pond) Water Accounting Record*) on January 24, 2022. The accounting plan was subsequently revised, and a final version was submitted on April 17, 2023.

The application was declared administratively complete on March 17, 2022.

Hydrology Review

Resource Protection staff did not recommend instream flow requirements for this application; however, they did recommend a special condition. See the Resource Protection memo dated December 15, 2022.

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.

Regarding the request to use the bed and banks of the unnamed tributary of Marshall Branch to convey groundwater to the reservoir, the application included the information required in 30 Texas Administrative Code (TAC) §295.113.

The application was evaluated to determine if the alternate source is adequate to compensate for evaporative losses from the reservoir and support the requested diversion. Based on evaporation data from the TCEQ Water Availability Model (WAM) for the Trinity River Basin, Quadrangle 510, staff determined the annual maximum evaporation from the reservoir to be 22.4 acre-feet per year with an estimated monthly maximum of 5.36 acre-feet. Staff determined that the alternate source (57.1 acre-feet of groundwater) is adequate to compensate for the annual maximum evaporative losses from the reservoir (22.4 acre-feet) and the diversion of 23.1 acre-feet of groundwater.

The Applicant submitted an accounting plan (*Dove Pond (Golf Course Pond) Water Accounting Record*). The accounting plan tracks groundwater discharges into the reservoir as well as diversions and evaporation losses. Staff reviewed the accounting plan and found it to be acceptable. Staff believes that maintenance of the approved accounting plan will ensure that no state water is used and no impacts to water rights in the basin will occur.

Conclusion

Hydrology staff can support granting the application as requested provided that the permit granted includes the following special conditions:

1. Permittee is not authorized to divert state water and shall only divert groundwater that has been discharged into the reservoir. Permittee shall maintain the reservoir full at the uncontrolled spillway with an alternate source so that all inflows pass downstream. 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 shall maintain and operate an alternate source of water with sufficient production to ensure that no state water is used. Permittee will utilize groundwater from the Paluxy aquifer as the alternate source of

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

3. Permittee shall only impound and divert water authorized by this permit in accordance with the most recently approved *Dove Pond (Golf Course Pond) Water Accounting Record*. Permittee shall maintain said accounting plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Dove Pond (Golf Course Pond) Water Accounting Record* shall be approved by the Executive Director. Any modification 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 and diversion authorized in Paragraph 1. IMPOUNDMENT and Paragraph 2. USE, and either apply to amend the permit, or voluntarily forfeit the permit. Permittee shall immediately notify the Executive Director upon modification of the accounting plan and provide copies of the appropriate documents effectuating such changes.
4. Prior to diversion of the groundwater authorized herein, if sufficiently accurate measuring devices are not available, Permittee shall install and maintain measuring device(s), at the discharge point of the water and at any authorized diversion point, capable of measuring within plus or minus 5% accuracy.



Andrew Garcia, Hydrologist



Outlook

RE: Independence_Water_LP_HW_2421_Land_LP_13823_Draft_Permit_Notice_12.17.2024

From Lindi Weber <[REDACTED]>
Date Mon 12/30/2024 9:08 AM
To Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Cc Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Humberto Galvan <Humberto.Galvan@tceq.texas.gov>; Chris Hamilton <[REDACTED]>

Lillian,

We do not have any comments on the draft notice. Please let me know if you need anything else from me.

Thanks,
Lindi

Lindi Weber

Assistant Service Lead, Environmental

main (817) 562-3350

cell (214) 458-5757

Westwood

9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

westwoodps.com

(888) 937-5150

Independence_Water_LP_HW_2421_Land_LP_13823_Draft_Permit_Notice_12.17.2024

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

Date Tue 12/17/2024 12:21 PM

To Lindi Weber <[REDACTED]>; Lindi Weber <[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 (716 KB)

Independence_Water_LP_HW_2421_Land_LP_13823_Draft_Permit_Pkg_12.17.2024.pdf;

Ms. Weber:

The Draft Permit/Notice for Independence Water LP and HW 2421 Land LP's Application No. 13828 for a Water Use Permit is ready for review. The draft permit package is attached. Comments are due COB Tuesday, December 31, 2024.

If you have ANY questions or concerns, please do not hesitate to contact me. I will be available throughout the holidays.

Thank You,

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

**** Please indicate your correct or preferred email address.**

John Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 17, 2024

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code §§ 11.143, 11.042, Requiring Published and
Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

Drafts, subject to revision, of the public notice, proposed Water Use Permit No. 13823, 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 December 31, 2024, 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. 13823 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. 13823 TYPE §§ 11.143, 11.042

Permittees: Independence Water, L.P. Address: 9800 Hillwood Pkwy, #300
and HW 2421 Land, L.P. Fort Worth, TX 76177

Filed: March 17, 2022 Granted:

Purposes: Recreation, Agriculture Counties: Denton and Tarrant

Watercourse: Unnamed tributary of Marshall Branch, Tributary of Denton Creek,
Tributary of Elm Fork Trinity River Watershed: Trinity River Basin

WHEREAS, Independence Water, L.P. and HW 2421 Land, L.P. (Applicants/Permittees) seek authorization to maintain a dam and reservoir located on an unnamed tributary of Marshall Branch, tributary of Denton Creek, tributary of Elm Fork Trinity River, Trinity River Basin and impound therein not to exceed 21.9 acre-feet of water for recreational purposes in Tarrant County; and

WHEREAS, a point on the centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County; and

WHEREAS, Applicants further seek authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out of a 951.788-acre tract in Tarrant and Denton counties; and

WHEREAS, ownership of the land to be inundated and irrigated is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the Official Public Records of Tarrant County; and

WHEREAS, Applicants propose to discharge groundwater anywhere along the perimeter of the reservoir, identified by a point located at Latitude 32.989001° N, Longitude 97.204934° W, at a maximum discharge rate of 0.109 cfs (48.97 gpm); and

WHEREAS, Applicants further seek to divert groundwater from a point on the reservoir located at Latitude 32.988518° N, Longitude 97.203775° W, at a maximum diversion rate of 0.445 cfs (200 gpm); and

WHEREAS, Applicants submitted, and the Executive Director has approved, *Dove Pond (Golf Course Pond) Water Accounting Record*; and

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

NOW, THEREFORE, this permit, designated Water Use Permit No. 13823, is issued to Independence Water, L.P. and HW 2421 Land, L.P., subject to the following terms and conditions:

1. IMPOUNDMENT

- A. Permittees are authorized to maintain a dam and reservoir on an unnamed tributary of Marshall Branch, impounding up to 21.9 acre-feet of water for recreational purposes in Tarrant County.
- B. The centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County.
- C. Ownership of the land to be inundated, owned by HW 2421 Land, L.P., is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the official public records of Tarrant County.

2. USE

- A. Permittees are authorized to maintain the reservoir described in PARAGRAPH 1. IMPOUNDMENT for recreational purposes in Tarrant County.
- B. Permittees are authorized to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out a 951.788-acre tract in Tarrant and Denton counties.
- C. Ownership of the land to be irrigated, owned by HW 2421 Land, L.P., is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the official public records of Tarrant County.
- D. Written consent was provided by HW 2421 Land, L.P. for Independence Water, L.P. to irrigate the land in Tarrant County.

3. DISCHARGE

- A. Permittees will discharge groundwater anywhere along the perimeter of the reservoir identified by a point located at Latitude 32.989001° N, Longitude 97.204934° W.
- B. At a maximum discharge rate of 0.109 cfs (48.97 gpm).

4. DIVERSION

- A. Permittees are authorized to divert groundwater from a point on the reservoir, located at Latitude 32.988518° N, Longitude 97.203775° W.
- B. At a maximum diversion rate of 0.4456 cfs (200 gpm).

4. TIME PRIORITY

- A. The time priority to maintain the impoundment is March 17, 2022.
- B. The groundwater authorized to be conveyed in the bed and banks of a State watercourse in this permit does not have a priority date and is not subject to priority calls from senior water rights.

5. SPECIAL CONDITIONS

- A. Permittees shall implement reasonable measures in order to reduce impacts to aquatic resources due to entrainment or impingement. Such measures shall include, but shall not be limited to, the installation of screens on any diversion structure(s).
- B. Permittees are not authorized to divert state water and shall only divert groundwater that has been discharged into the reservoir. Permittees shall maintain the reservoir full at the uncontrolled spillway with an alternate source so that all inflows pass downstream. Permittees 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.
- C. Permittees shall maintain and operate an alternate source of water with sufficient production to ensure that no state water is used. Permittees will utilize groundwater from the Paluxy aquifer as the alternate source of water for this permit. In the event groundwater from the Paluxy aquifer will no longer be used as the alternate source of water for this permit, Permittees shall immediately cease impoundment in the reservoir and diversion of groundwater and either apply to amend the permit with a new alternate source, or voluntarily forfeit the permit.
- D. Permittees shall only impound and divert water authorized by this permit in accordance with the most recently approved *Dove Pond (Golf Course Pond) Water Accounting Record*. Permittees shall maintain said accounting plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Dove Pond (Golf Course Pond) Water Accounting Record* shall be approved by the Executive Director. Any modification that changes the permit terms must be in the form of an amendment to the permit. Should Permittees fail to maintain the accounting plan or notify the Executive Director of any modifications to the plan, Permittees shall immediately cease impoundment and diversion authorized in Paragraph 1. IMPOUNDMENT and Paragraph 2. USE, and either apply to amend the permit, or voluntarily forfeit the permit. Permittees shall immediately notify the Executive Director upon modification of the accounting plan and provide copies of the appropriate documents effectuating such changes.
- E. Prior to diversion of the groundwater authorized herein, if sufficiently accurate measuring devices are not available, Permittees shall install and maintain measuring device(s), at the discharge point of the groundwater and at any authorized diversion point, capable of measuring within plus or minus 5% accuracy.

- F. Permittees shall allow representatives of the Texas Commission on Environmental Quality reasonable access to the property to inspect the measuring device and records.

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

Permittees agree 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 water use 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.

For the Commission

DATE ISSUED:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF AN APPLICATION FOR A WATER USE PERMIT

APPLICATION NO. 13823

Independence Water, L.P. and HW 2421 Land L.P. (Applicants/Permittees) seek authorization to maintain a dam and 21.9-acre-foot reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin for recreational purposes. Applicants also seek to use the bed and banks of the reservoir to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion for agricultural purposes to irrigate 15 acres out of 951.788 acres of land in Tarrant and Denton counties. More information on the application and how to participate in the permitting process is given below.

APPLICATION. Independence Water, L.P. and HW 2421 Land, L.P., 9800 Hillwood Pkwy, #300, Fort Worth, TX 76177, Applicants, have applied to the Texas Commission on Environmental Quality (TCEQ) for a Water Use Permit pursuant to Texas Water Code (TWC) §§ 11.143 and 11.042 and TCEQ Rules Title 30 Texas Administrative Code (TAC) § 295.1, *et seq.* Published and mailed notice to downstream water right holders of record in the Trinity River Basin is required pursuant to Title 30 TAC §§ 295.152(b), 295.153(c)(1) and 295.161(a). Mailed notice to the Northern Trinity Groundwater Conservation District is required pursuant to Title 30 TAC § 295.153(c)(2) and mailed notice to the Texas Parks and Wildlife Department and the Public Interest Counsel is required pursuant to Title 30 TAC § 295.161(c).

Independence Water, L.P. and HW 2421 Land, L.P. (Applicants/Permittees) seek authorization to maintain a dam and reservoir located on an unnamed tributary of Marshall Branch, tributary of Denton Creek, tributary of Elm Fork Trinity River, Trinity River Basin and impound therein not to exceed 21.9 acre-feet of water for recreational purposes in Tarrant County in Zip Code 76262.

A point on the centerline of the dam is located at Latitude 32.989001° N, Longitude 97.204934° W in Tarrant County in Zip Code 76262.

Applicants further seek authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey up to 57.1 acre-feet of groundwater per year from the Paluxy aquifer to maintain the reservoir and for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes to irrigate 15 acres of land out of a 951.788-acre tract in Tarrant and Denton counties.

Ownership of the land to be inundated and irrigated is evidenced by a *Limited Warranty Deed*, recorded July 9, 2009, as Document No. 209181337 in the Official Public Records of Tarrant County.

Applicants propose to discharge groundwater anywhere along the perimeter of the reservoir, identified by a point located at Latitude 32.989001° N, Longitude 97.204934° W, at a maximum discharge rate of 0.109 cfs (48.97 gpm) in Zip Code 76262.

Applicants further seek to divert groundwater from a point on reservoir located at Latitude 32.988518° N, Longitude 97.203775° W, at a maximum diversion rate of 0.445 cfs (200 gpm) in Zip Code 76262.

Applicants submitted, and the Executive Director has approved, *Dove Pond (Golf Course Pond) Water Accounting Record*.

The application was received on December 6, 2021, and fees were received on January 31, 2022. Additional information was received on January 24, February 16, and December 12, 2022 and April 13, April 17, and May 9, 2023. The application was declared administratively complete and accepted for filing with the Office of the Chief Clerk on March 17, 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-pend-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 by 2024. 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 by 2024. The Executive Director can consider an approval of the application unless a written request for a contested case hearing is filed by 2024.

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 13823 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:

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian E. Beerman, Ph.D., Project Manager **Date:** December 15, 2022
Water Rights Permitting Team

Through: Leslie Patterson, Team Leader 
Resource Protection Team

From: Kristin Wang, Senior Water Conservation Specialist
Resource Protection Team

Subject: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant and Denton counties

APPLICATION SUMMARY

Independence Water, L.P. and HW 2421 Land, L.P. (Applicants) request authorization to maintain a reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin, impounding 21.9 acre-feet of water, for recreational purposes in Tarrant County. Applicants request authorization to maintain the reservoir with groundwater from the Paluxy aquifer.

Applicants also request authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes in Tarrant and Denton counties. The discharged groundwater will be diverted from the reservoir at a maximum diversion rate of 0.4456 cfs (200 gpm).

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 C Water Plan and the 2022 State Water Plan because there is nothing in the water plans that conflicts with issuing this proposed permit.

RECOMMENDATIONS

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




Kristin Wang, Senior Water Conservation Specialist

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager
Water Rights Permitting Team

Date: December 15, 2022

Through: Leslie Patterson, Team Leader 
Resource Protection Team

From: Kenneth Coonrod, Aquatic Scientist
Resource Protection Team

Subject: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant 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

Independence Water, L.P. and HW Land 2421, L.P. (Applicants) request authorization to maintain a reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin, impounding 21.9 acre-feet of water, for recreational purposes in Tarrant County. Applicants request authorization to maintain the reservoir with groundwater from the Paluxy aquifer.

Applicants also request authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year for subsequent diversion use of up to 23.1 acre-feet per year for agricultural purposes in Tarrant and Denton counties. The discharged groundwater will be diverted from the reservoir at a maximum diversion rate of 0.4456cfs (200 gpm).

ENVIRONMENTAL ANALYSIS

Aquatic and Riparian Habitats: The Applicants' proposed project is located on an unnamed tributary of Marshall Branch, an intermittent stream with perennial pools, and is situated in the Eastern Cross Timbers ecoregion (Griffith et al. 2004).

The checklist for the Trinity River Basin identified 29 species of ichthyofauna occurring within the Denton hydrologic unit (United States Geologic Survey code 12030104) (Hendrickson and Cohen 2015). The alligator snapping turtle

(*Macrochelys temminckii*), the sandbank pocketbook (*Lampsilis satura*), and the Texas heelsplitter (*Potamilus amphichaenus*), high-interest aquatic species, are known to occur in Tarrant County (TPWD 2015). 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 Applicants.

The Applicants have agreed to install screens on any new diversion structure(s) in order to minimize entrainment and impingement of aquatic organisms.

On April 20, 2011, the TCEQ adopted environmental flow standards for the Trinity and San Jacinto Rivers, and Galveston Bay (Title 30 Texas Administrative Code (TAC) Chapter 298 Subchapter B). These environmental flow standards are considered adequate to support a sound ecological environment (Title 30 TAC § 298.10). The Applicants do 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 Applicants propose to use groundwater as an alternate source of water. The Applicants' request is not expected to adversely impact aquatic and riparian habitats in the area.

Recreational Uses: The unnamed tributary of Marshall Branch has a presumed primary contact recreation 1 use (TCEQ 2018). The Applicants' request should not adversely impact recreational uses.

Water Quality: The unnamed tributary of Marshall Branch has a presumed limited aquatic life use (TCEQ 2018). The Applicants' request should not adversely impact water quality.

The Applicant indicates that the reservoir will be maintained with groundwater from four wells in the Paluxy aquifer. Resource Protection staff have reviewed the Applicants' 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 proposed project is located more than 200 river miles from the Gulf of Mexico. The application does not request a new appropriation of water; therefore, the Applicants' request should not have any impact to Galveston Bay.

RECOMMENDATIONS

Resource Protection staff recommend the following Special Conditions be included in the proposed permit, if granted:

1. Permittee shall implement reasonable measures in order to reduce impacts to aquatic resources due to entrainment or impingement. Such measures shall include, but shall not be limited to, the installation of screens at the diversion structure.

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 2022 Apr 6]; Version 2.0. Available from <http://doi.org/10.17603/C3WC70>.

TCEQ. 2018. Texas Surface Water Quality Standards §§307.1-307.10. Austin (TX): Texas Commission on Environmental Quality.

TPWD. 2015. TPWD County Lists of Texas Protected Species and Species of Greatest Conservation Need [Internet]. Austin (TX): Tarrant County, revised December 30, 2016. [cited 2022 Apr 6]. 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: August 24, 2022

Thru:

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

Subject: 7_Independence Water, LP, and HW 2421, LP, Application for a permit to maintain an existing dam and reservoir, unnamed tributaries of Marshall Branch, Trinity River Basin, Tarrant County

7_Independence Water, LP, and HW 2421, LP, (Applicant) seek authorization to maintain an existing dam and reservoir impounding a capacity of 21.9 acre-feet of water for recreational purposes in Tarrant County.

The dam, Dove Lake Dam, was last inspected on October 19, 2017. It was found to be in fair condition at that time. It was also found to be classified as a low hazard dam.

Therefore, there are no further dam safety requirements that need to be met.

Warren D. Samuelson

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

RECEIVED

AUG 30 2022

Water Availability Division

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Lillian Beerman, Project Manager Date: January 3, 2024
Water Rights Permitting Team

Through: ~~K~~ / ~~A~~ Kathy Alexander, Ph.D., Policy and Technical Analyst
Water Availability Division

TG Trent Gay, Team Leader
Surface Water Availability Team

From: Andrew Garcia, Hydrologist
Surface Water Availability Team

Subject: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

HYDROLOGY REVIEW

Application Summary

Independence Water, L.P. and HW Land 2421, L.P. (Applicants) request authorization to maintain a reservoir on an unnamed tributary of Marshall Branch, Trinity River Basin, impounding 21.9 acre-feet of water, for recreational purposes in Tarrant County. Applicants request authorization to maintain the reservoir with groundwater from the Paluxy aquifer.

Applicants also request authorization to use the bed and banks of the unnamed tributary of Marshall Branch to convey 57.1 acre-feet of groundwater per year for subsequent diversion and use of up to 23.1 acre-feet per year for agricultural purposes in Tarrant and Denton counties. The discharged groundwater will be diverted from the reservoir at a maximum diversion rate of 0.4456 cfs (200 gpm).

The Applicants submitted an accounting plan (*Dove Pond (Golf Course Pond) Water Accounting Record*) on January 24, 2022. The accounting plan was subsequently revised, and a final version was submitted on April 17, 2023.

The application was declared administratively complete on March 17, 2022.

Hydrology Review

Resource Protection staff did not recommend instream flow requirements for this application; however, they did recommend a special condition. See the Resource Protection memo dated December 15, 2022.

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.

Regarding the request to use the bed and banks of the unnamed tributary of Marshall Branch to convey groundwater to the reservoir, the application included the information required in 30 Texas Administrative Code (TAC) §295.113.

The application was evaluated to determine if the alternate source is adequate to compensate for evaporative losses from the reservoir and support the requested diversion. Based on evaporation data from the TCEQ Water Availability Model (WAM) for the Trinity River Basin, Quadrangle 510, staff determined the annual maximum evaporation from the reservoir to be 22.4 acre-feet per year with an estimated monthly maximum of 5.36 acre-feet. Staff determined that the alternate source (57.1 acre-feet of groundwater) is adequate to compensate for the annual maximum evaporative losses from the reservoir (22.4 acre-feet) and the diversion of 23.1 acre-feet of groundwater.

The Applicant submitted an accounting plan (*Dove Pond (Golf Course Pond) Water Accounting Record*). The accounting plan tracks groundwater discharges into the reservoir as well as diversions and evaporation losses. Staff reviewed the accounting plan and found it to be acceptable. Staff believes that maintenance of the approved accounting plan will ensure that no state water is used and no impacts to water rights in the basin will occur.

Conclusion

Hydrology staff can support granting the application as requested provided that the permit granted includes the following special conditions:

1. Permittee is not authorized to divert state water and shall only divert groundwater that has been discharged into the reservoir. Permittee shall maintain the reservoir full at the uncontrolled spillway with an alternate source so that all inflows pass downstream. 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 shall maintain and operate an alternate source of water with sufficient production to ensure that no state water is used. Permittee will utilize groundwater from the Paluxy aquifer as the alternate source of

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

3. Permittee shall only impound and divert water authorized by this permit in accordance with the most recently approved *Dove Pond (Golf Course Pond) Water Accounting Record*. Permittee shall maintain said accounting plan in electronic format and make the data available to the Executive Director upon request. Any modifications to the *Dove Pond (Golf Course Pond) Water Accounting Record* shall be approved by the Executive Director. Any modification 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 and diversion authorized in Paragraph 1. IMPOUNDMENT and Paragraph 2. USE, and either apply to amend the permit, or voluntarily forfeit the permit. Permittee shall immediately notify the Executive Director upon modification of the accounting plan and provide copies of the appropriate documents effectuating such changes.
4. Prior to diversion of the groundwater authorized herein, if sufficiently accurate measuring devices are not available, Permittee shall install and maintain measuring device(s), at the discharge point of the water and at any authorized diversion point, capable of measuring within plus or minus 5% accuracy.



Andrew Garcia, Hydrologist

Re: Independence Water_13823_Status_Update

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

Fri 4/12/2024 1:33 PM

To: Lindi Weber [REDACTED]

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

Lindi,

The status of WRPERM No. 13823 for Independence Water L.P. and HW 2421 Land LP has not changed. The draft permit is still in review. When review is completed, I will forward the draft permit to you and your client for comment.

Thank you,

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

From: Lindi Weber [REDACTED]

Sent: Thursday, April 11, 2024 10:34 AM

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

Cc: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Subject: RE: Independence Water_13823_Status_Update

Lillian,

Wanted to check in and see if the draft water use had progressed any further through senior review.

Thanks,

Lindi

Lindi Weber

Assistant Service Lead, Environmental

[REDACTED]
main (817) 562-3350

cell (214) 458-5757

Westwood

9800 Hillwood Parkway, Suite 250

Fort Worth, TX 76177

westwoodps.com

(888) 937-5150

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

Sent: Friday, March 8, 2024 10:43 AM

To: Lindi Weber [REDACTED]

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

Subject: Independence Water_13823_Status_Update

CAUTION: External Sender. Please do not click on links or open attachments from senders you do not trust.

Lindi,

The draft water use permit no. 13823 for Independence Water L.P. and HW 2421 Land LP is currently in review. I will keep you posted.

Thank you for your inquiry.

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Lindi Weber <[REDACTED]>

Sent: Friday, March 8, 2024 10:33 AM

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

Subject: RE: Independence Water_13823_Status_Update

Lillian,

An update on the status of the review of the draft notice for this project?

Thanks,

Lindi

Lindi Weber

Assistant Service Lead, Environmental

[REDACTED]

main (817) 562-3350

cell (214) 458-5757

Westwood

9800 Hillwood Parkway, Suite 250

Fort Worth, TX 76177

westwoodps.com

(888) 937-5150

[REDACTED]

RE: Independence Water_13823_Status_Update

Lindi Weber <[REDACTED]>

Fri 3/8/2024 10:45 AM

To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>; Lindi Weber <[REDACTED]>

Cc: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Lillian/Chris,

Can you give an estimate on how much longer the review will take?

Thanks,
Lindi

Lindi Weber

Assistant Service Lead, Environmental

main (817) 562-3350

cell (214) 458-5757

Westwood

9800 Hillwod Parkway, Suite 250
Fort Worth, TX 76177

westwoodps.com

(888) 937-5150

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

Sent: Friday, March 8, 2024 10:43 AM

To: Lindi Weber <[REDACTED]>

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

Subject: Independence Water_13823_Status_Update

CAUTION: External Sender. Please do not click on links or open attachments from senders you do not trust.

Lindi,
The draft water use permit no. 13823 for Independence Water L.P. and HW 2421 Land LP is currently in review. I will keep you posted.
Thank you for your inquiry.

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Lindi Weber [REDACTED]
Sent: Friday, March 8, 2024 10:33 AM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: RE: Independence Water_13823_Status_Update

Lillian,

An update on the status of the review of the draft notice for this project?

Thanks,
Lindi

Lindi Weber

Assistant Service Lead, Environmental

[REDACTED]
main (817) 562-3350
cell (214) 458-5757

Westwood

9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

westwoodps.com
(888) 937-5150

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Monday, February 12, 2024 11:33 AM
To: Lindi Weber [REDACTED]
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Independence Water_13823_Status_Update

CAUTION: External Sender. Please do not click on links or open attachments from senders you do not trust.

Ms. Weber,
I have elevated your concerns to management.
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

Independence Water_13823_Status_Update

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

Mon 2/12/2024 11:32 AM

To:Lindi Weber [REDACTED]

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

Ms. Weber,

I have elevated your concerns to management.

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

PHONE MEMO
Independence Water, Application No. 13823
for a Water Use Permit

From: Lindi Weber	To: Lillian E. Beerman
Date: February 12, 2024	Permit: WRPERM 13823 Independence Water
Phone: 817-562-3350 (o) <u>214-458-5757 (c)</u>	Re: Status report

Spoke with Lindi Weber. She called to inquire about the status of their application. Informed her that the permit has been drafted and is in review by senior staff.

Lillian E. Beerman, Ph.D. February 12, 2024

RE: Independence Water 13823

Lindi Weber <[REDACTED]>

Mon 8/7/2023 8:18 AM

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

Chris,

Thanks for the clarification.

Lindi

Lindi Weber

Senior Environmental Scientist

PELOTON LAND SOLUTIONS

a **Westwood** company

[e] [REDACTED]

[o] 817.562.3350 | [c] 214.458.5757

pelotonland.com ▪ westwoodps.com

TBPE Firm No. 12207 | TBPLS Firm No. 101777000

From: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Sent: Thursday, August 3, 2023 9:04 AM

To: Lindi Weber <[REDACTED]>; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>

Subject: RE: Independence Water 13823

Ms. Weber,

The tech teams have received your comments from their most recent request are working on memos for your application. I don't have a specific time frame of their completion, but we hope to have a draft permit to you in the next few months. If you have any questions you can contact me at 512-239-1801.

Thanks!

Chris Kozlowski, Team Leader

Water Rights Permitting Team

Water Rights Permitting and Availability Section

(512) 239-1801

Chris.Kozlowski@tceq.texas.gov

From: Lindi Weber <[REDACTED]>

Sent: Tuesday, August 1, 2023 8:16 AM

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

Cc: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Subject: RE: Independence Water 13823

Lillian,

Thanks for the quick response. At the end of the call in May, Trent Gay indicated that all technical review comments were addressed and the a draft notice would start to be drafted. That was the last correspondence we had with TCEQ staff, so if you could verify that for us, we would appreciate it.

Lindi

Lindi Weber

Senior Environmental Scientist

PELTON LAND SOLUTIONS

a **Westwood** company

[e] [REDACTED]
[o] 817.562.3350 | [c] 214.458.5757

pelotonland.com ▪ westwoodps.com

TBPE Firm No. 12207 | TBPLS Firm No. 101777000

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Monday, July 31, 2023 6:05 PM
To: Lindi Weber <[REDACTED]>
Cc: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>; Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Re: Independence Water 13823

Ms. Lindi Weber,
Your comments on the Technical Request for Information were received and distributed to our technical staff. Your application and the new information are under review with the Water Rights Permitting Technical Teams.
I have elevated your concerns to management. Please be assured that I will keep you apprised of progress on Application no. 13823 from Independence Water, LP and HW 2421 Land LP.
Thank You,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Lindi Weber <[REDACTED]>
Sent: Monday, July 31, 2023 2:02 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Independence Water 13823

Lillian,

Wanted to follow up with you on this project. At the end of our call on May 9, staff indicated that we had satisfied all comments and that they would start the draft notice for the project. Can you let me know the status of that? And if possible an ETA of when the draft notice may be ready to send out?

Thanks,
Lindi



Lindi Weber
Senior Environmental Scientist

[e] [REDACTED]
[o] 817.562.3350
[c] 214.458.5757

FORT WORTH OFFICE

9800 Hillwood Parkway, Suite 250
Fort Worth, Texas 76177

pelotonland.com ▪ westwoodps.com

TBPE Firm No. 12207 | TBPLS Firm No. 10177700

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Re: Independence Water 13823

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

Tue 5/9/2023 4:29 PM

To: Lindi Weber <[REDACTED]>

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

Thank you Lindi,
I will forward to Trent and Section.
Lilly

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

From: Lindi Weber <[REDACTED]>
Sent: Tuesday, May 9, 2023 4:24 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: RE: Independence Water 13823

Lillian,

I have attached electronic files of the accounting plan summary that has the revision that Trent Gray requested today on our call.

Thanks,
Lindi

 **PELOTON** | Lindi Weber
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177
[e] [REDACTED]
[o] [REDACTED]
[c] 214.458.5757

www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Thursday, May 4, 2023 10:58 AM
To: Lindi Weber <[REDACTED]>
Subject: Re: Independence Water 13823

Sure Lindi,
The meeting should last approximately 10 minutes. Chris Kozlowski, Trent Gay, Andrew Garcia, and myself will attend.
I was just looking at the schedules. Here are some options:
Tuesday, May 9th : 4 to 4:30

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
April 17, 2023

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 57.1 acre-feet of supplemental water for the use of irrigation. Our calculated net loss per year is 34 acre-feet and 23.1 acre-feet of irrigation water that can be diverted from the pond for irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are sixteen tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13813. 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 H) and fourteen rows. The columns in the table are as follows:

	A	B	C	D	E	F	G	H
1	Dove Pond (Golf Course Pond)							
2	Water Accounting Record							
3	Annual Tab							
4								
5								
6	Year							
7								
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Supplemental Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Balance (ac-ft)
9	January	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
10	February	0.00	0.00	0.00	1.68	1.68	1.68	-1.68
11	March	0.00	0.00	0.00	2.48	2.48	2.48	-2.48
12	April	0.00	0.00	0.00	3.30	3.30	3.30	-3.30
13	May	0.00	0.00	0.00	3.72	3.72	3.72	-3.72
14	June	0.00	0.00	0.00	4.50	4.50	4.50	-4.50
15	July	0.00	0.00	0.00	5.27	5.27	5.27	-5.27
16	August	0.00	0.00	0.00	4.65	4.65	4.65	-4.65
17	September	0.00	0.00	0.00	3.60	3.60	3.60	-3.60
18	October	0.00	0.00	0.00	2.79	2.79	2.79	-2.79
19	November	0.00	0.00	0.00	1.80	1.80	1.80	-1.80
20	December	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
21	Total	0.00	0.00	0.00	36.27	36.27	36.27	-36.27
22								

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B42, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C42, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Supplemental Groundwater Volume (ac-ft).</u> Contains the monthly Supplemental Groundwater Volume in acre-feet (This number comes from Cell D42, which is a conversion of the Sum of Column D "Supplemental Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Default Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell G42, which is a conversion of the Sum of Column G "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column F</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell H42, which is a conversion of the Sum of Column H "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell I42, which is a conversion of the Sum of Column I "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column H</u>	<u>Supplemental Groundwater Balance (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. (Column C "Groundwater Volume" added to

Column D "Supplemental Groundwater Volume" minus Column B "Diversion Volume" and minus Column E "Default Evaporation." This number will populate automatically once the Monthly Tabs are completed.

MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes twelve monthly spreadsheets labeled JAN through DEC. Each worksheet contains twelve columns (A through L), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the diversion volume in gallons into Column B "Diversion Volume (gal)," the groundwater volume in gallons into Column C, "Groundwater Volume (gal)," and the supplemental groundwater volume in gallons into Column D "Supplemental Groundwater Volume (gal)." All other cells will be filled automatically based on those entries.

	A	B	C	D	E	F	G	H	I	J	K	L
1								Dove Pond (Golf Course Pond)				
2								Water Accounting Record				
3								January - Monthly Tab				
4												
5												
6												
7			Lake Surface Area (acres)		4.80							
8			Plan Factor		0.73							
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	12/31 of Prev. Yr.										0	Insert Weekly Balance From Dec 31 of Previous Year
11					0.11	0.04	43.034	53.034	43.034			

Column A Day. Lists the day of the month. **No data entry is required by the applicant.**

Column B Diversion Volume (gal). Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of the pond daily.**

	A	B
1		
2		
3		
4		
5		
6		
7		
8		
9	Day	Diversion Volume (gal)
10	1	
11	2	
12	3	
13	4	
14	5	

Column C Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the well water meter(s). Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
	Day	Diversion Volume (gal)	Groundwater Volume (gal)
9			
10	1		
11	2		

Column D Supplemental Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the water well meter(s) for supplemental groundwater added to typical groundwater volume discharges. Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

5				
6			Lake Surface Area (acres)	
7			Pan Factor	
8				
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)
9				
10	1			
11	2			
12	3			
13	4			

Column E Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)," of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column F Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column E to feet and multiplying it by the total surface area of the lake in Cell E6 (Column E "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by E6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column G Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325,851 gallons per acre-foot. **No data entry is required by the applicant.**

Column H Calculated Net Inflow (gal). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column B "Diversion Volume (gal) + Column G "Default Evaporation (gal) minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)") The user needs to make sure that the total Calculated Net Inflow is a negative number at month's end to ensure the conditions of the permit are met. **No data entry is required by the applicant.**

Column I Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column H. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column H is "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column J Daily Surplus/Shortage of Supplemental Groundwater (gal). The Daily Surplus/Shortage of Supplemental Groundwater (gal) (Column J) calculates the daily surplus or shortage of supplemental groundwater pumped to overcome irrigation diversions and evaporation. Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) is occurring. (Column G "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)" minus Column B "Diversion Volume (gal).")

Column K "Weekly Cumulative Balance of Required Supplemental Groundwater (gal). This column tracks the weekly surplus or shortage of required supplemental groundwater. If the value in this column is negative, insufficient supplemental groundwater was pumped in the current week to overcome pond evaporation and diversions for irrigation. Sufficient supplemental groundwater must be pumped in the following week to overcome the shortages from the previous week, in addition to the required groundwater needed to overcome pond evaporation and diversions for irrigation. If a shortage of required groundwater remains at the end of the month, the applicant must cease diversions until the shortage is overcome with additional groundwater pumping.

Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) has occurred in the previous week. Note that a surplus cannot be carried from day to day or one week to the next, and a value of zero indicates adequate groundwater has been pumped to make up any deficits from previous weeks and ensure no state water has been appropriated. The value from December 31 of the previous year must be entered in the account plan for a shortage at the end of the previous year.

	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

Column L Comments. This Column allows the applicant to enter any relevant notes and observations. **The applicant is to enter comments daily.**

5												
6		Lake Surface Area (acres)		4.80								
7		Pan Factor		0.70								
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	1				0.15	0.06	19,551	19,551	19,551		0	
11	2				0.15	0.06	19,551	19,551	19,551		0	
12	3				0.15	0.06	19,551	19,551	19,551		0	
13	4				0.15	0.06	19,551	19,551	19,551		0	
14	5				0.15	0.06	19,551	19,551	19,551		0	
15	6				0.15	0.06	19,551	19,551	19,551		0	
16	7				0.15	0.06	19,551	19,551	19,551		0	
17	8				0.15	0.06	19,551	19,551	19,551		0	
18	9				0.15	0.06	19,551	19,551	19,551		0	
19	10				0.15	0.06	19,551	19,551	19,551		0	
20	11				0.15	0.06	19,551	19,551	19,551		0	
21	12				0.15	0.06	19,551	19,551	19,551		0	
22	13				0.15	0.06	19,551	19,551	19,551		0	
23	14				0.15	0.06	19,551	19,551	19,551		0	
24	15				0.15	0.06	19,551	19,551	19,551		0	
25	16				0.15	0.06	19,551	19,551	19,551		0	
26	17				0.15	0.06	19,551	19,551	19,551		0	
27	18				0.15	0.06	19,551	19,551	19,551		0	
28	19				0.15	0.06	19,551	19,551	19,551		0	
29	20				0.15	0.06	19,551	19,551	19,551		0	
30	21				0.15	0.06	19,551	19,551	19,551		0	
31	22				0.15	0.06	19,551	19,551	19,551		0	
32	23				0.15	0.06	19,551	19,551	19,551		0	
33	24				0.15	0.06	19,551	19,551	19,551		0	
34	25				0.15	0.06	19,551	19,551	19,551		0	
35	26				0.15	0.06	19,551	19,551	19,551		0	
36	27				0.15	0.06	19,551	19,551	19,551		0	
37	28				0.15	0.06	19,551	19,551	19,551		0	
38												
39												
40												
41	Total (ac-ft)	0.00	0.00	0.00	1.68	1.68	1.68	1.68	1.68			
42	Total (gal)	0	0	0	547,430	547,430	547,428	547,428	547,428			

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
April 17, 2023

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 57.1 acre-feet of supplemental water for the use of irrigation. Our calculated net loss per year is 34 acre-feet and 23.1 acre-feet of irrigation water that can be diverted from the pond for irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are sixteen tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13813. 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 H) and fourteen rows. The columns in the table are as follows:

	A	B	C	D	E	F	G	H
1	Dove Pond (Golf Course Pond)							
2	Water Accounting Record							
3	Annual Tab							
4								
5								
6	Year							
7								
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Supplemental Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Balance (ac-ft)
9	January	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
10	February	0.00	0.00	0.00	1.68	1.68	1.68	-1.68
11	March	0.00	0.00	0.00	2.48	2.48	2.48	-2.48
12	April	0.00	0.00	0.00	3.30	3.30	3.30	-3.30
13	May	0.00	0.00	0.00	3.72	3.72	3.72	-3.72
14	June	0.00	0.00	0.00	4.50	4.50	4.50	-4.50
15	July	0.00	0.00	0.00	5.27	5.27	5.27	-5.27
16	August	0.00	0.00	0.00	4.65	4.65	4.65	-4.65
17	September	0.00	0.00	0.00	3.60	3.60	3.60	-3.60
18	October	0.00	0.00	0.00	2.79	2.79	2.79	-2.79
19	November	0.00	0.00	0.00	1.80	1.80	1.80	-1.80
20	December	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
21	Total	0.00	0.00	0.00	36.27	36.27	36.27	-36.27
22								

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B42, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C42, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Supplemental Groundwater Volume (ac-ft).</u> Contains the monthly Supplemental Groundwater Volume in acre-feet (This number comes from Cell D42, which is a conversion of the Sum of Column D "Supplemental Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Default Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell G42, which is a conversion of the Sum of Column G "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column F</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell H42, which is a conversion of the Sum of Column H "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell I42, which is a conversion of the Sum of Column I "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column H</u>	<u>Supplemental Groundwater Balance (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. (Column C "Groundwater Volume" added to

Column D "Supplemental Groundwater Volume" minus Column B "Diversion Volume" and minus Column E "Default Evaporation." This number will populate automatically once the Monthly Tabs are completed.

MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes twelve monthly spreadsheets labeled JAN through DEC. Each worksheet contains twelve columns (A through L), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the diversion volume in gallons into Column B "Diversion Volume (gal)," the groundwater volume in gallons into Column C, "Groundwater Volume (gal)," and the supplemental groundwater volume in gallons into Column D "Supplemental Groundwater Volume (gal)." All other cells will be filled automatically based on those entries.

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	12/31 of Prev. Yr.										0	Insert Weekly Balance From Dec 31 of Previous Year
11												

Column A Day. Lists the day of the month. **No data entry is required by the applicant.**

Column B Diversion Volume (gal). Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of the pond daily.**

	A	B	
1			
2			
3			
4			
5			
6			
7			
8			
9	Day	Diversion Volume (gal)	
10	1		
11	2		
12	3		
13	4		
14	5		

Column C Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the well water meter(s). Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
	Day	Diversion Volume (gal)	Groundwater Volume (gal)
9			
10	1		
11	2		

Column D Supplemental Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the water well meter(s) for supplemental groundwater added to typical groundwater volume discharges. Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

5				
6			Lake Surface Area (acres)	
7			Pan Factor	
8				
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)
9				
10	1			
11	2			
12	3			
13	4			

Column E Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)," of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column F Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column E to feet and multiplying it by the total surface area of the lake in Cell E6 (Column E "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by E6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column G Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325,851 gallons per acre-foot. **No data entry is required by the applicant.**

Column H Calculated Net Inflow (gal). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column B "Diversion Volume (gal) + Column G "Default Evaporation (gal) minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)") The user needs to make sure that the total Calculated Net Inflow is a negative number at month's end to ensure the conditions of the permit are met. **No data entry is required by the applicant.**

Column I Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column H. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column H is "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column J Daily Surplus/Shortage of Supplemental Groundwater (gal). The Daily Surplus/Shortage of Supplemental Groundwater (gal) (Column J) calculates the daily surplus or shortage of supplemental groundwater pumped to overcome irrigation diversions and evaporation. Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) is occurring. (Column G "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)" minus Column B "Diversion Volume (gal).")

Column K "Weekly Cumulative Balance of Required Supplemental Groundwater (gal). This column tracks the weekly surplus or shortage of required supplemental groundwater. If the value in this column is negative, insufficient supplemental groundwater was pumped in the current week to overcome pond evaporation and diversions for irrigation. Sufficient supplemental groundwater must be pumped in the following week to overcome the shortages from the previous week, in addition to the required groundwater needed to overcome pond evaporation and diversions for irrigation. If a shortage of required groundwater remains at the end of the month, the applicant must cease diversions until the shortage is overcome with additional groundwater pumping.

Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) has occurred in the previous week. Note that a surplus cannot be carried from day to day or one week to the next, and a value of zero indicates adequate groundwater has been pumped to make up any deficits from previous weeks and ensure no state water has been appropriated. The value from December 31 of the previous year must be entered in the account plan for a shortage at the end of the previous year.

	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

Column L Comments. This Column allows the applicant to enter any relevant notes and observations. **The applicant is to enter comments daily.**

5												
6		Lake Surface Area (acres)		4.80								
7		Pan Factor		0.70								
8												
9												
10	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
11	1				0.15	0.06	19.551	19.551	19.551		0	
12	2				0.15	0.06	19.551	19.551	19.551		0	
13	3				0.15	0.06	19.551	19.551	19.551		0	
14	4				0.15	0.06	19.551	19.551	19.551		0	
15	5				0.15	0.06	19.551	19.551	19.551		0	
16	6				0.15	0.06	19.551	19.551	19.551		0	
17	7				0.15	0.06	19.551	19.551	19.551		0	
18	8				0.15	0.06	19.551	19.551	19.551		0	
19	9				0.15	0.06	19.551	19.551	19.551		0	
20	10				0.15	0.06	19.551	19.551	19.551		0	
21	11				0.15	0.06	19.551	19.551	19.551		0	
22	12				0.15	0.06	19.551	19.551	19.551		0	
23	13				0.15	0.06	19.551	19.551	19.551		0	
24	14				0.15	0.06	19.551	19.551	19.551		0	
25	15				0.15	0.06	19.551	19.551	19.551		0	
26	16				0.15	0.06	19.551	19.551	19.551		0	
27	17				0.15	0.06	19.551	19.551	19.551		0	
28	18				0.15	0.06	19.551	19.551	19.551		0	
29	19				0.15	0.06	19.551	19.551	19.551		0	
30	20				0.15	0.06	19.551	19.551	19.551		0	
31	21				0.15	0.06	19.551	19.551	19.551		0	
32	22				0.15	0.06	19.551	19.551	19.551		0	
33	23				0.15	0.06	19.551	19.551	19.551		0	
34	24				0.15	0.06	19.551	19.551	19.551		0	
35	25				0.15	0.06	19.551	19.551	19.551		0	
36	26				0.15	0.06	19.551	19.551	19.551		0	
37	27				0.15	0.06	19.551	19.551	19.551		0	
38	28				0.15	0.06	19.551	19.551	19.551		0	
39												
40												
41	Total (ac-ft)	0.00	0.00	0.00	1.68	1.68	1.68	1.68	1.68			
42	Total (inch)	0	0	0	547.430	547.430	547.428	547.428	547.428			

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

RE: Independence Water 13823

Lindi Weber [REDACTED]

Thu 5/4/2023 11:05 AM

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

Lillian,

Thanks for sending those options over.

Can you schedule a meeting for May 9 @ 4 pm?

Lindi

 **PELTON** | Lindi Weber
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177
[e] [REDACTED]
[o] [REDACTED]
[c] 214.458.5757

www.pelotonland.com

TSPE Firm No. 12207 | TBPLS Firm No. 10177700

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

Sent: Thursday, May 4, 2023 10:58 AM

To: Lindi Weber <[REDACTED]>

Subject: Re: Independence Water 13823

Sure Lindi,

The meeting should last approximately 10 minutes. Chris Kozlowski, Trent Gay, Andrew Garcia, and myself will attend.

I was just looking at the schedules. Here are some options:

Tuesday, May 9th : 4 to 4:30

Thursday, May 11th: 11 to 1:30 and 4 to 5

Friday, May 12th: 11 to 4

Let me know what works.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

RE: Independence Water 13823

Lindi Weber <[REDACTED]>

Thu 5/4/2023 11:05 AM

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

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PELTON
LAND SOLUTIONS

FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

www.pelotonland.com
TSPE Firm No. 12207 | TBPLS Firm No. 10177700

Lindi Weber

[e] [REDACTED]
[o] [REDACTED]
[c] 214.458.5757

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

Sent: Thursday, May 4, 2023 10:58 AM

To: Lindi Weber <[REDACTED]>

Subject: Re: Independence Water 13823

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Let me know what works.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Lindi Weber <[REDACTED]>
Sent: Thursday, May 4, 2023 10:37 AM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Independence Water 13823

Lillian,

Just listened to your voice message about the need for another meeting with the hydrologic staff. Could you possibly send me a couple of proposed days and times that would work for your staff next week? I will have to check with the other Peloton team member about his schedule before I can confirm anything. Figured an email would be easier than calling you back, because I don't know his schedule.

Thanks,
Lindi

 PELTON LAND SOLUTIONS	Lindi Weber
FORT WORTH OFFICE 9800 Hillwood Parkway, Suite 250, Fort Worth, Texas 76177	[e] [REDACTED] [o] [REDACTED] [c] 214.458.5757
www.pelotonland.com TBPE Firm No. 12207 TBPLS Firm No. 10177700	

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RE: Independence_Water_13823_Technical_RFI_No.2

Lindi Weber <[REDACTED]>

Mon 4/17/2023 1:39 PM

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

📎 3 attachments (3 MB)

FINAL RFI Response WRPERM 13823 CTR WAP_April 17 2023.pdf; Accounting Plan_Dove Pond_Revised April 17_2023.xlsx;
Accounting Plan Summary_Dove Pond_Revised April 17_2023.docx;

Lillian,

Please find the attached letter response to the RFI dated April 10, 2023. I have also included electronic copies of the Accounting Plan Summary and Accounting Plan Spreadsheet.

Please let us know if there are any more questions or any other information needed to complete the technical review.

Thanks,
Lindi



PELOTON
LAND SOLUTIONS

FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

Lindi Weber

[e] [REDACTED]
[o] 817.382.3300
[c] 214.458.5757

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

Sent: Monday, April 10, 2023 12:11 PM

To: Lindi Weber <[REDACTED]>

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

Subject: Independence_Water_13823_Technical_RFI_No.2

Ms. Weber,

Attached is a Second Technical Request for Information for Independence Water, L.P. and H.W. 2421 Land, LP Application No. 13823. Response is due COB Wednesday, May 10, 2023.

If you have any 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

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April 17, 2023

Ms. Lillian E. Beerman
Project Manager, Water Rights Permitting Team
Water Rights Permitting and Availability Section
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Administrative Code § 11.143 Requiring Limited Mailed Notice
Unnamed Tributary of Marshall Branch, Trinity River Basin
Tarrant County

Ms. Beerman,

On behalf of Independence Water, L.P. and HW 2421 Land, L.P., we are providing the following response to your letter dated April 10, 2023.

Comment #1 – Revise the accounting plan to reconcile the amount of groundwater added to the reservoir with the amount needed on a weekly or biweekly basis. Staff recognizes that the Calculated Net Inflow (Column G) tracks if there has been enough groundwater discharged monthly; however, the accounting plan should record if previously weekly or biweekly depletions are accounted for by supplemental groundwater within the next week of biweekly period. Any additional groundwater pumped to cover the previous week or biweekly's deficit should not affect the current week or biweekly surplus/deficit calculations.

The accounting plan has been revised to include the following columns in each monthly tab:

- Supplemental Groundwater Volume (Column D) – Applicant will enter daily meter readings for the water well meter(s) for supplemental groundwater added to typical groundwater volume discharges.
- Daily Surplus/Shortage of Supplemental Groundwater (Column J) - calculates the daily surplus or shortage of supplemental groundwater pumped to overcome irrigation diversions and evaporation.
- Weekly Cumulative Balance of Required Supplemental Groundwater - This column tracks the weekly surplus or shortage of required supplemental groundwater.

Additionally, the Calculated Net Inflow (now Column H) is now calculated by subtracting the diversion volume (Column B) and the Default Evaporation (Column G) from groundwater inflow to the lake (Column C) and supplemental groundwater inflow (Column D).

Consequently, the Supplemental Groundwater Volume (Column D) and Supplement Groundwater Volume (Column H) have been added to the annual tab. Supplemental Groundwater Volume in the annual tab is linked back to each monthly tab where the conversion of the sum of Supplemental Groundwater Volume (gal) to acre-feet occurs. Supplemental Groundwater Balance contains the monthly supplemental groundwater release in acre-feet. All of the changes to the accounting plan are explained in detail in the revised Accounting Plan summary (see **Attachment A**). An electronic version of the accounting plan spreadsheet will be emailed to you with the electronic version of this letter.

Comment #2 – Update Column F and G in the Annual Worksheet to calculate the monthly and annual totals.

This correction has been made to both Columns F and G in the annual worksheet.

Comment #3 – Correct the text documents as follows:

- a. Replace “51.7” with “57.1” in the second bullet of the introduction section (Page 1 of 9).*

The correction has been made to the second bullet of the introduction section (Page 1 of 9).

- b. Correct the following for Column G of the Monthly Tabs (Page 5 of 9):*
 - i. Add “from” after “subtracting” so that it states “subtracting from the default evaporation” in the first sentence.*

Column G is now Column H, and the calculation for Calculated Net Inflow has been revised, where this comment is no longer applicable.

- ii. Revise the formula in the second sentence. Staff notes the nested formula is described incorrectly.*

The calculation for Calculated Net Inflow (now Column H) has been changed. The description of the nested formula for the new calculation should match the revised Accounting Plan Summary (see **Attachment A**).

Feel free to contact me at the phone number below or via e-mail at [REDACTED]m if you have any questions or need additional information to process this request.

Sincerely,

A handwritten signature in blue ink that reads "Lindi Weber". The signature is written in a cursive, flowing style.

Lindi Weber
Peloton Land Solutions
Office: 817.562.3350

ATTACHMENT A

Accounting Summary dated April 17, 2023

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
April 17, 2023

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 57.1 acre-feet of supplemental water for the use of irrigation. Our calculated net loss per year is 34 acre-feet and 23.1 acre-feet of irrigation water that can be diverted from the pond for irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are sixteen tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13813. 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 H) and fourteen rows. The columns in the table are as follows:

	A	B	C	D	E	F	G	H
1	Dove Pond (Golf Course Pond)							
2	Water Accounting Record							
3	Annual Tab							
4								
5								
6	Year							
7								
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Supplemental Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Balance (ac-ft)
9	January	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
10	February	0.00	0.00	0.00	1.68	1.68	1.68	-1.68
11	March	0.00	0.00	0.00	2.48	2.48	2.48	-2.48
12	April	0.00	0.00	0.00	3.30	3.30	3.30	-3.30
13	May	0.00	0.00	0.00	3.72	3.72	3.72	-3.72
14	June	0.00	0.00	0.00	4.50	4.50	4.50	-4.50
15	July	0.00	0.00	0.00	5.27	5.27	5.27	-5.27
16	August	0.00	0.00	0.00	4.65	4.65	4.65	-4.65
17	September	0.00	0.00	0.00	3.60	3.60	3.60	-3.60
18	October	0.00	0.00	0.00	2.79	2.79	2.79	-2.79
19	November	0.00	0.00	0.00	1.80	1.80	1.80	-1.80
20	December	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
21	Total	0.00	0.00	0.00	36.27	36.27	36.27	-36.27
22								

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B42, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C42, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Supplemental Groundwater Volume (ac-ft).</u> Contains the monthly Supplemental Groundwater Volume in acre-feet (This number comes from Cell D42, which is a conversion of the Sum of Column D "Supplemental Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Default Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell G42, which is a conversion of the Sum of Column G "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column F</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell H42, which is a conversion of the Sum of Column H "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell I42, which is a conversion of the Sum of Column I "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column H</u>	<u>Supplemental Groundwater Balance (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. (Column C "Groundwater Volume" added to

Column D "Supplemental Groundwater Volume" minus Column B "Diversion Volume" and minus Column E "Default Evaporation." This number will populate automatically once the Monthly Tabs are completed.

MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes twelve monthly spreadsheets labeled JAN through DEC. Each worksheet contains twelve columns (A through L), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the diversion volume in gallons into Column B "Diversion Volume (gal)," the groundwater volume in gallons into Column C, "Groundwater Volume (gal)," and the supplemental groundwater volume in gallons into Column D "Supplemental Groundwater Volume (gal)." All other cells will be filled automatically based on those entries.

Dove Pond (Golf Course Pond) Water Accounting Record January - Monthly Tab											
1											
2											
3											
4											
5											
6											
7											
8											
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)
10	12/31 of Prev. Yr.										0
11											Insert Weekly Balance From Dec 31 of Previous Year

Column A Day. Lists the day of the month. **No data entry is required by the applicant.**

Column B Diversion Volume (gal). Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of the pond daily.**

	A	B
1		
2		
3		
4		
5		
6		
7		
8		
9	Day	Diversion Volume (gal)
10	1	
11	2	
12	3	
13	4	
14	5	

Column C Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the well water meter(s). Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
	Day	Diversion Volume (gal)	Groundwater Volume (gal)
9			
10	1		
11	2		

Column D Supplemental Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the water well meter(s) for supplemental groundwater added to typical groundwater volume discharges. Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

5				
6				Lake Surface Area (acres)
7				Pan Factor
8				
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)
9				
10	1			
11	2			
12	3			
13	4			

Column E Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)," of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column F Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column E to feet and multiplying it by the total surface area of the lake in Cell E6 (Column E "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by E6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column G Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325,851 gallons per acre-foot. **No data entry is required by the applicant.**

Column H Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the sum of diversion volume (Column B) and the Default Evaporation (Column G) from the sum of groundwater inflow to the lake (Column C) and supplemental groundwater inflow (Column D). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column B "Diversion Volume (gal)" + Column G "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)") The user needs to make sure that the total Calculated Net Inflow is a negative number at month's end to ensure the conditions of the permit are met. **No data entry is required by the applicant.**

Column I Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column H. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column H is "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column J Daily Surplus/Shortage of Supplemental Groundwater (gal). The Daily Surplus/Shortage of Supplemental Groundwater (gal) (Column J) calculates the daily surplus or shortage of supplemental groundwater pumped to overcome irrigation diversions and evaporation. Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) is occurring. (Column G "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)" minus Column B "Diversion Volume (gal).")

Column K "Weekly Cumulative Balance of Required Supplemental Groundwater (gal). This column tracks the weekly surplus or shortage of required supplemental groundwater. If the value in this column is negative, insufficient supplemental groundwater was pumped in the current week to overcome pond evaporation and diversions for irrigation. Sufficient supplemental groundwater must be pumped in the following week to overcome the shortages from the previous week, in addition to the required groundwater needed to overcome pond evaporation and diversions for irrigation. If a shortage of required groundwater remains at the end of the month, the applicant must cease diversions until the shortage is overcome with additional groundwater pumping.

Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) has occurred in the previous week. Note that a surplus cannot be carried from day to day or one week to the next, and a value

of zero indicates adequate groundwater has been pumped to make up any deficits from previous weeks and ensure no state water has been appropriated. The value from December 31 of the previous year must be entered in the account plan for a shortage at the end of the previous year.

	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

Column L Comments. This Column allows the applicant to enter any relevant notes and observations. **The applicant is to enter comments daily.**

5	Lake Surface Area (acres)		4.80									
6	Pan Factor		0.70									
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	1				0.15	0.06	19,551	19,551	19,551		0	
11	2				0.15	0.06	19,551	19,551	19,551		0	
12	3				0.15	0.06	19,551	19,551	19,551		0	
13	4				0.15	0.06	19,551	19,551	19,551		0	
14	5				0.15	0.06	19,551	19,551	19,551		0	
15	6				0.15	0.06	19,551	19,551	19,551		0	
16	7				0.15	0.06	19,551	19,551	19,551		0	
17	8				0.15	0.06	19,551	19,551	19,551		0	
18	9				0.15	0.06	19,551	19,551	19,551		0	
19	10				0.15	0.06	19,551	19,551	19,551		0	
20	11				0.15	0.06	19,551	19,551	19,551		0	
21	12				0.15	0.06	19,551	19,551	19,551		0	
22	13				0.15	0.06	19,551	19,551	19,551		0	
23	14				0.15	0.06	19,551	19,551	19,551		0	
24	15				0.15	0.06	19,551	19,551	19,551		0	
25	16				0.15	0.06	19,551	19,551	19,551		0	
26	17				0.15	0.06	19,551	19,551	19,551		0	
27	18				0.15	0.06	19,551	19,551	19,551		0	
28	19				0.15	0.06	19,551	19,551	19,551		0	
29	20				0.15	0.06	19,551	19,551	19,551		0	
30	21				0.15	0.06	19,551	19,551	19,551		0	
31	22				0.15	0.06	19,551	19,551	19,551		0	
32	23				0.15	0.06	19,551	19,551	19,551		0	
33	24				0.15	0.06	19,551	19,551	19,551		0	
34	25				0.15	0.06	19,551	19,551	19,551		0	
35	26				0.15	0.06	19,551	19,551	19,551		0	
36	27				0.15	0.06	19,551	19,551	19,551		0	
37	28				0.15	0.06	19,551	19,551	19,551		0	
38												
39												
40												
41	Total (ac-ft)	0.00	0.00	0.00	1.68	1.68	1.68	1.68	1.68			
42	Total (gal)	0	0	0	547,430	547,430	547,428	547,428	547,428			

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
April 17, 2023

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 57.1 acre-feet of supplemental water for the use of irrigation. Our calculated net loss per year is 34 acre-feet and 23.1 acre-feet of irrigation water that can be diverted from the pond for irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are sixteen tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13813. 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 H) and fourteen rows. The columns in the table are as follows:

	A	B	C	D	E	F	G	H
1	Dove Pond (Golf Course Pond)							
2	Water Accounting Record							
3	Annual Tab							
4								
5								
6	Year							
7								
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Supplemental Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Balance (ac-ft)
9	January	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
10	February	0.00	0.00	0.00	1.68	1.68	1.68	-1.68
11	March	0.00	0.00	0.00	2.48	2.48	2.48	-2.48
12	April	0.00	0.00	0.00	3.30	3.30	3.30	-3.30
13	May	0.00	0.00	0.00	3.72	3.72	3.72	-3.72
14	June	0.00	0.00	0.00	4.50	4.50	4.50	-4.50
15	July	0.00	0.00	0.00	5.27	5.27	5.27	-5.27
16	August	0.00	0.00	0.00	4.65	4.65	4.65	-4.65
17	September	0.00	0.00	0.00	3.60	3.60	3.60	-3.60
18	October	0.00	0.00	0.00	2.79	2.79	2.79	-2.79
19	November	0.00	0.00	0.00	1.80	1.80	1.80	-1.80
20	December	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
21	Total	0.00	0.00	0.00	36.27	36.27	36.27	-36.27
22								

<u>Column A</u>	<u>Month</u> . Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft)</u> . Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B42, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft)</u> . Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C42, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Supplemental Groundwater Volume (ac-ft)</u> . Contains the monthly Supplemental Groundwater Volume in acre-feet (This number comes from Cell D42, which is a conversion of the Sum of Column D "Supplemental Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Default Evaporation (ac-ft)</u> . Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell G42, which is a conversion of the Sum of Column G "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column F</u>	<u>Calculated Net Inflow (ac-ft)</u> . Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell H42, which is a conversion of the Sum of Column H "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Depleted Net Inflow (ac-ft)</u> . Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell I42, which is a conversion of the Sum of Column I "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column H</u>	<u>Supplemental Groundwater Balance (ac-ft)</u> . Contains the monthly supplemental groundwater release in acre-feet. (Column C "Groundwater Volume" added to

Column D "Supplemental Groundwater Volume" minus Column B "Diversion Volume" and minus Column E "Default Evaporation." This number will populate automatically once the Monthly Tabs are completed.

MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes twelve monthly spreadsheets labeled JAN through DEC. Each worksheet contains twelve columns (A through L), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the diversion volume in gallons into Column B "Diversion Volume (gal)," the groundwater volume in gallons into Column C, "Groundwater Volume (gal)," and the supplemental groundwater volume in gallons into Column D "Supplemental Groundwater Volume (gal)." All other cells will be filled automatically based on those entries.

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	12/31 of Prev. Yr.										0	Insert Weekly Balance From Dec 31 of Previous Year
11												

Column A Day. Lists the day of the month. **No data entry is required by the applicant.**

Column B Diversion Volume (gal). Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of the pond daily.**

	A	B	
1			
2			
3			
4			
5			
6			
7			
8			
9	Day	Diversion Volume (gal)	
10	1		
11	2		
12	3		
13	4		
14	5		

Column C Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the well water meter(s). Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
	Day	Diversion Volume (gal)	Groundwater Volume (gal)
9			
10	1		
11	2		

Column D Supplemental Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the water well meter(s) for supplemental groundwater added to typical groundwater volume discharges. Water well meter records are used in gallons. **The applicant is to read the meter(s) and enter the amount of water (in gallons) discharged into the pond daily.**

5				
6			Lake Surface Area (acres)	
7			Pan Factor	
8				
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)
9				
10	1			
11	2			
12	3			
13	4			

Column E Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)," of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column F Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column E to feet and multiplying it by the total surface area of the lake in Cell E6 (Column E "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by E6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column G Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325,851 gallons per acre-foot. **No data entry is required by the applicant.**

Column H Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the sum of diversion volume (Column B) and the Default Evaporation (Column G) from the sum of groundwater inflow to the lake (Column C) and supplemental groundwater inflow (Column D). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column B "Diversion Volume (gal)" + Column G "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)") The user needs to make sure that the total Calculated Net Inflow is a negative number at month's end to ensure the conditions of the permit are met. **No data entry is required by the applicant.**

Column I Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column H. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column H is "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column J Daily Surplus/Shortage of Supplemental Groundwater (gal). The Daily Surplus/Shortage of Supplemental Groundwater (gal) (Column J) calculates the daily surplus or shortage of supplemental groundwater pumped to overcome irrigation diversions and evaporation. Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) is occurring. (Column G "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" + Column D "Supplemental Groundwater Volume (gal)" minus Column B "Diversion Volume (gal).")

Column K "Weekly Cumulative Balance of Required Supplemental Groundwater (gal). This column tracks the weekly surplus or shortage of required supplemental groundwater. If the value in this column is negative, insufficient supplemental groundwater was pumped in the current week to overcome pond evaporation and diversions for irrigation. Sufficient supplemental groundwater must be pumped in the following week to overcome the shortages from the previous week, in addition to the required groundwater needed to overcome pond evaporation and diversions for irrigation. If a shortage of required groundwater remains at the end of the month, the applicant must cease diversions until the shortage is overcome with additional groundwater pumping.

Cells in this column are conditionally formatted to indicate if a surplus (highlighted green) or a deficit (highlighted red) has occurred in the previous week. Note that a surplus cannot be carried from day to day or one week to the next, and a value

of zero indicates adequate groundwater has been pumped to make up any deficits from previous weeks and ensure no state water has been appropriated. The value from December 31 of the previous year must be entered in the account plan for a shortage at the end of the previous year.

	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

Column L Comments. This Column allows the applicant to enter any relevant notes and observations. **The applicant is to enter comments daily.**

6													
7													
8													

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

Dove Pond (Golf Course Pond)
Water Accounting Record
Annual Tab

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

Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Supplemental Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Balance (ac-ft)
January	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
February	0.00	0.00	0.00	1.68	1.68	1.68	-1.68
March	0.00	0.00	0.00	2.48	2.48	2.48	-2.48
April	0.00	0.00	0.00	3.30	3.30	3.30	-3.30
May	0.00	0.00	0.00	3.72	3.72	3.72	-3.72
June	0.00	0.00	0.00	4.50	4.50	4.50	-4.50
July	0.00	0.00	0.00	5.27	5.27	5.27	-5.27
August	0.00	0.00	0.00	4.65	4.65	4.65	-4.65
September	0.00	0.00	0.00	3.60	3.60	3.60	-3.60
October	0.00	0.00	0.00	2.79	2.79	2.79	-2.79
November	0.00	0.00	0.00	1.80	1.80	1.80	-1.80
December	0.00	0.00	0.00	1.24	1.24	1.24	-1.24
Total	0.00	0.00	0.00	36.27	36.27	36.27	-36.27

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	January - Monthly Tab													
4														
5														
6														
7														
8														
9														
10	12/31 of Prev. Yr.										0	Insert Weekly Balance From Dec 31 of Previous Year		
11	1				0.11	0.04	13.034	13.034	13.034		0			
12	2				0.11	0.04	13.034	13.034	13.034		0			
13	3				0.11	0.04	13.034	13.034	13.034		0			
14	4				0.11	0.04	13.034	13.034	13.034		0			
15	5				0.11	0.04	13.034	13.034	13.034		0			
16	6				0.11	0.04	13.034	13.034	13.034		0			
17	7				0.11	0.04	13.034	13.034	13.034		0			
18	8				0.11	0.04	13.034	13.034	13.034		0			
19	9				0.11	0.04	13.034	13.034	13.034		0			
20	10				0.11	0.04	13.034	13.034	13.034		0			
21	11				0.11	0.04	13.034	13.034	13.034		0			
22	12				0.11	0.04	13.034	13.034	13.034		0			
23	13				0.11	0.04	13.034	13.034	13.034		0			
24	14				0.11	0.04	13.034	13.034	13.034		0			
25	15				0.11	0.04	13.034	13.034	13.034		0			
26	16				0.11	0.04	13.034	13.034	13.034		0			
27	17				0.11	0.04	13.034	13.034	13.034		0			
28	18				0.11	0.04	13.034	13.034	13.034		0			
29	19				0.11	0.04	13.034	13.034	13.034		0			
30	20				0.11	0.04	13.034	13.034	13.034		0			
31	21				0.11	0.04	13.034	13.034	13.034		0			
32	22				0.11	0.04	13.034	13.034	13.034		0			
33	23				0.11	0.04	13.034	13.034	13.034		0			
34	24				0.11	0.04	13.034	13.034	13.034		0			
35	25				0.11	0.04	13.034	13.034	13.034		0			
36	26				0.11	0.04	13.034	13.034	13.034		0			
37	27				0.11	0.04	13.034	13.034	13.034		0			
38	28				0.11	0.04	13.034	13.034	13.034		0			
39	29				0.11	0.04	13.034	13.034	13.034		0			
40	30				0.11	0.04	13.034	13.034	13.034		0			
41	31				0.11	0.04	13.034	13.034	13.034		0			
42	Total (ac-ft)	0.00	0.00	0.00	1.36	1.24	1.24	1.24	1.24					
43	Total (gal)	0	0	0	444,461	404,055	404,054	404,054	404,054					

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record February - Monthly Tab											
2												
3												
4												
5												
6												
7												
8												
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
9												
10	1				0.15	0.06	19,551	19,551	19,551		0	
11	2				0.15	0.06	19,551	19,551	19,551		0	
12	3				0.15	0.06	19,551	19,551	19,551		0	
13	4				0.15	0.06	19,551	19,551	19,551		0	
14	5				0.15	0.06	19,551	19,551	19,551		0	
15	6				0.15	0.06	19,551	19,551	19,551		0	
16	7				0.15	0.06	19,551	19,551	19,551		0	
17	8				0.15	0.06	19,551	19,551	19,551		0	
18	9				0.15	0.06	19,551	19,551	19,551		0	
19	10				0.15	0.06	19,551	19,551	19,551		0	
20	11				0.15	0.06	19,551	19,551	19,551		0	
21	12				0.15	0.06	19,551	19,551	19,551		0	
22	13				0.15	0.06	19,551	19,551	19,551		0	
23	14				0.15	0.06	19,551	19,551	19,551		0	
24	15				0.15	0.06	19,551	19,551	19,551		0	
25	16				0.15	0.06	19,551	19,551	19,551		0	
26	17				0.15	0.06	19,551	19,551	19,551		0	
27	18				0.15	0.06	19,551	19,551	19,551		0	
28	19				0.15	0.06	19,551	19,551	19,551		0	
29	20				0.15	0.06	19,551	19,551	19,551		0	
30	21				0.15	0.06	19,551	19,551	19,551		0	
31	22				0.15	0.06	19,551	19,551	19,551		0	
32	23				0.15	0.06	19,551	19,551	19,551		0	
33	24				0.15	0.06	19,551	19,551	19,551		0	
34	25				0.15	0.06	19,551	19,551	19,551		0	
35	26				0.15	0.06	19,551	19,551	19,551		0	
36	27				0.15	0.06	19,551	19,551	19,551		0	
37	28				0.15	0.06	19,551	19,551	19,551		0	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	March - Monthly Tab													
4														
5														
6			Lake Surface Area (acres)		4.80									Signed: _____
7			Pan Factor		0.69									Date: _____
8														
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.21	0.08	26,068	26,068	26,068		0			
11	2				0.21	0.08	26,068	26,068	26,068		0			
12	3				0.21	0.08	26,068	26,068	26,068		0			
13	4				0.21	0.08	26,068	26,068	26,068		0			
14	5				0.21	0.08	26,068	26,068	26,068		0			
15	6				0.21	0.08	26,068	26,068	26,068		0			
16	7				0.21	0.08	26,068	26,068	26,068		0			
17	8				0.21	0.08	26,068	26,068	26,068		0			
18	9				0.21	0.08	26,068	26,068	26,068		0			
19	10				0.21	0.08	26,068	26,068	26,068		0			
20	11				0.21	0.08	26,068	26,068	26,068		0			
21	12				0.21	0.08	26,068	26,068	26,068		0			
22	13				0.21	0.08	26,068	26,068	26,068		0			
23	14				0.21	0.08	26,068	26,068	26,068		0			
24	15				0.21	0.08	26,068	26,068	26,068		0			
25	16				0.21	0.08	26,068	26,068	26,068		0			
26	17				0.21	0.08	26,068	26,068	26,068		0			
27	18				0.21	0.08	26,068	26,068	26,068		0			
28	19				0.21	0.08	26,068	26,068	26,068		0			
29	20				0.21	0.08	26,068	26,068	26,068		0			
30	21				0.21	0.08	26,068	26,068	26,068		0			
31	22				0.21	0.08	26,068	26,068	26,068		0			
32	23				0.21	0.08	26,068	26,068	26,068		0			
33	24				0.21	0.08	26,068	26,068	26,068		0			
34	25				0.21	0.08	26,068	26,068	26,068		0			
35	26				0.21	0.08	26,068	26,068	26,068		0			
36	27				0.21	0.08	26,068	26,068	26,068		0			
37	28				0.21	0.08	26,068	26,068	26,068		0			
38	29				0.21	0.08	26,068	26,068	26,068		0			
39	30				0.21	0.08	26,068	26,068	26,068		0			
40	31				0.21	0.08	26,068	26,068	26,068		0			
41														
42	Total (ac-ft)	0.00	0.00	0.00	2.60	2.48	2.48	2.48	2.48					
43	Total (gal)	0	0	0	848,516	808,110	808,108	808,108	808,108					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	April - Monthly Tab													
4														
5														
6	Lake Surface Area (acres)				4.80									
7	Pan Factor				0.67									
8														
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.27	0.11	35,844	35,844	35,844		0			
11	2				0.27	0.11	35,844	35,844	35,844		0			
12	3				0.27	0.11	35,844	35,844	35,844		0			
13	4				0.27	0.11	35,844	35,844	35,844		0			
14	5				0.27	0.11	35,844	35,844	35,844		0			
15	6				0.27	0.11	35,844	35,844	35,844		0			
16	7				0.27	0.11	35,844	35,844	35,844		0			
17	8				0.27	0.11	35,844	35,844	35,844		0			
18	9				0.27	0.11	35,844	35,844	35,844		0			
19	10				0.27	0.11	35,844	35,844	35,844		0			
20	11				0.27	0.11	35,844	35,844	35,844		0			
21	12				0.27	0.11	35,844	35,844	35,844		0			
22	13				0.27	0.11	35,844	35,844	35,844		0			
23	14				0.27	0.11	35,844	35,844	35,844		0			
24	15				0.27	0.11	35,844	35,844	35,844		0			
25	16				0.27	0.11	35,844	35,844	35,844		0			
26	17				0.27	0.11	35,844	35,844	35,844		0			
27	18				0.27	0.11	35,844	35,844	35,844		0			
28	19				0.27	0.11	35,844	35,844	35,844		0			
29	20				0.27	0.11	35,844	35,844	35,844		0			
30	21				0.27	0.11	35,844	35,844	35,844		0			
31	22				0.27	0.11	35,844	35,844	35,844		0			
32	23				0.27	0.11	35,844	35,844	35,844		0			
33	24				0.27	0.11	35,844	35,844	35,844		0			
34	25				0.27	0.11	35,844	35,844	35,844		0			
35	26				0.27	0.11	35,844	35,844	35,844		0			
36	27				0.27	0.11	35,844	35,844	35,844		0			
37	28				0.27	0.11	35,844	35,844	35,844		0			
38	29				0.27	0.11	35,844	35,844	35,844		0			
39	30				0.27	0.11	35,844	35,844	35,844		0			
40														
41														
42	Total (ac-ft)	0.00	0.00	0.00	3.24	3.30	3.30	3.30	3.30					
43	Total (gal)	0	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320					

Signed: _____
Date: _____

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	May - Monthly Tab													
4														
5														
6	Lake Surface Area (acres)				4.80									
7	Pan Factor				0.60									
8														
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.29	0.12	39,102	39,102	39,102		0			
11	2				0.29	0.12	39,102	39,102	39,102		0			
12	3				0.29	0.12	39,102	39,102	39,102		0			
13	4				0.29	0.12	39,102	39,102	39,102		0			
14	5				0.29	0.12	39,102	39,102	39,102		0			
15	6				0.29	0.12	39,102	39,102	39,102		0			
16	7				0.29	0.12	39,102	39,102	39,102		0			
17	8				0.29	0.12	39,102	39,102	39,102		0			
18	9				0.29	0.12	39,102	39,102	39,102		0			
19	10				0.29	0.12	39,102	39,102	39,102		0			
20	11				0.29	0.12	39,102	39,102	39,102		0			
21	12				0.29	0.12	39,102	39,102	39,102		0			
22	13				0.29	0.12	39,102	39,102	39,102		0			
23	14				0.29	0.12	39,102	39,102	39,102		0			
24	15				0.29	0.12	39,102	39,102	39,102		0			
25	16				0.29	0.12	39,102	39,102	39,102		0			
26	17				0.29	0.12	39,102	39,102	39,102		0			
27	18				0.29	0.12	39,102	39,102	39,102		0			
28	19				0.29	0.12	39,102	39,102	39,102		0			
29	20				0.29	0.12	39,102	39,102	39,102		0			
30	21				0.29	0.12	39,102	39,102	39,102		0			
31	22				0.29	0.12	39,102	39,102	39,102		0			
32	23				0.29	0.12	39,102	39,102	39,102		0			
33	24				0.29	0.12	39,102	39,102	39,102		0			
34	25				0.29	0.12	39,102	39,102	39,102		0			
35	26				0.29	0.12	39,102	39,102	39,102		0			
36	27				0.29	0.12	39,102	39,102	39,102		0			
37	28				0.29	0.12	39,102	39,102	39,102		0			
38	29				0.29	0.12	39,102	39,102	39,102		0			
39	30				0.29	0.12	39,102	39,102	39,102		0			
40	31				0.29	0.12	39,102	39,102	39,102		0			
41														
42	Total (ac-ft)	0.00	0.00	0.00	3.60	3.72	3.72	3.72	3.72					
43	Total (gal)	0	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162					

Signed: _____
Date: _____

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	June - Monthly Tab													
4														
5														
6			Lake Surface Area (acres)		4.80									Signed: _____
7			Pan Factor		0.67									Date: _____
8														
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.37	0.15	48,878	48,878	48,878		0			
11	2				0.37	0.15	48,878	48,878	48,878		0			
12	3				0.37	0.15	48,878	48,878	48,878		0			
13	4				0.37	0.15	48,878	48,878	48,878		0			
14	5				0.37	0.15	48,878	48,878	48,878		0			
15	6				0.37	0.15	48,878	48,878	48,878		0			
16	7				0.37	0.15	48,878	48,878	48,878		0			
17	8				0.37	0.15	48,878	48,878	48,878		0			
18	9				0.37	0.15	48,878	48,878	48,878		0			
19	10				0.37	0.15	48,878	48,878	48,878		0			
20	11				0.37	0.15	48,878	48,878	48,878		0			
21	12				0.37	0.15	48,878	48,878	48,878		0			
22	13				0.37	0.15	48,878	48,878	48,878		0			
23	14				0.37	0.15	48,878	48,878	48,878		0			
24	15				0.37	0.15	48,878	48,878	48,878		0			
25	16				0.37	0.15	48,878	48,878	48,878		0			
26	17				0.37	0.15	48,878	48,878	48,878		0			
27	18				0.37	0.15	48,878	48,878	48,878		0			
28	19				0.37	0.15	48,878	48,878	48,878		0			
29	20				0.37	0.15	48,878	48,878	48,878		0			
30	21				0.37	0.15	48,878	48,878	48,878		0			
31	22				0.37	0.15	48,878	48,878	48,878		0			
32	23				0.37	0.15	48,878	48,878	48,878		0			
33	24				0.37	0.15	48,878	48,878	48,878		0			
34	25				0.37	0.15	48,878	48,878	48,878		0			
35	26				0.37	0.15	48,878	48,878	48,878		0			
36	27				0.37	0.15	48,878	48,878	48,878		0			
37	28				0.37	0.15	48,878	48,878	48,878		0			
38	29				0.37	0.15	48,878	48,878	48,878		0			
39	30				0.37	0.15	48,878	48,878	48,878		0			
40														
41														
42	Total (ac-ft)	0.00	0.00	0.00	4.44	4.50	4.50	4.50	4.50					
43	Total (gal)	0	0	0	1,446,778	1,466,330	1,466,340	1,466,340	1,466,340					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	July - Monthly Tab													
4														
5														
6			Lake Surface Area (acres)		4.80									Signed: _____
7			Pan Factor		0.69									Date: _____
8														
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.42	0.17	55,395	55,395	55,395		0			
11	2				0.42	0.17	55,395	55,395	55,395		0			
12	3				0.42	0.17	55,395	55,395	55,395		0			
13	4				0.42	0.17	55,395	55,395	55,395		0			
14	5				0.42	0.17	55,395	55,395	55,395		0			
15	6				0.42	0.17	55,395	55,395	55,395		0			
16	7				0.42	0.17	55,395	55,395	55,395		0			
17	8				0.42	0.17	55,395	55,395	55,395		0			
18	9				0.42	0.17	55,395	55,395	55,395		0			
19	10				0.42	0.17	55,395	55,395	55,395		0			
20	11				0.42	0.17	55,395	55,395	55,395		0			
21	12				0.42	0.17	55,395	55,395	55,395		0			
22	13				0.42	0.17	55,395	55,395	55,395		0			
23	14				0.42	0.17	55,395	55,395	55,395		0			
24	15				0.42	0.17	55,395	55,395	55,395		0			
25	16				0.42	0.17	55,395	55,395	55,395		0			
26	17				0.42	0.17	55,395	55,395	55,395		0			
27	18				0.42	0.17	55,395	55,395	55,395		0			
28	19				0.42	0.17	55,395	55,395	55,395		0			
29	20				0.42	0.17	55,395	55,395	55,395		0			
30	21				0.42	0.17	55,395	55,395	55,395		0			
31	22				0.42	0.17	55,395	55,395	55,395		0			
32	23				0.42	0.17	55,395	55,395	55,395		0			
33	24				0.42	0.17	55,395	55,395	55,395		0			
34	25				0.42	0.17	55,395	55,395	55,395		0			
35	26				0.42	0.17	55,395	55,395	55,395		0			
36	27				0.42	0.17	55,395	55,395	55,395		0			
37	28				0.42	0.17	55,395	55,395	55,395		0			
38	29				0.42	0.17	55,395	55,395	55,395		0			
39	30				0.42	0.17	55,395	55,395	55,395		0			
40	31				0.42	0.17	55,395	55,395	55,395		0			
41														
42	Total (ac-ft)	0.00	0.00	0.00	5.21	5.27	5.27	5.27	5.27					
43	Total (gal)	0	0	0	1,697,032	1,717,235	1,717,245	1,717,245	1,717,245					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	August - Monthly Tab													
4														
5														
6	Lake Surface Area (acres) 4.80													
7	Pan Factor 0.7													
8	Signed: _____ Date: _____													
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.38	0.15	48,878	48,878	48,878		0			
11	2				0.38	0.15	48,878	48,878	48,878		0			
12	3				0.38	0.15	48,878	48,878	48,878		0			
13	4				0.38	0.15	48,878	48,878	48,878		0			
14	5				0.38	0.15	48,878	48,878	48,878		0			
15	6				0.38	0.15	48,878	48,878	48,878		0			
16	7				0.38	0.15	48,878	48,878	48,878		0			
17	8				0.38	0.15	48,878	48,878	48,878		0			
18	9				0.38	0.15	48,878	48,878	48,878		0			
19	10				0.38	0.15	48,878	48,878	48,878		0			
20	11				0.38	0.15	48,878	48,878	48,878		0			
21	12				0.38	0.15	48,878	48,878	48,878		0			
22	13				0.38	0.15	48,878	48,878	48,878		0			
23	14				0.38	0.15	48,878	48,878	48,878		0			
24	15				0.38	0.15	48,878	48,878	48,878		0			
25	16				0.38	0.15	48,878	48,878	48,878		0			
26	17				0.38	0.15	48,878	48,878	48,878		0			
27	18				0.38	0.15	48,878	48,878	48,878		0			
28	19				0.38	0.15	48,878	48,878	48,878		0			
29	20				0.38	0.15	48,878	48,878	48,878		0			
30	21				0.38	0.15	48,878	48,878	48,878		0			
31	22				0.38	0.15	48,878	48,878	48,878		0			
32	23				0.38	0.15	48,878	48,878	48,878		0			
33	24				0.38	0.15	48,878	48,878	48,878		0			
34	25				0.38	0.15	48,878	48,878	48,878		0			
35	26				0.38	0.15	48,878	48,878	48,878		0			
36	27				0.38	0.15	48,878	48,878	48,878		0			
37	28				0.38	0.15	48,878	48,878	48,878		0			
38	29				0.38	0.15	48,878	48,878	48,878		0			
39	30				0.38	0.15	48,878	48,878	48,878		0			
40	31				0.38	0.15	48,878	48,878	48,878		0			
41														
42	Total (ac-ft)	0.00	0.00	0.00	4.71	4.65	4.65	4.65	4.65					
43	Total (gal)	0	0	0	1,535,410	1,515,207	1,515,218	1,515,218	1,515,218					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dove Pond (Golf Course Pond)													
2	Water Accounting Record													
3	September - Monthly Tab													
4														
5														
6	Lake Surface Area (acres)				4.80									
7	Pan Factor				0.73									
8														
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments		
10	1				0.30	0.12	39,102	39,102	39,102		0			
11	2				0.30	0.12	39,102	39,102	39,102		0			
12	3				0.30	0.12	39,102	39,102	39,102		0			
13	4				0.30	0.12	39,102	39,102	39,102		0			
14	5				0.30	0.12	39,102	39,102	39,102		0			
15	6				0.30	0.12	39,102	39,102	39,102		0			
16	7				0.30	0.12	39,102	39,102	39,102		0			
17	8				0.30	0.12	39,102	39,102	39,102		0			
18	9				0.30	0.12	39,102	39,102	39,102		0			
19	10				0.30	0.12	39,102	39,102	39,102		0			
20	11				0.30	0.12	39,102	39,102	39,102		0			
21	12				0.30	0.12	39,102	39,102	39,102		0			
22	13				0.30	0.12	39,102	39,102	39,102		0			
23	14				0.30	0.12	39,102	39,102	39,102		0			
24	15				0.30	0.12	39,102	39,102	39,102		0			
25	16				0.30	0.12	39,102	39,102	39,102		0			
26	17				0.30	0.12	39,102	39,102	39,102		0			
27	18				0.30	0.12	39,102	39,102	39,102		0			
28	19				0.30	0.12	39,102	39,102	39,102		0			
29	20				0.30	0.12	39,102	39,102	39,102		0			
30	21				0.30	0.12	39,102	39,102	39,102		0			
31	22				0.30	0.12	39,102	39,102	39,102		0			
32	23				0.30	0.12	39,102	39,102	39,102		0			
33	24				0.30	0.12	39,102	39,102	39,102		0			
34	25				0.30	0.12	39,102	39,102	39,102		0			
35	26				0.30	0.12	39,102	39,102	39,102		0			
36	27				0.30	0.12	39,102	39,102	39,102		0			
37	28				0.30	0.12	39,102	39,102	39,102		0			
38	29				0.30	0.12	39,102	39,102	39,102		0			
39	30				0.30	0.12	39,102	39,102	39,102		0			
40														
41														
42	Total (ac-ft)	0.00	0.00	0.00	3.60	3.60	3.60	3.60	3.60					
43	Total (gal)	0	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060					

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div>Dove Pond (Golf Course Pond)</div> <div>Water Accounting Record</div> <div>October - Monthly Tab</div> <div><div>Lake Surface Area (acres)</div><div>Pan Factor</div><div>4.80</div><div>0.77</div></div> <div><div>Signed: _____</div><div>Date: _____</div></div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	1				0.22	0.09	29,327	29,327	29,327		0	
11	2				0.22	0.09	29,327	29,327	29,327		0	
12	3				0.22	0.09	29,327	29,327	29,327		0	
13	4				0.22	0.09	29,327	29,327	29,327		0	
14	5				0.22	0.09	29,327	29,327	29,327		0	
15	6				0.22	0.09	29,327	29,327	29,327		0	
16	7				0.22	0.09	29,327	29,327	29,327		0	
17	8				0.22	0.09	29,327	29,327	29,327		0	
18	9				0.22	0.09	29,327	29,327	29,327		0	
19	10				0.22	0.09	29,327	29,327	29,327		0	
20	11				0.22	0.09	29,327	29,327	29,327		0	
21	12				0.22	0.09	29,327	29,327	29,327		0	
22	13				0.22	0.09	29,327	29,327	29,327		0	
23	14				0.22	0.09	29,327	29,327	29,327		0	
24	15				0.22	0.09	29,327	29,327	29,327		0	
25	16				0.22	0.09	29,327	29,327	29,327		0	
26	17				0.22	0.09	29,327	29,327	29,327		0	
27	18				0.22	0.09	29,327	29,327	29,327		0	
28	19				0.22	0.09	29,327	29,327	29,327		0	
29	20				0.22	0.09	29,327	29,327	29,327		0	
30	21				0.22	0.09	29,327	29,327	29,327		0	
31	22				0.22	0.09	29,327	29,327	29,327		0	
32	23				0.22	0.09	29,327	29,327	29,327		0	
33	24				0.22	0.09	29,327	29,327	29,327		0	
34	25				0.22	0.09	29,327	29,327	29,327		0	
35	26				0.22	0.09	29,327	29,327	29,327		0	
36	27				0.22	0.09	29,327	29,327	29,327		0	
37	28				0.22	0.09	29,327	29,327	29,327		0	
38	29				0.22	0.09	29,327	29,327	29,327		0	
39	30				0.22	0.09	29,327	29,327	29,327		0	
40	31				0.22	0.09	29,327	29,327	29,327		0	
41												
42	Total (ac-ft)	0.00	0.00	0.00	2.73	2.79	2.79	2.79	2.79			
43	Total (gal)	0	0	0	888,922	909,124	909,137	909,137	909,137			

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record November - Monthly Tab <div> <div>Lake Surface Area (acres)</div> <div>4.80</div> </div> <div> <div>Pan Factor</div> <div>0.8</div> </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
10	1				0.15	0.06	19,551	19,551	19,551		0	
11	2				0.15	0.06	19,551	19,551	19,551		0	
12	3				0.15	0.06	19,551	19,551	19,551		0	
13	4				0.15	0.06	19,551	19,551	19,551		0	
14	5				0.15	0.06	19,551	19,551	19,551		0	
15	6				0.15	0.06	19,551	19,551	19,551		0	
16	7				0.15	0.06	19,551	19,551	19,551		0	
17	8				0.15	0.06	19,551	19,551	19,551		0	
18	9				0.15	0.06	19,551	19,551	19,551		0	
19	10				0.15	0.06	19,551	19,551	19,551		0	
20	11				0.15	0.06	19,551	19,551	19,551		0	
21	12				0.15	0.06	19,551	19,551	19,551		0	
22	13				0.15	0.06	19,551	19,551	19,551		0	
23	14				0.15	0.06	19,551	19,551	19,551		0	
24	15				0.15	0.06	19,551	19,551	19,551		0	
25	16				0.15	0.06	19,551	19,551	19,551		0	
26	17				0.15	0.06	19,551	19,551	19,551		0	
27	18				0.15	0.06	19,551	19,551	19,551		0	
28	19				0.15	0.06	19,551	19,551	19,551		0	
29	20				0.15	0.06	19,551	19,551	19,551		0	
30	21				0.15	0.06	19,551	19,551	19,551		0	
31	22				0.15	0.06	19,551	19,551	19,551		0	
32	23				0.15	0.06	19,551	19,551	19,551		0	
33	24				0.15	0.06	19,551	19,551	19,551		0	
34	25				0.15	0.06	19,551	19,551	19,551		0	
35	26				0.15	0.06	19,551	19,551	19,551		0	
36	27				0.15	0.06	19,551	19,551	19,551		0	
37	28				0.15	0.06	19,551	19,551	19,551		0	
38	29				0.15	0.06	19,551	19,551	19,551		0	
39	30				0.15	0.06	19,551	19,551	19,551		0	
40											0	
41												
42	Total (ac-ft)	0.00	0.00	0.00	1.80	1.80	1.80	1.80	1.80			
43	Total (gal)	0	0	0	586,532	586,532	586,530	586,530	586,530			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record December - Monthly Tab </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Supplemental Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Daily Surplus/Shortage of Supplemental Groundwater (gal)	Weekly Cumulative Balance of Required Supplemental Groundwater (gal)	Comments
9												
10	1				0.11	0.04	13,034	13,034	13,034		0	
11	2				0.11	0.04	13,034	13,034	13,034		0	
12	3				0.11	0.04	13,034	13,034	13,034		0	
13	4				0.11	0.04	13,034	13,034	13,034		0	
14	5				0.11	0.04	13,034	13,034	13,034		0	
15	6				0.11	0.04	13,034	13,034	13,034		0	
16	7				0.11	0.04	13,034	13,034	13,034		0	
17	8				0.11	0.04	13,034	13,034	13,034		0	
18	9				0.11	0.04	13,034	13,034	13,034		0	
19	10				0.11	0.04	13,034	13,034	13,034		0	
20	11				0.11	0.04	13,034	13,034	13,034		0	
21	12				0.11	0.04	13,034	13,034	13,034		0	
22	13				0.11	0.04	13,034	13,034	13,034		0	
23	14				0.11	0.04	13,034	13,034	13,034		0	
24	15				0.11	0.04	13,034	13,034	13,034		0	
25	16				0.11	0.04	13,034	13,034	13,034		0	
26	17				0.11	0.04	13,034	13,034	13,034		0	
27	18				0.11	0.04	13,034	13,034	13,034		0	
28	19				0.11	0.04	13,034	13,034	13,034		0	
29	20				0.11	0.04	13,034	13,034	13,034		0	
30	21				0.11	0.04	13,034	13,034	13,034		0	
31	22				0.11	0.04	13,034	13,034	13,034		0	
32	23				0.11	0.04	13,034	13,034	13,034		0	
33	24				0.11	0.04	13,034	13,034	13,034		0	
34	25				0.11	0.04	13,034	13,034	13,034		0	
35	26				0.11	0.04	13,034	13,034	13,034		0	
36	27				0.11	0.04	13,034	13,034	13,034		0	
37	28				0.11	0.04	13,034	13,034	13,034		0	
38	29				0.11	0.04	13,034	13,034	13,034		0	
39	30				0.11	0.04	13,034	13,034	13,034		0	
40	31				0.11	0.04	13,034	13,034	13,034		0	
41												Carry Value to Next Year's Accounting Plan
42	Total (ac-ft)	0.00	0.00	0.00	1.36	1.24	1.24	1.24	1.24			
43	Total (gal)	0	0	0	444,461	404,055	404,054	404,054	404,054			

Dove Pond (Golf Course Pond)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Pen Lake Factor Tab
TWDB Link
<https://waterdatafor.texas.org/lake-evaporation-rainfall>

Texas Water Development Board													
Monthly Pen Factor Used (a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, aa, ab, ac, ad, ae, af, ag, ah, ai, aj, ak, al, am, an, ao, ap, aq, ar, as, at, au, av, aw, ax, ay, az, ba, bb, bc, bd, be, bf, bg, bh, bi, bj, bk, bl, bm, bn, bo, bp, bq, br, bs, bt, bu, bv, bw, bx, by, bz, ca, cb, cc, cd, ce, cf, cg, ch, ci, cj, ck, cl, cm, cn, co, cp, cq, cr, cs, ct, cu, cv, cw, cx, cy, cz, da, db, dc, dd, de, df, dg, dh, di, dj, dk, dl, dm, dn, do, dp, dq, dr, ds, dt, du, dv, dw, dx, dy, dz, ea, eb, ec, ed, ee, ef, eg, eh, ei, ej, ek, el, em, en, eo, ep, eq, er, es, et, eu, ev, ew, ex, ey, ez, fa, fb, fc, fd, fe, ff, fg, fh, fi, fj, fk, fl, fm, fn, fo, fp, fq, fr, fs, ft, fu, fv, fw, fx, fy, fz, ga, gb, gc, gd, ge, gf, gg, gh, gi, gj, gk, gl, gm, gn, go, gp, gq, gr, gs, gt, gu, gv, gw, gx, gy, gz, ha, hb, hc, hd, he, hf, hg, hh, hi, hj, hk, hl, hm, hn, ho, hp, hq, hr, hs, ht, hu, hv, hw, hx, hy, hz, ia, ib, ic, id, ie, if, ig, ih, ii, ij, ik, il, im, in, io, ip, iq, ir, is, it, iu, iv, iw, ix, iy, iz, ja, jb, jc, jd, je, jf, jg, jh, ji, jj, jk, jl, jm, jn, jo, jp, jq, jr, js, jt, ju, jv, jw, jx, jy, jz, ka, kb, kc, kd, ke, kf, kg, kh, ki, kj, kk, kl, km, kn, ko, kp, kq, kr, ks, kt, ku, kv, kw, kx, ky, kz, la, lb, lc, ld, le, lf, lg, lh, li, lj, lk, ll, lm, ln, lo, lp, lq, lr, ls, lt, lu, lv, lw, lx, ly, lz, ma, mb, mc, md, me, mf, mg, mh, mi, mj, mk, ml, mm, mn, mo, mp, mq, mr, ms, mt, mu, mv, mw, mx, my, mz, na, nb, nc, nd, ne, nf, ng, nh, ni, nj, nk, nl, nm, nn, no, np, nq, nr, ns, nt, nu, nv, nw, nx, ny, nz, oa, ob, oc, od, oe, of, og, oh, oi, oj, ok, ol, om, on, oo, op, oq, or, os, ot, ou, ov, ow, ox, oy, oz, pa, pb, pc, pd, pe, pf, pg, ph, pi, pj, pk, pl, pm, pn, po, pp, pq, pr, ps, pt, pu, pv, pw, px, py, pz, qa, qb, qc, qd, qe, qf, qg, qh, qi, qj, qk, ql, qm, qn, qo, qp, qq, qr, qs, qt, qu, qv, qw, qx, qy, qz, ra, rb, rc, rd, re, rf, rg, rh, ri, rj, rk, rl, rm, rn, ro, rp, rq, rr, rs, rt, ru, rv, rw, rx, ry, rz, sa, sb, sc, sd, se, sf, sg, sh, si, sj, sk, sl, sm, sn, so, sp, sq, sr, ss, st, su, sv, sw, sx, sy, sz, ta, tb, tc, td, te, tf, tg, th, ti, tj, tk, tl, tm, tn, to, tp, tq, tr, ts, tt, tu, tv, tw, tx, ty, tz, ua, ub, uc, ud, ue, uf, ug, uh, ui, uj, uk, ul, um, un, uo, up, uq, ur, us, ut, uu, uv, uw, ux, uy, uz, va, vb, vc, vd, ve, vf, vg, vh, vi, vj, vk, vl, vm, vn, vo, vp, vq, vr, vs, vt, vu, vv, vw, vx, vy, vz, wa, wb, wc, wd, we, wf, wg, wh, wi, wj, wk, wl, wm, wn, wo, wp, wq, wr, ws, wt, wu, wv, ww, wx, wy, wz, xa, xb, xc, xd, xe, xf, xg, xh, xi, xj, xk, xl, xm, xn, xo, xp, xq, xr, xs, xt, xu, xv, xw, xx, xy, xz, ya, yb, yc, yd, ye, yf, yg, yh, yi, yj, yk, yl, ym, yn, yo, yp, yq, yr, ys, yt, yu, yv, yw, yx, yy, yz, za, zb, zc, zd, ze, zf, zg, zh, zi, zj, zk, zl, zm, zn, zo, zp, zq, zr, zs, zt, zu, zv, zw, zx, zy, zz													
Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
411	0.74	0.73	0.7	0.7	0.68	0.63	0.68	0.7	0.71	0.74	0.78	0.81	0.73
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
507	0.72	0.69	0.68	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
508	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
509	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
510	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
511	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
512	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.68	0.69	0.72	0.75	0.72	0.67
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611	0.74	0.73	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.73
612	0.75	0.72	0.71	0.69	0.63	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.68	0.69	0.72	0.75	0.72	0.67
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
712	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
713	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
714	0.76	0.74	0.74	0.74	0.7	0.74	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.73	0.73	0.7	0.65	0.7	0.73	0.73	0.75	0.78	0.79	0.78	0.73
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.74	0.7	0.74	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.73	0.73	0.7	0.65	0.7	0.73	0.73	0.75	0.78	0.79	0.78	0.73
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68

Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Evap Tab

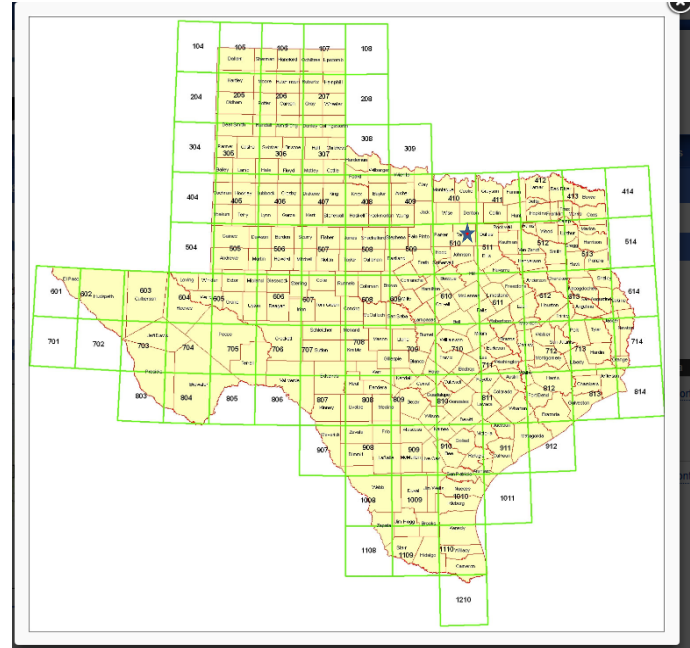
EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board

Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.86	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510	1955	2.02	2.52	4.45	5.85	6.12	7.12	8.94	8.03	7.05	6.39	4.92	2.92	66.33
510	1956	2.61	2.67	5.57	6.00	6.92	9.20	11.41	11.42	9.26	6.56	3.95	3.07	78.64
510	1957	2.03	1.86	3.21	3.03	3.72	6.29	9.21	9.45	6.06	3.91	2.22	2.91	53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.80	7.42	7.11	4.77	2.77	1.97	58.66
510	1962	1.61	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.35	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510	1965	2.35	2.22	2.92	4.89	3.49	6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510	1966	1.54	1.83	4.48	4.81	4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.56	5.75	5.78	8.03	8.19	8.95	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.86	2.64	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510	1974	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510	1975	2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	50.69
510	1976	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	5.25	2.14	2.28	52.97
510	1977	1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	3.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.63	4.98	8.43	7.69	5.74	5.74	3.49	3.13	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	58.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.54	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.53	1.95	56.54
510	1992	1.35	2.31	3.79	4.22	4.01	5.73	7.65	8.27	5.82	5.10	2.70	1.72	59.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	8.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	8.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.75	6.95	4.82	4.22	3.75	3.38	53.73
510	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.21
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.86	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

75th Percentile: 2.48 2.95 4.53 5.40 5.39 7.38 9.04 8.35 6.57 5.14 3.52 2.74 60.22




Independence_Water_13823_Technical_RFI_No.2

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

Mon 4/10/2023 12:11 PM

To: Lindi Weber <[REDACTED]>

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

 1 attachments (298 KB)

Independence_Water_13823_Technical_RFI2_Sent_04.10.2023.pdf;

Ms. Weber,

Attached is a Second Technical Request for Information for Independence Water, L.P. and H.W. 2421 Land, LP Application No. 13823.

Response is due COB Wednesday, May 10, 2023.

If you have any 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

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Erin E. Chancellor, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 10, 2023

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code §§ 11.042, 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

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

Staff reviewed the accounting plan, Dove Pond (Golf Course Pond) Water Accounting Record, dated December 12, 2022, and determined that the accounting plan will need to be revised, as discussed below, before staff can complete the 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 reconcile the amount of groundwater added to the reservoir with the amount needed on a weekly or biweekly basis. Staff recognizes that the Calculated Net Inflow (Column G) tracks if there has been enough groundwater discharged monthly; however, the accounting plan should record if previous weekly or biweekly depletions are accounted for by supplemental groundwater within the next weekly or biweekly period. Any additional groundwater pumped to cover a previous week or biweekly's deficit should not affect the current week or biweekly's surplus/deficit calculations.
2. Update Columns F and G in the Annual Worksheet to calculate the monthly and annual totals.
3. Correct the text document as follows:
 - a. Replace "51.7" with "57.1" in the second bullet of the Introduction section (Page 1 of 9).
 - b. Correct the following for Column G of the Monthly Tabs (page 5 of 9):
 - i. Add "from" after "subtracting" so that it states "subtracting from the default evaporation" in the first sentence.

Ms. Lindi Weber
Peloton Land Solutions
Application No. 13823
April 10, 2023
Page 2 of 2

- ii. Revise the formula in the second sentence. Staff notes the nested formula is described incorrectly.

Please provide the requested information by May 10, 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 May 10, 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, Ph.D.	TO: Lindi Weber Westwood Env.
Phone: (817) 562-3350	Document: WRPERM 13823 Independence Water L.P. and HW 2421 Land LP
Date: March 11, 2024	RE: Draft Permit Status Update

Updated Ms. Weber on the status of the draft permit.

Lillian E. Beerman, Ph.D. March 11, 2024

RE: Independence_Water_13823_Request_for_Information

Lindi Weber [REDACTED]

Thu 3/9/2023 7:42 AM

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

Thanks for the update.



www.pelotonland.com

TBPE Firm No. 12207 | TBPLS Firm No. 10177700

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Wednesday, March 8, 2023 6:27 PM
To: Lindi Weber <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Independence_Water_13823_Request_for_Information

Ms. Weber,

I shared your concerns with the Technical Staff. A second Technical Request for Information is currently under Section review.

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

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RE: Independence_Water_and_HW_2421_Land_13823_Conference_Mtg

Lindi Weber [REDACTED]

Thu 2/23/2023 9:03 AM

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

Lillian,

We had the call with the TCEQ team last Friday afternoon. They had indicated that if we could provide them with the needed information by the end of this week, they would not have to issue another RFI. Unfortunately, due to our current workloads, we won't be able to provide that information this week.

Could you let the team know that and provide us an formal RFI at your earliest convenience?

Thanks,

Lindi



FORT WORTH OFFICE

9 Hillwood Parkway, Suite 250, [REDACTED]
Fort Worth, Texas 76177

[REDACTED]
[o] 817.562.335
[c] 14.-58.575

www.pelotonland.com

TBPE Firm No. 12207 | TBPLS Firm No. 10177700

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RE: Independence_Water_and_HW_2421_Land_13823_Conference_Mtg

Lindi Weber <[REDACTED]>

Wed 2/1/2023 7:58 AM

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

Lillian,

February 17 after noon, works best for us.

Thanks,

Lindi

 **PELOTON**
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

Lindi Weber
[e] [REDACTED]
[o] [REDACTED]
[c] 214.458.5757

www.pelotonland.com

TBPE Firm No. 12207 | TBPLS Firm No. 10177700

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

Sent: Tuesday, January 31, 2023 10:32 PM

To: Lindi Weber <[REDACTED]>

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

Subject: Re: Independence_Water_and_HW_2421_Land_13823_Conference_Mtg

Ms. Weber,

Schedules are getting tight. Here are some options:

- Thursday, February 9: After 3:30
- Tuesday, February 14: 1:30 to 2:30
- Wednesday, February 15: 3 to 5
- Friday, February 17: after 12 noon

Let me know what works for you and your team. I will send out to our team for confirmation.

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: Tuesday, January 31, 2023 3:10 PM
To: Lindi Weber <[REDACTED]>
Subject: Re: Independence_Water_and_HW_2421_Land_13823_Conference_Mtg

Okay. I have another meeting now. But after 4.
Thank you

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

From: Lindi Weber <[REDACTED]>
Sent: Tuesday, January 31, 2023 3:07 PM
To: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: RE: Independence_Water_and_HW_2421_Land_13823_Conference_Mtg

Lillian,

Can you give me a timeframe when your staff would be available? It times past, it has seemed like their schedules are more restrictive then on our side.

Thanks,
Lindi

 **PELOTON** | Lindi Weber
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

[e] [REDACTED]
[o] 817.382.3300
[c] 214.458.5757

www.pelotonland.com
TSPE Firm No. 12207 | TBPLS Firm No. 10177700

From: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Sent: Tuesday, January 31, 2023 2:38 PM
To: Lindi Weber <[REDACTED]>
Cc: Lillian Beerman <Lillian.Beerman@Tceq.Texas.Gov>
Subject: Independence_Water_and_HW_2421_Land_13823_Conference_Mtg

Ms. Weber,
The Hydrology Staff has requested that we meet again to discuss the accounting plan for application no. 13823 for a water use permit.

Would you provide me with some appropriate times to schedule a TEAMS Meeting. If you wish I can give you a call this afternoon.

Thank you,

Lillian E. Beerman, Ph.D.

Water Rights Permitting Team

Water Availability Division

512-239-4019

lillian.beerman@tceq.texas.gov

RE: Independence_Water_13823_Tech_RFI_Extension_12.05.2022

Lindi Weber <[REDACTED]>

Mon 12/12/2022 11:06 AM

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

📎 2 attachments (3 MB)

FINAL RFI Response WRPERM 13823 CTR WAP.pdf; Accounting Plan_Dove Pond_Revised 12052022.xlsx;

Lillian,

Please see the attached response to the RFI and an electronic copy of the revised Accounting Plan. Please let me know if you need anything else.

Thanks,

Lindi

 **PELOTON**
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

Lindi Weber

[e] [REDACTED]
[o] 817.562.3350
[c] 214.458.5757

www.pelotonland.com

TSPE Firm No. 12207 | TBPLS Firm No. 10177700

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

Sent: Monday, December 5, 2022 10:44 AM

To: Lindi Weber [REDACTED]

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

Subject: Independence_Water_13823_Tech_RFI_Extension_12.05.2022

Ms. Weber,

An extension has been granted to Independence Water, LP and HW 2421 Land, LP. The new due date for the Applicant's response to the Technical Request for Information is January 2, 2023.

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



December 12, 2022

Ms. Lillian E. Beerman
Project Manager, Water Rights Permitting Team
Water Rights Permitting and Availability Section
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Administrative Code § 11.143 Requiring Limited Mailed Notice
Unnamed Tributary of Marshall Branch, Trinity River Basin
Tarrant County

Ms. Beerman,

On behalf of Independence Water, L.P. and HW 2421 Land, L.P., we are providing the following response to your letter dated November 2, 2022. A 30-day extension to the deadline for response by December 2, 2022, was granted in a letter dated December 5, 2022.

Comment #1 – Confirm the amount of groundwater to be conveyed and subsequently diverted from the reservoir.

The total amount of water to be used annually is 79 acre-feet/year. The number includes 21.9 acre-feet impounded at a normal operating level by the pond. Our calculated net loss per year is 34 acre-feet. An amount of 57.1 acre-feet of make-up water will be discharged into the pond annually, which will equate to 23.1 acre-feet of irrigation water that can be diverted from the pond for irrigation.

From the conference call with the TCEQ hydrology team members on November 30, 2022, our original calculation provided in Worksheet 4.1.a was causing some confusion with our calculations. We have changed the amount of water that will be discharged to 57.1 acre-feet per year. A copy of the revised Worksheet 4.1 is included in **Attachment A**.

Comment #2 – Describe how the accounting plan reconciles the amount of supplement groundwater needed with the amount discharged.

Please refer back to the description of Column I given on Page 5 of the accounting plan. The intent of Column I is to allow the user an opportunity to review if an adequate amount of groundwater is being discharged, and if not, allow the user time to increase supplemental groundwater volumes into the system to meet the requirements of the permit before the month ends.

Additionally, the total acre-feet and gallons were removed for Columns H and I. The user needs to make sure that the total for Column G (Calculated Net Inflow) is a negative number at the end of each month to meet the requirements of the permit.

An example scenario using the month of June is provided in **Attachment B**. In the scenario, during the month of June, 100,000 gallons of diversion volume is necessary for irrigation purposes. During the first seven days in June, 148,000 gallons of groundwater were pumped into the pond. This resulted in a deficit of 6,146 gallons of calculated net inflow into the system. In light of this, the volume of groundwater pumped into the pond was increased to 155,000 gallons on Day 8. The volume of groundwater pumped into the pond from Day 9 to 30 was increased to 149,000 gallons resulting in -0.01 ac-feet (-2,660 gallons) of calculated net inflow into the system in June.

Comment #3 – Revise the accounting plan such that groundwater discharged to make up for supplemental groundwater needed is not included within Column C.

This comment should be addressed with the changes referenced above. The information provided in Column C is only the volume (in gallons) discharged into the pond. The information for supplemental groundwater needs (Column I) should be used by the user as a reference to review to see if an adequate amount of groundwater is being discharged into the system. See the explanation of Column I on Page 5 of the accounting plan, which has been revised to exclude the statement that supplemental groundwater is included in Column C.

Comment #4 – Correct the text document as follows:

- a. *Replace 20120 with 2020 in the first paragraph in the Elements of the Accounting Plan section (Page 1 of 25).*
- b. *Replace 13619 with 13813 in the second paragraph of the Annual Tab section (Page 2 of 25).*
- c. *Revise the following text descriptions for the Annual Tab:*
 - i. *Revise the reference in the Column D description from “Cell D41” to “Cell F41” (Page 3 of 25);*
 - ii. *Revise the reference in the Column D description from “Column E” to “Column F” (Page 3 of 25);*
 - iii. *Revise the reference in the Column E description from “Cell E41” to Cell G41” (Page 3 of 25);*
 - iv. *Revise the reference in Column E description from “Column F” to “Column G” (Page 3 of 25);*
 - v. *Revise the reference in Column F description from “Column G” to “Column H” (Page 3 of 25);*
and
 - vi. *Revise the reference in Column F description from “Column H” to “Column I” (Page 3 of 25).*

d. *Revise the following text descriptions for the Monthly Tabs:*

- i. *Revise the paragraph describing the number of columns in each monthly tab. Staff notes the description describes nine columns when there are ten (Page 4 of 25);*
- ii. *Revise the reference in Column F description from "Column F" with Column E" (Page 5 of 25);*
- iii. *Revise the title of "Column G" to be consistent with the text description (Page 5 of 25);*
- iv. *Replace "Column IH" with "Column I" in the second paragraph in the Column I description (Page 6 of 25); and*
- v. *Revise Column I text description in the second sentence of paragraph two (Page 6 of 25). Staff notes discharged groundwater is recorded in Column C.*

- Corrections have been made in the attached Accounting Plan Summary, included in **Attachment C**.

Comment #5 – Correct the formula in Column B for Annual tabs February through December within the Excel file. Staff notes that discharged groundwater is recorded in Column C.

- The formula in Column B for the Annual tab was corrected for February through December, included in **Attachment D**. Electronic copy of the corrected Excel file will also be provided electronically to you.

Feel free to contact me at the phone number below or via e-mail at [REDACTED] you have any questions or need additional information to process this request.

Sincerely,



Lindi Weber
Peloton Land Solutions
Office: 817.562.3350

ATTACHMENT A

Revised Worksheet 4.1

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 57.1 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 0.109 cfs or 48.97 gpm.
- c. Name of Watercourse as shown on Official USGS maps: unnamed tributary to Marshal Branch
- d. Zip Code: 76262
- f. Location of point: In the Jesse Sutton Original Survey No. Tracts 1 & 1B, Abstract No. 1451, Tarrant County, Texas.
Coordinate is provided at centerline of dam to allow for discharge to be located anywhere along perimeter of on-channel pond.
- g. Point is at:
Latitude 32.989001 °N, Longitude -97.204934 °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): Google Maps/ESRI ArcMap 10.6

Map submitted must clearly identify each discharge point. See instructions Page. 15.

See project location maps in Attachment 3.

ATTACHMENT B

June Accounting Plan Tab Scenario

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond)											
2	Water Accounting Record											
3	June - Monthly Tab											
4												
5												
6	Lake Surface Area (acres)				4.80							
7	Pan Factor				0.67							
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1	100,000	148,000	0.37	0.15	48,878	878	878				
11	2	100,000	148,000	0.37	0.15	48,878	878	878				
12	3	100,000	148,000	0.37	0.15	48,878	878	878				
13	4	100,000	148,000	0.37	0.15	48,878	878	878				
14	5	100,000	148,000	0.37	0.15	48,878	878	878				
15	6	100,000	148,000	0.37	0.15	48,878	878	878				
16	7	100,000	148,000	0.37	0.15	48,878	878	878	6,146			
17	8	100,000	155,000	0.37	0.15	48,878	-6,122	0		Increased groundwater volume to 155,000 gal, an additional 7,000 gals from previous 7 days of release.		
18	9	100,000	149,000	0.37	0.15	48,878	-122	0		Increased groundwater volume to 149,000 gal.		
19	10	100,000	149,000	0.37	0.15	48,878	-122	0				
20	11	100,000	149,000	0.37	0.15	48,878	-122	0				
21	12	100,000	149,000	0.37	0.15	48,878	-122	0				
22	13	100,000	149,000	0.37	0.15	48,878	-122	0				
23	14	100,000	149,000	0.37	0.15	48,878	-122	0	0			
24	15	100,000	149,000	0.37	0.15	48,878	-122	0				
25	16	100,000	149,000	0.37	0.15	48,878	-122	0				
26	17	100,000	149,000	0.37	0.15	48,878	-122	0				
27	18	100,000	149,000	0.37	0.15	48,878	-122	0				
28	19	100,000	149,000	0.37	0.15	48,878	-122	0				
29	20	100,000	149,000	0.37	0.15	48,878	-122	0				
30	21	100,000	149,000	0.37	0.15	48,878	-122	0	0			
31	22	100,000	149,000	0.37	0.15	48,878	-122	0				
32	23	100,000	149,000	0.37	0.15	48,878	-122	0				
33	24	100,000	149,000	0.37	0.15	48,878	-122	0				
34	25	100,000	149,000	0.37	0.15	48,878	-122	0				
35	26	100,000	149,000	0.37	0.15	48,878	-122	0				
36	27	100,000	149,000	0.37	0.15	48,878	-122	0				
37	28	100,000	149,000	0.37	0.15	48,878	-122	0	0			
38	29	100,000	149,000	0.37	0.15	48,878	-122	0				
39	30	100,000	149,000	0.37	0.15	48,878	-122	0	0			
40												
41	Total (ac-ft)	9.21	13.71	4.44	4.50	4.50	-0.01					
42	Total (gal)	3,000,000	4,469,000	1,446,778	1,466,330	1,466,340	-2,660					

ATTACHMENT C

Revised Accounting Plan Summary

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
December 12, 2022

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 51.7 acre-feet of supplemental water for the use of irrigation. Our calculated net loss per year is 34 acre-feet and 23.1 acre-feet of irrigation water that can be diverted from the pond for irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board. 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 groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.
2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13813. 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 G) and 14 rows. The columns in the table are as follows:

	A	B	C	D	E	F	G
1	Dove Pond (Golf Course Pond)						
2	Water Accounting Record						
3	Annual Tab						
4							
5							
6	Year						
7							
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
9	January	0.00	0.00	1.24	1.24	1.24	1.24
10	February	0.00	0.00	1.68	1.68	1.68	1.68
11	March	0.00	0.00	2.48	2.48	2.48	2.48
12	April	0.00	0.00	3.30	3.30	3.30	3.30
13	May	0.00	0.00	3.72	3.72	3.72	3.72
14	June	0.00	0.00	4.50	4.50	4.50	4.50
15	July	0.00	0.00	5.27	5.27	5.27	5.27
16	August	0.00	0.00	4.65	4.65	4.65	4.65
17	September	0.00	0.00	3.60	3.60	3.60	3.60
18	October	0.00	0.00	2.79	2.79	2.79	2.79
19	November	0.00	0.00	1.80	1.80	1.80	1.80
20	December	0.00	0.00	1.24	1.24	1.24	1.24
21	Total	0.00	0.00	36.27	36.27	36.27	36.27
22							

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B41, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C41, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Default Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell F41, which is a conversion of the Sum of Column F "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell G41, which is a conversion of the Sum of Column G "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column F</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell H41, which is a conversion of the Sum of Column I "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Supplemental Groundwater Release (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. (This number comes from Cell I41, which is a conversion of the Sum of Column H "Supplemental Groundwater Release (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
	Day	Diversion Volume (gal)	Groundwater Volume (gal)
9			
10	1		
11	2		

Column D Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)," of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column E Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column D to feet and multiplying it by the total surface area of the lake in cell D6 (Column D "Default Evaporation Rate (in)" divided by 12, to convert to feet, multiplied by D6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column F Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column E Default Evaporation (ac-ft) multiplied by 325851 gallons per acre-foot. **No data entry is required by the applicant.**

Column G Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the diversion volume (Column B) from groundwater inflow to the lake (Column C) and then subtracting the default evaporation (Column F). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column F "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" – Column B "Diversion Volume (gal).") The user needs to make sure that the total Calculated Net Inflow is a negative number at month's end to ensure the conditions of the permit are met. **No data entry is required by the applicant.**

Column H Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column G. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column G is "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column I Supplemental Groundwater Release (gal). The supplemental groundwater release (gal) (Column I) is the sum of the depleted net inflow (gal) (Column H).

The applicant should review these numbers biweekly in December, January, and February (i.e., winter months) when evapotranspiration rates are typically low. For the remainder of the year (i.e., spring and summer months), the applicant should review these numbers on a weekly basis when evapotranspiration rates typically are higher. Equations to sum the amount of supplemental groundwater released on a biweekly/weekly basis are included in the appropriate locations in the Monthly Tabs. Reviewing on a biweekly/weekly basis will give the applicant the opportunity to determine if an adequate amount of groundwater is being discharged, and if not, supplemental groundwater volumes can be provided into the system to meet the requirement of the permit.

If a positive number is present in the supplemental groundwater release (gal) (Column I), then the applicant needs to increase the volume of groundwater on future releases that month to reduce the values in Column H to zero. Any addition to supplemental groundwater volumes added during the biweekly/weekly checks should be noted in the comments (Column J). **Applicant to review supplemental groundwater numbers on a biweekly/weekly basis. If biweekly/weekly supplemental groundwater discharges are a positive number, groundwater volumes (Column C) will need to be increased subsequently in the following days throughout the rest of the month to ensure that Calculated Net Inflows (Column G) equate to a negative number and the total Calculated Net Inflows at the end of the month are also a negative number to meet the condition of the permit.**

N	Supplemental Groundwater Release (gal)

Column J Comments. This Column allows the applicant to enter any relevant notes and observations. **The applicant is to enter comments daily.**

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond)											
2	Water Accounting Record											
3	January - Monthly Tab											
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.73											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1		15,000	0.11	0.04	13,034	-1,066	0				
11	2		15,000	0.11	0.04	13,034	-1,066	0				
12	3		15,000	0.11	0.04	13,034	-1,066	0				
13	4		15,000	0.11	0.04	13,034	-1,066	0				
14	5		15,000	0.11	0.04	13,034	-1,066	0				
15	6		15,000	0.11	0.04	13,034	-1,066	0				
16	7		15,000	0.11	0.04	13,034	-1,066	0				
17	8		15,000	0.11	0.04	13,034	-1,066	0				
18	9		15,000	0.11	0.04	13,034	-1,066	0				
19	10		15,000	0.11	0.04	13,034	-1,066	0				
20	11		15,000	0.11	0.04	13,034	-1,066	0				
21	12		15,000	0.11	0.04	13,034	-1,066	0				
22	13		15,000	0.11	0.04	13,034	-1,066	0				
23	14		29,000	0.11	0.04	13,034	-15,966	0	0			
24	15		15,000	0.11	0.04	13,034	-1,066	0				
25	16		15,000	0.11	0.04	13,034	-1,066	0				
26	17		15,000	0.11	0.04	13,034	-1,066	0				
27	18		15,000	0.11	0.04	13,034	-1,066	0				
28	19		15,000	0.11	0.04	13,034	-1,066	0				
29	20		15,000	0.11	0.04	13,034	-1,066	0				
30	21		15,000	0.11	0.04	13,034	-1,066	0				
31	22		15,000	0.11	0.04	13,034	-1,066	0				
32	23		15,000	0.11	0.04	13,034	-1,066	0				
33	24		15,000	0.11	0.04	13,034	-1,066	0				
34	25		15,000	0.11	0.04	13,034	-1,066	0				
35	26		15,000	0.11	0.04	13,034	-1,066	0				
36	27		15,000	0.11	0.04	13,034	-1,066	0				
37	28		15,000	0.11	0.04	13,034	-1,066	0	0			
38	29		15,000	0.11	0.04	13,034	-1,066	0				
39	30		15,000	0.11	0.04	13,034	-1,066	0				
40	31		15,000	0.11	0.04	13,034	-1,066	0	0			
41	Total (ac-ft)	0.00	1.47	1.36	1.24	1.24	-0.23					
42	Total (gal)	0	479,000	444,461	404,055	404,054	-74,946					

Signed: _____

Date: _____

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

ATTACHMENT D

Revised Accounting Plan Spreadsheet

**Dove Pond (Golf Course Pond)
Water Accounting Record
Annual Tab**

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

Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	0.00	0.00
February	0.00	0.00	1.68	1.68	0.00	0.00
March	0.00	0.00	2.48	2.48	0.00	0.00
April	0.00	0.00	3.30	3.30	0.00	0.00
May	0.00	0.00	3.72	3.72	0.00	0.00
June	0.00	0.00	4.50	4.50	0.00	0.00
July	0.00	0.00	5.27	5.27	0.00	0.00
August	0.00	0.00	4.65	4.65	0.00	0.00
September	0.00	0.00	3.60	3.60	0.00	0.00
October	0.00	0.00	2.79	2.79	0.00	0.00
November	0.00	0.00	1.80	1.80	0.00	0.00
December	0.00	0.00	1.24	1.24	0.00	0.00
Total	0.00	0.00	36.27	36.27	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record January - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.73 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24					
42	Total (gal)	0	0	444,461	404,055	404,054	404,054					

	A	B	C	D	E	F	G	H	I	J
1	Dove Pond (Golf Course Pond) Water Accounting Record February - Monthly Tab									
2										
3										
4										
5										
6										
7										
8										
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
10	1			0.15	0.06	19,551	19,551	19,551		
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19,551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record March - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.69											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.21	0.08	26,068	26,068	26,068				
11	2			0.21	0.08	26,068	26,068	26,068				
12	3			0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068				
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21	0.08	26,068	26,068	26,068				
27	18			0.21	0.08	26,068	26,068	26,068				
28	19			0.21	0.08	26,068	26,068	26,068				
29	20			0.21	0.08	26,068	26,068	26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182,476			
31	22			0.21	0.08	26,068	26,068	26,068				
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068				
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48					
42	Total (gal)	0	0	848,516	808,110	808,108	808,108					

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record April - Monthly Tab </div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.67</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.27	0.11	35,844	35,844	35,844				
11	2			0.27	0.11	35,844	35,844	35,844				
12	3			0.27	0.11	35,844	35,844	35,844				
13	4			0.27	0.11	35,844	35,844	35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844				
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29	20			0.27	0.11	35,844	35,844	35,844				
30	21			0.27	0.11	35,844	35,844	35,844	250,908			
31	22			0.27	0.11	35,844	35,844	35,844				
32	23			0.27	0.11	35,844	35,844	35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844				
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30					
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record May - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.60 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.29	0.12	39,102	39,102	39,102				
11	2			0.29	0.12	39,102	39,102	39,102				
12	3			0.29	0.12	39,102	39,102	39,102				
13	4			0.29	0.12	39,102	39,102	39,102				
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102				
16	7			0.29	0.12	39,102	39,102	39,102	273,714			
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102				
21	12			0.29	0.12	39,102	39,102	39,102				
22	13			0.29	0.12	39,102	39,102	39,102				
23	14			0.29	0.12	39,102	39,102	39,102	273,714			
24	15			0.29	0.12	39,102	39,102	39,102				
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102				
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714			
31	22			0.29	0.12	39,102	39,102	39,102				
32	23			0.29	0.12	39,102	39,102	39,102				
33	24			0.29	0.12	39,102	39,102	39,102				
34	25			0.29	0.12	39,102	39,102	39,102				
35	26			0.29	0.12	39,102	39,102	39,102				
36	27			0.29	0.12	39,102	39,102	39,102				
37	28			0.29	0.12	39,102	39,102	39,102	273,714			
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102				
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72					
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record June - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.67 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.37	0.15	48,878	48,878	48,878				
11	2			0.37	0.15	48,878	48,878	48,878				
12	3			0.37	0.15	48,878	48,878	48,878				
13	4			0.37	0.15	48,878	48,878	48,878				
14	5			0.37	0.15	48,878	48,878	48,878				
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19	10			0.37	0.15	48,878	48,878	48,878				
20	11			0.37	0.15	48,878	48,878	48,878				
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
29	20			0.37	0.15	48,878	48,878	48,878				
30	21			0.37	0.15	48,878	48,878	48,878	342,146			
31	22			0.37	0.15	48,878	48,878	48,878				
32	23			0.37	0.15	48,878	48,878	48,878				
33	24			0.37	0.15	48,878	48,878	48,878				
34	25			0.37	0.15	48,878	48,878	48,878				
35	26			0.37	0.15	48,878	48,878	48,878				
36	27			0.37	0.15	48,878	48,878	48,878				
37	28			0.37	0.15	48,878	48,878	48,878	342,146			
38	29			0.37	0.15	48,878	48,878	48,878				
39	30			0.37	0.15	48,878	48,878	48,878	97,756			
40												
41	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50					
42	Total (gal)	0	0	1,446,778	1,466,330	1,466,340	1,466,340					

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record July - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.69											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.42	0.17	55,395	55,395	55,395				
11	2			0.42	0.17	55,395	55,395	55,395				
12	3			0.42	0.17	55,395	55,395	55,395				
13	4			0.42	0.17	55,395	55,395	55,395				
14	5			0.42	0.17	55,395	55,395	55,395				
15	6			0.42	0.17	55,395	55,395	55,395				
16	7			0.42	0.17	55,395	55,395	55,395	387,765			
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395				
21	12			0.42	0.17	55,395	55,395	55,395				
22	13			0.42	0.17	55,395	55,395	55,395				
23	14			0.42	0.17	55,395	55,395	55,395	387,765			
24	15			0.42	0.17	55,395	55,395	55,395				
25	16			0.42	0.17	55,395	55,395	55,395				
26	17			0.42	0.17	55,395	55,395	55,395				
27	18			0.42	0.17	55,395	55,395	55,395				
28	19			0.42	0.17	55,395	55,395	55,395				
29	20			0.42	0.17	55,395	55,395	55,395				
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395				
32	23			0.42	0.17	55,395	55,395	55,395				
33	24			0.42	0.17	55,395	55,395	55,395				
34	25			0.42	0.17	55,395	55,395	55,395				
35	26			0.42	0.17	55,395	55,395	55,395				
36	27			0.42	0.17	55,395	55,395	55,395				
37	28			0.42	0.17	55,395	55,395	55,395	387,765			
38	29			0.42	0.17	55,395	55,395	55,395				
39	30			0.42	0.17	55,395	55,395	55,395				
40	31			0.42	0.17	55,395	55,395	55,395	166,185			
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27					
42	Total (gal)	0	0	1,697,032	1,717,235	1,717,245	1,717,245					

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record August - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.7 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878				
12	3			0.38	0.15	48,878	48,878	48,878				
13	4			0.38	0.15	48,878	48,878	48,878				
14	5			0.38	0.15	48,878	48,878	48,878				
15	6			0.38	0.15	48,878	48,878	48,878				
16	7			0.38	0.15	48,878	48,878	48,878	342,146			
17	8			0.38	0.15	48,878	48,878	48,878				
18	9			0.38	0.15	48,878	48,878	48,878				
19	10			0.38	0.15	48,878	48,878	48,878				
20	11			0.38	0.15	48,878	48,878	48,878				
21	12			0.38	0.15	48,878	48,878	48,878				
22	13			0.38	0.15	48,878	48,878	48,878				
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878				
27	18			0.38	0.15	48,878	48,878	48,878				
28	19			0.38	0.15	48,878	48,878	48,878				
29	20			0.38	0.15	48,878	48,878	48,878				
30	21			0.38	0.15	48,878	48,878	48,878	342,146			
31	22			0.38	0.15	48,878	48,878	48,878				
32	23			0.38	0.15	48,878	48,878	48,878				
33	24			0.38	0.15	48,878	48,878	48,878				
34	25			0.38	0.15	48,878	48,878	48,878				
35	26			0.38	0.15	48,878	48,878	48,878				
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146			
38	29			0.38	0.15	48,878	48,878	48,878				
39	30			0.38	0.15	48,878	48,878	48,878				
40	31			0.38	0.15	48,878	48,878	48,878	146,634			
41	Total (ac-ft)	0.00	0.00	4.71	4.65	4.65	4.65					
42	Total (gal)	0	0	1,535,410	1,515,207	1,515,218	1,515,218					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record September - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.73 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.30	0.12	39,102	39,102	39,102				
11	2			0.30	0.12	39,102	39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102	39,102	273,714			
17	8			0.30	0.12	39,102	39,102	39,102				
18	9			0.30	0.12	39,102	39,102	39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27	18			0.30	0.12	39,102	39,102	39,102				
28	19			0.30	0.12	39,102	39,102	39,102				
29	20			0.30	0.12	39,102	39,102	39,102				
30	21			0.30	0.12	39,102	39,102	39,102	273,714			
31	22			0.30	0.12	39,102	39,102	39,102				
32	23			0.30	0.12	39,102	39,102	39,102				
33	24			0.30	0.12	39,102	39,102	39,102				
34	25			0.30	0.12	39,102	39,102	39,102				
35	26			0.30	0.12	39,102	39,102	39,102				
36	27			0.30	0.12	39,102	39,102	39,102				
37	28			0.30	0.12	39,102	39,102	39,102	273,714			
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204			
40												
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60					
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record October - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.77 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.22	0.09	29,327	29,327	29,327				
11	2			0.22	0.09	29,327	29,327	29,327				
12	3			0.22	0.09	29,327	29,327	29,327				
13	4			0.22	0.09	29,327	29,327	29,327				
14	5			0.22	0.09	29,327	29,327	29,327				
15	6			0.22	0.09	29,327	29,327	29,327				
16	7			0.22	0.09	29,327	29,327	29,327	205,289			
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327				
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22	0.09	29,327	29,327	29,327				
22	13			0.22	0.09	29,327	29,327	29,327				
23	14			0.22	0.09	29,327	29,327	29,327	205,289			
24	15			0.22	0.09	29,327	29,327	29,327				
25	16			0.22	0.09	29,327	29,327	29,327				
26	17			0.22	0.09	29,327	29,327	29,327				
27	18			0.22	0.09	29,327	29,327	29,327				
28	19			0.22	0.09	29,327	29,327	29,327				
29	20			0.22	0.09	29,327	29,327	29,327				
30	21			0.22	0.09	29,327	29,327	29,327	205,289			
31	22			0.22	0.09	29,327	29,327	29,327				
32	23			0.22	0.09	29,327	29,327	29,327				
33	24			0.22	0.09	29,327	29,327	29,327				
34	25			0.22	0.09	29,327	29,327	29,327				
35	26			0.22	0.09	29,327	29,327	29,327				
36	27			0.22	0.09	29,327	29,327	29,327				
37	28			0.22	0.09	29,327	29,327	29,327	205,289			
38	29			0.22	0.09	29,327	29,327	29,327				
39	30			0.22	0.09	29,327	29,327	29,327				
40	31			0.22	0.09	29,327	29,327	29,327	87,981			
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79					
42	Total (gal)	0	0	888,922	909,124	909,137	909,137					

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record November - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.8											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551				
12	3			0.15	0.06	19,551	19,551	19,551				
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06	19,551	19,551	19,551				
15	6			0.15	0.06	19,551	19,551	19,551				
16	7			0.15	0.06	19,551	19,551	19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551				
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551				
21	12			0.15	0.06	19,551	19,551	19,551				
22	13			0.15	0.06	19,551	19,551	19,551				
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551				
28	19			0.15	0.06	19,551	19,551	19,551				
29	20			0.15	0.06	19,551	19,551	19,551				
30	21			0.15	0.06	19,551	19,551	19,551	136,857			
31	22			0.15	0.06	19,551	19,551	19,551				
32	23			0.15	0.06	19,551	19,551	19,551				
33	24			0.15	0.06	19,551	19,551	19,551				
34	25			0.15	0.06	19,551	19,551	19,551				
35	26			0.15	0.06	19,551	19,551	19,551				
36	27			0.15	0.06	19,551	19,551	19,551				
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40												
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80					
42	Total (gal)	0	0	586,532	586,532	586,530	586,530					

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record December - Monthly Tab </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24					
42	Total (gal)	0	0	444,461	404,055	404,054	404,054					

Dove Pond (Golf Course Pond)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Self Course Pond)
Water Accounting Record
TWDE Pan Lake Factor Tab
TWDB Link
<https://waterdataforwx.org/lake-usage/pan-lake/>

Texas Water Development Board Monthly Pan Factor Used in Engp													
Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
512	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
513	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
514	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.71
612	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
712	0.74	0.72	0.72	0.71	0.66	0.71	0.72	0.72	0.74	0.77	0.78	0.77	0.72
713	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
714	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.68	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1008	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
1009	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1010	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1011	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1012	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1014	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1101	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1103	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1106	0.7	0.67	0.6										

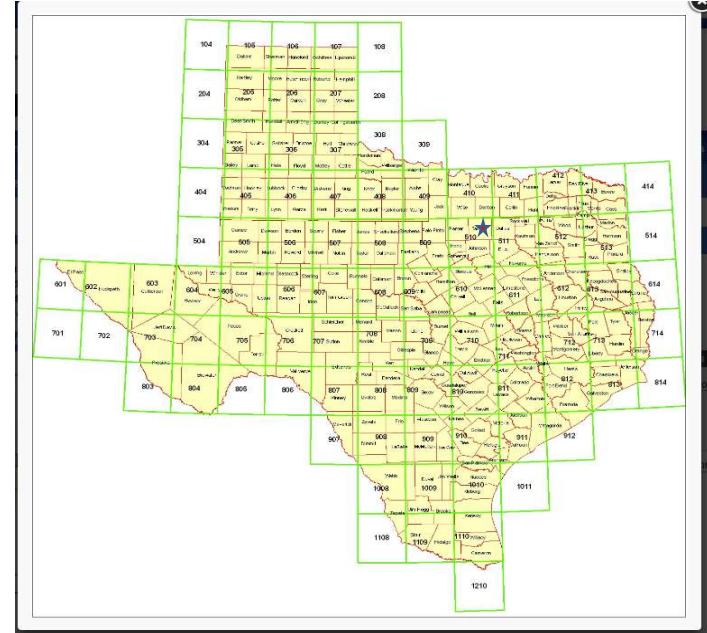
Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Evap Tab

EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board
Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.86	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510	1955	2.02	2.52	4.45	5.85	6.12	7.12	8.94	8.03	7.05	6.39	4.92	2.92	66.33
510	1956	2.61	2.67	5.57	6.00	6.92	9.20	11.41	11.42	9.26	6.56	3.95	3.07	78.64
510	1957	2.03	1.86	3.21	3.03	3.72	6.29	9.21	9.45	6.06	3.91	2.22	2.91	53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.60	7.42	7.11	4.77	2.77	1.97	56.66
510	1962	1.61	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.39	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510	1965	2.35	2.22	2.92	4.89	3.49	6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510	1966	1.54	1.83	4.48	4.81	4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.56	5.75	5.78	6.03	8.19	8.99	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.88	2.84	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510	1974	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510	1975	2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	59.69
510	1976	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	3.25	2.14	2.28	52.97
510	1977	1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	5.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.94	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.95	56.54
510	1992	1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	5.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.82	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.79	6.95	4.82	4.22	3.75	3.38	53.73
510	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.21
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.14	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

75th Percentile: 2.48 2.95 4.53 5.40 5.39 7.38 9.04 8.35 6.57 5.14 3.52 2.74 60.22



**Dove Pond (Golf Course Pond)
Water Accounting Record
Annual Tab**

Year		
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Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	0.00	0.00
February	0.00	0.00	1.68	1.68	0.00	0.00
March	0.00	0.00	2.48	2.48	0.00	0.00
April	0.00	0.00	3.30	3.30	0.00	0.00
May	0.00	0.00	3.72	3.72	0.00	0.00
June	0.00	0.00	4.50	4.50	0.00	0.00
July	0.00	0.00	5.27	5.27	0.00	0.00
August	0.00	0.00	4.65	4.65	0.00	0.00
September	0.00	0.00	3.60	3.60	0.00	0.00
October	0.00	0.00	2.79	2.79	0.00	0.00
November	0.00	0.00	1.80	1.80	0.00	0.00
December	0.00	0.00	1.24	1.24	0.00	0.00
Total	0.00	0.00	36.27	36.27	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record January - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.73 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24					
42	Total (gal)	0	0	444,461	404,055	404,054	404,054					

	A	B	C	D	E	F	G	H	I	J
1	Dove Pond (Golf Course Pond) Water Accounting Record February - Monthly Tab									
2										
3										
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6										
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8										
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
10	1			0.15	0.06	19,551	19,551	19,551		
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19,551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div>Dove Pond (Golf Course Pond)</div> <div>Water Accounting Record</div> <div>March - Monthly Tab</div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.69</div> </div> <div>Signed: _____</div> <div>Date: _____</div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.21	0.08	26,068	26,068	26,068				
11	2			0.21	0.08	26,068	26,068	26,068				
12	3			0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068				
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21	0.08	26,068	26,068	26,068				
27	18			0.21	0.08	26,068	26,068	26,068				
28	19			0.21	0.08	26,068	26,068	26,068				
29	20			0.21	0.08	26,068	26,068	26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182,476			
31	22			0.21	0.08	26,068	26,068	26,068				
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068				
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48					
42	Total (gal)	0	0	848,516	808,110	808,108	808,108					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record April - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.67 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.27	0.11	35,844	35,844	35,844				
11	2			0.27	0.11	35,844	35,844	35,844				
12	3			0.27	0.11	35,844	35,844	35,844				
13	4			0.27	0.11	35,844	35,844	35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844				
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29	20			0.27	0.11	35,844	35,844	35,844				
30	21			0.27	0.11	35,844	35,844	35,844	250,908			
31	22			0.27	0.11	35,844	35,844	35,844				
32	23			0.27	0.11	35,844	35,844	35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844				
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30					
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record May - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.60 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.29	0.12	39,102	39,102	39,102				
11	2			0.29	0.12	39,102	39,102	39,102				
12	3			0.29	0.12	39,102	39,102	39,102				
13	4			0.29	0.12	39,102	39,102	39,102				
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102				
16	7			0.29	0.12	39,102	39,102	39,102	273,714			
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102				
21	12			0.29	0.12	39,102	39,102	39,102				
22	13			0.29	0.12	39,102	39,102	39,102				
23	14			0.29	0.12	39,102	39,102	39,102	273,714			
24	15			0.29	0.12	39,102	39,102	39,102				
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102				
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714			
31	22			0.29	0.12	39,102	39,102	39,102				
32	23			0.29	0.12	39,102	39,102	39,102				
33	24			0.29	0.12	39,102	39,102	39,102				
34	25			0.29	0.12	39,102	39,102	39,102				
35	26			0.29	0.12	39,102	39,102	39,102				
36	27			0.29	0.12	39,102	39,102	39,102				
37	28			0.29	0.12	39,102	39,102	39,102	273,714			
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102				
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72					
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record June - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.67 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.37	0.15	48,878	48,878	48,878				
11	2			0.37	0.15	48,878	48,878	48,878				
12	3			0.37	0.15	48,878	48,878	48,878				
13	4			0.37	0.15	48,878	48,878	48,878				
14	5			0.37	0.15	48,878	48,878	48,878				
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19	10			0.37	0.15	48,878	48,878	48,878				
20	11			0.37	0.15	48,878	48,878	48,878				
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
29	20			0.37	0.15	48,878	48,878	48,878				
30	21			0.37	0.15	48,878	48,878	48,878	342,146			
31	22			0.37	0.15	48,878	48,878	48,878				
32	23			0.37	0.15	48,878	48,878	48,878				
33	24			0.37	0.15	48,878	48,878	48,878				
34	25			0.37	0.15	48,878	48,878	48,878				
35	26			0.37	0.15	48,878	48,878	48,878				
36	27			0.37	0.15	48,878	48,878	48,878				
37	28			0.37	0.15	48,878	48,878	48,878	342,146			
38	29			0.37	0.15	48,878	48,878	48,878				
39	30			0.37	0.15	48,878	48,878	48,878	97,756			
40												
41	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50					
42	Total (gal)	0	0	1,446,778	1,466,330	1,466,340	1,466,340					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record July - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.69 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.42	0.17	55,395	55,395	55,395				
11	2			0.42	0.17	55,395	55,395	55,395				
12	3			0.42	0.17	55,395	55,395	55,395				
13	4			0.42	0.17	55,395	55,395	55,395				
14	5			0.42	0.17	55,395	55,395	55,395				
15	6			0.42	0.17	55,395	55,395	55,395				
16	7			0.42	0.17	55,395	55,395	55,395	387,765			
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395				
21	12			0.42	0.17	55,395	55,395	55,395				
22	13			0.42	0.17	55,395	55,395	55,395				
23	14			0.42	0.17	55,395	55,395	55,395	387,765			
24	15			0.42	0.17	55,395	55,395	55,395				
25	16			0.42	0.17	55,395	55,395	55,395				
26	17			0.42	0.17	55,395	55,395	55,395				
27	18			0.42	0.17	55,395	55,395	55,395				
28	19			0.42	0.17	55,395	55,395	55,395				
29	20			0.42	0.17	55,395	55,395	55,395				
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395				
32	23			0.42	0.17	55,395	55,395	55,395				
33	24			0.42	0.17	55,395	55,395	55,395				
34	25			0.42	0.17	55,395	55,395	55,395				
35	26			0.42	0.17	55,395	55,395	55,395				
36	27			0.42	0.17	55,395	55,395	55,395				
37	28			0.42	0.17	55,395	55,395	55,395	387,765			
38	29			0.42	0.17	55,395	55,395	55,395				
39	30			0.42	0.17	55,395	55,395	55,395				
40	31			0.42	0.17	55,395	55,395	55,395	166,185			
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27					
42	Total (gal)	0	0	1,697,032	1,717,235	1,717,245	1,717,245					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record August - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.7 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878				
12	3			0.38	0.15	48,878	48,878	48,878				
13	4			0.38	0.15	48,878	48,878	48,878				
14	5			0.38	0.15	48,878	48,878	48,878				
15	6			0.38	0.15	48,878	48,878	48,878				
16	7			0.38	0.15	48,878	48,878	48,878	342,146			
17	8			0.38	0.15	48,878	48,878	48,878				
18	9			0.38	0.15	48,878	48,878	48,878				
19	10			0.38	0.15	48,878	48,878	48,878				
20	11			0.38	0.15	48,878	48,878	48,878				
21	12			0.38	0.15	48,878	48,878	48,878				
22	13			0.38	0.15	48,878	48,878	48,878				
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878				
27	18			0.38	0.15	48,878	48,878	48,878				
28	19			0.38	0.15	48,878	48,878	48,878				
29	20			0.38	0.15	48,878	48,878	48,878				
30	21			0.38	0.15	48,878	48,878	48,878	342,146			
31	22			0.38	0.15	48,878	48,878	48,878				
32	23			0.38	0.15	48,878	48,878	48,878				
33	24			0.38	0.15	48,878	48,878	48,878				
34	25			0.38	0.15	48,878	48,878	48,878				
35	26			0.38	0.15	48,878	48,878	48,878				
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146			
38	29			0.38	0.15	48,878	48,878	48,878				
39	30			0.38	0.15	48,878	48,878	48,878				
40	31			0.38	0.15	48,878	48,878	48,878	146,634			
41	Total (ac-ft)	0.00	0.00	4.71	4.65	4.65	4.65					
42	Total (gal)	0	0	1,535,410	1,515,207	1,515,218	1,515,218					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record September - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.73 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.30	0.12	39,102	39,102	39,102				
11	2			0.30	0.12	39,102	39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102	39,102	273,714			
17	8			0.30	0.12	39,102	39,102	39,102				
18	9			0.30	0.12	39,102	39,102	39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27	18			0.30	0.12	39,102	39,102	39,102				
28	19			0.30	0.12	39,102	39,102	39,102				
29	20			0.30	0.12	39,102	39,102	39,102				
30	21			0.30	0.12	39,102	39,102	39,102	273,714			
31	22			0.30	0.12	39,102	39,102	39,102				
32	23			0.30	0.12	39,102	39,102	39,102				
33	24			0.30	0.12	39,102	39,102	39,102				
34	25			0.30	0.12	39,102	39,102	39,102				
35	26			0.30	0.12	39,102	39,102	39,102				
36	27			0.30	0.12	39,102	39,102	39,102				
37	28			0.30	0.12	39,102	39,102	39,102	273,714			
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204			
40												
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60					
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record October - Monthly Tab </div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.77</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.22	0.09	29,327	29,327	29,327				
11	2			0.22	0.09	29,327	29,327	29,327				
12	3			0.22	0.09	29,327	29,327	29,327				
13	4			0.22	0.09	29,327	29,327	29,327				
14	5			0.22	0.09	29,327	29,327	29,327				
15	6			0.22	0.09	29,327	29,327	29,327				
16	7			0.22	0.09	29,327	29,327	29,327	205,289			
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327				
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22	0.09	29,327	29,327	29,327				
22	13			0.22	0.09	29,327	29,327	29,327				
23	14			0.22	0.09	29,327	29,327	29,327	205,289			
24	15			0.22	0.09	29,327	29,327	29,327				
25	16			0.22	0.09	29,327	29,327	29,327				
26	17			0.22	0.09	29,327	29,327	29,327				
27	18			0.22	0.09	29,327	29,327	29,327				
28	19			0.22	0.09	29,327	29,327	29,327				
29	20			0.22	0.09	29,327	29,327	29,327				
30	21			0.22	0.09	29,327	29,327	29,327	205,289			
31	22			0.22	0.09	29,327	29,327	29,327				
32	23			0.22	0.09	29,327	29,327	29,327				
33	24			0.22	0.09	29,327	29,327	29,327				
34	25			0.22	0.09	29,327	29,327	29,327				
35	26			0.22	0.09	29,327	29,327	29,327				
36	27			0.22	0.09	29,327	29,327	29,327				
37	28			0.22	0.09	29,327	29,327	29,327	205,289			
38	29			0.22	0.09	29,327	29,327	29,327				
39	30			0.22	0.09	29,327	29,327	29,327				
40	31			0.22	0.09	29,327	29,327	29,327	87,981			
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79					
42	Total (gal)	0	0	888,922	909,124	909,137	909,137					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record November - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.8 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551				
12	3			0.15	0.06	19,551	19,551	19,551				
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06	19,551	19,551	19,551				
15	6			0.15	0.06	19,551	19,551	19,551				
16	7			0.15	0.06	19,551	19,551	19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551				
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551				
21	12			0.15	0.06	19,551	19,551	19,551				
22	13			0.15	0.06	19,551	19,551	19,551				
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551				
28	19			0.15	0.06	19,551	19,551	19,551				
29	20			0.15	0.06	19,551	19,551	19,551				
30	21			0.15	0.06	19,551	19,551	19,551	136,857			
31	22			0.15	0.06	19,551	19,551	19,551				
32	23			0.15	0.06	19,551	19,551	19,551				
33	24			0.15	0.06	19,551	19,551	19,551				
34	25			0.15	0.06	19,551	19,551	19,551				
35	26			0.15	0.06	19,551	19,551	19,551				
36	27			0.15	0.06	19,551	19,551	19,551				
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40												
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80					
42	Total (gal)	0	0	586,532	586,532	586,530	586,530					

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record December - Monthly Tab </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24					
42	Total (gal)	0	0	444,461	404,055	404,054	404,054					

Dove Pond (Golf Course Pond)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Pen Lake Factor Tab
TWDB Link
<https://waterdatafor.texas.org/lake-evaporation-rainfall>

Texas Water Development Board													
Monthly Pen Factor Used (a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, aa, ab, ac, ad, ae, af, ag, ah, ai, aj, ak, al, am, an, ao, ap, aq, ar, as, at, au, av, aw, ax, ay, az, ba, bb, bc, bd, be, bf, bg, bh, bi, bj, bk, bl, bm, bn, bo, bp, bq, br, bs, bt, bu, bv, bw, bx, by, bz, ca, cb, cc, cd, ce, cf, cg, ch, ci, cj, ck, cl, cm, cn, co, cp, cq, cr, cs, ct, cu, cv, cw, cx, cy, cz, da, db, dc, dd, de, df, dg, dh, di, dj, dk, dl, dm, dn, do, dp, dq, dr, ds, dt, du, dv, dw, dx, dy, dz, ea, eb, ec, ed, ee, ef, eg, eh, ei, ej, ek, el, em, en, eo, ep, eq, er, es, et, eu, ev, ew, ex, ey, ez, fa, fb, fc, fd, fe, ff, fg, fh, fi, fj, fk, fl, fm, fn, fo, fp, fq, fr, fs, ft, fu, fv, fw, fx, fy, fz, ga, gb, gc, gd, ge, gf, gg, gh, gi, gj, gk, gl, gm, gn, go, gp, gq, gr, gs, gt, gu, gv, gw, gx, gy, gz, ha, hb, hc, hd, he, hf, hg, hh, hi, hj, hk, hl, hm, hn, ho, hp, hq, hr, hs, ht, hu, hv, hw, hx, hy, hz, ia, ib, ic, id, ie, if, ig, ih, ii, ij, ik, il, im, in, io, ip, iq, ir, is, it, iu, iv, iw, ix, iy, iz, ja, jb, jc, jd, je, jf, jg, jh, ji, jj, jk, jl, jm, jn, jo, jp, jq, jr, js, jt, ju, jv, jw, jx, jy, jz, ka, kb, kc, kd, ke, kf, kg, kh, ki, kj, kk, kl, km, kn, ko, kp, kq, kr, ks, kt, ku, kv, kw, kx, ky, kz, la, lb, lc, ld, le, lf, lg, lh, li, lj, lk, ll, lm, ln, lo, lp, lq, lr, ls, lt, lu, lv, lw, lx, ly, lz, ma, mb, mc, md, me, mf, mg, mh, mi, mj, mk, ml, mm, mn, mo, mp, mq, mr, ms, mt, mu, mv, mw, mx, my, mz, na, nb, nc, nd, ne, nf, ng, nh, ni, nj, nk, nl, nm, no, np, nq, nr, ns, nt, nu, nv, nw, nx, ny, nz, oa, ob, oc, od, oe, of, og, oh, oi, oj, ok, ol, om, on, oo, op, oq, or, os, ot, ou, ov, ow, ox, oy, oz, pa, pb, pc, pd, pe, pf, pg, ph, pi, pj, pk, pl, pm, pn, po, pp, pq, pr, ps, pt, pu, pv, pw, px, py, pz, qa, qb, qc, qd, qe, qf, qg, qh, qi, qj, qk, ql, qm, qn, qo, qp, qq, qr, qs, qt, qu, qv, qw, qx, qy, qz, ra, rb, rc, rd, re, rf, rg, rh, ri, rj, rk, rl, rm, rn, ro, rp, rq, rr, rs, rt, ru, rv, rw, rx, ry, rz, sa, sb, sc, sd, se, sf, sg, sh, si, sj, sk, sl, sm, sn, so, sp, sq, sr, ss, st, su, sv, sw, sx, sy, sz, ta, tb, tc, td, te, tf, tg, th, ti, tj, tk, tl, tm, tn, to, tp, tq, tr, ts, tt, tu, tv, tw, tx, ty, tz, ua, ub, uc, ud, ue, uf, ug, uh, ui, uj, uk, ul, um, un, uo, up, uq, ur, us, ut, uu, uv, uw, ux, uy, uz, va, vb, vc, vd, ve, vf, vg, vh, vi, vj, vk, vl, vm, vn, vo, vp, vq, vr, vs, vt, vu, vv, vw, vx, vy, vz, wa, wb, wc, wd, we, wf, wg, wh, wi, wj, wk, wl, wm, wn, wo, wp, wq, wr, ws, wt, wu, wv, ww, wx, wy, wz, xa, xb, xc, xd, xe, xf, xg, xh, xi, xj, xk, xl, xm, xn, xo, xp, xq, xr, xs, xt, xu, xv, xw, xx, xy, xz, ya, yb, yc, yd, ye, yf, yg, yh, yi, yj, yk, yl, ym, yn, yo, yp, yq, yr, ys, yt, yu, yv, yw, yx, yy, yz, za, zb, zc, zd, ze, zf, zg, zh, zi, zj, zk, zl, zm, zn, zo, zp, zq, zr, zs, zt, zu, zv, zw, zx, zy, zz													
Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
411	0.74	0.73	0.7	0.7	0.68	0.63	0.68	0.7	0.71	0.74	0.78	0.81	0.73
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
507	0.72	0.69	0.68	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
508	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
509	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
510	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
511	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
512	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.68	0.69	0.72	0.75	0.72	0.67
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611	0.74	0.73	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.73
612	0.75	0.72	0.71	0.69	0.63	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.68	0.69	0.72	0.75	0.72	0.67
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
712	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
713	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
714	0.76	0.74	0.74	0.74	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.73	0.73	0.7	0.65	0.7	0.73	0.73	0.75	0.78	0.77	0.76	0.73
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.74	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.73	0.73	0.7	0.65	0.7	0.73	0.73	0.75	0.78	0.77	0.76	0.73
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68</

Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Evap Tab

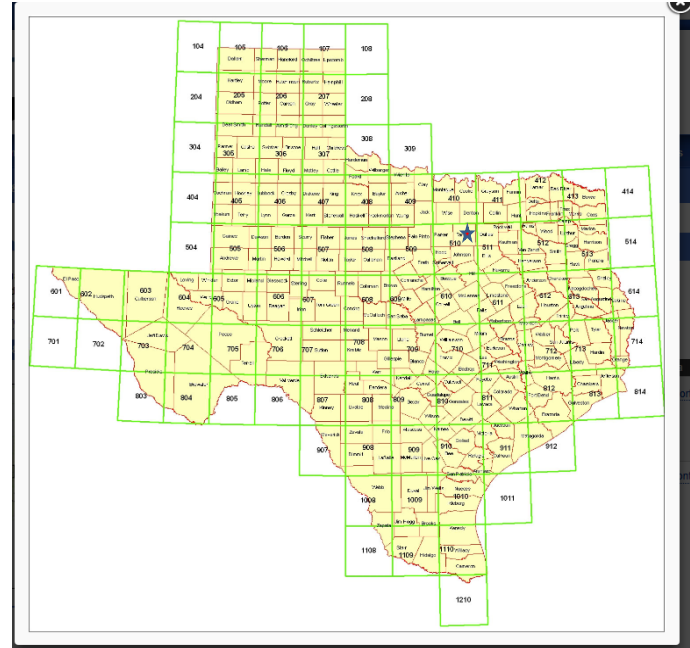
EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board

Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.86	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510	1955	2.02	2.52	4.45	5.85	6.12	7.12	8.94	8.03	7.05	6.39	4.92	2.92	66.33
510	1956	2.61	2.67	5.57	6.00	6.92	9.20	11.41	11.42	9.26	6.56	3.95	3.07	78.64
510	1957	2.03	1.86	3.21	3.03	3.72	6.29	9.21	9.45	6.06	3.91	2.22	2.91	53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.80	7.42	7.11	4.77	2.77	1.97	58.66
510	1962	1.61	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.35	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510	1965	2.35	2.22	2.92	4.89	3.49	6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510	1966	1.54	1.83	4.48	4.81	4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.56	5.75	5.78	8.03	8.19	8.95	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.86	2.64	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510	1974	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510	1975	2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	50.69
510	1976	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	5.25	2.14	2.28	52.97
510	1977	1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	3.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.63	4.98	8.43	7.69	5.74	5.74	3.49	3.13	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	58.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.54	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.53	1.95	56.54
510	1992	1.35	2.31	3.79	4.22	4.01	5.73	7.65	8.27	5.82	5.10	2.70	1.72	59.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	8.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	8.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.75	6.95	4.82	4.22	3.75	3.38	53.73
510	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.21
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.86	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

75th Percentile: 2.48 2.95 4.53 5.40 5.39 7.38 9.04 8.35 6.57 5.14 3.52 2.74 60.22



RE: Independence_Water_13823_Tech_RFI_Extension_12.05.2022

Lindi Weber <[REDACTED]>

Mon 12/5/2022 11:14 AM

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

Lillian,

Thanks!

Lindi

 **PELOTON**
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

Lindi Weber

[e] [REDACTED]
[o] 817.562.3350
[c] 214.458.5757

www.pelotonland.com

TBPE Firm No. 12207 | TBPLS Firm No. 10177700

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

Sent: Monday, December 5, 2022 10:44 AM

To: Lindi Weber <[REDACTED]>

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

Subject: Independence_Water_13823_Tech_RFI_Extension_12.05.2022

Ms. Weber,

An extension has been granted to Independence Water, LP and HW 2421 Land, LP. The new due date for the Applicant's response to the Technical Request for Information is January 2, 2023.

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

Independence_Water_13823_Tech_RFI_Extension_12.05.2022

Lillian Beerman [REDACTED]

Mon 12/5/2022 10:44 AM

To: Lindi Weber [REDACTED]

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

Ms. Weber,

An extension has been granted to Independence Water, LP and HW 2421 Land, LP. The new due date for the Applicant's response to the Technical Request for Information is January 2, 2023.

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

December 5, 2022

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code §§ 11.042, 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

This acknowledges the request, on November 30, 2022, for an extension of time to respond to the Texas Commission on Environmental Quality (TCEQ) request for additional information, letter dated November 2, 2022. A 30-day extension is granted until January 2, 2023, and after that date the application may be returned pursuant to Title 30 Texas Administrative Code §281.19. No further extensions will be granted associated with this request for information.

If you have any questions concerning the application, please contact Lillian Beerman 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

PHONE MEMO
Independence Water, Application No. 13823
for a Water Use Permit

From: Lillian E. Beerman	To: Lindi Weber.
Date: November 17, 2022	Permit: WRPERM 13823 Independence Water
Phone: 817-562-3350 (o) <u>214-458-5757 (c)</u>	Re: Technical RFI/Schedule Meeting

Spoke with Lindi Weber to reschedule the meeting with Peloton to discuss the technical rfi for Independence Water, application no. 13823.

She provided a list of dates of availability.

Lillian E. Beerman, Ph.D. November 17, 2022

RE: HW 2421 Land, LP and Independence Water, L.P_13823_Technical Request for Information

Lindi Weber <[REDACTED]>

Thu 11/17/2022 3:20 PM

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

Cc: Chris Hamilton <[REDACTED]>

Lillian,

I spoke to Chris Hamilton and his availability for the week of November 28 is:

- All day November 28
- Morning only on December 29 and 30

Thanks,

Lindi



PELOTON
LAND SOLUTIONS

FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

Lindi Weber

[e] [REDACTED]
[o] 817.562.3350
[c] 214.458.5757

From: Lindi Weber

Sent: Monday, November 14, 2022 12:21 PM

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

Subject: RE: HW 2421 Land, LP and Independence Water, L.P_13823_Technical Request for Information

Lillian,

Is there a chance that we could schedule a phone call with the reviewer with all the comments on the accounting plan? Specifically we are looking for clarification on Comment #2, #3, and #4.d.iii.

Thanks,

Lindi



PELOTON
LAND SOLUTIONS

FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

www.pelotonland.com
TBPE Firm No. 12207 | TBPLS Firm No. 10177700

Lindi Weber

[e] [REDACTED]
[o] 817.562.3350
[c] 214.458.5757

HW 2421 Land, LP and Independence Water, L.P_13823_Technical Request for Information

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

Wed 11/2/2022 3:10 PM

To: Lindi Weber <[REDACTED]>

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

Ms. Lindi Weber:

Attached is a copy of a Technical Request for Information for HW 2421 Land, LP and Independence Water, L.P's Application No. 13823 for a Water Use Permit.

Please review and provide the requested information by COB Friday, December 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

November 2, 2022

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code §§ 11.042, 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

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

Staff reviewed the accounting plan, Dove Pond (Golf Course Pond) Water Accounting Record, dated January 24, 2022, 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. Confirm the amount of groundwater to be conveyed and subsequently diverted from the reservoir.
2. Describe how the accounting plan reconciles the amount of supplemental groundwater needed with the amount discharged.
3. Revise the accounting plan such that groundwater discharged to make up for supplemental groundwater needs is not included within Column C.
4. Correct the text document as follows:
 - a. Replace "20120" with "2020" in the first paragraph in the Elements of the Accounting Plan section (Page 1 of 25).
 - b. Replace "13619" with "13813" in the second paragraph of the Annual Tab section (Page 2 of 25).

- c. Revise the following text descriptions for the Annual Tab:
 - i. Revise the reference in the Column D description from “Cell D41” to “Cell F41” (Page 3 of 25);
 - ii. Revise the reference in the Column D description from “Column E” to “Column F” (Page 3 of 25);
 - iii. Revise the reference in the Column E description from “Cell E41” to “Cell G41” (Page 3 of 25);
 - iv. Revise the reference in the Column E description from “Column F” to “Column G” (Page 3 of 25);
 - v. Revise the reference in the Column F description from “Column G” to “Column H” (Page 3 of 25); and
 - vi. Revise the reference in the Column F description from “Column H” to “Column I” (Page 3 of 25).
- d. Revise the following text descriptions for the Monthly Tabs:
 - i. Revise the paragraph describing the number of columns in each monthly tab. Staff notes the description describes nine columns when there are ten (Page 4 of 25);
 - ii. Revise the reference in the Column F description from “Column F” with “Column E” (Page 5 of 25);
 - iii. Revise the title of “Column G” to be consistent with the text description (Page 5 of 25);
 - iv. Replace “Column IH” with “Column I” in the second paragraph in the Column I description (Page 6 of 25); and
 - v. Revise the Column I text description in the second sentence of paragraph two (Page 6 of 25). Staff notes discharged groundwater is recorded in Column C.
- 5. Correct the formula in Column B for Annual tabs February through December within the Excel file. Staff notes Column B, February through December, reference January.

Please provide the requested information by December 2, 2022 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 December 2, 2022.

Ms. Lindi Weber
Peloton Land Solutions
Application No. 13823
November 2, 2022
Page 3 of 3

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

Independence Water, LP and HW 2421 Land LP 13823

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

Thu 5/19/2022 4:17 PM

To: lindi [REDACTED]

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

Lindi Weber,

Greetings, I, Lillian E. Beerman, Ph.D., am the new project manager for Independence Water, LP and HW 2421 Land LP's Application No. 13823 for a Water Use Permit.

As of March 17, 2022, the application was declared administratively complete and went to Technical Review. Once Technical Review and water availability analysis are completed, the permit will be drafted and reviewed internally. You will have an opportunity to review and comment on the proposed permit and the supporting technical documents.

The next step is Public Notice. Independence Water, LP and HW 2421 Land LP's Application No. 13823 will require mailed notice to downstream water right holders of record in the Trinity River Basin. Assuming the application is not contested, the final step is issuance of the permit.

The goal is to complete this process in less than a year. Applications are reviewed in the order they are received in a given river basin. However, Independence Water, LP and HW 2421 Land LP's application is on a Fast Track, the application will be given priority during Technical Review.

Please be assured that I will keep you apprised of the progress of the application. If you have any questions or concerns, do not 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: Lindi Weber [REDACTED]

Sent: Tuesday, May 17, 2022 7:55 AM

To: Sam Sewell <Sam.Sewell@Tceq.Texas.Gov>

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

Subject: RE: Independence Water, LP and HW 2421 Land LP 13823 Admin Complete

Sam,

I just wanted to check in on the progress of the review of our application. Can you provide any guidance on how much longer the review will take?

Thanks,
Lindi

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TSPE Firm No. 12207 | TSPS Firm No. 10177700

Lindi Weber

[e] [REDACTED]
[o] 817.562.3350
[c] 214.458.5757

From: Sam Sewell <Sam.Sewell@Tceq.Texas.Gov>

Sent: Thursday, March 17, 2022 8:04 AM

To: Lindi Weber [REDACTED] <[REDACTED]>

Cc: Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Subject: Independence Water, LP and HW 2421 Land LP 13823 Admin Complete

Ms. Lindi Weber,

The application Independence Water, LP and HW 2421 Land LP 13823 has been declared administratively complete as of 3/17/2022.

Samuel Alan Sewell MSc.

Project Manager, Water Rights Permitting

Water Availability Division MC-160

Texas Commission on Environmental Quality

12100 Park 35 Circle, Bldg. F, 3rd Floor

Austin, Texas 78753

Sam.Sewell@Tceq.Texas.Gov

☎: (512) 239-4008

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

March 17, 2022

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code § 11.143, Requiring Published and Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

This acknowledges receipt, on February 16, 2022, of additional information.

The application was declared administratively complete and filed with the Office of the Chief Clerk on March 17, 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 this matter, please contact me via email at sam.sewell@tceq.texas.gov or by telephone at (512) 239-4008.

Sincerely,

Sam Sewell

Sam Sewell, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

TCEQ Interoffice Memorandum

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

THRU: Chris Kozlowski, Team Leader
Water Rights Permitting Team

FROM: Sam Sewell, Project Manager
Water Rights Permitting Team

DATE: March 17, 2022

SUBJECT: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code § 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

The application was received on December 6, 2021. Additional information and fees were received on January 24, and 31, 2022 and February 16, 2022. The application was declared administratively complete and accepted for filing with the Office of the Chief Clerk on March 17, 2022. Published notice pursuant to Title 30 Texas Administrative Code (TAC) §§ 295.152(b) mailed notice to downstream water right holders of record in the Trinity River Basin pursuant to Title 30 Texas Administrative Code (TAC) §§ 295.153(c)(1) and 295.161(a). Mailed notice to the Northern Trinity Groundwater Conservation District is required pursuant to Title 30 TAC § 295.153(c)(2) and mailed notice to the Texas Parks and Wildlife Department and the Public Interest Counsel is required pursuant to Title 30 TAC § 295.161(c).

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

Sam Sewell

Sam Sewell, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

OCC Mailed Notice Required ☒ YES ☐ NO

**Dove Pond (Golf Course Pond)
Water Accounting Record
Annual Tab**

Year		
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Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	1.24	1.24
February	0.00	0.00	1.68	1.68	1.68	1.68
March	0.00	0.00	2.48	2.48	2.48	2.48
April	0.00	0.00	3.30	3.30	3.30	3.30
May	0.00	0.00	3.72	3.72	3.72	3.72
June	0.00	0.00	4.50	4.50	4.50	4.50
July	0.00	0.00	5.27	5.27	5.27	5.27
August	0.00	0.00	4.65	4.65	4.65	4.65
September	0.00	0.00	3.60	3.60	3.60	3.60
October	0.00	0.00	2.79	2.79	2.79	2.79
November	0.00	0.00	1.80	1.80	1.80	1.80
December	0.00	0.00	1.24	1.24	1.24	1.24
Total	0.00	0.00	36.27	36.27	36.27	36.27

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div>Dove Pond (Golf Course Pond) Water Accounting Record January - Monthly Tab</div> <div><div>Lake Surface Area (acres)4.80</div><div>Pan Factor0.73</div></div> <div>Signed: _____ Date: _____</div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

	A	B	C	D	E	F	G	H	I	J
1	Dove Pond (Golf Course Pond) Water Accounting Record February - Monthly Tab									
2										
3										
4										
5										
6										
7										
8										
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
10	1			0.15	0.06	19,551	19,551	19,551		
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19,551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record March - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.69											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.21	0.08	26,068	26,068	26,068				
11	2			0.21	0.08	26,068	26,068	26,068				
12	3			0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068				
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21	0.08	26,068	26,068	26,068				
27	18			0.21	0.08	26,068	26,068	26,068				
28	19			0.21	0.08	26,068	26,068	26,068				
29	20			0.21	0.08	26,068	26,068	26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182,476			
31	22			0.21	0.08	26,068	26,068	26,068				
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068				
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48	2.48	2.48			
42	Total (gal)	0	0	848,516	808,110	808,108	808,108	808,108	808,108			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div>Dove Pond (Golf Course Pond)</div> <div>Water Accounting Record</div> <div>April - Monthly Tab</div> <div><div>Lake Surface Area (acres)4.80</div><div>Pan Factor0.67</div></div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.27	0.11	35,844	35,844	35,844				
11	2			0.27	0.11	35,844	35,844	35,844				
12	3			0.27	0.11	35,844	35,844	35,844				
13	4			0.27	0.11	35,844	35,844	35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844				
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29	20			0.27	0.11	35,844	35,844	35,844				
30	21			0.27	0.11	35,844	35,844	35,844	250,908			
31	22			0.27	0.11	35,844	35,844	35,844				
32	23			0.27	0.11	35,844	35,844	35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844				
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30	3.30	3.30			
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320	1,075,320			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record May - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.60 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.29	0.12	39,102	39,102	39,102				
11	2			0.29	0.12	39,102	39,102	39,102				
12	3			0.29	0.12	39,102	39,102	39,102				
13	4			0.29	0.12	39,102	39,102	39,102				
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102				
16	7			0.29	0.12	39,102	39,102	39,102	273,714			
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102				
21	12			0.29	0.12	39,102	39,102	39,102				
22	13			0.29	0.12	39,102	39,102	39,102				
23	14			0.29	0.12	39,102	39,102	39,102	273,714			
24	15			0.29	0.12	39,102	39,102	39,102				
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102				
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714			
31	22			0.29	0.12	39,102	39,102	39,102				
32	23			0.29	0.12	39,102	39,102	39,102				
33	24			0.29	0.12	39,102	39,102	39,102				
34	25			0.29	0.12	39,102	39,102	39,102				
35	26			0.29	0.12	39,102	39,102	39,102				
36	27			0.29	0.12	39,102	39,102	39,102				
37	28			0.29	0.12	39,102	39,102	39,102	273,714			
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102				
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72	3.72	3.72			
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record June - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.67 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
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6												
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8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.37	0.15	48,878	48,878	48,878				
11	2			0.37	0.15	48,878	48,878	48,878				
12	3			0.37	0.15	48,878	48,878	48,878				
13	4			0.37	0.15	48,878	48,878	48,878				
14	5			0.37	0.15	48,878	48,878	48,878				
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19	10			0.37	0.15	48,878	48,878	48,878				
20	11			0.37	0.15	48,878	48,878	48,878				
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
29	20			0.37	0.15	48,878	48,878	48,878				
30	21			0.37	0.15	48,878	48,878	48,878	342,146			
31	22			0.37	0.15	48,878	48,878	48,878				
32	23			0.37	0.15	48,878	48,878	48,878				
33	24			0.37	0.15	48,878	48,878	48,878				
34	25			0.37	0.15	48,878	48,878	48,878				
35	26			0.37	0.15	48,878	48,878	48,878				
36	27			0.37	0.15	48,878	48,878	48,878				
37	28			0.37	0.15	48,878	48,878	48,878	342,146			
38	29			0.37	0.15	48,878	48,878	48,878				
39	30			0.37	0.15	48,878	48,878	48,878	97,756			
40												
41	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50	4.50	4.50			
42	Total (gal)	0	0	1,446,778	1,466,330	1,466,340	1,466,340	1,466,340	1,466,340			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record July - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.69 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
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9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.42	0.17	55,395	55,395	55,395				
11	2			0.42	0.17	55,395	55,395	55,395				
12	3			0.42	0.17	55,395	55,395	55,395				
13	4			0.42	0.17	55,395	55,395	55,395				
14	5			0.42	0.17	55,395	55,395	55,395				
15	6			0.42	0.17	55,395	55,395	55,395				
16	7			0.42	0.17	55,395	55,395	55,395	387,765			
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395				
21	12			0.42	0.17	55,395	55,395	55,395				
22	13			0.42	0.17	55,395	55,395	55,395				
23	14			0.42	0.17	55,395	55,395	55,395	387,765			
24	15			0.42	0.17	55,395	55,395	55,395				
25	16			0.42	0.17	55,395	55,395	55,395				
26	17			0.42	0.17	55,395	55,395	55,395				
27	18			0.42	0.17	55,395	55,395	55,395				
28	19			0.42	0.17	55,395	55,395	55,395				
29	20			0.42	0.17	55,395	55,395	55,395				
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395				
32	23			0.42	0.17	55,395	55,395	55,395				
33	24			0.42	0.17	55,395	55,395	55,395				
34	25			0.42	0.17	55,395	55,395	55,395				
35	26			0.42	0.17	55,395	55,395	55,395				
36	27			0.42	0.17	55,395	55,395	55,395				
37	28			0.42	0.17	55,395	55,395	55,395	387,765			
38	29			0.42	0.17	55,395	55,395	55,395				
39	30			0.42	0.17	55,395	55,395	55,395				
40	31			0.42	0.17	55,395	55,395	55,395	166,185			
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27	5.27	5.27			
42	Total (gal)	0	0	1,697,032	1,717,235	1,717,245	1,717,245	1,717,245	1,717,245			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div>Dove Pond (Golf Course Pond)</div> <div>Water Accounting Record</div> <div>August - Monthly Tab</div> <div><div>Lake Surface Area (acres)4.80</div><div>Pan Factor0.7</div></div>											
2												
3												
4												
5												
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7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878				
12	3			0.38	0.15	48,878	48,878	48,878				
13	4			0.38	0.15	48,878	48,878	48,878				
14	5			0.38	0.15	48,878	48,878	48,878				
15	6			0.38	0.15	48,878	48,878	48,878				
16	7			0.38	0.15	48,878	48,878	48,878	342,146			
17	8			0.38	0.15	48,878	48,878	48,878				
18	9			0.38	0.15	48,878	48,878	48,878				
19	10			0.38	0.15	48,878	48,878	48,878				
20	11			0.38	0.15	48,878	48,878	48,878				
21	12			0.38	0.15	48,878	48,878	48,878				
22	13			0.38	0.15	48,878	48,878	48,878				
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878				
27	18			0.38	0.15	48,878	48,878	48,878				
28	19			0.38	0.15	48,878	48,878	48,878				
29	20			0.38	0.15	48,878	48,878	48,878				
30	21			0.38	0.15	48,878	48,878	48,878	342,146			
31	22			0.38	0.15	48,878	48,878	48,878				
32	23			0.38	0.15	48,878	48,878	48,878				
33	24			0.38	0.15	48,878	48,878	48,878				
34	25			0.38	0.15	48,878	48,878	48,878				
35	26			0.38	0.15	48,878	48,878	48,878				
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146			
38	29			0.38	0.15	48,878	48,878	48,878				
39	30			0.38	0.15	48,878	48,878	48,878				
40	31			0.38	0.15	48,878	48,878	48,878	146,634			
41	Total (ac-ft)	0.00	0.00	4.71	4.65	4.65	4.65	4.65	4.65			
42	Total (gal)	0	0	1,535,410	1,515,207	1,515,218	1,515,218	1,515,218	1,515,218			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record September - Monthly Tab </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.30	0.12	39,102	39,102	39,102				
11	2			0.30	0.12	39,102	39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102	39,102	273,714			
17	8			0.30	0.12	39,102	39,102	39,102				
18	9			0.30	0.12	39,102	39,102	39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27	18			0.30	0.12	39,102	39,102	39,102				
28	19			0.30	0.12	39,102	39,102	39,102				
29	20			0.30	0.12	39,102	39,102	39,102				
30	21			0.30	0.12	39,102	39,102	39,102	273,714			
31	22			0.30	0.12	39,102	39,102	39,102				
32	23			0.30	0.12	39,102	39,102	39,102				
33	24			0.30	0.12	39,102	39,102	39,102				
34	25			0.30	0.12	39,102	39,102	39,102				
35	26			0.30	0.12	39,102	39,102	39,102				
36	27			0.30	0.12	39,102	39,102	39,102				
37	28			0.30	0.12	39,102	39,102	39,102	273,714			
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204			
40												
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60	3.60	3.60			
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060	1,173,060			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record October - Monthly Tab </div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.77</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.22	0.09	29,327	29,327	29,327				
11	2			0.22	0.09	29,327	29,327	29,327				
12	3			0.22	0.09	29,327	29,327	29,327				
13	4			0.22	0.09	29,327	29,327	29,327				
14	5			0.22	0.09	29,327	29,327	29,327				
15	6			0.22	0.09	29,327	29,327	29,327				
16	7			0.22	0.09	29,327	29,327	29,327	205,289			
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327				
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22	0.09	29,327	29,327	29,327				
22	13			0.22	0.09	29,327	29,327	29,327				
23	14			0.22	0.09	29,327	29,327	29,327	205,289			
24	15			0.22	0.09	29,327	29,327	29,327				
25	16			0.22	0.09	29,327	29,327	29,327				
26	17			0.22	0.09	29,327	29,327	29,327				
27	18			0.22	0.09	29,327	29,327	29,327				
28	19			0.22	0.09	29,327	29,327	29,327				
29	20			0.22	0.09	29,327	29,327	29,327				
30	21			0.22	0.09	29,327	29,327	29,327	205,289			
31	22			0.22	0.09	29,327	29,327	29,327				
32	23			0.22	0.09	29,327	29,327	29,327				
33	24			0.22	0.09	29,327	29,327	29,327				
34	25			0.22	0.09	29,327	29,327	29,327				
35	26			0.22	0.09	29,327	29,327	29,327				
36	27			0.22	0.09	29,327	29,327	29,327				
37	28			0.22	0.09	29,327	29,327	29,327	205,289			
38	29			0.22	0.09	29,327	29,327	29,327				
39	30			0.22	0.09	29,327	29,327	29,327				
40	31			0.22	0.09	29,327	29,327	29,327	87,981			
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79	2.79	2.79			
42	Total (gal)	0	0	888,922	909,124	909,137	909,137	909,137	909,137			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div>Dove Pond (Golf Course Pond) Water Accounting Record November - Monthly Tab</div> <div><div>Lake Surface Area (acres)4.80</div><div>Pan Factor0.8</div></div> <div>Signed: _____ Date: _____</div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551				
12	3			0.15	0.06	19,551	19,551	19,551				
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06	19,551	19,551	19,551				
15	6			0.15	0.06	19,551	19,551	19,551				
16	7			0.15	0.06	19,551	19,551	19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551				
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551				
21	12			0.15	0.06	19,551	19,551	19,551				
22	13			0.15	0.06	19,551	19,551	19,551				
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551				
28	19			0.15	0.06	19,551	19,551	19,551				
29	20			0.15	0.06	19,551	19,551	19,551				
30	21			0.15	0.06	19,551	19,551	19,551	136,857			
31	22			0.15	0.06	19,551	19,551	19,551				
32	23			0.15	0.06	19,551	19,551	19,551				
33	24			0.15	0.06	19,551	19,551	19,551				
34	25			0.15	0.06	19,551	19,551	19,551				
35	26			0.15	0.06	19,551	19,551	19,551				
36	27			0.15	0.06	19,551	19,551	19,551				
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40												
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80	1.80	1.80			
42	Total (gal)	0	0	586,532	586,532	586,530	586,530	586,530	586,530			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record December - Monthly Tab </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Dove Pond (Golf Course Pond)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Pan Lake Factor Tab
TWDB Link
<https://waterdatafortexas.org/dike-evaporation-rainfall>

Texas Water Development Board Monthly Pan Factor Used in Exap													
Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.71	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.72	0.81	0.77	0.7
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.71	0.71	0.71
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.72	0.73	0.76	0.79	0.81	0.79	0.73	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
512	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
513	0.76	0.73	0.72	0.71	0.65	0.72	0.73	0.76	0.79	0.81	0.79	0.73	0.73
601	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
604	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
607	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
701	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
702	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.71
703	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
704	0.76	0.73	0.72	0.71	0.65	0.72	0.73	0.76	0.79	0.81	0.79	0.73	0.73
705	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
706	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
707	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
708	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
709	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
710	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
711	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
712	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
713	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
801	0.7	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.69	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.69
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.69	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1008	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
1009	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1010	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1011	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1012	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1014	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1101	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1103	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1106	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1107	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1108	0.71	0.69	0.69	0.69	0.65	0.69	0.69	0.69	0.71	0.73	0.73	0.73	0.69
1109	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1210	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1211	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1212	0.74	0.72	0.7										

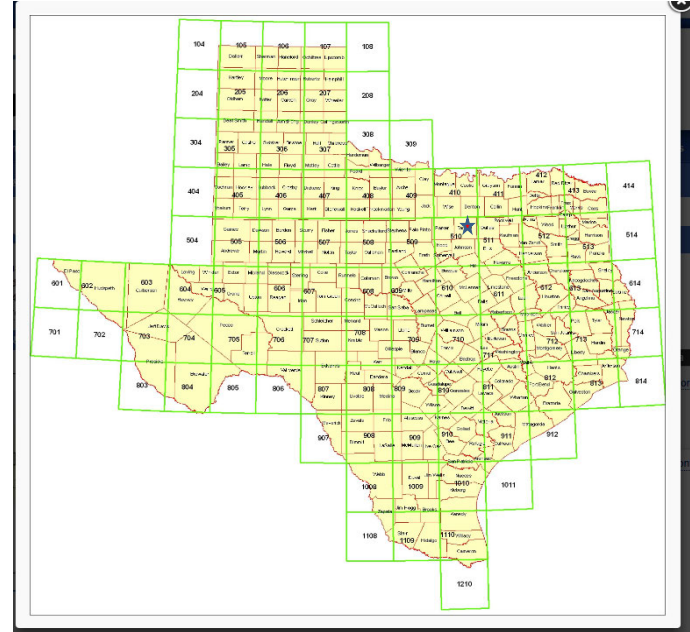
Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Evap Tab

EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board
Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.89	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510	1955	2.02	2.52	4.45	5.85	6.12	7.12	8.94	8.03	7.05	6.39	4.92	2.92	66.33
510	1956	2.81	2.67	5.57	6.00	6.92	9.20	11.41	11.42	9.26	6.56	3.95	3.07	78.64
510	1957	2.03	1.86	3.21	3.03	3.72	6.29	9.21	9.45	6.06	3.91	2.22	2.91	53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.60	7.42	7.11	4.77	2.77	1.97	56.66
510	1962	1.75	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.39	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510	1965	2.35	2.22	2.92	4.69	3.49	6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510	1966	1.54	1.83	4.48	4.81	4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.96	5.75	5.78	6.03	8.19	8.99	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.88	2.84	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510	1974	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510	1975	2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	50.69
510	1976	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	3.25	2.14	2.28	52.97
510	1977	1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	5.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.54	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.95	56.54
510	1992	1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	4.65	2.73	2.72	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	8.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.79	6.95	4.82	4.22	3.75	3.38	53.73
510	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.21
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

75th Percentile: 2.48 2.95 4.53 5.40 5.39 7.38 9.04 8.35 6.57 5.14 3.52 2.74 60.22



Jenna Rollins

From: Lindi Weber [REDACTED]
Sent: Wednesday, February 16, 2022 12:03 PM
To: Jenna Rollins
Cc: Sam Sewell
Subject: RE: Independence Water, LP & HW 2421 Land, LP - WRPERM 13823
Attachments: RFI Response WRPERM 13823 CTR WAP.pdf

Jenna,

Please find the attached response to the request for additional information dated February 15, 2022.

Thanks,
Lindi

 **PELTON**
LAND SOLUTIONS
FORT WORTH OFFICE
9800 Hillwood Parkway, Suite 250,
Fort Worth, Texas 76177

Lindi Weber

[REDACTED]
[o] 817.562.3350
[c] 214.458.5757

www.pelotonland.com

TBPE Firm No. 12207 | TBPLS Firm No. 10177700



February 16, 2022

Ms. Jenna Rollins
Project Manager, Water Rights Permitting Team
Water Rights Permitting and Availability Section
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Administrative Code § 11.143 Requiring Limited Mailed Notice
Unnamed Tributary of Marshall Branch, Trinity River Basin
Tarrant County

Ms. Rollins,

On behalf of Independence Water, L.P. and HW 2421 Land, L.P., we provide the following response to your letter dated February 15, 2022.

Comment #1 – 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 (Section 4.a. of the Technical Information Report).

- Section 4.a. of the Technical Information Report was changed to reflect the example language included in “Instructions for Completing the Water Rights Permitting Application, February 2022, Form TCEQ-10214A-inst. A copy of Section 4.a. from the Technical Information Report is included in **Attachment A**.

Comment #2 – Confirm the official name of the applicant is HW Land 2421, LP as provided in your most recent submittal. Staff notes that the official name in the Texas Secretary of State database is HW 2421 Land, L.P.

- I confirm that the official name of the applicant is HW 2421 Land, L.P. Per our phone conversation on February 16, 2022, you indicated that you do not need copies of the application reflecting the correct name.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to process this request.

Sincerely,

A handwritten signature in blue ink that reads "Lindi Weber". The signature is written in a cursive, flowing style.

Lindi Weber
Peloton Land Solutions
Office: 817.562.3350

ATTACHMENT A

Section 4.a of the Technical Information Report

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":

Applicant Independence Water, L.P. and HW 2421 Land, L.P. is located within the

Region C Planning Group. The applications is consistent with the 2022 State Water

Plan, which supports indirect reuse in a broad sense, identifying reuse "as valuable

and competitive water supply option in Texas". The state and regional water plans

generally do not address every possible change in individual water rights. The

application is consistent with the 2021 Region C Water Plan and the 2022 State Water Plan because there is nothing in the plans that conflict with the application.

- 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**

Project Location Maps are provided in Attachment 3

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

February 15, 2022

Ms. Lindi Weber
Peloton Land Solutions
9800 Hillwood Parkway, Suite 250
Fort Worth, TX 76177

VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code § 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

This acknowledges receipt, on January 24, 2022, of additional information and fees in the amount of \$606.56 (Receipt No. M211053, copy attached).

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

1. 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 (Section 4.a. of the *Technical Information Report*). For examples, see page 15 of the Instructions for Completing the Water Right Permitting Application (Form TCEQ-10214A-inst).
2. Confirm the official name of the applicant is HW Land 2421, L.P as provided in your most recent submittal. Staff notes that the official name in the Texas Secretary of State Database is HW 2421 Land, L.P.

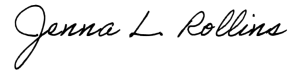
Staff notes additional information may be required prior to completion of technical review.

Please provide the requested information by March 17, 2022 or the application may be returned pursuant to Title 30 Texas Administrative Code § 281.18.

Ms. Lindi Weber
Peloton Land Solutions
Application No. 13823
February 15, 2022
Page 2 of 2

If you have any questions concerning this matter, please contact me via email at jenna.rollins@tceq.texas.gov or by telephone at (512) 239-1845.

Sincerely,

A handwritten signature in black ink that reads "Jenna L. Rollins". The signature is written in a cursive, flowing style.

Jenna Rollins, Project Manager
Water Rights Permitting Team
Water Rights Permitting and Availability Section

Attachment

CC: Sam Sewell



TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

<u>Fee Description</u>	<u>Fee Code</u> <u>Account#</u>	<u>Ref#1</u> <u>Ref#2</u>	<u>Check Number</u> <u>Card Auth.</u>	<u>CC Type</u> <u>Tran Code</u>	<u>Slip Key</u> <u>Document#</u>	<u>Tran Date</u>	<u>Tran Amount</u>
WTR USE PERMITS	WUP	M211053	19955		BS00092313	31-JAN-22	-\$606.56
	WUP	13823	013122	N	D2801778		
	WATER USE PERMITS	PELTON	RHDAVIS	CK			
		LAND					
		SOLUTIONS					
		INC					
					Total (Fee Code) :		-\$606.56
					Grand Total:		-\$105,008.63

RECEIVED
FEB 02 2022
Water Availability Division



January 24, 2022

Mr. Chris Kozlowski
Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

RE: Independence Water, LP and HW Land 2421, LP
Application No. 13823 Water Use Permit

Mr. Kozlowski,

Per our conference call with the TCEQ team on January 20, 2022, we are re-submitting the Water Rights Permitting Application for applicants Independence Water, LP and HW Land 2421, LP. We have addressed the comments provided during the conference and those provided in the informal RFI request letter dated January 10, 2022. We have also included a check to cover the application fee of \$606.56.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to complete the review.

Sincerely,

A handwritten signature in blue ink that reads "Lindi Weber". The signature is fluid and cursive, with the first name "Lindi" being more prominent than the last name "Weber".

Lindi Weber
Peloton Land Solutions
Office: 817.562.3350

Enclosures:

1. Administrative Information Checklist,
2. Administrative Information Report,
3. Technical Information Report,
- and 4. Attachments 1 through 10,
5. Check for Application Fee

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): _____

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

_____ **Administrative Information Report**
_____ Additional Co-Applicant Information
_____ Additional Co-Applicant Signature Pages
_____ Written Evidence of Signature Authority
_____ **Technical Information Report**
_____ USGS Map (or equivalent)
_____ Map Showing Project Details
_____ Original Photographs
_____ Water Availability Analysis
_____ **Worksheet 1.0**
_____ Recorded Deeds for Irrigated Land
_____ Consent For Irrigation Land
_____ **Worksheet 1.1**
_____ Addendum to Worksheet 1.1
_____ **Worksheet 1.2**
_____ Addendum to Worksheet 1.2
_____ **Worksheet 2.0**
_____ Additional W.S 2.0 for Each Reservoir
_____ Dam Safety Documents
_____ Notice(s) to Governing Bodies
_____ Recorded Deeds for Inundated Land
_____ Consent For Inundation Land

Y/N

_____ **Worksheet 3.0**
_____ Additional W.S 3.0 for each Point
_____ Recorded Deeds for Diversion Points
_____ Consent For Diversion Access
_____ **Worksheet 4.0**
_____ TPDES Permit(s)
_____ WWTP Discharge Data
_____ 24-hour Pump Test
_____ Groundwater Well Permit
_____ Signed Water Supply Contract
_____ **Worksheet 4.1**
_____ **Worksheet 5.0**
_____ Addendum to Worksheet 5.0
_____ **Worksheet 6.0**
_____ Water Conservation Plan(s)
_____ Drought Contingency Plan(s)
_____ Documentation of Adoption
_____ **Worksheet 7.0**
_____ Accounting Plan
_____ **Worksheet 8.0**
_____ 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) 239-4691.**

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."

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants _____

(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?

(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 : _____ (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:

Title:

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

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at

<https://tools.usps.com/go/ZipLookupAction!input.action>.

Name:

Mailing Address:

City:

State:

ZIP Code:

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 type="checkbox"/> Other _____

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number: _____ SOS Charter (filing) Number: _____

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 2
(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?

HW Land 2421, L.P.

(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 : _____ (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: L. Russell Laughlin

Title: Executive Vice President

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application? Please see Attachment 2

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: HW Land 2421, L.P.

Mailing Address: 9800 Hillwood Pkwy, # 300

City: Fort Worth

State: Texas

ZIP Code: 76177

Indicate an X next to the type of Applicant:

___ Individual

___ Sole Proprietorship-D.B.A.

☒ Partnership

___ Corporation

___ Trust

___ Estate

___ Federal Government

___ State Government

___ County Government

___ City Government

___ Other Government

___ Other _____

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number 3203849015 SOS Charter (filing) Number: 0801061397

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:

Title:

Organization Name:

Mailing Address:

City:

State:

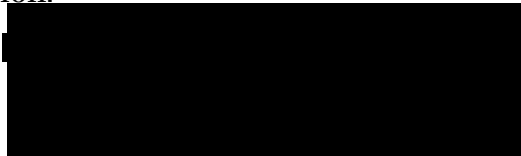
ZIP Code:

Phone No.:

Extension:

Fax No.:

E-mail



4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION (Instructions, Page. 9)

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

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

First and Last Name:

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) 239-4691, 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, L. Russell Laughlin

Executive Vice President

(Typed or printed name)

(Title)

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

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.

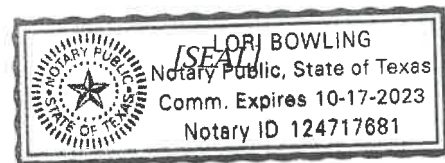
Signature: 
(Use blue ink)

Date: 11/30/21

Subscribed and Sworn to before me by the said L. Russell Laughlin
on this: 30 day of November, 2021.
My commission expires on the 17 day of October, 2023.

Lori Bowling
Notary Public

Tarrant
County, Texas



If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

TECHNICAL INFORMATION REPORT

WATER RIGHTS PERMITTING

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

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

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
- 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 (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 (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. See instructions page. 6.***

Water Right (Certificate or Permit) number you are requesting to amend: _____

Applicant requests to sever and combine existing water rights from one or more Permits or Certificates into another Permit or Certificate? **Y / 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**

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**

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**

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**

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)

- e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? **Y / 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** ***If yes, call the Water Availability Division at (512) 239-4691 to discuss.***

Additionally, all amendments require:

- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page.34**
- **Maps – See instructions Page. 15.**
- **Additional Documents and Worksheets may be required (see within).**

3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)

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

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

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

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

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

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":

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

Project Location Maps are provided in Attachment 3

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>

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

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

1. Location Information Regarding the Lands to be Irrigated

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

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

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.

If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described. See Attachments 4 and 5

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:

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.

- Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.
- See Worksheet 1.2, Marshall Criteria, and submit if required.
- See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

WORKSHEET 1.1

INTERBASIN TRANSFERS, TWC § 11.085

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

Applicant requests to transfer State Water to another river basin within the State? Y / N **NO**

1. Interbasin Transfer Request (Instructions, Page. 20)

- a. Provide the Basin of Origin. _____
- b. Provide the quantity of water to be transferred (acre-feet). _____
- c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:

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

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

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

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

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

- a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
- b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
- c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example - expert plans and/or reports documents may be provided to show the cost);

- d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (<http://www.twdb.texas.gov/waterplanning/swp/index.asp>);
- e. address the factors identified in the applicable most recently approved regional water plans which address the following:
 - (i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
 - (ii) the amount and purposes of use in the receiving basin for which water is needed;
 - (iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;
 - (iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;
 - (v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and
 - (vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (*if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;
- (f) proposed mitigation or compensation, if any, to the basin of origin by the applicant; and
- (g) the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

WORKSHEET 1.2

NOTICE. “THE MARSHALL CRITERIA”

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

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

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

1. The “Marshall Criteria” (Instructions, Page. 21)

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

- a. Administrative Requirements and Fees. Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.
- b. Beneficial Use. Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.
- c. Public Welfare. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.
- d. Groundwater Effects. Discuss effects of proposed amendment on groundwater or groundwater recharge.

- e. State Water Plan. Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at:
<http://www.twdb.texas.gov/waterplanning/swp/index.asp>.
- f. Waste Avoidance. Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.
- g. Impacts on Water Rights or On-stream Environment. Explain how proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

WORKSHEET 2.0

Impoundment/Dam Information

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

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

1. Storage Information (Instructions, Page. 21)

- a. Official USGS name of reservoir, if applicable: _____
- b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: _____.
- c. The impoundment is on-channel _____ or off-channel _____ (mark one)
 1. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4691? **Y / N**
 2. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? **Y / N**
- d. Is the impoundment structure already constructed? **Y / N**
 - i. For already constructed **on-channel** structures:
 1. Date of Construction: _____
 2. Was it constructed to be an exempt structure under TWC § 11.142? **Y / N**
 - a. If Yes, is Applicant requesting to proceed under TWC § 11.143? **Y / N**
 - b. If No, has the structure been issued a notice of violation by TCEQ? **Y / N**
 3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? **Y / N**
 - a. If yes, provide the Site No. _____ and watershed project name _____;
 - b. Authorization to close "ports" in the service spillway requested? **Y / N**
 - ii. For **any** proposed new structures or modifications to structures:
 1. Applicant **must** contact TCEQ Dam Safety Section at (512) 239-0326, *prior to submitting an Application*. Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? **Y / N**
Provide the date and the name of the Staff Person _____
 2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ has confirmed that:
 - a. No additional dam safety documents required with the Application. **Y / N**
 - b. Plans (with engineer's seal) for the structure required. **Y / N**
 - c. Engineer's signed and sealed hazard classification required. **Y / N**
 - d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. **Y / N**

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

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

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

2. Structure Location (Instructions, Page. 23)

- a. On Watercourse (if on-channel) (USGS name):_____
- b. Zip Code: _____
- c. In the _____ Original Survey No. _____, Abstract No. _____, _____ County, Texas.

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

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

Limited Warranty Deed for tract is included in Attachment 4. Consent Letter for Use of Land is included in Attachment 5.

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

Latitude _____°N, Longitude _____°W.

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

- di. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program):_____
- dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N**

WORKSHEET 3.0

DIVERSION POINT (OR DIVERSION REACH) INFORMATION

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

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

1. Diversion Information (Instructions, Page. 24)

- a. This Worksheet is to add new (select 1 of 3 below):
 1. _____ 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) 239-4691, 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: See Attachments 4 and 5
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 _____.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses _____% and explain the method of calculation:_____

Is the source of the discharged water return flows? **Y / N** If yes, provide the following information:

1. The TPDES Permit Number(s)._____ (attach a copy of the **current** TPDES permit(s))
2. Applicant is the owner/holder of each TPDES permit listed above? **Y / N**

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

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").
 4. The percentage of return flows from groundwater_____, surface water_____?
 5. If any percentage is surface water, provide the base water right number(s) _____.
- c. Is the source of the water being discharged groundwater? **Y / N** If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped:_____
 2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers_____.
 3. Indicate how the groundwater will be conveyed to the stream or reservoir.
 4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- See Attachment 6 - 24-hour Pump Tests**
- ci. Is the source of the water being discharged a surface water supply contract? **Y / N**
If yes, provide the signed contract(s).
- cii. Identify any other source of the water_____

WORKSHEET 4.1 DISCHARGE POINT INFORMATION

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

Instructions, Page 27.

For water discharged at this location provide:

- a. The amount of water that will be discharged at this point is _____ acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.
- b. Water will be discharged at this point at a maximum rate of _____ cfs or _____ gpm.
- c. Name of Watercourse as shown on Official USGS maps: _____

d. Zip Code: _____

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

g. Point is at:

Latitude _____°N, Longitude _____°W.

Coordinate is provided at centerline of dam to allow for discharge to be located anywhere along perimeter of on-channel pond.

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

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

Map submitted must clearly identify each discharge point. See instructions Page. 15.

See project location maps in Attachment 3.

WORKSHEET 5.0

ENVIRONMENTAL INFORMATION

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

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

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

a. Identify the appropriate description of the water body.

☐ Stream

☐ Reservoir

Average depth of the entire water body, in feet: _____

☐ Other, specify: _____

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. **See Attachment 8, Addendum to Worksheet 5.0.**
2. Measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure).
3. If the application includes a proposed reservoir, also include:
 - i. A brief description of the area that will be inundated by the reservoir.
 - ii. If a United States Army Corps of Engineers (USACE) 404 permit is required, provide the project number and USACE project manager.
 - iii. A description of how any impacts to wetland habitat, if any, will be mitigated if the reservoir is greater than 5,000 acre-feet.

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

For all bed and banks applications:

- a. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure).
See Attachment 8, Addendum to Worksheet 5.0.

- b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements. **See Attachment 8, Addendum to Worksheet 5.0.**

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

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

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

See Attachment 8, Addendum to Worksheet 5.0 for tables of water chemistry for all existing wells sampled. Full results of Analytical Results are provided in Attachment 9.

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.

- b. If groundwater will be used, provide the depth of the well _____ and the name of the aquifer from which water is withdrawn _____.

See Attachment 8, Addendum to Worksheet 5.0 for depth of existing wells sampled.

WORKSHEET 6.0

Water Conservation/Drought Contingency Plans

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

Instructions, Page 31.

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

1. Water Conservation Plans

- a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture - including irrigation, wholesale):

1. Request for a new appropriation or use of State Water.
2. Request to amend water right to increase appropriation of State Water.
3. Request to amend water right to extend a term.
4. Request to amend water right to change a place of use.
**does not apply to a request to expand irrigation acreage to adjacent tracts.*
5. Request to amend water right to change the purpose of use.
**applicant need only address new uses.*
6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water
**including return flows, contract water, or other State Water.*

- b. If Applicant is requesting any authorization in section (1)(a) above, indicate each use for which Applicant is submitting a Water Conservation Plan as an attachment:

1. ____Municipal Use. See 30 TAC § 288.2. **
2. ____Industrial or Mining Use. See 30 TAC § 288.3.
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

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

See Attachment 10 for Accounting Plan and Accounting Plan Summary.

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 _____ 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 _____ Maximum annual diversion of State Water in acre-feet. **	
Recreational Storage Fee	<i>Only for those with Recreational Storage.</i> Multiply \$1.00 x _____ acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	
Storage Fee	<i>Only for those with Storage, excluding Recreational Storage.</i> Multiply 50¢ x _____ 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) 239-4691.	
TOTAL		\$

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		\$

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		\$

ATTACHMENT 1

Signatory Requirements – Independence Water, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF
INDEPENDENCE WATER GP, LLC

January 1, 2021

The undersigned, being the sole member of Independence Water GP, LLC, a Texas limited liability company (the “Company”), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity listed set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

Name	Office
------	--------

L. Russell Laughlin	Executive Vice President
---------------------	--------------------------

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.


**[The Balance of this Page Intentionally Left Blank;
Signature Page to Follow.]**

This written consent of the sole member of Independence Water GP, LLC is executed to be effective as of the date first above written.

SOLE MEMBER:

HILLWOOD MANAGEMENT, LTD.,
a Texas limited partnership

By: Hillwood Property Company,
a Texas corporation,
its general partner

By: 
Stephen D. Parker
Assistant Secretary

ATTACHMENT 2

Signatory Requirements – HW Land 2421, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF

HW 2421 LAND GP, LLC

January 1, 2021

The undersigned, being the sole member of HW 2421 Land GP, LLC, a Texas limited liability company (the “Company”), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

<u>Name</u>	<u>Office</u>
-------------	---------------

L. Russell Laughlin	Executive Vice President
---------------------	--------------------------

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.

RESOLVED, that the Secretary and/or Assistant Secretary of the Company is directed to place this Written Consent of the Sole Member of HW 2421 Land GP, LLC, in the Company’s corporate records.

This written consent of the sole member of HW 2421 Land GP, LLC is executed to be effective as of the date first above written.

SOLE MEMBER:

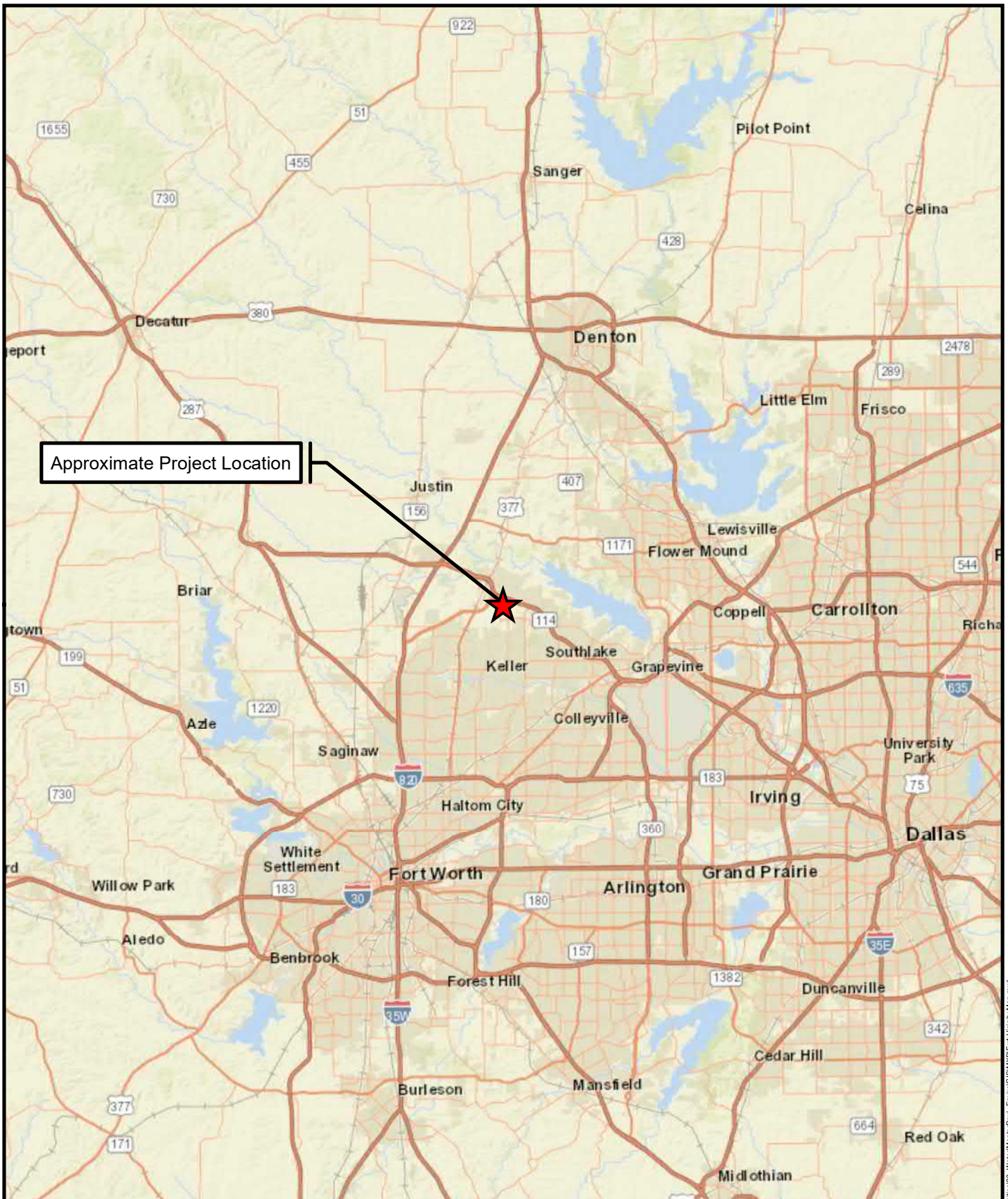
HILLWOOD DEVELOPMENT COMPANY, LLC,
a Texas limited liability company

By: 

Stephen D. Parker
Assistant Secretary

ATTACHMENT 3

Project Location Maps



Approximate Project Location

SHEET NO. 1

GRAPHIC SCALE

0 8 Miles



CTR Golf Course

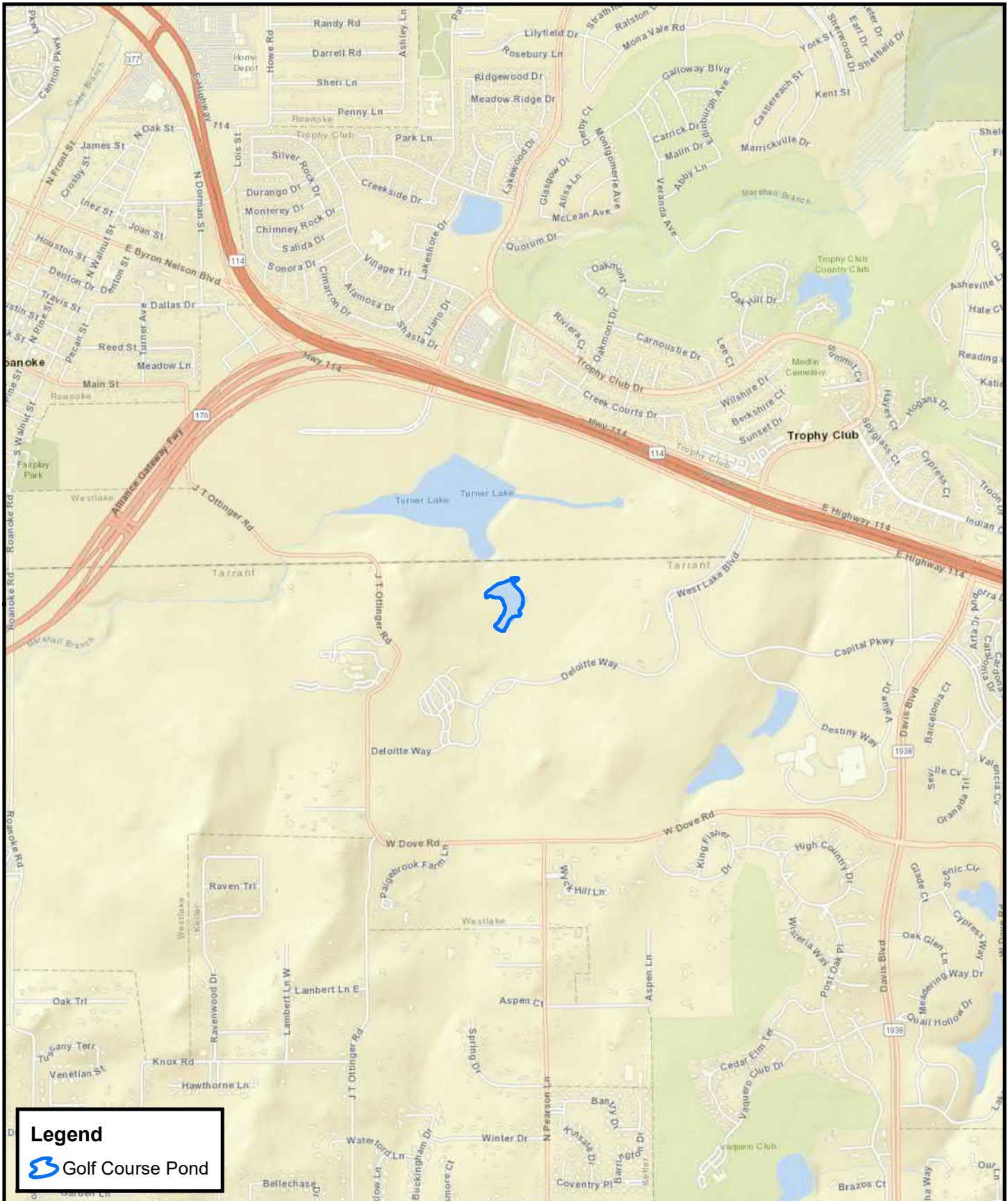
Vicinity Exhibit

Town of Westlake, Tarrant County, Texas


Prepared By:

PELTON
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350



Legend

 Golf Course Pond

SHEET NO. 2

GRAPHIC SCALE

0 2,000 Feet



CTR Golf Course

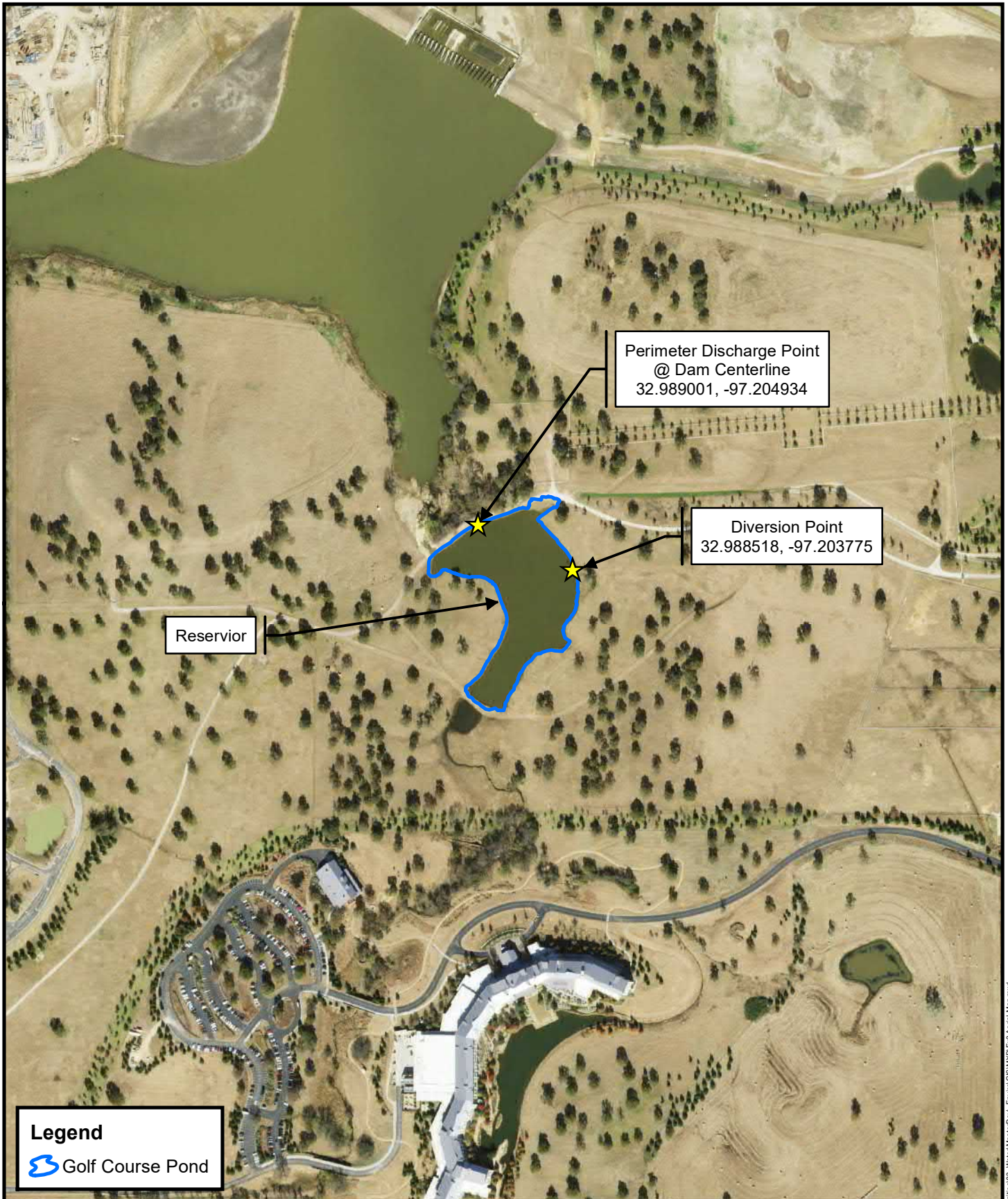
Local Area Map

Town of Westlake, Tarrant County, Texas


Prepared By:

PELTON
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350



Legend

 Golf Course Pond

SHEET NO. 3

GRAPHIC SCALE

0 500 Feet



CTR Golf Course

Aerial Exhibit

Town of Westlake, Tarrant County, Texas

Prepared By:

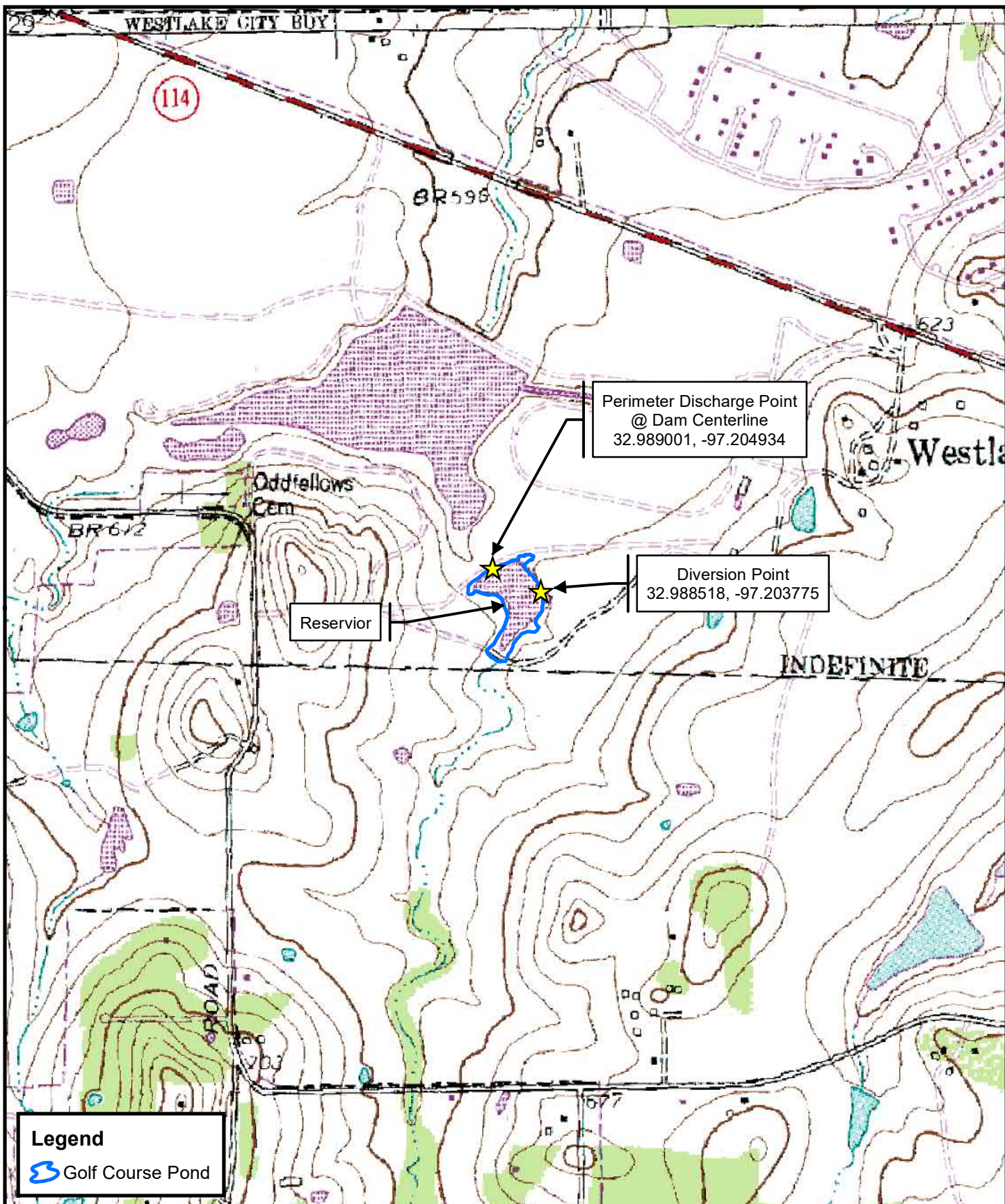
 **PELTON**
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Date: 1/20/2022

Source: TNRIS 2018

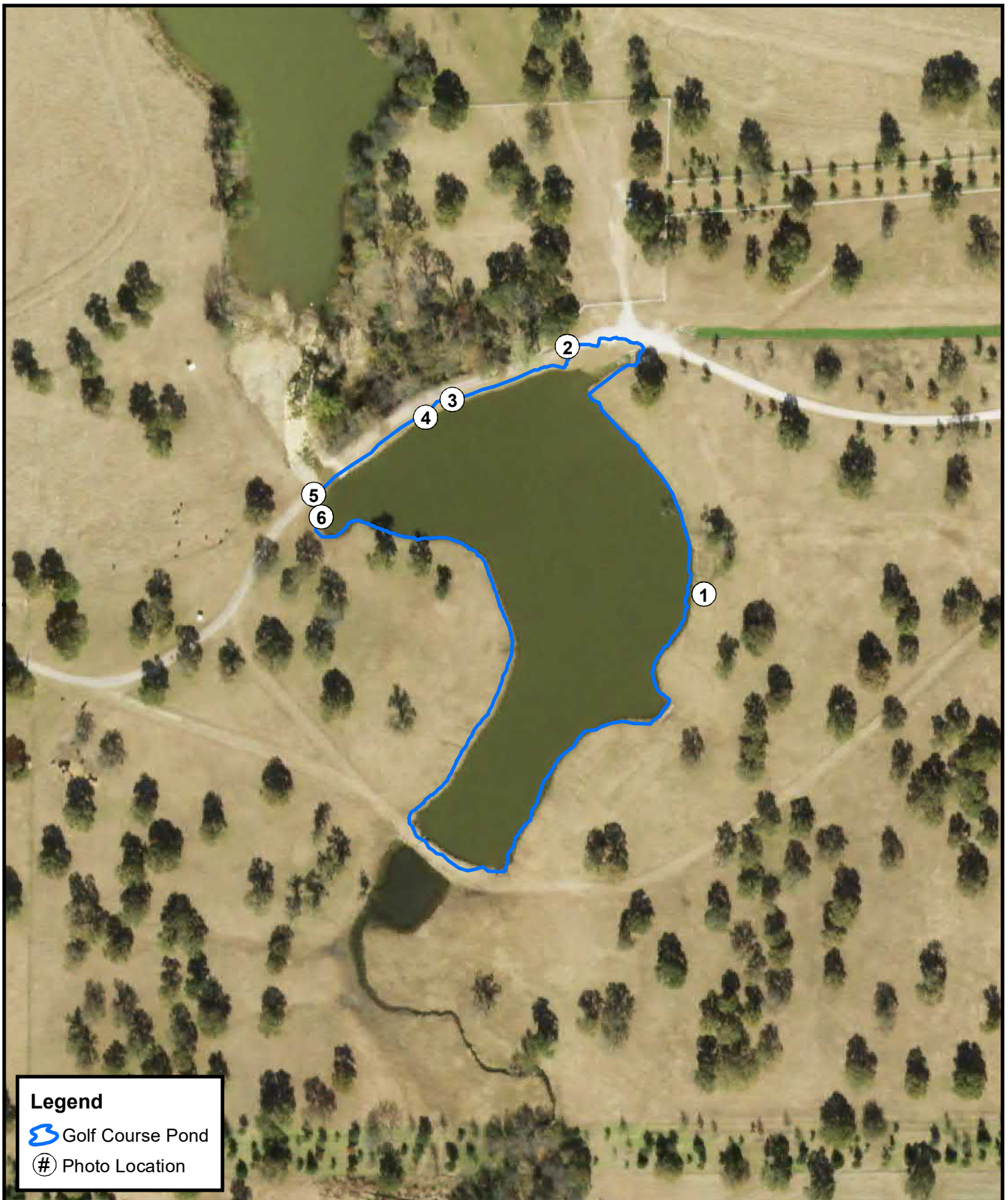
File Path: G:\081HW21002_CTR_Aerial\Map\Dev\Enviro\GIS\MXD\EX3 Aerial Map.mxd





SHEET NO. 4
GRAPHIC SCALE
0 1,000 Feet
N
W E
S

CTR Golf Course
USGS Topographic Map
Town of Westlake, Tarrant County, Texas

Prepared By:
PELTON
LAND SOLUTIONS
9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350
Date: 1/20/2022



Legend

-  Golf Course Pond
-  Photo Location

SHEET NO. 5

GRAPHIC SCALE

0 200 Feet



CTR Golf Course

Photo Location Exhibit

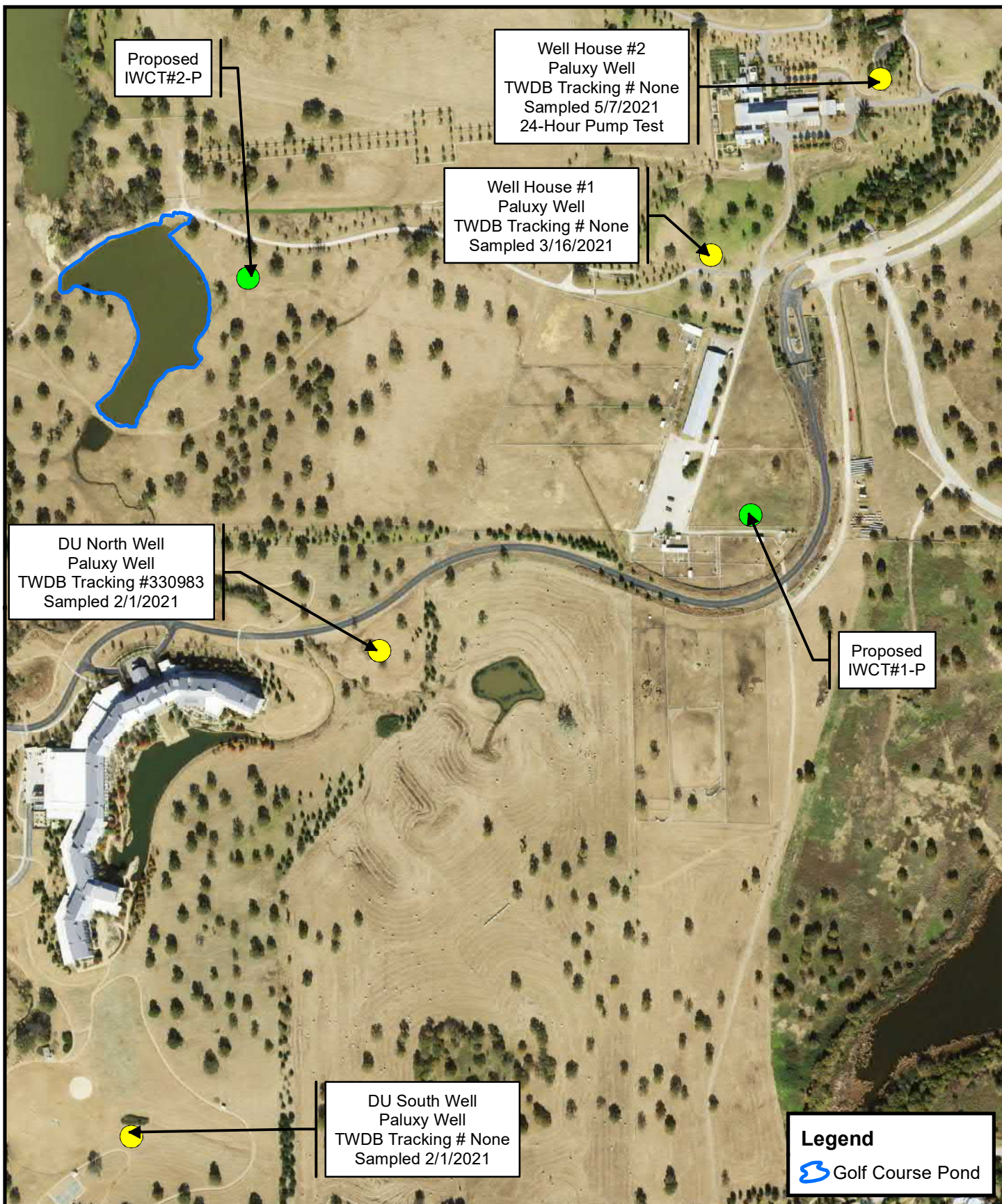
Town of Westlake, Tarrant County, Texas

Prepared By:



9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Date: 1/20/2022



SHEET NO. 6
GRAPHIC SCALE

0 500 Feet



CTR Golf Course

Water Well Exhibit

Town of Westlake, Tarrant County, Texas

Prepared By:

PELTON
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

Date: 1/24/2022

Source: TNRIS 2018

File Path: G:\OBHWA21002_CTR_Amenities\03_Water\WaterDev_Enviro\GIS\MXD\TCEQ Well Map.mxd

ATTACHMENT 4

Limited Warranty Deed for Structure Location & Irrigation Area

17

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

LIMITED WARRANTY DEED

THE STATE OF TEXAS

COUNTIES OF DENTON
AND TARRANT

§
§
§
§

KNOW ALL MEN BY THESE PRESENTS

THAT, AIL Investment, L.P., a Texas limited partnership ("Grantor"), for and in consideration of \$10.00 and other good and valuable consideration in hand paid by HW 2421 Land, LP, a Texas limited partnership ("Grantee"), whose address is Three Lincoln Centre, 5430 LBJ Freeway, Suite 800, Dallas, Texas 75240, the receipt and sufficiency of which are hereby acknowledged, has GRANTED AND CONVEYED and by these presents does GRANT AND CONVEY unto Grantee, (i) the real property situated in Denton and Tarrant Counties, Texas, more particularly described on Exhibit "A" attached hereto and incorporated herein by reference, and (ii) together with all and singular, the rights, privileges, hereditaments and appurtenances pertaining to such real property, including, any and all improvements and fixtures currently attached to and located thereon, if any (collectively, the "Property").

For the same consideration, Grantor has GRANTED AND CONVEYED, and by these presents does GRANT AND CONVEY unto Grantee, without warranty, express or implied, all interest of Grantor, if any, in (1) strips and gores, if any, between the Property and any abutting properties, whether owned or claimed by deed, limitations, or otherwise, and whether located inside or outside the Property; and (2) any land lying in or under the bed of any creek, stream, or waterway or any highway, avenue, street, road, alley, easement or right-of-way, open or proposed, in, or across, abutting or adjacent to the Property.

This conveyance is made and accepted subject to the matters set forth in Exhibit "B" attached hereto and made a part hereof for all purposes, but only to the extent that such exceptions are valid, existing and affect the Property (the "Permitted Exceptions").

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions, together with, all and singular, the rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, forever; and, subject to the Permitted Exceptions, Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular, the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof IN ACCORDANCE WITH AND STRICTLY LIMITED BY THE FOLLOWING SPECIFIC LIMITED WARRANTY OF TITLE BUT NOT OTHERWISE, THIS SPECIFIC LIMITED WARRANTY, AS HEREINAFTER SET FORTH, BEING THE ONLY WARRANTY OF TITLE MADE HEREUNDER BY GRANTOR:

Grantor was conveyed title to the Property pursuant to that certain Limited Warranty Deed, dated June 17, 1998, effective the 31st day of December, 1997, and filed in the real property records of Denton County, Texas, on June 19, 1998, under Document No. 98-R0052417 (the "Grantor Deed"). With respect to the Property conveyed by the Grantor Deed, Grantor shall pay to Grantee or its successors and assigns any loss Grantee or its successors and assigns may sustain by reason of defects, liens or encumbrances with respect to which Grantor was given a limited warranty of title to the Property in the Grantor Deed, such payment and sole liability hereunder on the part of Grantor not to exceed the amount payable to Grantor pursuant to the limited warranty of title contained in the Grantor Deed. This limited warranty shall constitute a limited warranty to Grantee and its successors only as to the same matters for which Grantor received a limited warranty of title and is limited to the amount of the warranty under the Grantor Deed. Under no circumstances shall Grantor be liable to Grantee or its successors for any sum which is not recoverable or payable to Grantor under the warranty of title contained in the Grantor Deed, it being the intention of Grantor to limit Grantor's exposure to any loss incurred by reason of the breach by Grantor of this limited warranty to those sums payable to Grantor under the warranty of title under the Grantor Deed, and no other. It is expressly intended that this specific limited warranty shall extend solely to Grantee and its successors and to no other parties.

This conveyance is being made by Grantor and accepted by Grantee subject to taxes for the year 2009, the payment of which Grantee assumes, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

[Remainder of this page intentionally blank.]

EXECUTED this 6th day of July, 2009, to be effective at 11:59p.m, on December 31, 2008.

GRANTOR:

AIL Investment, L.P.,
a Texas limited partnership

By: AIL GP, LLC,
a Texas limited liability company,
its general partner


By: 

M. Thomas Mason
Executive Vice President

THE STATE OF TEXAS §
 §
COUNTY OF DALLAS §

This instrument was acknowledged before me on this 6th day of July, 2009, by M. Thomas Mason, Executive Vice President of AIL GP, LLC, a Texas limited liability company, the general partner of AIL Investment, L.P., a Texas limited partnership, on behalf of said limited partnership.





Notary Public in and for the State of Texas

EXHIBIT "A"

LEGAL DESCRIPTION

[SEE ATTACHED.]

Unofficial Document

PARCEL No. 1

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, the Jessie Gibson Survey, Abstract No. 592 and No. 593, the J. Bacon Survey, Abstract No. 2026, the Richard Eads Survey, Abstract No. 492, the Jessie Sutton Survey, Abstract No. 1451, the Charles Medlin Survey, Abstract No. 1084, the Greenbury B. Hendricks Survey, Abstract No. 680, and the Memucan Hunt Survey, Abstract No. 756, Tarrant County, Texas, and the Jessie Gibson Survey, Abstract No. 493, the J. Bacon Survey, Abstract No. 1565, the Richard Eads Survey, Abstract No. 393, the Jessie Sutton Survey, Abstract No. 1154, the Charles Medlin Survey, Abstract No. 823, and the M.E.P. and P.R.R. Co. Survey, Abstract No. 923, Denton County, Texas, and being a portion of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas and in Clerk's Filing Number 98-R0052417, Real Property Records of Denton County, Texas, and being more particularly described as follows:

BEGINNING at the northeast corner of that certain tract of land described by deed to Westlake Retail Associates, Ltd., as recorded in Clerk's Filing Number 98-R0118649, Real Property Records of Denton County, Texas; said point being in the southerly right-of-way line of State Highway 114 (a variable width right-of-way);

THENCE S 75°23'15"E, 177.04 feet along the southerly right-of-way line of said State Highway 114;

THENCE N 35°10'12"E, 64.12 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 83°32'53"E, 280.71 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°20'18"E, 99.79 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 68°06'43"E, 312.60 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE N 71°04'40"E, 72.01 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°23'17"E, 420.11 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 43°54'26"E, 76.22 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 86°58'32"E, 198.85 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°13'09"E, 55.83 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the right;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the right, an arc distance of 1371.81 feet, through a central angle of 10°18'56", having a radius of 7619.44 feet, the long chord of which bears S 70°13'39"E, 1369.96 feet;

THENCE S 65°08'39"E, 819.44 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 61°06'42"E, 300.72 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 72°37'39"E, 151.61 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 65°07'20"E, 472.53 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the left, an arc distance of 274.47 feet, through a central angle of 02°44'07", having a radius of 5749.58 feet, the long chord of which bears S 66°27'19"E, 274.45 feet, said point being at the intersection of the southerly right-of-way line of said State Highway 114 and the northwesterly right-of-way line of Westlake Parkway (a variable width right-of-way);

THENCE S 22°10'36"W, 14.00 feet along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 24°16'35"E, 73.61 feet continuing along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 19°13'50"W, 299.02 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 146.07 feet, through a central angle of 07°10'06", having a radius of 1167.50 feet, the long chord of which bears S 22°48'53"W, 145.97 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 87.12 feet, through a central angle of 12°28'44", having a radius of 400.00 feet, the long chord of which bears S 32°38'18"W, 86.95 feet;

THENCE S 38°52'40"W, 318.92 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 435.19 feet, through a central angle of $29^{\circ}20'05''$, having a radius of 850.00 feet, the long chord of which bears $S\ 53^{\circ}32'42''W$, 430.45 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 149.47 feet, through a central angle of $33^{\circ}58'22''$, having a radius of 252.08 feet, the long chord of which bears $S\ 85^{\circ}11'56''W$, 147.29 feet to the beginning of a reverse curve to the left;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said reverse curve to the left, an arc distance of 35.64 feet, through a central angle of $30^{\circ}56'35''$, having a radius of 66.00 feet, the long chord of which bears $S\ 86^{\circ}42'50''W$, 35.21 feet to the most northerly terminus of said Westlake Parkway;

THENCE $S\ 12^{\circ}42'02''E$, 189.35 feet along the terminus of said Westlake Parkway to the most southerly terminus of said Westlake Parkway and the beginning of a non-tangent curve to the right, said point also being in the westerly property line of that certain tract of land described by deed to FMR Texas Limit Partnership, as recorded in Volume 13457, Page 403, County Records, Tarrant County, Texas, and in Clerk's Filing Number 98-R0091571, Real Property Records of Denton County, Texas;

THENCE along the westerly property line of said FMR tract and with said non-tangent curve to the right, an arc distance of 38.39 feet, through a central angle of $01^{\circ}39'03''$, having a radius of 1332.50 feet, the long chord of which bears $S\ 77^{\circ}16'36''W$, 38.39 feet;

THENCE $S\ 09^{\circ}40'08''E$, 892.93 feet continuing along the westerly property line of said FMR tract;

THENCE $S\ 16^{\circ}36'28''W$, 1518.12 feet continuing along the westerly property line of said FMR tract;

THENCE $S\ 00^{\circ}59'38''E$, 573.79 feet continuing along the westerly property line of said FMR tract;

THENCE $S\ 11^{\circ}34'10''E$, 564.14 feet continuing along the westerly property line of said FMR tract to the northerly right-of-way line of Dove Road (a variable width right-of-way);

THENCE $S\ 70^{\circ}31'18''W$, 349.16 feet along the northerly right-of-way line of said Dove Road to the beginning of a curve to the right;

THENCE continuing along the northerly right-of-way line of said Dove Road and with said curve to the right, an arc distance of 253.38 feet, through a central angle of $19^{\circ}21'24''$, having a radius of 750.00 feet, the long chord of which bears $S\ 80^{\circ}12'00''W$, 252.18 feet;

THENCE S 89°52'43"W, 361.81 feet continuing along the northerly right-of-way line of said Dove Road to the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13544, Page 24, County Records, Tarrant County, Texas;

THENCE N 00°26'57"E, 856.11 feet along the east property line of said AIL tract to the northeast property corner of said AIL tract;

THENCE S 87°44'39"W, 487.27 feet along the north property line of said AIL tract to the northwest property corner of said AIL tract;

THENCE S 00°27'26"W, 837.96 feet along the west property line of said AIL tract returning to the northerly right-of-way line of said Dove Road;

THENCE S 89°52'43"W, 412.49 feet continuing along the northerly right-of-way line of said Dove Road;

THENCE S 88°54'36"W, 100.66 feet continuing along the northerly right-of-way line of said Dove Road to the southeast property corner of that certain tract of land described by deed to DCLI LLC, as recorded in document number D208246568, County Records, Tarrant County, Texas;

THENCE N 01°05'24"W, 1442.77 feet along the east property line of said DCLI tract;

THENCE N 40°02'39"E, 871.03 feet continuing along the east property line of said DCLI tract;

THENCE N 00°32'43"W, 545.49 feet continuing along the east property line of said DCLI tract to northeast property corner of said DCLI tract;

THENCE S 89°27'17"W, 1824.60 feet along the north property line of said DCLI tract to the most northwesterly property corner of said DCLI tract;

THENCE S 58°07'29"W, 519.96 feet along the westerly property line of said DCLI tract;

THENCE S 26°47'41"W, 340.17 feet continuing along the westerly property line of said DCLI tract;

THENCE S 24°21'01"W, 227.62 feet continuing along the westerly property line of said DCLI tract;

THENCE S 20°32'10"W, 243.20 feet continuing along the westerly property line of said DCLI tract;

THENCE S 00°45'29"E, 357.87 feet continuing along the westerly property line of said DCLI tract to the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Document Number D208228230, County Records, Tarrant County, Texas;

THENCE S 89°49'56"W, 1895.38 feet along said AIL boundary line and crossing said Ottinger Road and then along the north property line of that certain tract of land described by deed to Hillwood Investment Land, L.P., as recorded in Document Number D207311517, County Records, Tarrant County, Texas, to the northwest property corner of said Hillwood Investment Land tract;

THENCE S 00°05'13"W, 1321.04 feet along said AIL boundary line;

THENCE S 89°14'09"W, 1326.57 feet continuing along said AIL boundary line;

THENCE S 00°38'31"E, 3279.65 feet continuing along said AIL boundary line;

THENCE S 89°25'42"W, 738.33 feet continuing along said AIL boundary line;

THENCE N 01°20'34"W, 432.68 feet continuing along said AIL boundary line;

THENCE S 89°57'12"W, 102.66 feet continuing along said AIL boundary line;

THENCE N 00°06'11"W, 948.90 feet continuing along said AIL boundary line;

THENCE S 89°49'45"W, 1835.53 feet continuing along said AIL boundary line to the most westerly southwest property corner of said AIL tract, being in the approximate center line of Roanoke Road;

THENCE N 00°05'27"W, 1067.63 feet along the boundary line of said AIL tract and in the approximate center line of said Roanoke Road to easterly boundary line of a 5.200 acre Town of Westlake tract described in Volume 15922, page 268, County Records, Tarrant County, Texas, and to the beginning of a non-tangent curve to the left;

THENCE along the easterly boundary line of said 5.200 acre Town of Westlake tract and with said non-tangent curve to the left, an arc distance of 47.56 feet, through a central angle of 03°56'58", having a radius of 690.00 feet, the long chord of which bears N 30°47'19"E, 47.55 feet, to a point in the westerly boundary line of a 2.544 acre Town of Westlake tract dedicated for Roanoke Road right-of-way, as recorded in Volume 15922, Page 266, County Records, Tarrant County, Texas;

THENCE S 00°19'49"E, 155.71 feet along the westerly boundary line of said 2.544 acre tract to the most southerly point in the boundary of said 2.544 acre tract;

THENCE N 26°35'53"E, 165.50 feet along the easterly boundary line of said 2.544 acre tract to the beginning of a curve to the left;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the left, an arc distance of 616.13 feet, through a central angle of 46°26'58", having a radius of 760.00 feet, the long chord of which bears N 03°22'24"E, 599.39 feet;

THENCE N 19°51'05"W, 216.71 feet continuing along the easterly property line of said 2.544 acre tract to the beginning of a curve to the right;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the right, an arc distance of 328.80 feet, through a central angle of 20°02'29", having a radius of 940.00 feet, the long chord of which bears N 09°49'50"W, 327.13 feet to the south property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 441, County Records, Tarrant County, Texas;

THENCE N 89°30'04"E, 2647.12 feet along the south property line of said AIL tract to the southeast property corner of said AIL tract;

THENCE N 00°14'01"W, 664.18 feet along the east property line of said AIL tract and then along the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas, to the northeast property corner of said AIL Investment, L.P., tract as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas;

THENCE N 89°26'44"W, 2649.59 feet along the north property line of said AIL tract and then along the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 14178, Page 432, County Records, Tarrant County, Texas, returning to the approximate center line of the aforementioned Roanoke Road;

THENCE N 00°29'48"W, 1619.28 feet along the boundary line of said AIL tract;

THENCE N 87°52'45"E, 23.60 feet continuing along the boundary line of said AIL tract;

THENCE N 00°08'55"E, 131.69 feet continuing along the boundary line of said AIL tract to the southerly right-of-way line of State Highway 170 (a variable width right-of-way);

THENCE N 89°51'27"E, 3.18 feet along the southerly right-of-way line of said State Highway 170;

THENCE N 00°08'34"W, 85.39 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1381.19 feet, through a central angle of 17°11'24", having a radius of 4603.66 feet, the long chord of which bears N 52°14'43"E, 1376.02 feet;

THENCE N 77°57'39"E, 66.80 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 39°31'08"E, 106.53 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 23°42'12"E, 110.15 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1174.20 feet, through a central angle of 05°51'39", having a radius of 11479.16 feet, the long chord of which bears N 37°35'29"E, 1173.69 feet;

THENCE N 34°39'39"E, 983.30 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE S 75°41'23"E, 65.50 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 89°53'30"E, 19.84 feet continuing along the southerly right-of-way line of said State Highway 170 to a point in the westerly property line of the aforementioned Westlake Retail Associates, Ltd tract;

THENCE S 00°40'26"E, 217.45 feet along the westerly property line of said Westlake Retail Associates, Ltd tract to the most northerly property corner of that certain Save and Except tract (First tract), recorded in the aforementioned AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas and in Clerk's Filing Number 98-R0052417, Real Property Records of Denton County, Texas;

THENCE S 00°37'40"E, 73.60 feet along the west property line of said Save and Except tract;

THENCE N 89°10'35"W, 284.94 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°44'51"E, 1502.61 feet continuing along the west property line of said Save and Except tract;

THENCE S 89°57'50"W, 10.00 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°07'14"E, 946.45 feet continuing along the west property line of said Save and Except tract to the southwest property corner of said Save and Except tract;

THENCE N 89°52'59"E, 1461.16 feet along the south property line of said Save and Except tract to the northwest property corner of that certain 24.59 acre Town of Westlake tract, recorded in Volume 15818, Page 117, County Records, Tarrant County, Texas;

THENCE S 66°58'16"E, 192.22 feet along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 07°25'33"E, 180.88 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 21°24'47"E, 39.07 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 11°10'47"E, 94.09 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 34°58'57"E, 140.91 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 54°13'31"E, 60.78 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 23°41'47"E, 109.17 feet continuing along the west property line of said 24.59 acre Town of Westlake tract to the southwest property corner of said 24.59 acre Town of Westlake tract;

THENCE N 89°49'56"E, 1012.80 feet along the south property line of said 24.59 acre Town of Westlake tract to the beginning of a curve to the left;

THENCE continuing along the south property line of said 24.59 acre Town of Westlake tract and with said curve to the left, an arc distance of 62.32 feet, through a central angle of 08°17'02", having a radius of 431.03 feet, the long chord of which bears N 85°40'05"E, 62.27 feet to the northwest corner of a variable width right-of-way dedication, as recorded in Volume 16653, Page 89, County records, Tarrant County, Texas;

THENCE S 00°02'05"E, 125.19 feet along the west terminus of said right-of-way dedication to the southwest corner of said right-of-way dedication;

THENCE N 89°57'55"E, 51.18 feet along the south right-of-way line of said right-of-way dedication;

THENCE N 43°06'40"E, 154.03 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a non-tangent curve to the left;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said non-tangent curve to the left, an arc distance of 320.00 feet, through a central angle of 37°20'29", having a radius of 491.00 feet, the long chord of which bears N 44°43'50"E, 314.37 feet;

THENCE N 26°03'35"E, 100.00 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a curve to the right;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said curve to the right, an arc distance of 124.87 feet, through a central angle of 12°54'51", having a radius of 554.00 feet, the long chord of which bears N 32°31'00"E, 124.61 feet;

THENCE N 38°58'25"E, 195.82 feet continuing along the south right-of-way line of said right-of-way dedication to the northeast corner of said right-of-way dedication;

THENCE N 51°01'35"W, 60.00 feet along the northeasterly terminus of said right-of-way dedication to a point in the east property line of the aforementioned 24.59 acre Town of Westlake tract and being the beginning of a curve to the right;

THENCE along the east property line of said 24.59 acre Town of Westlake tract and with said curve to the right, an arc distance of 612.92 feet, through a central angle of 30°17'41", having a radius of 1159.20 feet, the long chord of which bears N 34°31'13"W, 605.80 feet to the most northerly corner of said 24.59 acre Town of Westlake tract and also being in the east property line of the aforementioned Save and Except tract;

THENCE N 00°47'59"W, 1267.03 feet along the east property line of said Save and Except tract to the northeast property corner of said Save and Except tract;

THENCE N 89°54'00"W, 803.58 feet along the north property line of said Save and Except tract;

THENCE S 01°46'29"E, 315.42 feet continuing along the north property line of said Save and Except tract;

THENCE N 89°59'37"W, 630.18 feet continuing along the north property line of said Save and Except tract;

THENCE N 76°13'43"W, 210.12 feet continuing along the north property line of said Save and Except tract;

THENCE N 41°18'15"W, 569.57 feet continuing along the north property line of said Save and Except tract to the southerly property line of the aforementioned Westlake Retail Associates, Ltd., tract and the beginning of a non-tangent curve to the right;

THENCE along the southerly property line of said with said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the right, an arc distance of 128.75 feet, through a central angle of 03°55'08", having a radius of 1882.50 feet, the long chord of which bears N 88°08'26"E, 128.73 feet;

THENCE S 89°54'00"E, 898.42 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°32'44"W, 45.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'00", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N 89°27'16"E, 32.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 50°57'27"E, 12.08 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 481.24 feet, through a central angle of 67°31'55", having a radius of 408.29 feet, the long chord of which bears N 33°13'14"E, 453.86 feet to the beginning of a reverse curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said reverse curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'01", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N 89°27'16"E, 170.26 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE S 00°32'44"E, 49.98 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 11.14 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 33.89 feet, through a central angle of 10°47'26", having a radius of 179.93 feet, the long chord of which bears S 28°08'13"E, 33.84 feet;

THENCE S 89°27'16"W, 16.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 205.35 feet, through a central angle of 60°21'43", having a radius of 194.92 feet, the long chord of which bears S 60°53'46"E, 195.99 feet;

THENCE N 89°27'16"E, 194.11 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°32'44"W, 25.20 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 78.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 293.43 feet, through a central angle of 79°36'02", having a radius of 211.21 feet, the long chord of which bears N 89°27'16"E, 270.39 feet;

THENCE N 89°27'16"E, 127.87 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the southeast property corner of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°07'00"W, 245.16 feet along the east property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the east property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 783.77 feet, through a central angle of 17°32'30", having a radius of 2560.00 feet, the long chord of which bears N 08°39'15"E, 780.71 feet;

THENCE N 17°25'30"E, 477.17 feet continuing along the east property line of said Westlake Retail Associates, Ltd., tract to the **Point of Beginning** and containing 41,459,876 square feet or 951.788 acres of land more or less.

PARCEL No. 2

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, Tarrant County Texas and being a portion of that tract of land (Tract 1) as described in a deed to AIL Investment, L.P. as recorded in Deed Volume 13275, Page 542, County Records, Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at the northwest corner of said Tract 1 being a point in the east right-of-way line of former State Highway 377 (now abandoned in this location);

THENCE N89°39'29"E, 30.74 feet along the north line of said Tract 1 to a point in the existing westerly right-of-way line of State Highway 377;

THENCE S10°32'14"W, 395.27 feet along said existing westerly right-of-way line to the beginning of a curve to the right;

THENCE 71.53 feet along the arc of said curve to the right and along said right-of-way line, through a central angle of 00°43'29", whose radius is 5654.58 feet, the long chord of which bears S10°53'10"W, 71.53 feet;

THENCE S89°53'00"W, 154.08 feet, leaving said existing right-of-way line to a point in the west line of said tract 1;

THENCE N24°29'49"E, 504.37 feet along said west line of Tract 1 to the **POINT OF BEGINNING**, and containing 0.975 acres of land, more or less.

EXHIBIT "B"

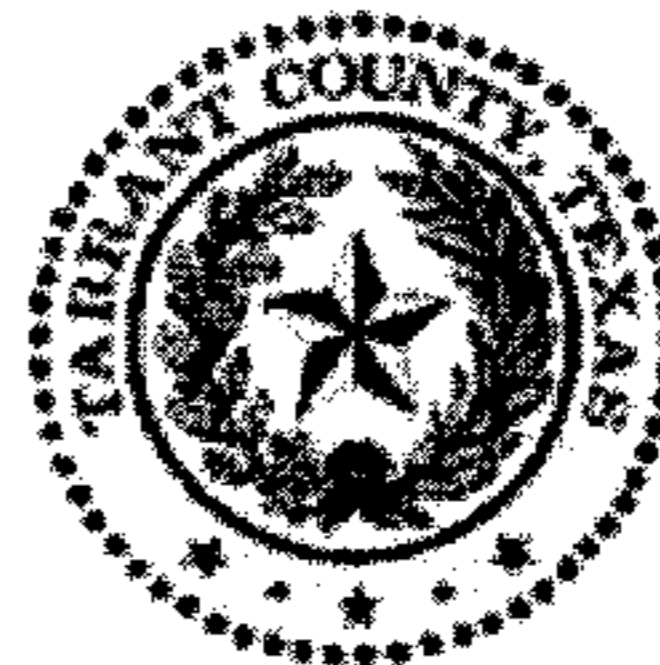
PERMITTED EXCEPTIONS

1. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matters listed as exceptions in the those respective deeds.
2. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matter executed and delivered by Grantor since the dates of such deeds and recorded in the Real Property Records of Denton and Tarrant Counties, Texas.
3. Any matter that a current and accurate survey of the Property would reveal.

MICHEAL E JONES
350 N ST PAUL ST STE 2900

DALLAS TX 75201

Submitter: SUPER SEARCH



SUZANNE HENDERSON
TARRANT COUNTY CLERK
TARRANT COUNTY COURTHOUSE
100 WEST WEATHERFORD
FORT WORTH, TX 76196-0401

DO NOT DESTROY
WARNING - THIS IS PART OF THE OFFICIAL RECORD.

Filed For Registration: 07/08/2009 11:08 AM

Instrument #: D209181337

WD

18 PGS

\$80.00

By: _____



D209181337

**ANY PROVISION WHICH RESTRICTS THE SALE, RENTAL OR USE
OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR
RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.**

Printed by: MC

ATTACHMENT 5

Consent Letter showing Applicant's Right to Use of Land

HW 2421 LAND, LP
9800 Hillwood Parkway, Suite 300
Fort Worth, TX 76177

November 19, 2021

Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

Re: HW 2421 Land, LP – Consent Letter

To Whom it May Concern,

I, L. Russell Laughlin, in my capacity as Executive Vice President of HW 2421 Land, LP, hereby consent to the use by Independence Water of the 4.79 acre parcel, identified as tracts 1 and 1b in the Jesse Sutton Survey, Abstract 1451 in Tarrant County, Texas, for a water use permit.

Regards,

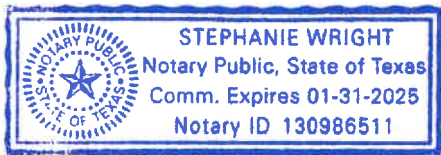
HW 2421 LAND, LP,
a Texas limited partnership

By: HW 2421 Land GP, LLC,
a Texas limited liability company,
its general partner

By: 
Name: L. Russell Laughlin
Title: Executive Vice President

STATE OF TEXAS §
 §
COUNTY OF TARRANT §

This instrument was acknowledged before me on November 19, 2021, by L. Russell Laughlin, Executive Vice President of HW 2421 Land GP, LLC, a Texas limited liability company, on behalf of said limited liability company, in its capacity as general partner of HW 2421 Land, LP, a Texas limited partnership, on behalf of said limited partnership.



Stephanie Wright
Notary Public, State of Texas

ATTACHMENT 6

24-hour Pump Test Results

STATE OF TEXAS WELL REPORT for Tracking #330983

Owner:	Deloitte University	Owner Well #:	Well Log 2955
Address:	One Deloitte Way Westlake, TX 76262	Grid #:	32-07-2
Well Location:	Well #1 One Deloitte Way Westlake, TX 76262	Latitude:	32° 59' 05" N
Well County:	Tarrant	Longitude:	097° 12' 07" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **5/7/2013**

Drilling End Date: **5/14/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	14	0	5
	11	5	715

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:	515	715	Gravel	16/30

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:			bentonite grout
	0	515	200 port cement

Seal Method: **Pumped**

Distance to Property Line (ft.): **100+**

Sealed By: **Basic Energy**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Customer Verified**

Surface Completion: **Alternative Procedure Used**

Water Level: **575 ft. below land surface on 2013-05-14** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **675**

Well Tests: **Jetted** Yield: **50 GPM with 54 ft. drawdown after 24 hours**

Water Quality:

Strata Depth (ft.)	Water Type
535-690	paluxy

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:

Driller Name: **Russell Langford**

License Number: **56062**

Comments:
^CLH

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	sandy topsoil
1	4	tan-red clay
4	30	tan clay and shale
30	40	tan-grey clay
40	75	grey clay
75	535	grey clay, shale and limestone
535	555	grey sandy clay and sand
555	574	sand
574	579	grey sandy clay and sand
579	590	sand
590	602	grey sandy clay and sand
602	648	sand
648	660	sandy shale and grey shale
660	690	sand
690	716	grey shale and limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	new	blank steel	0-582 .188
6	new	.020' SS rod base screen	582-662 .188
6	new	blank steel	662-673 .188
6	new	.020' SS rod base screen	673-693 .188
6	new	blank steel	693-715 .188

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**



INVOICE

P.O. No.	Invoice Date	Invoice #
	3/31/2021	70384

(254) 965-5924 PHONE - (254) 965-6969 FAX

Customer Contact Information		
Phone: (817) 224-6067	Fax: (817) 224-6060	
Alt. Ph.: 817-903-1986	Craig cel	

Bill To:

Independence Water
9800 Hillwood Parkway Suite 300
Ft. Worth, TX 76177

Location Information/Job At:

CTP2
from intersection of 170 and 114, Go East
on 114, exit Trophy Club/Weslake pkw, go
south on westlake, 2nd gate on rt
press button and say command center,
after they answer, tell them why there

Pump Model S/N:	Well Depth	Pump Set	Water Level	Mechanic
Motor S/N:				BJK

Qty	Description	Rate	Amount
2.5	Regular Service Labor	150.00	375.00
1	1" Badger Water Meter	550.00	550.00T
2	1" Meter Coupling	37.46	74.92T
2	1-1/4" x 1" PVC CT BUSHING	1.38	2.76T
2	1 1/4" PVC Coupling	0.74	1.48T
Reason for call: - Install water meter			
Findings/Resolution: We installed a 1" badger meter and ran the well wide open for 24 hours. At the start of these it pumped 20.6 gpm and the meter was at 0 total gallons. At the end of the test, the pump was doing 20.5 gpm and the total was 29,917.06 total gallons.			
This information is for the Well House #2 well.			

Thank you for calling us.
If you have any questions please call.

Subtotal	\$1,004.16
Sales Tax (8.25%)	\$51.91
Invoice Total	\$1,056.07

PAYMENT DUE UPON RECEIPT. 18% INTEREST WILL BE ASSESSED ON ALL PAST DUE BALANCES

Regulated by the Texas Department of Licensing and Regulation, P.O. Box 12157, Austin, Texas 78711, 1-800-803-9202, (512)-463-7880, www.tdlr.texas.gov

ATTACHMENT 7

Approved Application for Operating Permit from Northern Trinity Groundwater
Conservation District

Northern Trinity Groundwater Conservation District

1100 Circle Drive, Suite 300

Fort Worth, Texas 76119

Phone: 817.249.2062

Fax: 817.249.2918



IWCT#1-P

APPLICATION FOR OPERATING PERMIT

IMPORTANT NOTE: PERMIT APPLICANT MUST SUBMIT A WELL REGISTRATION FORM PRIOR TO OR IN CONJUNCTION WITH THE SUBMITTAL OF THIS PERMIT APPLICATION.

Qualifications to Apply for Operating Permit: All new wells that are not exempt from the District's permitting requirements and all new or existing wells that were exempt from the District's permitting requirements, but are substantially altered in a manner that causes the well to lose its exempt status must obtain an Operating Permit from the District. In addition, wells that have previously operated under a Grandfathered Use Permit must obtain an Operating Permit if: (1) the well is substantially altered in a manner that causes the well to be capable of producing more groundwater than is authorized by the Grandfathered Use Permit; (2) the well owner desires to produce more groundwater than is authorized by the Grandfathered Use Permit; OR (3) the well owner desires to change the purpose of use of the water from the well.

Instructions: Fill out this form for each existing well or well system (type or print). Submit permit application form in person at the District's office or by mailing to the District's mailing address provided above. Additional information or explanation may be attached to this application form.

In accordance with District Rule 5.1(F), the information provided by the permit applicant in the spaces below will be incorporated into the permit if a permit is issued by the District. The permit will be granted on the basis of, and contingent upon, the accuracy of the information supplied in this application. A finding that false information has been supplied is grounds for immediate revocation of the permit. In addition, the information given in this permit application will be supplemented by the information provided by the permit applicant in the well registration form that is/was submitted to the District for the existing well.

1. Applicant Information (Required):

The Applicant for this Operating Permit is the well: (please check all that apply)

☒ Owner ☐ Operator ☐ Property Owner

This application is made for a:

☒ New well ☐ Substantial alteration of existing well previously exempt from the District's permitting requirements ☐ Substantial alteration of existing well or request for more production/change in purpose of use to well operating under a Grandfathered Use Permit

Independence Water, L.P.

817-224-6000

Name of Applicant

Phone Number

N/A

N/A

Alternate Phone

Fax Number

Email Address

9800 Hillwood Parkway, Suite 300

Fort Worth

TX

76177

Mailing Address

City

State

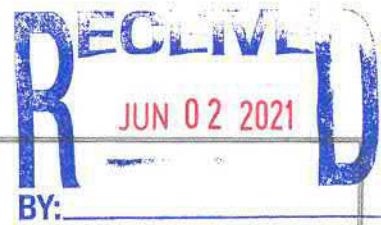
Zip

Physical Address (if different than mailing address)

City

State

Zip

**Applicant Information Continued:**

N/A				
Contact Person (if different from applicant)	Phone Number	Fax Number	Email Address	
N/A				
Mailing Address	City	State	Zip	
HW 2421 Land, L.P.		817-224-6000	N/A	
Owner of Property Where Well Is Located	Phone Number	Fax Number	Email	
Address (if different than property owner)	City	State	Zip	
Mailing Address	City	State	Zip	

2. Well Information (Required):

This application is for (please check one of the following):

☒ Operating Permit for a single well☐ Operating Permit for a multi-well system*

(where Applicant seeks to have a well or group of wells tied to the same distribution system authorized under one permit issued by the District)

*Please provide well information requested below for each well in the well system if requesting permit to authorize production from multi-well system (may attach additional pages if needed)

Legal description of land on which proposed well is located (please provide all known information, such as survey name/number, abstract number, appraisal district ID number, section, block, acreage):

Medlin, Charles Survey Abstract 1084 Tract 1

(Please provide attachments if available)

Quantity of water to be produced by this well annually (please specify in acre-feet or gallons):

9.7MG

Name and purpose for which water produced from well will be used:

Irrigation

If multiple purposes of use, please indicate the amount of water that is used for each purpose:

N/A

Location of use of the water produced from the well:

Golf Course Adjacent to Well

Estimated rate at which water will be withdrawn from well:

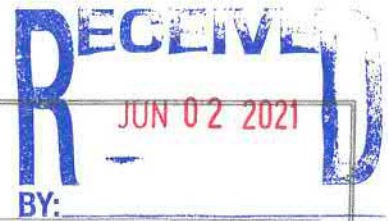
75

gpm

Maximum pumping capacity of the well (in gallons per minute):

75

*Note that wells equipped to produce 75gpm or more must provide a Hydrogeological Report meeting the requirements of District Rule 5.10(b). Applicants required to complete a Hydrogeological Report must publish notice in the newspaper in accordance with Rule 5.10(c).

**Well Information Continued:**

Method of withdrawal from well/type of pump:

☐ Turbine ☒ Submersible ☐ Other (please specify) _____

Size of well pump: 20 hp

Depth of well: 740

Size of well (inside diameter of the column pipe and diameter of the well casing): 6 inches

Duration of time water is expected to be put to beneficial use under the permit:

☐ Temporary/short-term use ☒ Seasonal use ☐ Continual useIs the Applicant a retail public utility as defined by Texas Water Code section 13.002? ☐ Yes ☒ No

If YES, list subdivision(s), CCN service area, or the governmental entity boundaries the well will service:

Will the groundwater withdrawn under this permit be used in conjunction with another Operating or Grandfathered Use Permit?

☒ No ☐ Yes If yes, explain: _____

Will the groundwater withdrawn from the well be resold, leased, or otherwise transferred to others?

☒ No ☐ Yes If yes, please provide the location to which the groundwater will be delivered:

Purpose of use: _____

If requesting Operating Permit due to: (1) substantial alteration of an existing well; (2) authorize additional production from a well operating under a Grandfathered Use Permit; or (3) change the purpose of use of a well operating under a Grandfathered Use Permit, please explain the substantial alteration or reason for applying for an Operating Permit: _____

Grandfathered Use Permit No. (if applicable): _____

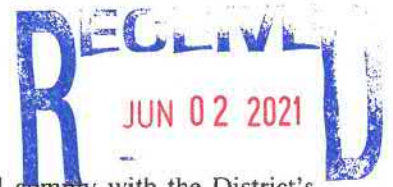
3. Required Documentation/Attachments to this Application and Fees:

The following documentation, attachments, and fee payments must accompany this application in order for the application to be considered administratively complete:

- A. If the well owner/operator is different than the owner of the property on which the well is located, attach documentation establishing the authority to operate the well for the proposed use;
- B. For applications for **new wells**, a location map showing the proposed well location and, if applicable, an alternative well location meeting the District's minimum spacing and location requirements, and show all wells in existence within a quarter (1/4) mile radius of the location of the well.
For applications for **existing wells**, a location map showing the well location and all wells in existence within a quarter (1/4) mile radius of the location of the well.

(If possible, please provide location map on a 7.5 minute United States Department of Interior Topographic Map and/or provide the latitude and longitude coordinates of the well location as measured by a calibrated GPS instrument);

- C. If available, a legal description, such as survey information, maps, and/or metes and bounds descriptions, of the tract of land on which the well or well system is located;



- D. A water conservation plan or sign here as a declaration that the applicant will comply with the District's Management Plan: _____ (Applicant's signature);
- E. A drought contingency plan if the applicant is required to prepare a drought contingency plan by other law;
- F. If water is to be sold, leased, or transferred to others, whether inside or outside the District, attach legal documents establishing the right for the water to be sold, leased, or transferred, including but not limited to any contract for the sale, lease, or transfer of water;
- G. If water is to be transferred outside the boundaries of the District (Tarrant County), please provide explanation and documentation relevant to the following: (1) availability of water in the District and in the proposed receiving area during the period for which the water supply is requested; (2) projected effect of the proposed transport on aquifer conditions, depletion, subsidence, or effects on existing permit holders or other groundwater users within the District; and (3) how the proposed transport is consistent with the approved regional water plan and certified district management plan;
- H. Applications for either: (1) a well or well field equipped to produce 75 gallons per minute or more; or (2) that request authority to transport groundwater produced within the District's boundaries (Tarrant County) to a location of use outside the District's boundaries, must submit a Hydrogeological Report to the District that meets the requirements of District Rule 5.10(b) and must provide newspaper notice under District Rule 5.10(c);
- I. Payment of applicable fees; and
- J. All permit applicants must provide notice to all landowners and to all well owners of existing registered or permitted wells that are located within the distance radius provided for well spacing in Rule 4.2(a) of the existing well or proposed well that is the subject of the application. Notice provided to landowners and well owners must meet requirements in District Rule 5.3(c)-(d).

A SAMPLE NOTICE IS ATTACHED AT THE END OF THIS APPLICATION FORM. PLEASE RETYPE AND DO NOT MAIL OUT WITHOUT FILLING IN THE BLANKS IN THE SAMPLE NOTICE.

4. Certification:

By signing below, I hereby agree, declare, and certify that:

- A. I will avoid waste, achieve water conservation, and protect groundwater quality in the use of the well or well system and will ensure that the water withdrawn under a permit issued by the District will be put to beneficial use at all times;
- B. I will comply with the District's Rules and all groundwater use permits and plans promulgated by the District; and
- C. I will comply with the District's well plugging and capping guidelines and will report closure to the District and the appropriate state agencies.

I hereby swear or certify that the information in this permit application is true and accurate to the best of my knowledge and belief.

[Signature]
Signature of Well Owner or Agent

L. Russell Laughlin
Printed Name

June 2, 2021
Date

Executive Vice President
Title

District to Complete:

Operating Permit Number: 47

Public Hearing Date: 6.16.21

Application: ☒ approved ☐ denied

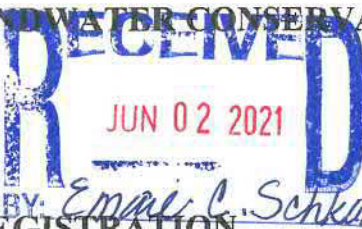
Initial: [Signature] Date: 6.16.21

NTGCD Well Number: N-2021-0110

Date Permit Issued: 6.16.21

NORTHERN TRINITY GROUNDWATER CONSERVATION DISTRICT

1100 Circle Drive, Suite 300
Fort Worth, TX 76119
Fax: 817.249.2918
Voice: 817.249.2062



District to Complete:

Invoice # 2100 206

Well Registration No.

N-2021-0110Date Received: 6.2.21By: Laura**APPLICATION FOR WELL REGISTRATION
FOR NEW WELL (Well Drilled on or after Dec. 17, 2018)****Registration of new wells required by District Rule 3.3 prior to drilling:**

A well owner or water well driller, or any other person acting on their behalf, must submit and obtain approval of a registration application and submit a well registration fee and well report deposit with the District before any new well, except leachate wells or monitoring wells, may be drilled, equipped, and completed as set forth under District Rule 3.3. District Rules can be found at www.ntgcd.com.

Complete one application for each well.Application date: June 2, 2021**IN CT #1 - P***-This form may be submitted in person, mail, or fax-***Part I - Well Owner and Driller Information:**Well Owner: Independence Water, L.P. Phone: 817-224-6000Contact: Craig Schkade Email: [REDACTED] Fax: N/AMailing address: 9800 Hillwood Parkway, Suite 300City: Fort Worth State: TX Zip: 76177Registrant: (if other than Well Owner) N/A Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

Property Owner: (if other than Well Owner) HW 2421 Land, L.P. Phone: 817-224-6000Address: 9800 Hillwood Parkway, Suite 300 City: Fort Worth State: TX Zip: 76177

If Registrant is other than the owner of the property where the proposed well is to be located, please attach documentation to this form establishing the applicable authority to file the application for well registration, to serve as the registrant in lieu of the property owner, and to construct and operate a well for the proposed use.

Drilling company: Associated Well Services Phone: 254-965-5924Driller: Russell Langford License # 56062WKL Expiration Date: 08/31/21Fax: N/A E-mail: [REDACTED]Address: 1215 US-67 City: Stephenville State: TX Zip: 76401**Part II - Well Location:**Well site address: 2451 Westlake ParkwayCity: Westlake State: TX Zip: 76262Latitude: 32° 59' 9.90" N Longitude: 97° 11' 49.73" W

Well Registration No. _____

Well Owner: _____

Independence Water, L.P.

GPS used to measure latitude and longitude: _____ Manufacturer: Used GIS-ESRI ARC Map Model: _____

Will the groundwater withdrawn from the well be used in a location different from the well site?

☒ No

☐ Yes Location where used: _____

Describe use: _____

Will the groundwater produced be transported for use at any point outside the boundaries of the District?

☒ No

☐ Yes Explain: _____

Is this a replacement well?

☒ No

☐ Yes Indicate status of the old well: ☐ Capped ☐ Plugged (Plugging Report attached) ☐ In Use

Explain: _____

Do you intend to apply for an exception to the well spacing requirements in District Rule 4.2?

☒ No

☐ Yes *If yes, please attach a completed Well Spacing Exception Application Form*

Part III – Purpose for Water Use:

Mark (x) all appropriate boxes that describe what the water from the well will be used for:

Use-based Exemption (Subject to Rule 2.1)

☐ Domestic Use (supplied to single family residence)

☐ Livestock Watering

Non-Exempt Use (Subject to Rule 2.2- Fee Payment, Metering, Reporting, and Permitting Requirements)

☐ Municipal / Public Water System

☐ Industrial/Manufacturing

☐ Commercial/ Small Business

☒ Golf course irrigation

☐ Solely to supply water for rig actively engaged in drilling or exploration operations for an oil or gas well, and the water well is located on the same lease or field associated with the oil/gas drilling rig (If you check this box, is the owner of the water well the same person who holds the oil/gas well permit issued by the Railroad Commission?

___ Yes ___ No)

☐ Supplying water for oil or gas production, or supplying water to rig engaged in drilling or exploration operations for oil or gas where water well is not located on same lease or field associated with the oil/gas drilling rig

☐ Filling a pond or other surface impoundment (*check all uses above for water from the pond or impoundment*)

☐ Other: _____

Part IV — Well Information:

Proposed total depth: 740 feet

Proposed depth to first screen: 590 feet

Proposed inside diameter of casing: 6 inches

Proposed pump motor size: 20 hp

Proposed maximum designed production capacity of pump: 75 gpm

NORTHERN TRINITY GROUNDWATER CONSERVATION DISTRICT

Application for Well Registration – New Well

Page 2 of 3

Revised.190320.TE

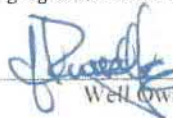


Well Registration No. _____

Well Owner: Independence Water, L.P.

Anticipated number of service connections: N/A Well will service approximately N/A individuals
for _____ days out of the year.

Is a Water Well Closure Plan attached? ☐ Yes ☒ No If no, sign below as a declaration that the owner will report any closure of the well to the District and will strictly comply with the well plugging regulations of the Texas Department of Licensing and Regulation.



Well Owner's Signature

Is the \$200 Well Report Deposit Attached? ☒ Yes ☐ No (registration will not be approved until receipt of deposit; deposit is refundable upon timely submission of well report after completion of well)

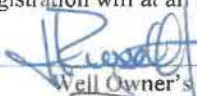
Is the \$500 New Well Registration Fee Attached? ☒ Yes ☐ No (registration will not be approved until receipt of fee)

Part V — Certification:

I hereby certify that the information given herewith is true and accurate to the best of my knowledge and belief. I further certify that all water produced from the well that is the subject of this registration will at all times be put to beneficial use.

L. Russell Laughlin

Print Name



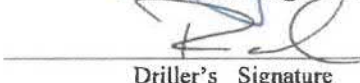
Well Owner's Signature

6-2-21

Date

Russell Langford

Print Name



Driller's Signature

6-2-21

Date

DISTRICT TO COMPLETE THIS SECTION:

☒ Well Report Deposit Received Date: 6.7.21 Method/Check No.: 1113 46

☒ Well Registration Fee Received Date: 6.7.21 Method/Check No.: ✓

☐ Exception Fee Received Date: _____ Method/Check No.: _____

☒ Operating Permit 6.7.21 ✓

☐ Use-based D&L ☐ Use-based ag irrigation ☐ Use-based Rule 2.3 (exempt from Water Use Fee only)

☐ Capacity-based single well ☐ Capacity-based well system

Well Spacing Compliance:

Does this well location and depth meet minimum spacing requirements, not counting those separated vertically by more than 50 feet?

☒ Yes ☐ No

Well Spacing Exception Application Form attached?

☐ Yes ☒ No

Reviewed by: Robert PattersonDate of approval: 6.16.21

The registrant has 120 days (240 days for a public water system) from the date of approval above to drill and complete the new well, and must file the well report with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the well report deposit and subject the registrant to enforcement action.

NORTHERN TRINITY GROUNDWATER CONSERVATION DISTRICT

Application for Well Registration – New Well

Page 3 of 3

Revised.190320.TE



Northern Trinity Groundwater Conservation District

1100 Circle Drive, Suite 300

Fort Worth, Texas 76119

Phone: 817.249.2062

Fax: 817.249.2918



IWCT #2-P

APPLICATION FOR OPERATING PERMIT

IMPORTANT NOTE: PERMIT APPLICANT MUST SUBMIT A WELL REGISTRATION FORM PRIOR TO OR IN CONJUNCTION WITH THE SUBMITTAL OF THIS PERMIT APPLICATION.

Qualifications to Apply for Operating Permit: All new wells that are not exempt from the District's permitting requirements and all new or existing wells that were exempt from the District's permitting requirements, but are substantially altered in a manner that causes the well to lose its exempt status must obtain an Operating Permit from the District. In addition, wells that have previously operated under a Grandfathered Use Permit must obtain an Operating Permit if: (1) the well is substantially altered in a manner that causes the well to be capable of producing more groundwater than is authorized by the Grandfathered Use Permit; (2) the well owner desires to produce more groundwater than is authorized by the Grandfathered Use Permit; OR (3) the well owner desires to change the purpose of use of the water from the well.

Instructions: Fill out this form for each existing well or well system (type or print). Submit permit application form in person at the District's office or by mailing to the District's mailing address provided above. Additional information or explanation may be attached to this application form.

In accordance with District Rule 5.1(F), the information provided by the permit applicant in the spaces below will be incorporated into the permit if a permit is issued by the District. The permit will be granted on the basis of, and contingent upon, the accuracy of the information supplied in this application. A finding that false information has been supplied is grounds for immediate revocation of the permit. In addition, the information given in this permit application will be supplemented by the information provided by the permit applicant in the well registration form that is/was submitted to the District for the existing well.

1. Applicant Information (Required):

The Applicant for this Operating Permit is the well: (please check all that apply)

☒ Owner ☐ Operator ☐ Property Owner

This application is made for a:

☒ New well ☐ Substantial alteration of existing well previously exempt from the District's permitting requirements ☐ Substantial alteration of existing well or request for more production/change in purpose of use to well operating under a Grandfathered Use Permit

Independence Water, L.P

817-224-6000

Name of Applicant

Phone Number

N/A

N/A

Alternate Phone

Fax Number

Email Address

9800 Hillwood Parkway, Suite 300

Fort Worth

TX

76177

Mailing Address

City

State

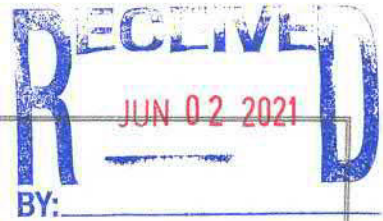
Zip

Physical Address (if different than mailing address)

City

State

Zip

**Applicant Information Continued:**

N/A				
Contact Person (if different from applicant)	Phone Number	Fax Number	Email Address	
N/A				
Mailing Address	City	State	Zip	
HW 2421 Land, L.P.	817-224-6000	N/A	[REDACTED]	
Owner of Property Where Well Is Located	Phone Number	Fax Number	Email	
Address (if different than property owner)	City	State	Zip	
Mailing Address	City	State	Zip	

2. Well Information (Required):

This application is for (please check one of the following):

☒ Operating Permit for a single well☐ Operating Permit for a multi-well system*

(where Applicant seeks to have a well or group of wells tied to the same distribution system authorized under one permit issued by the District)

*Please provide well information requested below for each well in the well system if requesting permit to authorize production from multi-well system (may attach additional pages if needed)

Legal description of land on which proposed well is located (please provide all known information, such as survey name/number, abstract number, appraisal district ID number, section, block, acreage):

Medlin, Charles Survey Abstract 1084 Tract 1

(Please provide attachments if available)

Quantity of water to be produced by this well annually (please specify in acre-feet or gallons):

9.7MG

Name and purpose for which water produced from well will be used:

Irrigation

If multiple purposes of use, please indicate the amount of water that is used for each purpose:

N/A

Location of use of the water produced from the well:

Golf Course Adjacent to Well

Estimated rate at which water will be withdrawn from well:

75

gpm

Maximum pumping capacity of the well (in gallons per minute):

75

*Note that wells equipped to produce 75gpm or more must provide a Hydrogeological Report meeting the requirements of District Rule 5.10(b). Applicants required to complete a Hydrogeological Report must publish notice in the newspaper in accordance with Rule 5.10(c).

**Well Information Continued:**

Method of withdrawal from well/type of pump:

☐ Turbine ☒ Submersible ☐ Other (please specify) _____

Size of well pump: 20 hp

Depth of well: 740

Size of well (inside diameter of the column pipe and diameter of the well casing): 6 inches

Duration of time water is expected to be put to beneficial use under the permit:

☐ Temporary/short-term use ☒ Seasonal use ☐ Continual useIs the Applicant a retail public utility as defined by Texas Water Code section 13.002? ☐ Yes ☒ No

If YES, list subdivision(s), CCN service area, or the governmental entity boundaries the well will service:

Will the groundwater withdrawn under this permit be used in conjunction with another Operating or Grandfathered Use Permit?

☒ No ☐ Yes If yes, explain: _____

Will the groundwater withdrawn from the well be resold, leased, or otherwise transferred to others?

☒ No ☐ Yes If yes, please provide the location to which the groundwater will be delivered:

Purpose of use: _____

If requesting Operating Permit due to: (1) substantial alteration of an existing well; (2) authorize additional production from a well operating under a Grandfathered Use Permit; or (3) change the purpose of use of a well operating under a Grandfathered Use Permit, please explain the substantial alteration or reason for applying for an Operating Permit: _____

Grandfathered Use Permit No. (if applicable): _____

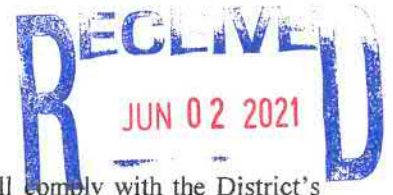
3. Required Documentation/Attachments to this Application and Fees:

The following documentation, attachments, and fee payments must accompany this application in order for the application to be considered administratively complete:

- A. If the well owner/operator is different than the owner of the property on which the well is located, attach documentation establishing the authority to operate the well for the proposed use;
- B. For applications for **new wells**, a location map showing the proposed well location and, if applicable, an alternative well location meeting the District's minimum spacing and location requirements, and show all wells in existence within a quarter (1/4) mile radius of the location of the well.
For applications for **existing wells**, a location map showing the well location and all wells in existence within a quarter (1/4) mile radius of the location of the well.

(If possible, please provide location map on a 7.5 minute United States Department of Interior Topographic Map and/or provide the latitude and longitude coordinates of the well location as measured by a calibrated GPS instrument);

- C. If available, a legal description, such as survey information, maps, and/or metes and bounds descriptions, of the tract of land on which the well or well system is located;



- D. A water conservation plan or sign here as a declaration that the applicant will comply with the District's Management Plan: [Signature] BY (Applicant's signature);
- E. A drought contingency plan if the applicant is required to prepare a drought contingency plan by other law;
- F. If water is to be sold, leased, or transferred to others, whether inside or outside the District, attach legal documents establishing the right for the water to be sold, leased, or transferred, including but not limited to any contract for the sale, lease, or transfer of water;
- G. If water is to be transferred outside the boundaries of the District (Tarrant County), please provide explanation and documentation relevant to the following: (1) availability of water in the District and in the proposed receiving area during the period for which the water supply is requested; (2) projected effect of the proposed transport on aquifer conditions, depletion, subsidence, or effects on existing permit holders or other groundwater users within the District; and (3) how the proposed transport is consistent with the approved regional water plan and certified district management plan;
- H. Applications for either: (1) a well or well field equipped to produce 75 gallons per minute or more; or (2) that request authority to transport groundwater produced within the District's boundaries (Tarrant County) to a location of use outside the District's boundaries, must submit a Hydrogeological Report to the District that meets the requirements of District Rule 5.10(b) and must provide newspaper notice under District Rule 5.10(c);
- I. Payment of applicable fees; and
- J. All permit applicants must provide notice to all landowners and to all well owners of existing registered or permitted wells that are located within the distance radius provided for well spacing in Rule 4.2(a) of the existing well or proposed well that is the subject of the application. Notice provided to landowners and well owners must meet requirements in District Rule 5.3(c)-(d).

A SAMPLE NOTICE IS ATTACHED AT THE END OF THIS APPLICATION FORM. PLEASE RETYPE AND DO NOT MAIL OUT WITHOUT FILLING IN THE BLANKS IN THE SAMPLE NOTICE.

4. Certification:

By signing below, I hereby agree, declare, and certify that:

- A. I will avoid waste, achieve water conservation, and protect groundwater quality in the use of the well or well system and will ensure that the water withdrawn under a permit issued by the District will be put to beneficial use at all times;
- B. I will comply with the District's Rules and all groundwater use permits and plans promulgated by the District; and
- C. I will comply with the District's well plugging and capping guidelines and will report closure to the District and the appropriate state agencies.

I hereby swear or certify that the information in this permit application is true and accurate to the best of my knowledge and belief.

[Signature]
Signature of Well Owner or Agent

L. Russell Caughlin
Printed Name

June 2, 2021
Date

Executive Vice President
Title

District to Complete:

Operating Permit Number: 49

Application: ☒ approved ☐ denied

NTGCD Well Number: N-2021-0111

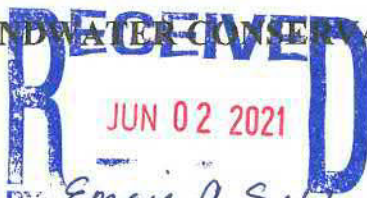
Public Hearing Date: 6.16.21

Initial: BP Date: 6.16.21

Date Permit Issued: 6.16.21

NORTHERN TRINITY GROUNDWATER CONSERVATION DISTRICT

1100 Circle Drive, Suite 300
Fort Worth, TX 76119
Fax: 817.249.2918
Voice: 817.249.2062



District to Complete:

Invoice # 2100208

Well Registration No.

N-2021-0111Date Received: 6.2.21By: [Signature]**APPLICATION FOR WELL REGISTRATION****FOR NEW WELL (Well Drilled on or after Dec. 17, 2018)****Registration of new wells required by District Rule 3.3 prior to drilling:**

A well owner or water well driller, or any other person acting on their behalf, must submit and obtain approval of a registration application and submit a well registration fee and well report deposit with the District before any new well, except leachate wells or monitoring wells, may be drilled, equipped, and completed as set forth under District Rule 3.3. District Rules can be found at www.ntgcd.com.

Complete one application for each well.

Application date: June 2, 2021**IWCT # 2 - P***-This form may be submitted in person, mail, or fax-***Part I - Well Owner and Driller Information:**Well Owner: Independence Water, L.P. Phone: 817-224-6000Contact: Craig Schkade Email: [Redacted] Fax: N/AMailing address: 9800 Hillwood Parkway, Suite 300City: Fort Worth State: TX Zip: 76177Registrant: (if other than Well Owner) N/A Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

Property Owner: (if other than Well Owner) HW2421 Land, L.P. Phone: 817-224-6000Address: 9800 Hillwood Parkway, Suite 300 City: Fort Worth State: TX Zip: 76177

If Registrant is other than the owner of the property where the proposed well is to be located, please attach documentation to this form establishing the applicable authority to file the application for well registration, to serve as the registrant in lieu of the property owner, and to construct and operate a well for the proposed use.

Drilling company: Associated Well Services Phone: 254-965-5924Driller: Russell Langford License # 56062WKL Expiration Date: 08/31/21Fax: N/A E-mail: [Redacted]Address: 1215 US-67 City: Stephenville State: TX Zip: 76401**Part II - Well Location:**Well site address: 2451 Westlake ParkwayCity: Westlake State: TX Zip: 76262Latitude: 32° 59' 18.93" N Longitude: 97° 12' 11.69" W

Well Registration No.

Well Owner:

Independence Water, L.P.

GPS used to measure latitude and longitude: Manufacturer: Used GIS-ESRI ARC Map Model:

Will the groundwater withdrawn from the well be used in a location different from the well site?

☒ No

☐ Yes Location where used:

Describe use:

Will the groundwater produced be transported for use at any point outside the boundaries of the District?

☒ No

☐ Yes Explain:

Is this a replacement well?

☒ No

☐ Yes Indicate status of the old well: ☐ Capped ☐ Plugged (Plugging Report attached) ☐ In Use

Explain:

Do you intend to apply for an exception to the well spacing requirements in District Rule 4.2?

☒ No

☐ Yes If yes, please attach a completed Well Spacing Exception Application Form

Part III – Purpose for Water Use:

Mark (x) all appropriate boxes that describe what the water from the well will be used for:

Use-based Exemption (Subject to Rule 2.1)

☐ Domestic Use (supplied to single family residence)

☐ Livestock Watering

Non-Exempt Use (Subject to Rule 2.2- Fee Payment, Metering, Reporting, and Permitting Requirements)

☐ Municipal / Public Water System

☐ Industrial/Manufacturing

☐ Commercial/ Small Business

☒ Golf course irrigation

☐ Solely to supply water for rig actively engaged in drilling or exploration operations for an oil or gas well, and the water well is located on the same lease or field associated with the oil/gas drilling rig (If you check this box, is the owner of the water well the same person who holds the oil/gas well permit issued by the Railroad Commission?

___ Yes ___ No)

☐ Supplying water for oil or gas production, or supplying water to rig engaged in drilling or exploration operations for oil or gas where water well is not located on same lease or field associated with the oil/gas drilling rig

☐ Filling a pond or other surface impoundment (check all uses above for water from the pond or impoundment)

☐ Other:

Part IV — Well Information:

Proposed total depth: 740 feet

Proposed depth to first screen: 590 feet

Proposed inside diameter of casing: 6 inches

Proposed pump motor size: 20 hp

Proposed maximum designed production capacity of pump: 75 gpm

NORTHERN TRINITY GROUNDWATER CONSERVATION DISTRICT

Application for Well Registration – New Well

Page 2 of 3

Revised.190320.TE



Well Registration No. _____

Well Owner: Independence Water, L.P.

Anticipated number of service connections: N/A Well will service approximately N/A individuals
for _____ days out of the year.

Is a Water Well Closure Plan attached? ☐ Yes ☒ No If no, sign below as a declaration that the owner will report any closure of the well to the District and will strictly comply with the well plugging regulations of the Texas Department of Licensing and Regulation.

[Signature]
Well Owner's Signature

Is the \$200 Well Report Deposit Attached? ☒ Yes ☐ No (registration will not be approved until receipt of deposit; deposit is refundable upon timely submission of well report after completion of well)

Is the \$500 New Well Registration Fee Attached? ☒ Yes ☐ No (registration will not be approved until receipt of fee)

Part V — Certification:

I hereby certify that the information given herewith is true and accurate to the best of my knowledge and belief. I further certify that all water produced from the well that is the subject of this registration will at all times be put to beneficial use.

L. Russell Laughlin
Print Name

[Signature]
Well Owner's Signature

6.2.21
Date

Russell Langford
Print Name

[Signature]
Driller's Signature

6-2-21
Date

DISTRICT TO COMPLETE THIS SECTION:

☒ Well Report Deposit Received Date: 6.7.21 Method/Check No.: 111346

☒ Well Registration Fee Received Date: 6.7.21 Method/Check No.: ✓

☐ Exception Fee Received Date: _____ Method/Check No.: _____

☒ Operating Permit Check All Exemptions that Apply: 6.7.21 ✓

☐ Use-based D&L ☐ Use-based ag irrigation ☐ Use-based Rule 2.3 (exempt from Water Use Fee only)

☐ Capacity-based single well ☐ Capacity-based well system

Well Spacing Compliance:

Does this well location and depth meet minimum spacing requirements, not counting those separated vertically by more than 50 feet?

☒ Yes ☐ No

Well Spacing Exception Application Form attached?

☐ Yes ☒ No

Reviewed by: Robert PattersonDate of approval: 6.16.21

The registrant has 120 days (240 days for a public water system) from the date of approval above to drill and complete the new well, and must file the well report with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the well report deposit and subject the registrant to enforcement action.

NORTHERN TRINITY GROUNDWATER CONSERVATION DISTRICT

Application for Well Registration – New Well

Page 3 of 3

Revised.190320.TE



ATTACHMENT 8

Addendum to Worksheet 5.0

Addendum to Worksheet 5.0

1.d.1 Photographs of the stream at the diversion point or dam locations.

*Photographs of the diversion point, reservoir, and shoreline vegetation are provided below. The direction each photo is included in the descriptions associated with each. A photograph location map is included in **Attachment 3, Sheet 5**.*



Photograph 1. View of eastern shore of the reservoir near the diversion point. View is to the south (January 20, 2022).



Photograph 2. View to the west of the dam of reservoir (January 20, 2022).



Photograph 3. View to the east from near the center of the dam of the reservoir (January 20, 2022).



Photograph 4. View to the east from near the center of the dam of the reservoir (January 20, 2022).



Photograph 5. View to the east of the dam of reservoir (January 20, 2022).



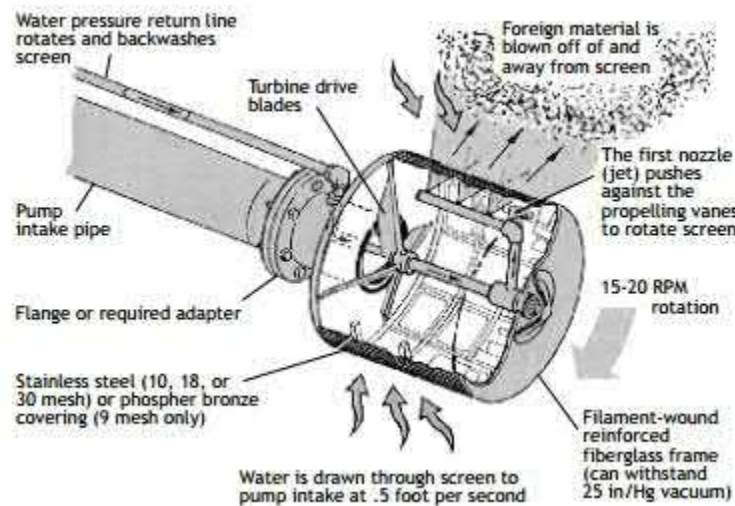
Photograph 6. View to the south of dam of reservoir (January 20, 2022).

2.a Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms.

The applicant will take reasonable measures to avoid impingement and entrainment of aquatic resources by the use of a SCS6 self-cleaning lake screen on the intake pipe of the diversion point. The self-cleaning lake screen has an aluminum screen with 3/32" holes. Specs for the SCS6 is provided below.

Model #	Strainer Capacity GPM	m ³ /hr	GPM Used to Backwash	Pressure Needed to Backwash	Supply Line Size	Screen Dimensions Height x Width	Weight (lbs.)	Overall Height
SCS6	625	142	24	60 psi	1"	14.25" x 16.5"	25	26"

A diagram of the self-cleaning screen is provided below.



2.b An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

The application only requests to discharge and subsequently divert groundwater. The amount of water diverted will not exceed the amount of water discharge, less losses, therefore there should be no changes to downstream instream flows or freshwater inflows.

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

- a. reasonably current water chemistry information, including but not limited to the table below.

*A summary for four existing Paluxy wells is included below. Full analytical results can be found in Attachment 9. An exhibit showing the locations of each of these well is included in **Attachment 3, Sheet 6**.*

Table 1. Summary Water Chemistry Results for DU North Well					
Parameter	Avg. Conc.	Max Conc.	No. of Samples	Sample Type	Sample Data/Time
Sulfate, mg/L		83.3	1	Water	2/1/2021
Chloride, mg/L		12.3	1	Water	2/1/2021
Total Dissolved Solids, mg/L		621	1	Water	2/1/2021
pH		8.9	1	Water	2/1/2021
Temperature, C°		25	1	Water	2/1/2021

Table 2. Summary Water Chemistry Results for DU South Well					
Parameter	Avg. Conc.	Max Conc.	No. of Samples	Sample Type	Sample Data/Time
Sulfate, mg/L		42.1	1	Water	2/1/2021
Chloride, mg/L		6.9	1	Water	2/1/2021
Total Dissolved Solids, mg/L		489	1	Water	2/1/2021
pH		9.2	1	Water	2/1/2021
Temperature, C°		25	1	Water	2/1/2021

Table 3. Summary Water Chemistry Results for Well House #1					
Parameter	Avg. Conc.	Max Conc.	No. of Samples	Sample Type	Sample Data/Time
Sulfate, mg/L		46.6	1	Water	3/16/2021
Chloride, mg/L		6.9	1	Water	3/16/2021
Total Dissolved Solids, mg/L		489	1	Water	3/16/2021
pH		9.1	1	Water	3/16/2021
Temperature, C°		27	1	Water	3/16/2021

Table 4. Summary Water Chemistry Results for Well House #2					
Parameter	Avg. Conc.	Max Conc.	No. of Samples	Sample Type	Sample Data/Time
Sulfate, mg/L		40.4	1	Water	5/7/2021
Chloride, mg/L		6.67	1	Water	5/7/2021
Total Dissolved Solids, mg/L		502	1	Water	5/7/2021
pH		9.22	1	Water	5/7/2021
Temperature, C°		28	1	Water	5/7/2021

- b. All of these wells withdraw water from the Paluxy aquifer. The depth of the wells was:
- DU North well – 715 feet
 - DU South well – unknown, but assumed to be approximately the same depth as DU North well
 - Wells House #1 – 682 feet
 - Well House #2 – 685 feet

ATTACHMENT 9

Analytical Results

February 12, 2021

Chris Hamilton
Peloton Land Solutions
9800 Hillwood Parkway
Fort Worth, TX 76177

RE: Project: Well Water Testing
Pace Project No.: 75149391

Dear Chris Hamilton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Corpus Christi
- Pace Analytical Services - Dallas
- Pace Analytical Services - Fort Worth

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Amy Bryant

(972)727-1123
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Well Water Testing

Pace Project No.: 75149391

Pace Analytical Services Dallas

Texas Certification T104704232-20-32
400 West Bethany Dr Suite 190, Allen, TX 75013
Florida Certification #: E871118
EPA# TX00074
Kansas Certification #: E-10388

Arkansas Certification #: 88-0647
Oklahoma Certification #: 8727
Louisiana Certification #: 30686
Iowa Certification #: 408

Pace Analytical Services Fort Worth

Texas Certification T104704232-20-32
2657 Gravel Dr, Fort Worth, Texas 76118

EPA# TX00074

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Corpus Christi

2209 North Padre Island Drive - Suite K, Corpus Christi,
TX 78408

Texas Certification: T104704232-20-32

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75149391001	South Well	Water	02/01/21 09:15	02/01/21 10:05
75149391002	North Well	Water	02/01/21 09:30	02/01/21 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
75149391001	South Well	SM 4500-CI G	MLW	1	PASI-CC
		SM 4500NorgB	MLW	1	PASI-CC
		SM 9223, Colilert	ALD	2	PASI-FTW
		EPA 6010B	CCE	1	PAN
		EPA 200.7	CDP	22	PASI-D
		EPA 245.1	NCC	1	PASI-D
		SM 2520B Modified	CO	1	PAN
		Calculated	CCE	1	PAN
		EPA 120.1	LNLM1	1	PASI-D
		EPA 180.1	JAP2	1	PASI-D
		SM 2320B	JAP2	5	PASI-D
		SM 2540C	LNLM1	1	PASI-D
		SM 2540D	LNLM1	1	PASI-D
		SM 4500-H+B	JAP2	1	PASI-D
		SM 5210B	LNLM1	1	PASI-D
		40CFR PART 432.2	JAP2	1	PASI-D
		EPA 300.0	JAP2	4	PASI-D
		EPA 353.2	JAP2	3	PASI-D
		SM 4500-NH3 H	JAP2	1	PASI-D
		SM 4500-P E	LNLM1	1	PASI-D
		SM 5310C	JAP2	1	PASI-D
		SM 4500-P E	AME	1	PASI-D
75149391002	North Well	SM 4500-CI G	MLW	1	PASI-CC
		SM 4500NorgB	MLW	1	PASI-CC
		SM 9223, Colilert	ALD	2	PASI-FTW
		EPA 6010B	CCE	1	PAN
		EPA 200.7	CDP	22	PASI-D
		EPA 245.1	NCC	1	PASI-D
		SM 2520B Modified	CO	1	PAN
		Calculated	CCE	1	PAN
		EPA 120.1	LNLM1	1	PASI-D
		EPA 180.1	JAP2	1	PASI-D
		SM 2320B	JAP2	5	PASI-D
		SM 2540C	EIG	1	PASI-D
		SM 2540D	LNLM1	1	PASI-D
		SM 4500-H+B	JAP2	1	PASI-D
		SM 5210B	LNLM1	1	PASI-D

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		40CFR PART 432.2	JAP2	1	PASI-D
		EPA 300.0	JAP2	4	PASI-D
		EPA 353.2	JAP2	3	PASI-D
		SM 4500-NH3 H	JAP2	1	PASI-D
		SM 4500-P E	LNMI	1	PASI-D
		SM 5310C	JAP2	1	PASI-D
		SM 4500-P E	AME	1	PASI-D

PAN = Pace National - Mt. Juliet

PASI-CC = Pace Analytical Services - Corpus Christi

PASI-D = Pace Analytical Services - Dallas

PASI-FTW = Pace Analytical Services - Fort Worth

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water Testing

Pace Project No.: 75149391

Sample: South Well		Lab ID: 75149391001		Collected: 02/01/21 09:15		Received: 02/01/21 10:05		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500CL G Chlorine, Residual CC		Analytical Method: SM 4500-Cl G Pace Analytical Services - Corpus Christi							
Chlorine, Total Residual	ND	mg/L	0.050	1		02/10/21 16:49	7782-50-5	H6	
CC 4500 Total Kjeldahl Nitrog		Analytical Method: SM 4500NorgB Preparation Method: SM 4500NorgB Pace Analytical Services - Corpus Christi							
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.040	1	02/08/21 09:42	02/08/21 15:13	7727-37-9		
FWSC Total Ecoli		Analytical Method: SM 9223, Colilert Preparation Method: SM 9223, Colilert Pace Analytical Services - Fort Worth							
Total Coliforms	<1.0	MPN/100mL	1.0	1	02/01/21 17:00	02/02/21 17:09			
Escherichia coli (E.coli)	<1.0	MPN/100mL	1.0	1	02/01/21 17:00	02/02/21 17:09			
Metals (ICP) 6010B		Analytical Method: EPA 6010B Preparation Method: 3015 Pace National - Mt. Juliet							
Silicon	5.64	mg/L	0.200	1	02/04/21 19:12	02/05/21 09:33	7440-21-3		
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Dallas							
Aluminum	ND	ug/L	500	1	02/04/21 11:40	02/05/21 12:42	7429-90-5		
Antimony	ND	ug/L	25.0	1	02/04/21 11:40	02/05/21 12:42	7440-36-0		
Arsenic	ND	ug/L	20.0	1	02/04/21 11:40	02/05/21 12:42	7440-38-2		
Barium	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:42	7440-39-3		
Beryllium	ND	ug/L	1.0	1	02/04/21 11:40	02/05/21 12:42	7440-41-7		
Boron	400	ug/L	100	1	02/04/21 11:40	02/05/21 12:42	7440-42-8		
Cadmium	ND	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:42	7440-43-9		
Calcium	ND	ug/L	1000	1	02/04/21 11:40	02/05/21 12:42	7440-70-2		
Chromium	ND	ug/L	7.0	1	02/04/21 11:40	02/05/21 12:42	7440-47-3		
Copper	ND	ug/L	20.0	1	02/04/21 11:40	02/08/21 13:49	7440-50-8		
Iron	ND	ug/L	500	1	02/04/21 11:40	02/05/21 12:42	7439-89-6		
Lead	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:42	7439-92-1		
Magnesium	ND	ug/L	1000	1	02/04/21 11:40	02/05/21 12:42	7439-95-4		
Manganese	ND	ug/L	50.0	1	02/04/21 11:40	02/05/21 12:42	7439-96-5		
Nickel	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:42	7440-02-0		
Potassium	ND	ug/L	1000	1	02/04/21 11:40	02/05/21 12:42	7440-09-7		
Selenium	ND	ug/L	20.0	1	02/04/21 11:40	02/05/21 12:42	7782-49-2		
Silver	ND	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:42	7440-22-4		
Sodium	210000	ug/L	1000	1	02/04/21 11:40	02/05/21 12:42	7440-23-5		
Strontium	67.4	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:42	7440-24-6		
Hardness, Total(SM 2340B)	3330	ug/L		1	02/04/21 11:40	02/05/21 12:42			
Zinc	31.1	ug/L	25.0	1	02/04/21 11:40	02/05/21 12:42	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Dallas							
Mercury	ND	ug/L	0.20	1	02/04/21 11:30	02/04/21 16:15	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water Testing
Pace Project No.: 75149391

Sample: South Well		Lab ID: 75149391001		Collected: 02/01/21 09:15		Received: 02/01/21 10:05		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2520 B-2011		Analytical Method: SM 2520B Modified Preparation Method: 2520 B-2011 Pace National - Mt. Juliet							
Salinity	0.437	PSU	0.0500	1	02/04/21 12:00	02/04/21 12:00			
Calculated Results		Analytical Method: Calculated Preparation Method: Calc. Pace National - Mt. Juliet							
Silica	12.1	mg/L	0.428	1	02/05/21 09:33	02/05/21 09:33	7631-86-9		
120.1 Specific Conductance 25C		Analytical Method: EPA 120.1 Pace Analytical Services - Dallas							
Specific Conductance	858	umhos/cm	1.0	1		02/08/21 16:02			
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Dallas							
Turbidity	ND	NTU	1.5	1		02/03/21 13:24		H1	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Dallas							
Alkalinity, Hydroxide (CaCO3)	ND	mg/L	20.0	1		02/08/21 13:36			
Alkalinity, Phenolphthalein	78.0	mg/L	20.0	1		02/08/21 13:36			
Alkalinity, Total as CaCO3	414	mg/L	20.0	1		02/08/21 13:36			
Alkalinity,Bicarbonate (CaCO3)	258	mg/L	20.0	1		02/08/21 13:36			
Alkalinity,Carbonate (CaCO3)	156	mg/L	20.0	1		02/08/21 13:36			
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Dallas							
Total Dissolved Solids	489	mg/L	25.0	1		02/03/21 17:49			
2540D Total Suspended Solids		Analytical Method: SM 2540D Pace Analytical Services - Dallas							
Total Suspended Solids	ND	mg/L	2.5	1		02/02/21 16:26			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Dallas							
pH at 25 Degrees C	9.2	Std. Units	0.10	1		02/08/21 13:07		H3,H6	
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - Dallas							
BOD, 5 day	ND	mg/L	2.0	1	02/03/21 06:43	02/08/21 09:51			
Total Nitrogen Calculation		Analytical Method: 40CFR PART 432.2 Pace Analytical Services - Dallas							
Nitrogen	1.4	mg/L	0.10	1		02/08/21 16:30	7727-37-9		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water Testing

Pace Project No.: 75149391

Sample: South Well		Lab ID: 75149391001		Collected: 02/01/21 09:15		Received: 02/01/21 10:05		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Dallas							
Bromide	ND	mg/L	0.40	1		02/05/21 21:36	24959-67-9		
Chloride	6.9	mg/L	0.80	1		02/05/21 21:36	16887-00-6		
Fluoride	ND	mg/L	0.50	1		02/05/21 21:36	16984-48-8		
Sulfate	42.1	mg/L	7.0	10		02/05/21 22:29	14808-79-8		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Dallas							
Nitrogen, Nitrate	0.14	mg/L	0.050	1		02/03/21 09:43			
Nitrogen, Nitrite	ND	mg/L	0.050	1		02/03/21 09:43		H1	
Nitrogen, NO2 plus NO3	0.16	mg/L	0.050	1		02/03/21 09:43		H1	
4500 Ammonia Water		Analytical Method: SM 4500-NH3 H Pace Analytical Services - Dallas							
Nitrogen, Ammonia	0.56	mg/L	0.10	1		02/08/21 17:12	7664-41-7		
4500PE Orthophosphate		Analytical Method: SM 4500-P E Pace Analytical Services - Dallas							
Orthophosphate as P	0.047	mg/L	0.040	1		02/03/21 09:13		F6	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Dallas							
Total Organic Carbon	1.4	mg/L	1.0	1		02/05/21 14:43	7440-44-0		
SM4500P-E, Total Phosphorus		Analytical Method: SM 4500-P E Preparation Method: SM4500-P B Pace Analytical Services - Dallas							
Phosphorus	ND	mg/L	0.050	1	02/05/21 12:31	02/05/21 15:02	7723-14-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water Testing
Pace Project No.: 75149391

Sample: North Well		Lab ID: 75149391002		Collected: 02/01/21 09:30		Received: 02/01/21 10:05		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500CL G Chlorine, Residual CC		Analytical Method: SM 4500-Cl G Pace Analytical Services - Corpus Christi							
Chlorine, Total Residual	ND	mg/L	0.050	1		02/10/21 16:49	7782-50-5	H6	
CC 4500 Total Kjeldahl Nitrog		Analytical Method: SM 4500NorgB Preparation Method: SM 4500NorgB Pace Analytical Services - Corpus Christi							
Nitrogen, Kjeldahl, Total	0.88	mg/L	0.040	1	02/08/21 09:42	02/08/21 15:14	7727-37-9		
FWSC Total Ecoli		Analytical Method: SM 9223, Colilert Preparation Method: SM 9223, Colilert Pace Analytical Services - Fort Worth							
Total Coliforms	<1.0	MPN/100mL	1.0	1	02/01/21 17:00	02/02/21 17:09			
Escherichia coli (E.coli)	<1.0	MPN/100mL	1.0	1	02/01/21 17:00	02/02/21 17:09			
Metals (ICP) 6010B		Analytical Method: EPA 6010B Preparation Method: 3015 Pace National - Mt. Juliet							
Silicon	5.28	mg/L	0.200	1	02/04/21 19:12	02/05/21 09:36	7440-21-3		
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Dallas							
Aluminum	ND	ug/L	500	1	02/04/21 11:40	02/05/21 12:58	7429-90-5		
Antimony	ND	ug/L	25.0	1	02/04/21 11:40	02/05/21 12:58	7440-36-0		
Arsenic	ND	ug/L	20.0	1	02/04/21 11:40	02/05/21 12:58	7440-38-2		
Barium	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:58	7440-39-3		
Beryllium	ND	ug/L	1.0	1	02/04/21 11:40	02/05/21 12:58	7440-41-7		
Boron	668	ug/L	100	1	02/04/21 11:40	02/05/21 12:58	7440-42-8		
Cadmium	ND	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:58	7440-43-9		
Calcium	1240	ug/L	1000	1	02/04/21 11:40	02/05/21 12:58	7440-70-2		
Chromium	ND	ug/L	7.0	1	02/04/21 11:40	02/05/21 12:58	7440-47-3		
Copper	342	ug/L	20.0	1	02/04/21 11:40	02/08/21 13:54	7440-50-8		
Iron	ND	ug/L	500	1	02/04/21 11:40	02/05/21 12:58	7439-89-6		
Lead	71.8	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:58	7439-92-1		
Magnesium	ND	ug/L	1000	1	02/04/21 11:40	02/05/21 12:58	7439-95-4		
Manganese	ND	ug/L	50.0	1	02/04/21 11:40	02/05/21 12:58	7439-96-5		
Nickel	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:58	7440-02-0		
Potassium	1260	ug/L	1000	1	02/04/21 11:40	02/05/21 12:58	7440-09-7		
Selenium	ND	ug/L	20.0	1	02/04/21 11:40	02/05/21 12:58	7782-49-2		
Silver	ND	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:58	7440-22-4		
Sodium	243000	ug/L	1000	1	02/04/21 11:40	02/05/21 12:58	7440-23-5		
Strontium	94.6	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:58	7440-24-6		
Hardness, Total(SM 2340B)	4810	ug/L		1	02/04/21 11:40	02/05/21 12:58			
Zinc	42.8	ug/L	25.0	1	02/04/21 11:40	02/05/21 12:58	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Dallas							
Mercury	ND	ug/L	0.20	1	02/04/21 11:30	02/04/21 16:18	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water Testing
Pace Project No.: 75149391

Sample: North Well		Lab ID: 75149391002	Collected: 02/01/21 09:30	Received: 02/01/21 10:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2520 B-2011		Analytical Method: SM 2520B Modified Preparation Method: 2520 B-2011 Pace National - Mt. Juliet						
Salinity	0.528	PSU	0.0500	1	02/04/21 12:00	02/04/21 12:00		
Calculated Results		Analytical Method: Calculated Preparation Method: Calc. Pace National - Mt. Juliet						
Silica	11.3	mg/L	0.428	1	02/05/21 09:36	02/05/21 09:36	7631-86-9	
120.1 Specific Conductance 25C		Analytical Method: EPA 120.1 Pace Analytical Services - Dallas						
Specific Conductance	1020	umhos/cm	1.0	1		02/08/21 16:03		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Dallas						
Turbidity	ND	NTU	1.5	1		02/03/21 13:24		H1
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Dallas						
Alkalinity, Hydroxide (CaCO3)	ND	mg/L	20.0	1		02/08/21 13:43		
Alkalinity, Phenolphthalein	72.0	mg/L	20.0	1		02/08/21 13:43		
Alkalinity, Total as CaCO3	464	mg/L	20.0	1		02/08/21 13:43		
Alkalinity,Bicarbonate (CaCO3)	320	mg/L	20.0	1		02/08/21 13:43		
Alkalinity,Carbonate (CaCO3)	144	mg/L	20.0	1		02/08/21 13:43		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Dallas						
Total Dissolved Solids	621	mg/L	25.0	1		02/05/21 16:00		
2540D Total Suspended Solids		Analytical Method: SM 2540D Pace Analytical Services - Dallas						
Total Suspended Solids	ND	mg/L	2.5	1		02/02/21 16:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Dallas						
pH at 25 Degrees C	8.9	Std. Units	0.10	1		02/08/21 13:10		H3,H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - Dallas						
BOD, 5 day	ND	mg/L	2.0	1	02/03/21 06:43	02/08/21 09:57		
Total Nitrogen Calculation		Analytical Method: 40CFR PART 432.2 Pace Analytical Services - Dallas						
Nitrogen	1.2	mg/L	0.10	1		02/08/21 16:30	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water Testing

Pace Project No.: 75149391

Sample: North Well		Lab ID: 75149391002		Collected: 02/01/21 09:30		Received: 02/01/21 10:05		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Dallas							
Bromide	ND	mg/L	0.40	1		02/05/21 23:23	24959-67-9		
Chloride	12.3	mg/L	0.80	1		02/05/21 23:23	16887-00-6		
Fluoride	1.4	mg/L	0.50	1		02/05/21 23:23	16984-48-8		
Sulfate	83.3	mg/L	7.0	10		02/05/21 23:41	14808-79-8		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Dallas							
Nitrogen, Nitrate	0.23	mg/L	0.050	1		02/03/21 09:44			
Nitrogen, Nitrite	ND	mg/L	0.050	1		02/03/21 09:44		H1	
Nitrogen, NO2 plus NO3	0.27	mg/L	0.050	1		02/03/21 09:44		H1	
4500 Ammonia Water		Analytical Method: SM 4500-NH3 H Pace Analytical Services - Dallas							
Nitrogen, Ammonia	0.36	mg/L	0.10	1		02/08/21 17:14	7664-41-7		
4500PE Orthophosphate		Analytical Method: SM 4500-P E Pace Analytical Services - Dallas							
Orthophosphate as P	0.094	mg/L	0.040	1		02/03/21 09:14		F6	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Dallas							
Total Organic Carbon	1.4	mg/L	1.0	1		02/05/21 15:07	7440-44-0		
SM4500P-E, Total Phosphorus		Analytical Method: SM 4500-P E Preparation Method: SM4500-P B Pace Analytical Services - Dallas							
Phosphorus	ND	mg/L	0.050	1	02/05/21 12:31	02/05/21 15:02	7723-14-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160874

Analysis Method: SM 4500-Cl G

QC Batch Method: SM 4500-Cl G

Analysis Description: 4500CL G Chlorine, Total Residual CC

Laboratory: Pace Analytical Services - Corpus Christi

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 730870

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorine, Total Residual	mg/L	ND	0.050	02/10/21 16:49	H6

LABORATORY CONTROL SAMPLE: 730871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorine, Total Residual	mg/L	0.5	0.50	101	85-115	H6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 730872 730873

Parameter	Units	75149391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorine, Total Residual	mg/L	ND	0.5	0.5	0.52	0.55	102	106	85-115	4	15	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160627

Analysis Method: SM 4500NorgB

QC Batch Method: SM 4500NorgB

Analysis Description: CC 4500 Total Kjeldahl Nitrogen

Laboratory: Pace Analytical Services - Corpus Christi

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729732

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.040	02/08/21 15:13	

LABORATORY CONTROL SAMPLE: 729733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1	1.0	104	90-110	

LABORATORY CONTROL SAMPLE: 729734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	26.2	23.4	89	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729735 729736

Parameter	Units	75149391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.2	1	1	2.3	2.3	107	110	90-110	1	10	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160234

Analysis Method: SM 9223, Colilert

QC Batch Method: SM 9223, Colilert

Analysis Description: 9223B FWSC Total Ecoli FW

Laboratory: Pace Analytical Services - Fort Worth

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728072

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Escherichia coli (E.coli)	MPN/100mL	<1.0	1.0	02/02/21 17:08	
Total Coliforms	MPN/100mL	<1.0	1.0	02/02/21 17:08	

SAMPLE DUPLICATE: 728073

Parameter	Units	75149389001 Result	Dup Result	RPD	Max RPD	Qualifiers
Escherichia coli (E.coli)	MPN/100mL	<1.0	<1.0			
Total Coliforms	MPN/100mL	6.3	14.6			1t,D6

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 1614796

Analysis Method: EPA 6010B

QC Batch Method: 3015

Analysis Description: Metals (ICP) 6010B

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: R3619641-1

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Silicon	mg/L	ND	0.200	02/05/21 00:14	

LABORATORY CONTROL SAMPLE: R3619641-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silicon	mg/L	1.00	0.895	89.5	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3619641-4 R3619641-5

Parameter	Units	L1312130-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silicon	mg/L	13.8	1.00	1.00	14.6	14.5	77.8	65.6	75.0-125	0.842	20	E,P6

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728421

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/04/21 15:03	

LABORATORY CONTROL SAMPLE: 728422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728423 728424

Parameter	Units	75148972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.7	2.7	107	108	41-139	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728425 728426

Parameter	Units	75148972004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.2	2.2	90	90	41-139	0	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160428

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729075

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	500	02/05/21 12:11	
Antimony	ug/L	ND	25.0	02/05/21 12:11	
Arsenic	ug/L	ND	20.0	02/05/21 12:11	
Barium	ug/L	ND	10.0	02/05/21 12:11	
Beryllium	ug/L	ND	1.0	02/05/21 12:11	
Boron	ug/L	ND	100	02/05/21 12:11	
Cadmium	ug/L	ND	5.0	02/05/21 12:11	
Calcium	ug/L	ND	1000	02/05/21 12:11	
Chromium	ug/L	ND	7.0	02/05/21 12:11	
Copper	ug/L	ND	20.0	02/05/21 12:11	2t
Hardness, Total(SM 2340B)	ug/L	73.3		02/05/21 12:11	
Iron	ug/L	ND	500	02/05/21 12:11	
Lead	ug/L	ND	10.0	02/05/21 12:11	
Magnesium	ug/L	ND	1000	02/05/21 12:11	
Manganese	ug/L	ND	50.0	02/05/21 12:11	
Nickel	ug/L	ND	10.0	02/05/21 12:11	
Potassium	ug/L	ND	1000	02/05/21 12:11	
Selenium	ug/L	ND	20.0	02/05/21 12:11	
Silver	ug/L	ND	5.0	02/05/21 12:11	
Sodium	ug/L	ND	1000	02/05/21 12:11	
Strontium	ug/L	ND	5.0	02/05/21 12:11	
Zinc	ug/L	ND	25.0	02/05/21 12:11	

LABORATORY CONTROL SAMPLE: 729076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10800	108	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Barium	ug/L	1000	1050	105	85-115	
Beryllium	ug/L	1000	1070	107	85-115	
Boron	ug/L	1000	1090	109	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Calcium	ug/L	10000	10800	108	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1020	102	85-115	
Hardness, Total(SM 2340B)	ug/L		71600			
Iron	ug/L	10000	10900	109	85-115	
Lead	ug/L	1000	1110	111	85-115	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

LABORATORY CONTROL SAMPLE: 729076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	10000	10900	109	85-115	
Manganese	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1080	108	85-115	
Potassium	ug/L	10000	10700	107	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	516	103	85-115	
Sodium	ug/L	10000	10700	107	85-115	
Strontium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729077 729078

Parameter	Units	75149388001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10700	10700	107	107	70-130	0	20	
Antimony	ug/L	ND	1000	1000	1060	1050	106	105	70-130	1	20	
Arsenic	ug/L	9.2 mg/L	1000	1000	10300	10300	108	110	70-130	0	20	
Barium	ug/L	ND	1000	1000	1060	1060	105	106	70-130	0	20	
Beryllium	ug/L	ND	1000	1000	1080	1070	108	107	70-130	1	20	
Boron	ug/L	ND	1000	1000	1120	1100	110	108	70-130	2	20	
Cadmium	ug/L	0.14 mg/L	1000	1000	1190	1180	105	104	70-130	1	20	
Calcium	ug/L	18.6 mg/L	10000	10000	29300	29300	107	107	70-130	0	20	
Chromium	ug/L	ND	1000	1000	1070	1040	107	104	70-130	3	20	
Copper	ug/L	0.34 mg/L	1000	1000	1420	1420	108	109	70-130	0	20	IC
Hardness, Total(SM 2340B)	ug/L	52.2 mg/L			123000	123000				0		
Iron	ug/L	1.5 mg/L	10000	10000	12400	12300	108	108	70-130	0	20	
Lead	ug/L	ND	1000	1000	1080	1060	108	106	70-130	1	20	
Magnesium	ug/L	1.4 mg/L	10000	10000	12100	12100	107	106	70-130	1	20	
Manganese	ug/L	0.41 mg/L	1000	1000	1450	1420	105	101	70-130	2	20	
Nickel	ug/L	ND	1000	1000	1070	1060	107	106	70-130	1	20	
Potassium	ug/L	1.8 mg/L	10000	10000	12600	12500	108	107	70-130	0	20	
Selenium	ug/L	ND	1000	1000	1060	1050	106	105	70-130	1	20	
Silver	ug/L	ND	500	500	526	511	105	102	70-130	3	20	
Sodium	ug/L	60.8 mg/L	10000	10000	71500	71700	106	108	70-130	0	20	
Strontium	ug/L	0.18 mg/L	1000	1000	1240	1250	106	107	70-130	0	20	
Zinc	ug/L	ND	1000	1000	1050	1040	105	104	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729079 729080

Parameter	Units	75149390001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10500	10500	105	105	70-130	0	20	
Antimony	ug/L	ND	1000	1000	1050	1030	105	103	70-130	2	20	
Arsenic	ug/L	0.13 mg/L	1000	1000	1160	1140	103	101	70-130	2	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729079 729080													
Parameter	Units	75149390001	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
Barium	ug/L	ND	1000	1000	1050	1030	104	103	70-130	1	20		
Beryllium	ug/L	ND	1000	1000	1070	1050	107	105	70-130	1	20		
Boron	ug/L	ND	1000	1000	1120	1100	108	106	70-130	2	20		
Cadmium	ug/L	ND	1000	1000	1040	1030	104	103	70-130	1	20		
Calcium	ug/L	28.5 mg/L	10000	10000	38900	38600	104	101	70-130	1	20		
Chromium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	20		
Copper	ug/L	ND	1000	1000	1080	1060	107	106	70-130	1	20	IC	
Hardness, Total(SM 2340B)	ug/L	80.8 mg/L			150000	149000				0			
Iron	ug/L	0.53 mg/L	10000	10000	11200	11100	107	106	70-130	1	20		
Lead	ug/L	ND	1000	1000	1050	1040	104	104	70-130	1	20		
Magnesium	ug/L	2.3 mg/L	10000	10000	12800	12900	105	106	70-130	0	20		
Manganese	ug/L	0.56 mg/L	1000	1000	1570	1570	101	100	70-130	0	20		
Nickel	ug/L	ND	1000	1000	1050	1040	105	104	70-130	1	20		
Potassium	ug/L	2.8 mg/L	10000	10000	13600	13400	107	106	70-130	1	20		
Selenium	ug/L	ND	1000	1000	1040	1030	104	103	70-130	1	20		
Silver	ug/L	ND	500	500	512	510	102	102	70-130	0	20		
Sodium	ug/L	93.3 mg/L	10000	10000	104000	103000	102	93	70-130	1	20		
Strontium	ug/L	0.29 mg/L	1000	1000	1340	1320	105	103	70-130	2	20		
Zinc	ug/L	ND	1000	1000	1040	1030	104	103	70-130	1	20		

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 1616317

Analysis Method: SM 2520B Modified

QC Batch Method: 2520 B-2011

Analysis Description: Wet Chemistry 2520 B-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: R3619368-1

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Salinity	PSU	ND	0.0500	02/04/21 12:00	

LABORATORY CONTROL SAMPLE: R3619368-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Salinity	PSU	35.0	37.9	108	85.0-115	

SAMPLE DUPLICATE: R3619368-3

Parameter	Units	75149391001 Result	Dup Result	RPD	Max RPD	Qualifiers
Salinity	PSU	0.437	0.438	0.229	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160642

Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1

Analysis Description: 120.1 Specific Conductance

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729790

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	1.0	02/08/21 15:59	

LABORATORY CONTROL SAMPLE: 729791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	200	201	101	80-120	

SAMPLE DUPLICATE: 729792

Parameter	Units	75149391001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	858	845	2	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160368

Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728717

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	ND	1.5	02/03/21 13:24	

SAMPLE DUPLICATE: 728718

Parameter	Units	75149478001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	ND	ND		20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160641

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729787

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	02/08/21 13:26	

LABORATORY CONTROL SAMPLE: 729788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	250	274	110	90-110	

SAMPLE DUPLICATE: 729789

Parameter	Units	75149391001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	414	414	0	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160403

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001

METHOD BLANK: 728932

Matrix: Water

Associated Lab Samples: 75149391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/03/21 17:47	

LABORATORY CONTROL SAMPLE: 728933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	251	100	85-115	

SAMPLE DUPLICATE: 728934

Parameter	Units	75149329001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	936	1020	9	5	D6

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160577

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391002

METHOD BLANK: 729589

Matrix: Water

Associated Lab Samples: 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/05/21 16:00	

LABORATORY CONTROL SAMPLE: 729590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	85-115	

SAMPLE DUPLICATE: 729591

Parameter	Units	75149391002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	621	636	2	5	

SAMPLE DUPLICATE: 729600

Parameter	Units	75149506001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	775	772	0	5	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160306

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728418

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.5	02/02/21 16:25	

LABORATORY CONTROL SAMPLE: 728419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	200	181	90	85-115	

SAMPLE DUPLICATE: 728448

Parameter	Units	75149352001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1260	1260	0	10	

SAMPLE DUPLICATE: 728459

Parameter	Units	75149343001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	143	152	6	10	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch:	160639	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

LABORATORY CONTROL SAMPLE: 729785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	6	6.0	100	99-101	H6

SAMPLE DUPLICATE: 729786

Parameter	Units	75149391001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.2	9.2	0	20	H3,H6

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160322

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728522

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/08/21 09:28	

LABORATORY CONTROL SAMPLE: 728524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 728525

Parameter	Units	75149429001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 728526

Parameter	Units	75149480001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	34.3	31.1	10	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160562

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729532

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	0.40	02/05/21 21:00	
Chloride	mg/L	ND	0.80	02/05/21 21:00	
Fluoride	mg/L	ND	0.50	02/05/21 21:00	
Sulfate	mg/L	ND	0.70	02/05/21 21:00	

LABORATORY CONTROL SAMPLE: 729533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.4	108	90-110	
Chloride	mg/L	5	5.1	101	90-110	
Fluoride	mg/L	5	5.4	108	90-110	
Sulfate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729534

729535

Parameter	Units	75149391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.4	4.9	107	97	90-110	10	20	
Chloride	mg/L	6.9	5	5	11.9	11.8	100	98	90-110	1	20	
Fluoride	mg/L	ND	5	5	5.6	5.6	105	104	90-110	1	20	
Sulfate	mg/L	42.1	50	50	94.7	94.2	105	104	90-110	1	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160326

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728535

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.050	02/03/21 09:40	
Nitrogen, Nitrite	mg/L	ND	0.050	02/03/21 09:40	
Nitrogen, NO2 plus NO3	mg/L	ND	0.050	02/03/21 09:40	

LABORATORY CONTROL SAMPLE: 728536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L		ND			
Nitrogen, Nitrite	mg/L	2.5	2.6	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728537 728538

Parameter	Units	75149424001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	12.3			10.4	10.4				0	20	
Nitrogen, Nitrite	mg/L	ND	12.5	12.5	13.0	13.2	104	105	90-110	1	20	
Nitrogen, NO2 plus NO3	mg/L	12.3	12.5	12.5	23.5	23.6	90	90	90-110	0	20	

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160649

Analysis Method: SM 4500-NH3 H

QC Batch Method: SM 4500-NH3 H

Analysis Description: 4500 Ammonia

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729813

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/08/21 17:08	

LABORATORY CONTROL SAMPLE: 729814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729815 729816

Parameter	Units	75149391002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.36	5	5	5.4	5.6	101	105	80-120	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160313

Analysis Method: SM 4500-P E

QC Batch Method: SM 4500-P E

Analysis Description: 4500PE Orthophosphate

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728479

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.040	02/03/21 09:13	

LABORATORY CONTROL SAMPLE: 728480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	0.25	0.26	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728481 728482

Parameter	Units	75149437008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	0.25	0.25	0.23	0.24	90	91	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160495

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729309

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/05/21 14:03	

LABORATORY CONTROL SAMPLE: 729310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729311 729312

Parameter	Units	75149584001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	9.8	10.6	88	97	80-120	8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729313 729314

Parameter	Units	75149437002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.7	10	10	13.8	13.7	91	90	80-120	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160508

Analysis Method: SM 4500-P E

QC Batch Method: SM4500-P B

Analysis Description: SM4500P-E, Total Phosphorus

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729374

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	02/05/21 14:55	

LABORATORY CONTROL SAMPLE: 729375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729376

729377

Parameter	Units	75148900001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	1.4	0.5	0.5	1.7	1.7	51	58	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729378

729379

Parameter	Units	75149062002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.58	0.5	0.5	0.67	0.66	17	17	80-120	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Well Water Testing
Pace Project No.: 75149391

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The Nelac Institute

ANALYTE QUALIFIERS

1t	Calculated RPD is 79%. RPD limit is 20%.
2t	This analyte exceeded secondary source verification criteria high for the initial calibration. CCV is within acceptance parameters for analyte which is ND.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
F6	Sample was not filtered within 15 minutes of collection and does not meet sampling and/or regulatory requirements.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75149391001	South Well	SM 4500-Cl G	160874		
75149391002	North Well	SM 4500-Cl G	160874		
75149391001	South Well	SM 4500NorgB	160627	SM 4500NorgB	160662
75149391002	North Well	SM 4500NorgB	160627	SM 4500NorgB	160662
75149391001	South Well	SM 9223, Colilert	160234	SM 9223, Colilert	160289
75149391002	North Well	SM 9223, Colilert	160234	SM 9223, Colilert	160289
75149391001	South Well	3015	1614796	EPA 6010B	1614796
75149391002	North Well	3015	1614796	EPA 6010B	1614796
75149391001	South Well	EPA 200.7	160428	EPA 200.7	160469
75149391002	North Well	EPA 200.7	160428	EPA 200.7	160469
75149391001	South Well	EPA 245.1	160307	EPA 245.1	160454
75149391002	North Well	EPA 245.1	160307	EPA 245.1	160454
75149391001	South Well	2520 B-2011	1616317	SM 2520B Modified	1616317
75149391002	North Well	2520 B-2011	1616317	SM 2520B Modified	1616317
75149391001	South Well	Calc.	1614796	Calculated	1614796
75149391002	North Well	Calc.	1614796	Calculated	1614796
75149391001	South Well	EPA 120.1	160642		
75149391002	North Well	EPA 120.1	160642		
75149391001	South Well	EPA 180.1	160368		
75149391002	North Well	EPA 180.1	160368		
75149391001	South Well	SM 2320B	160641		
75149391002	North Well	SM 2320B	160641		
75149391001	South Well	SM 2540C	160403		
75149391002	North Well	SM 2540C	160577		
75149391001	South Well	SM 2540D	160306		
75149391002	North Well	SM 2540D	160306		
75149391001	South Well	SM 4500-H+B	160639		
75149391002	North Well	SM 4500-H+B	160639		
75149391001	South Well	SM 5210B	160322	SM 5210B	160343
75149391002	North Well	SM 5210B	160322	SM 5210B	160343
75149391001	South Well	40CFR PART 432.2	160702		
75149391002	North Well	40CFR PART 432.2	160702		
75149391001	South Well	EPA 300.0	160562		
75149391002	North Well	EPA 300.0	160562		
75149391001	South Well	EPA 353.2	160326		
75149391002	North Well	EPA 353.2	160326		
75149391001	South Well	SM 4500-NH3 H	160649		
75149391002	North Well	SM 4500-NH3 H	160649		
75149391001	South Well	SM 4500-P E	160313		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75149391002	North Well	SM 4500-P E	160313		
75149391001	South Well	SM 5310C	160495		
75149391002	North Well	SM 5310C	160495		
75149391001	South Well	SM4500-P B	160508	SM 4500-P E	160553
75149391002	North Well	SM4500-P B	160508	SM 4500-P E	160553

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☐ Dallas
 ☒ Ft Worth
 ☐ Corpus Christi
 ☐ Austin

Client Name: PELOTON Project Work order: _____
 Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☒ LSO ☐ PACE ☐ Other: _____
 Tracking #: _____

WO#: 75149391



Custody Seal on Cooler/Box: Yes ☒ No ☐

Received on Ice: Wet ☒ Blue ☐ No Ice ☐

Receiving Lab 1 Thermometer Used: FWT103 Cooler Temp °C: 3.2 (Recorded) 0 (Correction Factor) 3.2 (Actual)

Receiving Lab 2 Thermometer Used: TR16 Cooler Temp °C: 2.6 (Recorded) 0 (Correction Factor) 2.6 (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

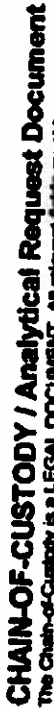
Triage Person: ALO Date: 02.01.21

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: DH Date: 02.01.21

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable pH Strips: <u>1 8.0-8.6</u> Residual Chlorine Present Cl Strips: _____ Sulfide Present Lead Acetate Strips: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
State Sampled: _____	
Non-Conformance(s):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Labeling Person (if different than log-in): ALO Date: 02.01.21



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

[illegible]

Parameters
Alkalinity, Bicarbonate (CaCO3)
Alkalinity, Carbonate (CaCO3)
Alkalinity, Hydroxide (CaCO3)
Alkalinity, Phenolphthalein
Alkalinity, Total as CaCO3
Aluminum
Antimony
Arsenic
Barium
Beryllium
BOD, 5 day
Boron
Bromide
Cadmium
Calcium
Chloride
Chlorine, Total Residual
Chromium
Copper
Escherichia coli (E.coli)
Fluoride
Iron
Lead
Magnesium
Manganese
Mercury
NH3-N (Ammonia-Nitrogen)
Nickel
Nitrogen
Nitrogen, Kjeldahl, Total
Nitrogen, Nitrate
Nitrogen, NO2 plus NO3
Orthophosphate as P
PH at 25 Degrees C
Phosphorus
Potassium
Salinity
Selenium
Silicon
Silica
Silver
Sodium
Specific Conductance

Strontium
Sulfate
Total Coliforms
Total Dissolved Solids
Total Hardness by 2340B
Total Organic Carbon
Total Suspended Solids
Turbidity
Zinc

WO#: 75149391

PH: AOB

Due Date: 02/15/21

CLIENT: Peleton Land

Rec. 2 X TEN'S
 NO Residual Cl.
 Sm 2-4-21
 # Res. Cl. Rec. 2/14/21 sm

G065

State Of Origin: TX

Cert. Needed: ☐ Yes

☒ No

Owner Received Date: 2/1/2021

Results Requested By: 2/8/2021

Workorder: 75149391

Workorder Name: Well Water Testing

Report To

Subcontract To

Requested Analysis

Amy Bryant
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013
Phone (972)727-1123

Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Salinity

Silica/Silicon

Preserved Containers

[illegible]

					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1	Tom Robinson Pace	2/2/21 1700	Feder	2/2/21 1700	
2	Feder		Kailey Miller	2/3/21 900	
3					
Cooler Temperature on Receipt 2.5 °C		Custody Seal <input checked="" type="checkbox"/> or N		Received on Ice <input checked="" type="checkbox"/> or N	Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

0.870243
Aer

Fedex: 9518 7517 8646

Sample Receipt Checklist

Sample Receipt Checklist

COC Seal Present/Intact:	<u>Y</u>	N	If Applicable	
COC Signed/Accurate:	<u>Y</u>	N	VOA Zero Headspace:	<u>Y</u> N
Bottles arrive intact:	<u>Y</u>	N	Pres. Correct/Check:	<u>Y</u> N
Correct bottles used:	<u>Y</u>	N		
Sufficient volume sent:	<u>Y</u>	N		
RAD Screen <0.5 mR/hr:	<u>Y</u>	N		

April 19, 2021

Chris Hamilton
Peloton Land Solutions
9800 Hillwood Parkway
Fort Worth, TX 76177

RE: Project: Well Water testing
Pace Project No.: 75151963

Dear Chris Hamilton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Corpus Christi
- Pace Analytical Services - Dallas
- Pace Analytical Services - Fort Worth

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Amy Bryant

[REDACTED]
(972)727-1123
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Well Water testing
Pace Project No.: 75151963

Pace Analytical Services Dallas

Texas Certification T104704232-20-32
400 West Bethany Dr Suite 190, Allen, TX 75013
Florida Certification #: E871118
EPA# TX00074
Kansas Certification #: E-10388

Arkansas Certification #: 88-0647
Oklahoma Certification #: 8727
Louisiana Certification #: 30686
Iowa Certification #: 408

Pace Analytical Services Fort Worth

Texas Certification T104704232-20-32
2657 Gravel Dr, Fort Worth, Texas 76118

EPA# TX00074

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Corpus Christi

2209 North Padre Island Drive - Suite K, Corpus Christi,
TX 78408

Texas Certification: T104704232-20-32

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Well Water testing

Pace Project No.: 75151963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75151963001	Well house 1	Water	03/16/21 14:40	03/16/21 15:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Well Water testing

Pace Project No.: 75151963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
75151963001	Well house 1	SM 4500-CI G	MLW	1	PASI-CC
		SM 4500NorgB	MLW	1	PASI-CC
		SM 9223, Colilert	AGH	2	PASI-FTW
		EPA 200.7	CDP	22	PASI-D
		EPA 200.7	EL	1	PAN
		EPA 245.1	NCC	1	PASI-D
		SM 2520B Modified	CO	1	PAN
		EPA 120.1	EIG	1	PASI-D
		EPA 180.1	JAP2	1	PASI-D
		SM 2320B	JAP2	5	PASI-D
		SM 2540C	EIG	1	PASI-D
		SM 2540D	EIG	1	PASI-D
		Calculated	EL	1	PAN
		SM 4500-H+B	JAP2	1	PASI-D
		SM 5210B	AME	1	PASI-D
		40CFR PART 432.2	TJG	1	PASI-D
		EPA 300.0	JAP2	4	PASI-D
		EPA 353.2	JAP2	3	PASI-D
		SM 4500-NH3 H	MAH	1	PASI-D
		SM 4500-P E	LNMI	1	PASI-D
		SM 5310C	MAH	1	PASI-D
		SM 4500-P E	LNMI	1	PASI-D

PAN = Pace National - Mt. Juliet

PASI-CC = Pace Analytical Services - Corpus Christi

PASI-D = Pace Analytical Services - Dallas

PASI-FTW = Pace Analytical Services - Fort Worth

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water testing

Pace Project No.: 75151963

Sample: Well house 1		Lab ID: 75151963001		Collected: 03/16/21 14:40		Received: 03/16/21 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500CL G Chlorine, Residual CC		Analytical Method: SM 4500-Cl G Pace Analytical Services - Corpus Christi							
Chlorine, Total Residual	ND	mg/L	0.050	1		03/19/21 10:04	7782-50-5	H6	
CC 4500 Total Kjeldahl Nitrog		Analytical Method: SM 4500NorgB Preparation Method: SM 4500NorgB Pace Analytical Services - Corpus Christi							
Nitrogen, Kjeldahl, Total	0.37	mg/L	0.040	1	03/19/21 10:30	03/19/21 15:05	7727-37-9		
FWSC Total Ecoli		Analytical Method: SM 9223, Colilert Preparation Method: SM 9223, Colilert Pace Analytical Services - Fort Worth							
Total Coliforms	2.0	MPN/100mL	1.0	1	03/16/21 17:25	03/17/21 17:41			
Escherichia coli (E.coli)	<1.0	MPN/100mL	1.0	1	03/16/21 17:25	03/17/21 17:41			
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Dallas							
Aluminum	ND	ug/L	500	1	03/19/21 09:05	03/19/21 14:46	7429-90-5		
Antimony	ND	ug/L	25.0	1	03/19/21 09:05	03/19/21 14:46	7440-36-0		
Arsenic	ND	ug/L	20.0	1	03/19/21 09:05	03/19/21 14:46	7440-38-2		
Barium	ND	ug/L	10.0	1	03/19/21 09:05	03/19/21 14:46	7440-39-3		
Beryllium	ND	ug/L	1.0	1	03/19/21 09:05	03/19/21 14:46	7440-41-7		
Boron	381	ug/L	100	1	03/19/21 09:05	03/19/21 14:46	7440-42-8		
Cadmium	ND	ug/L	5.0	1	03/19/21 09:05	03/19/21 14:46	7440-43-9		
Calcium	ND	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7440-70-2		
Chromium	ND	ug/L	7.0	1	03/19/21 09:05	03/19/21 14:46	7440-47-3		
Copper	56.7	ug/L	20.0	1	03/19/21 09:05	03/19/21 14:46	7440-50-8		
Iron	ND	ug/L	500	1	03/19/21 09:05	03/19/21 14:46	7439-89-6		
Lead	18.1	ug/L	10.0	1	03/19/21 09:05	03/19/21 14:46	7439-92-1		
Magnesium	ND	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7439-95-4		
Manganese	ND	ug/L	50.0	1	03/19/21 09:05	03/19/21 14:46	7439-96-5		
Nickel	ND	ug/L	10.0	1	03/19/21 09:05	03/19/21 14:46	7440-02-0		
Potassium	ND	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7440-09-7		
Selenium	ND	ug/L	20.0	1	03/19/21 09:05	03/19/21 14:46	7782-49-2		
Silver	ND	ug/L	5.0	1	03/19/21 09:05	03/19/21 14:46	7440-22-4		
Sodium	201000	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7440-23-5		
Strontium	74.4	ug/L	5.0	1	03/19/21 09:05	03/19/21 14:46	7440-24-6		
Hardness, Total(SM 2340B)	3170	ug/L		1	03/19/21 09:05	03/19/21 14:46			
Zinc	ND	ug/L	25.0	1	03/19/21 09:05	03/19/21 14:46	7440-66-6		
Metals (ICP) 200.7		Analytical Method: EPA 200.7 Preparation Method: 200.7 Pace National - Mt. Juliet							
Silicon	5.72	mg/L	0.200	1	03/22/21 23:31	03/24/21 03:00	7440-21-3		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Dallas							
Mercury	ND	ug/L	0.20	1	03/19/21 11:00	03/19/21 14:57	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Well Water testing

Pace Project No.: 75151963

Sample: Well house 1		Lab ID: 75151963001	Collected: 03/16/21 14:40	Received: 03/16/21 15:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2520 B-2011		Analytical Method: SM 2520B Modified Preparation Method: 2520 B-2011 Pace National - Mt. Juliet						
Salinity	0.455	PSU	0.0500	1	03/25/21 18:28	03/25/21 18:28		
120.1 Specific Conductance 25C		Analytical Method: EPA 120.1 Pace Analytical Services - Dallas						
Specific Conductance	873	umhos/cm	1.0	1		03/23/21 11:35		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Dallas						
Turbidity	ND	NTU	1.5	1		03/18/21 10:04		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Dallas						
Alkalinity, Hydroxide (CaCO ₃)	ND	mg/L	20.0	1		03/18/21 15:00		
Alkalinity, Phenolphthalein	38.0	mg/L	20.0	1		03/18/21 15:00		
Alkalinity, Total as CaCO ₃	338	mg/L	20.0	1		03/18/21 15:00		
Alkalinity, Bicarbonate (CaCO ₃)	262	mg/L	20.0	1		03/18/21 15:00		
Alkalinity, Carbonate (CaCO ₃)	76.0	mg/L	20.0	1		03/18/21 15:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Dallas						
Total Dissolved Solids	489	mg/L	25.0	1		03/17/21 14:01		
2540D Total Suspended Solids		Analytical Method: SM 2540D Pace Analytical Services - Dallas						
Total Suspended Solids	4.6	mg/L	2.5	1		03/18/21 09:29		
Calculated Results		Analytical Method: Calculated Preparation Method: Calc. Pace National - Mt. Juliet						
Silica	12.2	mg/L	0.428	1	03/24/21 03:00	03/24/21 03:00	7631-86-9	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Dallas						
pH at 25 Degrees C	9.1	Std. Units	0.10	1		03/18/21 13:11		H3,H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - Dallas						
BOD, 5 day	3.1	mg/L	2.0	1	03/17/21 14:01	03/22/21 11:27		
Total Nitrogen Calculation		Analytical Method: 40CFR PART 432.2 Pace Analytical Services - Dallas						
Nitrogen	0.79	mg/L	0.10	1		03/23/21 09:50	7727-37-9	

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ANALYTICAL RESULTS

Project: Well Water testing

Pace Project No.: 75151963

Sample: Well house 1		Lab ID: 75151963001		Collected: 03/16/21 14:40		Received: 03/16/21 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Dallas							
Bromide	ND	mg/L	0.40	1		03/19/21 21:02	24959-67-9		
Chloride	6.9	mg/L	0.80	1		03/19/21 21:02	16887-00-6		
Fluoride	0.53	mg/L	0.50	1		03/19/21 21:02	16984-48-8		
Sulfate	46.6	mg/L	7.0	10		03/19/21 21:56	14808-79-8		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Dallas							
Nitrogen, Nitrate	0.40	mg/L	0.050	1		03/18/21 11:21			
Nitrogen, Nitrite	ND	mg/L	0.050	1		03/18/21 11:21			
Nitrogen, NO2 plus NO3	0.42	mg/L	0.050	1		03/18/21 11:21			
4500 Ammonia Water		Analytical Method: SM 4500-NH3 H Pace Analytical Services - Dallas							
Nitrogen, Ammonia	0.11	mg/L	0.10	1		03/22/21 10:13	7664-41-7		
4500PE Orthophosphate		Analytical Method: SM 4500-P E Pace Analytical Services - Dallas							
Orthophosphate as P	ND	mg/L	0.040	1		03/18/21 09:04			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Dallas							
Total Organic Carbon	1.1	mg/L	0.70	1		03/19/21 13:10	7440-44-0		
SM4500P-E, Total Phosphorus		Analytical Method: SM 4500-P E Preparation Method: SM4500-P B Pace Analytical Services - Dallas							
Phosphorus	ND	mg/L	0.050	1	03/23/21 16:33	03/23/21 17:16	7723-14-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163123

Analysis Method: SM 4500-Cl G

QC Batch Method: SM 4500-Cl G

Analysis Description: 4500CL G Chlorine, Total Residual CC

Laboratory: Pace Analytical Services - Corpus Christi

Associated Lab Samples: 75151963001

METHOD BLANK: 740714

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorine, Total Residual	mg/L	ND	0.050	03/19/21 10:04	H6

LABORATORY CONTROL SAMPLE: 740715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorine, Total Residual	mg/L	0.5	0.49	98	85-115	H6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740716

740717

Parameter	Units	75151963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorine, Total Residual	mg/L	ND	0.5	0.5	0.51	0.54	93	99	85-115	6	15	H6

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163152

Analysis Method: SM 4500NorgB

QC Batch Method: SM 4500NorgB

Analysis Description: CC 4500 Total Kjeldahl Nitrogen

Laboratory: Pace Analytical Services - Corpus Christi

Associated Lab Samples: 75151963001

METHOD BLANK: 740841

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.040	03/19/21 15:04	

LABORATORY CONTROL SAMPLE: 740842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1	1.1	106	90-110	

LABORATORY CONTROL SAMPLE: 740843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	26.2	25.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740844 740845

Parameter	Units	75151963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.37	1	1	1.3	1.3	91	98	90-110	5	10	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 162873

Analysis Method: SM 9223, Colilert

QC Batch Method: SM 9223, Colilert

Analysis Description: 9223B FWSC Total Ecoli FW

Laboratory: Pace Analytical Services - Fort Worth

Associated Lab Samples: 75151963001

METHOD BLANK: 739640

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Escherichia coli (E.coli)	MPN/100mL	<1.0	1.0	03/17/21 17:41	
Total Coliforms	MPN/100mL	<1.0	1.0	03/17/21 17:41	

SAMPLE DUPLICATE: 739641

Parameter	Units	75151930001 Result	Dup Result	RPD	Max RPD	Qualifiers
Escherichia coli (E.coli)	MPN/100mL	<1.0	<1.0			H1
Total Coliforms	MPN/100mL	1.0	<1.0			H1

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 1638694

Analysis Method: EPA 200.7

QC Batch Method: 200.7

Analysis Description: Metals (ICP) 200.7

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 75151963001

METHOD BLANK: R3634048-1

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Silicon	mg/L	ND	0.200	03/24/21 02:10	

LABORATORY CONTROL SAMPLE: R3634048-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silicon	mg/L	1.00	0.972	97.2	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3634048-4 R3634048-5

Parameter	Units	L1327006-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silicon	mg/L	10.9	1.00	1.00	11.8	11.7	91.8	84.8	70.0-130	0.594	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3634048-6 R3634048-7

Parameter	Units	L1328545-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silicon	mg/L	2.17	1.00	1.00	3.32	3.28	115	111	70.0-130	1.27	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163130

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740729

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/19/21 14:41	

LABORATORY CONTROL SAMPLE: 740730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740731 740732

Parameter	Units	75151817001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.5	96	100	41-139	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740733 740734

Parameter	Units	75151959002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.5	98	100	41-139	2	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163111

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740671

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	500	03/19/21 14:10	
Antimony	ug/L	ND	25.0	03/19/21 14:10	
Arsenic	ug/L	ND	20.0	03/19/21 14:10	
Barium	ug/L	ND	10.0	03/19/21 14:10	
Beryllium	ug/L	ND	1.0	03/19/21 14:10	
Boron	ug/L	ND	100	03/19/21 14:10	
Cadmium	ug/L	ND	5.0	03/19/21 14:10	
Calcium	ug/L	ND	1000	03/19/21 14:10	
Chromium	ug/L	ND	7.0	03/19/21 14:10	
Copper	ug/L	ND	20.0	03/19/21 14:10	
Hardness, Total(SM 2340B)	ug/L	84.0		03/19/21 14:10	
Iron	ug/L	ND	500	03/19/21 14:10	
Lead	ug/L	ND	10.0	03/19/21 14:10	
Magnesium	ug/L	ND	1000	03/19/21 14:10	
Manganese	ug/L	ND	50.0	03/19/21 14:10	
Nickel	ug/L	ND	10.0	03/19/21 14:10	
Potassium	ug/L	ND	1000	03/19/21 14:10	
Selenium	ug/L	ND	20.0	03/19/21 14:10	
Silver	ug/L	ND	5.0	03/19/21 14:10	
Sodium	ug/L	ND	1000	03/19/21 14:10	
Strontium	ug/L	ND	5.0	03/19/21 14:10	
Zinc	ug/L	ND	25.0	03/19/21 14:10	

LABORATORY CONTROL SAMPLE: 740672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	1050	105	85-115	
Barium	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Boron	ug/L	1000	1060	106	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Calcium	ug/L	10000	10300	103	85-115	
Chromium	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1070	107	85-115	
Hardness, Total(SM 2340B)	ug/L		68700			
Iron	ug/L	10000	10600	106	85-115	
Lead	ug/L	1000	1120	112	85-115	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

LABORATORY CONTROL SAMPLE: 740672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	10000	10400	104	85-115	
Manganese	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1100	110	85-115	
Potassium	ug/L	10000	10000	100	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	514	103	85-115	
Sodium	ug/L	10000	10300	103	85-115	
Strontium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740673 740674

Parameter	Units	75151952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	1.1 mg/L	10000	10000	11300	12300	102	112	70-130	9	20	
Antimony	ug/L	ND	1000	1000	1040	1120	104	111	70-130	7	20	
Arsenic	ug/L	ND	1000	1000	1050	1140	105	113	70-130	8	20	
Barium	ug/L	0.054 mg/L	1000	1000	1010	1100	96	105	70-130	9	20	
Beryllium	ug/L	ND	1000	1000	962	1060	96	106	70-130	9	20	
Boron	ug/L	2.7 mg/L	1000	1000	3420	3740	76	108	70-130	9	20	
Cadmium	ug/L	ND	1000	1000	1030	1100	103	110	70-130	7	20	
Calcium	ug/L	143 mg/L	10000	10000	141000	154000	-24	112	70-130	9	20	M1
Chromium	ug/L	0.010 mg/L	1000	1000	979	1050	97	104	70-130	7	20	
Copper	ug/L	0.49 mg/L	1000	1000	1520	1660	103	117	70-130	9	20	
Hardness, Total(SM 2340B)	ug/L	376 mg/L			407000	447000				9		
Iron	ug/L	0.74 mg/L	10000	10000	10300	11300	95	105	70-130	9	20	
Lead	ug/L	ND	1000	1000	975	1040	97	103	70-130	6	20	
Magnesium	ug/L	4.5 mg/L	10000	10000	13600	15100	92	106	70-130	10	20	
Manganese	ug/L	ND	1000	1000	970	1050	95	103	70-130	8	20	
Nickel	ug/L	0.011 mg/L	1000	1000	980	1050	97	104	70-130	7	20	
Potassium	ug/L	13.9 mg/L	10000	10000	23000	25100	91	112	70-130	9	20	
Selenium	ug/L	ND	1000	1000	1080	1170	108	116	70-130	7	20	
Silver	ug/L	ND	500	500	524	569	105	114	70-130	8	20	
Sodium	ug/L	292 mg/L	10000	10000	276000	296000	-166	37	70-130	7	20	M1
Strontium	ug/L	0.43 mg/L	1000	1000	1350	1470	92	104	70-130	9	20	
Zinc	ug/L	0.034 mg/L	1000	1000	1000	1070	97	104	70-130	7	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740675											
740676											
Parameter	Units	75151953001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Aluminum	ug/L	ND	10000	10000	10800	10700	105	104	70-130	1	20
Antimony	ug/L	ND	1000	1000	1130	1140	113	114	70-130	1	20
Arsenic	ug/L	ND	1000	1000	1100	1110	110	110	70-130	1	20
Barium	ug/L	0.054 mg/L	1000	1000	1100	1100	105	105	70-130	0	20
Beryllium	ug/L	ND	1000	1000	1050	1040	105	104	70-130	0	20
Boron	ug/L	ND	1000	1000	1110	1100	105	104	70-130	1	20
Cadmium	ug/L	ND	1000	1000	1060	1050	106	105	70-130	0	20
Calcium	ug/L	36.7 mg/L	10000	10000	45900	45000	92	82	70-130	2	20
Chromium	ug/L	ND	1000	1000	1020	1010	102	100	70-130	1	20
Copper	ug/L	0.033 mg/L	1000	1000	1110	1110	107	107	70-130	0	20
Hardness, Total(SM 2340B)	ug/L	109 mg/L			175000	172000				2	
Iron	ug/L	0.67 mg/L	10000	10000	11100	10900	104	103	70-130	1	20
Lead	ug/L	ND	1000	1000	1110	1110	110	111	70-130	0	20
Magnesium	ug/L	4.2 mg/L	10000	10000	14600	14400	104	102	70-130	1	20
Manganese	ug/L	ND	1000	1000	1050	1040	103	101	70-130	1	20
Nickel	ug/L	ND	1000	1000	1080	1080	108	108	70-130	0	20
Potassium	ug/L	12.8 mg/L	10000	10000	23500	23300	106	104	70-130	1	20
Selenium	ug/L	ND	1000	1000	1130	1130	113	113	70-130	1	20
Silver	ug/L	ND	500	500	524	515	105	103	70-130	2	20
Sodium	ug/L	28.6 mg/L	10000	10000	39200	39100	107	106	70-130	0	20
Strontium	ug/L	0.26 mg/L	1000	1000	1320	1320	106	105	70-130	0	20
Zinc	ug/L	0.16 mg/L	1000	1000	1160	1160	101	100	70-130	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 1640375

Analysis Method: SM 2520B Modified

QC Batch Method: 2520 B-2011

Analysis Description: Wet Chemistry 2520 B-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 75151963001

METHOD BLANK: R3634911-1

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Salinity	PSU	ND	0.0500	03/25/21 18:28	

LABORATORY CONTROL SAMPLE: R3634911-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Salinity	PSU	35.0	38.5	110	85.0-115	

SAMPLE DUPLICATE: R3634911-3

Parameter	Units	L1328947-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Salinity	PSU	2.22	2.21	0.181	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163293

Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1

Analysis Description: 120.1 Specific Conductance

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 741509

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	1.0	03/23/21 11:30	

LABORATORY CONTROL SAMPLE: 741510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	200	201	101	80-120	

SAMPLE DUPLICATE: 741511

Parameter	Units	75151963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	873	858	2	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163005

QC Batch Method: EPA 180.1

Analysis Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740211

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	ND	1.5	03/18/21 10:04	

SAMPLE DUPLICATE: 740212

Parameter	Units	75152063001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	3.4	3.7	9	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163047

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740386

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	03/18/21 14:24	

LABORATORY CONTROL SAMPLE: 740387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	250	268	107	90-110	

SAMPLE DUPLICATE: 740388

Parameter	Units	75151947003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	98.0	2	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 162961

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 739984

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	03/17/21 14:00	

LABORATORY CONTROL SAMPLE: 739985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	272	109	85-115	

SAMPLE DUPLICATE: 739986

Parameter	Units	75151833004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	227	220	3	5	

SAMPLE DUPLICATE: 739987

Parameter	Units	75151833005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	418	416	0	5	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163013

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740239

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.5	03/18/21 09:28	

LABORATORY CONTROL SAMPLE: 740240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	200	194	97	85-115	

SAMPLE DUPLICATE: 740241

Parameter	Units	75151953001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	81.0	62.0	27	10	D6

SAMPLE DUPLICATE: 740242

Parameter	Units	75151873001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	78.0	74.0	5	10	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163048

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

LABORATORY CONTROL SAMPLE: 740389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	6	6.0	100	99-101	H6

SAMPLE DUPLICATE: 740390

Parameter	Units	75151892001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	20	H3,H6

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 162895

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 739784

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/22/21 10:39	

LABORATORY CONTROL SAMPLE: 739786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	175	89	85-115	

SAMPLE DUPLICATE: 739787

Parameter	Units	75151923004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	681	579	16	20	

SAMPLE DUPLICATE: 739835

Parameter	Units	75151926001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3650	3640	0	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163136

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740762

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	0.40	03/19/21 20:27	
Chloride	mg/L	ND	0.80	03/19/21 20:27	
Fluoride	mg/L	ND	0.50	03/19/21 20:27	
Sulfate	mg/L	ND	0.70	03/19/21 20:27	

LABORATORY CONTROL SAMPLE: 740763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.1	103	90-110	
Chloride	mg/L	5	4.8	97	90-110	
Fluoride	mg/L	5	5.2	105	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740764

740765

Parameter	Units	75151963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.2	5.3	101	103	90-110	2	20	
Chloride	mg/L	6.9	5	5	11.8	11.9	97	100	90-110	1	20	
Fluoride	mg/L	0.53	5	5	5.8	5.8	105	106	90-110	1	20	
Sulfate	mg/L	46.6	50	50	97.1	98.5	101	104	90-110	1	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch:	163009	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740224

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.050	03/18/21 10:56	
Nitrogen, Nitrite	mg/L	ND	0.050	03/18/21 10:56	
Nitrogen, NO2 plus NO3	mg/L	ND	0.050	03/18/21 10:56	

LABORATORY CONTROL SAMPLE: 740225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L		ND			
Nitrogen, Nitrite	mg/L	2.5	2.6	105	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740226 740227

Parameter	Units	75151896004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND			ND	ND					20	
Nitrogen, Nitrite	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.6	2.6	102	102	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740228 740229

Parameter	Units	75151963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.40			0.34	0.34				0	20	
Nitrogen, Nitrite	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	0.42	2.5	2.5	3.0	3.0	102	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163199

Analysis Method: SM 4500-NH3 H

QC Batch Method: SM 4500-NH3 H

Analysis Description: 4500 Ammonia

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 741092

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	03/22/21 10:10	

LABORATORY CONTROL SAMPLE: 741093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741094 741095

Parameter	Units	75152037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	5	5	4.9	4.8	96	96	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741096 741097

Parameter	Units	75151927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	5	5	4.8	4.8	96	95	80-120	0	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163003

Analysis Method: SM 4500-P E

QC Batch Method: SM 4500-P E

Analysis Description: 4500PE Orthophosphate

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740202

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.040	03/18/21 08:40	

LABORATORY CONTROL SAMPLE: 740203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	0.25	0.24	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740204 740205

Parameter	Units	75151947002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	0.25	0.25	0.25	0.25	98	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740206 740207

Parameter	Units	75151947003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	0.25	0.25	0.26	0.26	101	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163101

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740641

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.70	03/19/21 12:17	

LABORATORY CONTROL SAMPLE: 740642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740643 740644

Parameter	Units	75151858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.6	10	10	16.2	16.3	107	107	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740651 740652

Parameter	Units	75152120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	27.8	10	10	39.1	39.8	114	121	80-120	2	20	M1

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QUALITY CONTROL DATA

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163302

Analysis Method: SM 4500-P E

QC Batch Method: SM4500-P B

Analysis Description: SM4500P-E, Total Phosphorus

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 741582

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	03/23/21 17:15	

LABORATORY CONTROL SAMPLE: 741583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741609 741610

Parameter	Units	75152228001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.44	0.5	0.5	0.93	0.93	98	99	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741611 741612

Parameter	Units	75152007002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.060	0.5	0.5	0.87	0.82	90	81	80-120	5	20	

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QUALIFIERS

Project: Well Water testing

Pace Project No.: 75151963

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: Well Water testing

Pace Project No.: 75151963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75151963001	Well house 1	SM 4500-CI G	163123		
75151963001	Well house 1	SM 4500NorgB	163152	SM 4500NorgB	163176
75151963001	Well house 1	SM 9223, Colilert	162873	SM 9223, Colilert	162991
75151963001	Well house 1	EPA 200.7	163111	EPA 200.7	163137
75151963001	Well house 1	200.7	1638694	EPA 200.7	1638694
75151963001	Well house 1	EPA 245.1	163130	EPA 245.1	163139
75151963001	Well house 1	2520 B-2011	1640375	SM 2520B Modified	1640375
75151963001	Well house 1	EPA 120.1	163293		
75151963001	Well house 1	EPA 180.1	163005		
75151963001	Well house 1	SM 2320B	163047		
75151963001	Well house 1	SM 2540C	162961		
75151963001	Well house 1	SM 2540D	163013		
75151963001	Well house 1	Calc.	1638694	Calculated	1638694
75151963001	Well house 1	SM 4500-H+B	163048		
75151963001	Well house 1	SM 5210B	162895	SM 5210B	162980
75151963001	Well house 1	40CFR PART 432.2	163280		
75151963001	Well house 1	EPA 300.0	163136		
75151963001	Well house 1	EPA 353.2	163009		
75151963001	Well house 1	SM 4500-NH3 H	163199		
75151963001	Well house 1	SM 4500-P E	163003		
75151963001	Well house 1	SM 5310C	163101		
75151963001	Well house 1	SM4500-P B	163302	SM 4500-P E	163333

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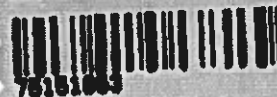
	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☐ Dallas ☒ Ft Worth ☐ Cor:

WO#: 75151963

Client Name: Pilaton Land Solutions Project Work or
 Courier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ LSO ☐ PACE ☐ Other: _____
 Tracking #: _____



Custody Seal on Cooler/Box: Yes ☐ No ☒

Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: Potm03 Cooler Temp °C: 5.8 (Recorded) 0 (Correction Factor) 5.8 (Actual)

Receiving Lab 2 Thermometer Used: IR116 Cooler Temp °C: -0.1 (Recorded) 0 (Correction Factor) -0.1 (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: CC Date: 3-16-21

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Log In Person: TC Date: 3/16/21

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable pH Strips: <u>193716</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Residual Chlorine Present Cl Strips: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Sulfide Present Lead Acetate Strips: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Are soil samples (volatiles, TPH) received in 5035A Kits (not appl cable to TCLP VOA or PST Program TPH)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Non-Conformance(s):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Labeling Person (if different than log-in): _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A				Section B				Section C				Section D			
Required Client Information:				Required Project Information:				Invoicing Information:				Analytical Request Information:			
Company				Request To				Request To				Request To			
Address				Copy To				Company Name				Company Name			
City/State/Zip				City/State/Zip				City/State/Zip				City/State/Zip			
Phone				Phone				Phone				Phone			
Requested Due Date				Requested Due Date				Requested Due Date				Requested Due Date			
Project Name				Project Name				Project Name				Project Name			
Project #				Project #				Project #				Project #			
Project Manager				Project Manager				Project Manager				Project Manager			
Project Email				Project Email				Project Email				Project Email			
Project Phone				Project Phone				Project Phone				Project Phone			
Project Fax				Project Fax				Project Fax				Project Fax			
Project Website				Project Website				Project Website				Project Website			
Project URL				Project URL				Project URL				Project URL			
Project Notes				Project Notes				Project Notes				Project Notes			
SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique				COLLECTED START DATE TIME END DATE TIME				SAMPLE TEMP AT COLLECTION DATE TIME				ANALYSES TEST Y/N			
MATRIX CODE (see valid codes to left)				SAMPLE TYPE (0=QMB C-COMP)				PRESERVATIVES UNPRESERVED H2SO4 HNO3 HCl NaOH Na2SO3 Methanol Other				ANALYSES TEST Y/N			
CODE CW DW SW PW SW SW SW SW SW SW SW SW				DATE TIME				DATE TIME				DATE TIME			
ITEM #				DATE TIME				DATE TIME				DATE TIME			
1				2				3				4			
5				6				7				8			
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525				526				527				528			

☐ No

Results Requested By: 3/23/2021

Report To						Subcontract To								Requested Analysis																						
Amy Bryant Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123						Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858								Salinity	Silica/Silicon by 200.7																					
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HNO ₃	Unpreserved																													
1	Well house 1	PS	3/16/2021 14:40	75151963001	Water	1	1							X	X																					
2																																				
3																																				
4																																				
5																																				
																Comments																				
Transfers		Released By		Date/Time		Received By		Date/Time																												
1		Nate Ono / Pace		3/18/21 1700		Felecia		3/18/21 1700																												
2		Fedex				Olivia Curry		3/19/21 900																												
3																																				
Cooler Temperature on Receipt				0.1 °C				Custody Seal				Y or N				Received on Ice				Y or N				Samples Intact				Y or N								

This chain of custody is considered complete as is since this information is available in the owner laboratory.

0.1 + 0.3 = 0.4

Fedex: 9910 4865 2523

Sample Receipt Checklist

COC Seal Present/Intact:	<u>/</u>	N	If Applicable	
COC Signed/Accurate:	<u>/</u>	N	VOA Zero Headspace:	<u>-</u> Y N
Bottles arrive intact:	<u>/</u>	N	Pres. Correct/Check:	<u>/</u> N
Correct bottles used:	<u>/</u>	N		
Sufficient volume sent:	<u>/</u>	N		
RAD Screen <0.5 mR/hr:	<u>/</u>	N		

Peloton Land Solutions

Sample Delivery Group: L1349545
Samples Received: 05/07/2021
Project Number:
Description: Well Water Testing

Report To: Chris Hamilton
9800 Hillwood Parkway
Fort Worth, TX 76177

Entire Report Reviewed By:



Amy Bryant
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

WELL HOUSE 2 L1349545-01 WW

Collected by
David Bryant

Collected date/time
05/07/21 12:15

Received date/time
05/07/21 12:59

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Microbiology by Method 9223B	WG1668183	1	05/11/21 09:17	05/11/21 09:17	CNC	Ft. Worth, TX
Calculated Results	WG1667552	1	05/13/21 14:05	05/13/21 14:05	SDL	Allen, TX
Calculated Results	WG1670272	1	05/15/21 13:18	05/15/21 13:18	EL	Mt. Juliet, TN
Gravimetric Analysis by Method 2540C	WG1668480	1	05/11/21 13:57	05/11/21 14:31	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG1669154	1	05/12/21 11:56	05/12/21 13:51	QQT	Allen, TX
Wet Chemistry by Method 120.1	WG1668222	1	05/11/21 16:14	05/11/21 16:14	EIG	Allen, TX
Wet Chemistry by Method 180.1	WG1668857	1	05/08/21 10:19	05/08/21 10:19	AME	Allen, TX
Wet Chemistry by Method 2320B	WG1668326	1	05/11/21 11:30	05/11/21 11:30	JAP	Allen, TX
Wet Chemistry by Method 300.0	WG1668850	1	05/08/21 09:48	05/08/21 09:48	JAP	Allen, TX
Wet Chemistry by Method 300.0	WG1668110	1	05/11/21 13:47	05/11/21 13:47	JAP	Allen, TX
Wet Chemistry by Method 300.0	WG1668110	10	05/11/21 14:41	05/11/21 14:41	JAP	Allen, TX
Wet Chemistry by Method 350.1	WG1668660	1	05/12/21 16:45	05/12/21 16:45	SL	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG1669309	1	05/12/21 23:11	05/14/21 10:08	SDL	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1667552	1	05/10/21 17:24	05/10/21 17:24	EIG	Allen, TX
Wet Chemistry by Method 4500CI G-2011	WG1664907	1	05/10/21 12:02	05/10/21 12:02	SAC	Mt. Juliet, TN
Wet Chemistry by Method 4500P-E	WG1668900	1	05/13/21 14:51	05/13/21 14:51	LNLM	Allen, TX
Wet Chemistry by Method 5310C	WG1680844	1	06/01/21 17:26	06/01/21 17:26	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG1668148	1	05/11/21 10:34	05/11/21 10:34	JAP	Allen, TX
Wet Chemistry by Method SM5210B	WG1666760	1	05/08/21 07:26	05/13/21 07:28	AME	Allen, TX
Mercury by Method 245.1	WG1679290	1	05/28/21 12:40	05/28/21 16:24	CDP	Allen, TX
Metals (ICP) by Method 200.7	WG1670272	1	05/14/21 09:52	05/15/21 13:18	EL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1678520	1	05/28/21 12:51	05/28/21 17:41	CDP	Allen, TX

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Amy Bryant
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1349545-01	WELL HOUSE 2	5310C



WELL HOUSE 2

Collected date/time: 05/07/21 12:15

SAMPLE RESULTS - 01

L1349545

Microbiology by Method 9223B

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Coliform, Total	<1	T8	1	05/11/2021 09:17	WG1668183
E.Coli	<1	T8	1	05/11/2021 09:17	WG1668183

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrogen	0.679		0.0500	1	05/13/2021 14:05	WG1667552
Silica	12.7		0.428	1	05/15/2021 13:18	WG1670272

Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	502		25.0	1	05/11/2021 14:31	WG1668480

Gravimetric Analysis by Method 2540D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	7.00		2.50	1	05/12/2021 13:51	WG1669154

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	877		1.00	1	05/11/2021 16:14	WG1668222

Wet Chemistry by Method 180.1

Analyte	Result NTU	Qualifier	RDL NTU	Dilution	Analysis date / time	Batch
Turbidity	1.76		1.50	1	05/08/2021 10:19	WG1666857

Wet Chemistry by Method 2320B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	394		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity, Bicarbonate	<20.0		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity, Carbonate	704		20.0	1	05/11/2021 11:30	WG1668326
Phenolphthalein Alkalinity	42.0		20.0	1	05/11/2021 11:30	WG1668326

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	<0.400		0.400	1	05/11/2021 13:47	WG1668110
Chloride	6.67		0.800	1	05/11/2021 13:47	WG1668110
Fluoride	0.522		0.500	1	05/11/2021 13:47	WG1668110
Nitrate	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Nitrite	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Sulfate	40.4		7.00	10	05/11/2021 14:41	WG1668110

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.522		0.250	1	05/12/2021 16:45	WG1668660

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WELL HOUSE 2

Collected date/time: 05/07/21 12:15

SAMPLE RESULTS - 01

L1349545

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	0.370		0.250	1	05/14/2021 10:08	WG1669309

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	<0.0500		0.0500	1	05/10/2021 17:24	WG1667552

Wet Chemistry by Method 4500Cl G-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorine,residual	<0.100	T8	0.100	1	05/10/2021 12:02	WG1664907

Wet Chemistry by Method 4500P-E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	<0.0500		0.0500	1	05/13/2021 14:51	WG1668900

Wet Chemistry by Method 5310C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1.45		0.700	1	06/01/2021 17:26	WG1680844

Wet Chemistry by Method SM 4500-H+B

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.22	T8	1	05/11/2021 10:34	WG1668148

Sample Narrative:

L1349545-01 WG1668148: 9.22 at 21.9C

Wet Chemistry by Method SM5210B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
BOD	<2.00		2.00	1	05/13/2021 07:28	WG1666760

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	<0.000200		0.000200	1	05/28/2021 16:24	WG1679290

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Antimony	<0.0250		0.0250	1	05/28/2021 17:41	WG1678520
Arsenic	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Barium	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Beryllium	<0.00100		0.00100	1	05/28/2021 17:41	WG1678520
Boron	0.399		0.100	1	05/28/2021 17:41	WG1678520
Cadmium	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Calcium	1.03		1.00	1	05/28/2021 17:41	WG1678520
Chromium	<0.00700		0.00700	1	05/28/2021 17:41	WG1678520

WELL HOUSE 2

Collected date/time: 05/07/21 12:15

SAMPLE RESULTS - 01

L1349545

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cobalt	<0.00250		0.00250	1	05/28/2021 17:41	WG1678520
Copper	0.135		0.0200	1	05/28/2021 17:41	WG1678520
Iron	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Lead	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Magnesium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Manganese	<0.0500		0.0500	1	05/28/2021 17:41	WG1678520
Nickel	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Potassium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Selenium	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Silver	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Sodium	206		1.00	1	05/28/2021 17:41	WG1678520
Strontium	0.0687		0.00500	1	05/28/2021 17:41	WG1678520
Silicon	5.94		0.200	1	05/15/2021 13:18	WG1670272
Zinc	0.329		0.0250	1	05/28/2021 17:41	WG1678520

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Method Blank (MB)

(MB) R3652799-1 05/11/21 09:17

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Coliform,Total	<1			
E.Coli	<1			

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 09:17 • (DUP) R3652799-2 05/11/21 09:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
				%		%
Coliform,Total	<1	<1	1	0.000		20
E.Coli	<1	<1	1	0.000		20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3653454-1 05/11/21 14:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Total Dissolved Solids	<25.0		25.0	25.0

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 14:31 • (DUP) R3653454-3 05/11/21 14:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	502	513	1	2.17		5

Laboratory Control Sample (LCS)

(LCS) R3653454-2 05/11/21 14:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Total Dissolved Solids	250	260	104	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3653822-1 05/12/21 13:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Suspended Solids	<2.50		2.50	2.50

L1349446-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349446-01 05/12/21 13:51 • (DUP) R3653822-3 05/12/21 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	273	300	1	9.31		10

L1349986-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1349986-03 05/12/21 13:51 • (DUP) R3653822-4 05/12/21 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	287	280	1	2.36		10

Laboratory Control Sample (LCS)

(LCS) R3653822-2 05/12/21 13:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Suspended Solids	200	199	99.5	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3653047-1 05/11/21 16:14

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	<1.00		1.00	1.00

L1349436-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349436-01 05/11/21 16:14 • (DUP) R3653047-3 05/11/21 16:14

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	353	353	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3653047-2 05/11/21 16:14

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	200	189	94.4	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3651947-1 05/08/21 10:19

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	NTU		NTU	NTU
Turbidity	<0.641		0.641	1.50

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/08/21 10:19 • (DUP) R3651947-2 05/08/21 10:19

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	NTU	NTU		%		%
Turbidity	1.76	1.78	1	1.13		20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3652991-1 05/11/21 11:30

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0

L1347307-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347307-01 05/11/21 11:30 • (DUP) R3652991-3 05/11/21 11:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	88.0	98.0	1	10.8		20

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 11:30 • (DUP) R3652991-4 05/11/21 11:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	394	328	1	18.3		20

Laboratory Control Sample (LCS)

(LCS) R3652991-2 05/11/21 11:30

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	250	254	102	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652291-1 05/08/21 09:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate	<0.207		0.207	0.500
Nitrite	<0.0922		0.0922	0.500

Laboratory Control Sample (LCS)

(LCS) R3652291-2 05/08/21 09:30

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate	5.00	4.90	98.0	90.0-110	
Nitrite	5.00	5.23	105	90.0-110	

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/08/21 09:48 • (MS) R3652291-3 05/08/21 10:05 • (MSD) R3652291-4 05/08/21 10:23

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate	5.00	<0.500	4.74	4.60	94.7	92.0	1	90.0-110			2.94	20
Nitrite	5.00	<0.500	5.31	5.19	106	104	1	90.0-110			2.34	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3653255-1 05/11/21 10:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	<0.0763		0.0763	0.400
Chloride	0.163	U	0.0541	0.800
Fluoride	<0.198		0.198	0.500
Sulfate	<0.393		0.393	0.700

Laboratory Control Sample (LCS)

(LCS) R3653255-2 05/11/21 10:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	5.00	5.04	101	90.0-110	
Chloride	5.00	4.82	96.5	90.0-110	
Fluoride	5.00	4.65	92.9	90.0-110	
Sulfate	5.00	4.99	99.9	90.0-110	

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/11/21 13:47 • (MS) R3653255-3 05/11/21 14:05 • (MSD) R3653255-4 05/11/21 14:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	5.00	<0.400	5.16	5.31	98.3	101	1	90.0-110			2.97	20
Chloride	5.00	6.67	11.2	11.3	90.6	93.2	1	90.0-110			1.16	20
Fluoride	5.00	0.522	5.13	5.30	92.1	95.5	1	90.0-110			3.24	20

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/11/21 14:41 • (MS) R3653255-5 05/11/21 14:59 • (MSD) R3653255-6 05/11/21 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	40.4	92.2	94.5	104	108	10	90.0-110			2.47	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3653782-1 05/12/21 16:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Ammonia Nitrogen	<0.117		0.117	0.250

L1349278-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349278-01 05/12/21 16:25 • (DUP) R3653782-5 05/12/21 16:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	7.21	7.12	5	1.31		10

L1349851-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1349851-02 05/12/21 16:50 • (DUP) R3653782-7 05/12/21 16:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	<0.250	<0.250	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3653782-2 05/12/21 16:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Ammonia Nitrogen	7.50	7.76	103	90.0-110	

L1345935-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345935-01 05/12/21 16:20 • (MS) R3653782-3 05/12/21 16:22 • (MSD) R3653782-4 05/12/21 16:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Ammonia Nitrogen	5.00	<0.250	4.56	4.91	91.2	98.1	1	90.0-110			7.29	10

L1349851-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1349851-01 05/12/21 16:47 • (MS) R3653782-6 05/12/21 16:49

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Ammonia Nitrogen	5.00	0.483	5.36	97.5	1	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3654088-1 05/13/21 10:59

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250

Method Blank (MB)

(MB) R3654399-1 05/14/21 09:30

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250

L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/13/21 11:17 • (DUP) R3654088-3 05/13/21 11:06

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.9	17.8	1	5.99		20

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/13/21 13:49 • (DUP) R3654088-5 05/13/21 11:21

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	2.00	2.15	1	7.23		20

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/14/21 09:56 • (DUP) R3654399-4 05/14/21 09:57

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	1.75	2.12	1	19.1		20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/14/21 10:14 • (DUP) R3654399-6 05/14/21 10:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.2	17.0	1	6.82		20

Laboratory Control Sample (LCS)

(LCS) R3654088-2 05/13/21 11:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	15.2	14.9	98.0	75.2-121	

Laboratory Control Sample (LCS)

(LCS) R3654399-2 05/14/21 09:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	15.2	15.0	98.7	75.2-121	

L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/13/21 11:17 • (MS) R3654088-4 05/13/21 11:07

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.9	22.1	64.0	1	90.0-110	E J6

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/13/21 13:49 • (MS) R3654088-6 05/13/21 11:22 • (MSD) R3654088-7 05/13/21 11:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	5.00	2.00	7.22	7.10	104	102	1	90.0-110			1.68	20

L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/14/21 10:14 • (MS) R3654399-3 05/14/21 09:46

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.2	21.6	68.0	1	90.0-110	E J6

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/14/21 09:56 • (MS) R3654399-7 05/14/21 10:16 • (MSD) R3654399-5 05/14/21 10:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	1.75	7.22	6.72	109	99.4	1	90.0-110			7.17	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3652795-1 05/10/21 16:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500

Laboratory Control Sample (LCS)

(LCS) R3652795-2 05/10/21 16:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.44	97.6	90.0-110	

L1348257-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-01 05/10/21 17:05 • (MS) R3652795-3 05/10/21 16:58 • (MSD) R3652795-4 05/10/21 16:59

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	0.684	3.13	3.13	97.8	97.8	1	90.0-110			0.000	20

L1348257-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-02 05/10/21 17:09 • (MS) R3652795-5 05/10/21 17:00 • (MSD) R3652795-6 05/10/21 17:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	0.582	3.01	3.06	97.1	99.1	1	90.0-110			1.65	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652433-1 05/10/21 11:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chlorine,residual	<0.0260		0.0260	0.100

L1347551-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1347551-03 05/10/21 11:59 • (DUP) R3652433-3 05/10/21 11:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chlorine,residual	<0.100	<0.100	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3652433-2 05/10/21 11:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chlorine,residual	1.00	0.995	99.5	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3654116-1 05/13/21 14:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Phosphorus,Total	<0.0152		0.0152	0.0500

Laboratory Control Sample (LCS)

(LCS) R3654116-2 05/13/21 14:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Phosphorus,Total	0.500	0.495	99.0	80.0-120	

L1346472-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346472-01 05/13/21 14:51 • (MS) R3654116-3 05/13/21 14:51 • (MSD) R3654116-4 05/13/21 14:51

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus,Total	0.500	<0.0500	0.471	0.493	94.2	98.5	1	80.0-120			4.56	20

L1346475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346475-01 05/13/21 14:51 • (MS) R3654116-5 05/13/21 14:51 • (MSD) R3654116-6 05/13/21 14:51

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus,Total	0.500	0.115	0.560	0.582	89.0	93.4	1	80.0-120			3.85	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3661964-1 06/01/21 15:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	<0.270		0.270	0.700

Laboratory Control Sample (LCS)

(LCS) R3661964-2 06/01/21 15:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	10.0	9.99	99.9	90.0-110	

L1360001-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1360001-01 06/01/21 16:41 • (MS) R3661964-3 06/01/21 16:04 • (MSD) R3661964-4 06/01/21 16:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	10.0	4.06	13.8	13.6	97.4	95.6	1	80.0-120			1.31	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1347590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347590-01 05/11/21 10:34 • (DUP) R3652872-2 05/11/21 10:34

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	6.76	7.16	1	5.75		20

Sample Narrative:

OS: 6.76 at 26.1C

DUP: 7.16 at 22.4C

Laboratory Control Sample (LCS)

(LCS) R3652872-1 05/11/21 10:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	6.00	5.98	99.7	99.0-101	

Sample Narrative:

LCS: 5.98 at 20.2C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3653904-1 05/13/21 07:17

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
BOD	<2.00		2.00	2.00

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/13/21 07:28 • (DUP) R3653904-3 05/13/21 07:31

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
BOD	<2.00	<2.00	1	0		20

Laboratory Control Sample (LCS)

(LCS) R3653904-2 05/13/21 07:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
BOD	198	175	88.5	85-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3660648-1 05/28/21 16:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	<0.0000450		0.0000450	0.000200

Laboratory Control Sample (LCS)

(LCS) R3660648-2 05/28/21 16:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00250	0.00255	102	85.0-115	

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/28/21 16:24 • (MS) R3660648-3 05/28/21 16:20 • (MSD) R3660648-4 05/28/21 16:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00250	<0.000200	0.00261	0.00262	104	105	1	70.0-130			0.382	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3654995-1 05/15/21 13:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silicon	<0.0771		0.0771	0.200

Laboratory Control Sample (LCS)

(LCS) R3654995-2 05/15/21 13:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silicon	1.00	0.976	97.6	85.0-115	

L1349104-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349104-15 05/15/21 13:08 • (MS) R3654995-4 05/15/21 13:13 • (MSD) R3654995-5 05/15/21 13:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silicon	1.00	6.16	7.52	7.53	137	138	1	70.0-130	V	V	0.136	20

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/15/21 13:18 • (MS) R3654995-6 05/15/21 13:21 • (MSD) R3654995-7 05/15/21 13:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silicon	1.00	5.94	7.05	6.87	112	93.6	1	70.0-130			2.57	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3661513-1 05/28/21 17:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	<0.0353		0.0353	0.500
Antimony	<0.00242		0.00242	0.0250
Arsenic	<0.00418		0.00418	0.0200
Barium	<0.000490		0.000490	0.0100
Beryllium	0.000660	⌋	0.000180	0.00100
Boron	<0.0186		0.0186	0.100
Cadmium	0.000383	⌋	0.000350	0.00500
Calcium	<0.0496		0.0496	1.00
Chromium	<0.000710		0.000710	0.00700
Cobalt	0.00101	⌋	0.000680	0.00250
Copper	<0.00364		0.00364	0.0200
Iron	<0.0303		0.0303	0.500
Lead	<0.00312		0.00312	0.0100
Magnesium	<0.0434		0.0434	1.00
Manganese	<0.00557		0.00557	0.0500
Nickel	<0.00358		0.00358	0.0100
Potassium	<0.0939		0.0939	1.00
Selenium	<0.00500		0.00500	0.0200
Silver	<0.000990		0.000990	0.00500
Sodium	<0.178		0.178	1.00
Strontium	0.000754	⌋	0.000210	0.00500
Zinc	<0.0106		0.0106	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3661513-2 05/28/21 17:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	10.0	10.3	103	85.0-115	
Antimony	1.00	1.04	104	85.0-115	
Arsenic	1.00	1.01	101	85.0-115	
Barium	1.00	1.00	100	85.0-115	
Beryllium	1.00	1.02	102	85.0-115	
Boron	1.00	1.01	101	85.0-115	
Cadmium	1.00	1.03	103	85.0-115	
Calcium	10.0	10.2	102	85.0-115	
Chromium	1.00	1.03	103	85.0-115	
Cobalt	1.00	1.06	106	85.0-115	
Copper	1.00	1.03	103	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R3661513-2 05/28/21 17:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iron	10.0	10.3	103	85.0-115	
Lead	1.00	1.07	107	85.0-115	
Magnesium	10.0	10.3	103	85.0-115	
Manganese	1.00	1.02	102	85.0-115	
Nickel	1.00	1.05	105	85.0-115	
Potassium	10.0	10.3	103	85.0-115	
Selenium	1.00	1.03	103	85.0-115	
Silver	0.500	0.508	102	85.0-115	
Sodium	10.0	10.3	103	85.0-115	
Strontium	1.00	1.01	101	85.0-115	
Zinc	1.00	1.01	101	85.0-115	

L1354040-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1354040-01 05/28/21 17:34 • (MS) R3661513-3 05/28/21 17:18 • (MSD) R3661513-4 05/28/21 17:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Aluminum	10.0	<0.500	10.9	10.8	106	105	1	70.0-130			0.461	20
Antimony	1.00	<0.0250	1.07	1.07	107	107	1	70.0-130			0.280	20
Arsenic	1.00	<0.0200	1.05	1.05	105	105	1	70.0-130			0.666	20
Barium	1.00	0.195	1.22	1.23	103	103	1	70.0-130			0.572	20
Beryllium	1.00	<0.00100	1.05	1.06	105	106	1	70.0-130			0.946	20
Boron	1.00	<0.100	1.08	1.08	103	103	1	70.0-130			0.000	20
Cadmium	1.00	<0.00500	1.05	1.06	105	106	1	70.0-130			0.474	20
Calcium	10.0	69.3	78.7	80.1	94.0	107	1	70.0-130			1.66	20
Chromium	1.00	0.0323	1.07	1.09	104	106	1	70.0-130			2.41	20
Cobalt	1.00	<0.00250	1.06	1.07	106	107	1	70.0-130			1.13	20
Copper	1.00	<0.0200	1.06	1.06	105	106	1	70.0-130			0.377	20
Iron	10.0	<0.500	10.5	10.5	105	105	1	70.0-130			0.381	20
Lead	1.00	<0.0100	1.06	1.06	105	106	1	70.0-130			0.471	20
Magnesium	10.0	<1.00	11.2	11.2	105	106	1	70.0-130			0.715	20
Manganese	1.00	<0.0500	1.02	1.04	102	104	1	70.0-130			1.65	20
Nickel	1.00	<0.0100	1.05	1.06	105	105	1	70.0-130			0.665	20
Potassium	10.0	18.6	29.0	29.2	104	106	1	70.0-130			0.722	20
Selenium	1.00	<0.0200	1.07	1.07	107	107	1	70.0-130			0.374	20
Silver	0.500	<0.00500	0.522	0.533	104	107	1	70.0-130			1.99	20
Sodium	10.0	26.5	36.8	37.3	103	108	1	70.0-130			1.40	20
Strontium	1.00	0.737	1.77	1.79	103	105	1	70.0-130			1.12	20
Zinc	1.00	<0.0250	1.01	1.03	101	103	1	70.0-130			1.18	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1354047-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1354047-01 05/28/21 17:37 • (MS) R3661513-5 05/28/21 17:26 • (MSD) R3661513-6 05/28/21 17:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	<0.500	10.3	10.5	101	103	1	70.0-130			1.73	20
Antimony	1.00	<0.0250	1.04	1.04	104	104	1	70.0-130			0.0959	20
Arsenic	1.00	<0.0200	1.01	1.01	101	101	1	70.0-130			0.0989	20
Barium	1.00	0.0276	1.03	1.04	100	101	1	70.0-130			0.967	20
Beryllium	1.00	<0.00100	1.02	1.03	102	103	1	70.0-130			1.07	20
Boron	1.00	<0.100	1.04	1.05	99.2	100	1	70.0-130			1.06	20
Cadmium	1.00	<0.00500	1.02	1.02	102	102	1	70.0-130			0.0978	20
Calcium	10.0	18.2	27.7	28.0	94.3	97.3	1	70.0-130			1.08	20
Chromium	1.00	<0.00700	1.03	1.03	102	103	1	70.0-130			0.681	20
Cobalt	1.00	<0.00250	1.06	1.06	106	106	1	70.0-130			0.000	20
Copper	1.00	<0.0200	1.03	1.04	103	104	1	70.0-130			1.26	20
Iron	10.0	<0.500	10.2	10.4	102	103	1	70.0-130			1.55	20
Lead	1.00	<0.0100	1.05	1.05	105	105	1	70.0-130			0.0954	20
Magnesium	10.0	2.13	12.2	12.4	101	103	1	70.0-130			1.54	20
Manganese	1.00	<0.0500	1.01	1.02	100	101	1	70.0-130			0.989	20
Nickel	1.00	<0.0100	1.04	1.05	104	105	1	70.0-130			0.287	20
Potassium	10.0	3.00	13.1	13.2	101	102	1	70.0-130			1.14	20
Selenium	1.00	<0.0200	1.04	1.04	103	104	1	70.0-130			0.192	20
Silver	0.500	<0.00500	0.509	0.512	102	102	1	70.0-130			0.647	20
Sodium	10.0	5.08	15.2	15.4	101	103	1	70.0-130			0.982	20
Strontium	1.00	0.419	1.42	1.43	99.9	101	1	70.0-130			0.773	20
Zinc	1.00	<0.0250	1.01	1.02	101	102	1	70.0-130			0.590	20

1
Cp

2
Tc

3
Ss

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Gl

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Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

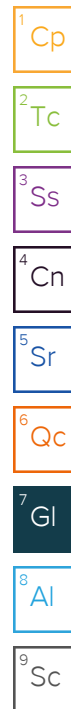
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-20-32
Iowa	408	Oklahoma	8727
Louisiana	30686		

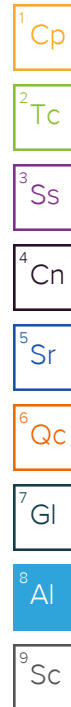
Pace Analytical Services, LLC -Dallas 2657 Gravel Dr Ft. Worth, TX 76118

Texas	T104704232-20-32
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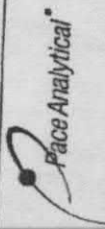
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Olivia's turn 5/12/94

	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☐ Dallas ☒ Ft Worth ☐ Corpus Christi ☐ Austin

Client Name: Peloton Land Solutions Project Work order (place label): L134954S
 Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☒ LSO ☐ PACE ☐ Other: _____
 Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☒

Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: FWTM03

Receiving Lab 2 Thermometer Used: 3416

Cooler Temp °C: 9.9 (Recorded) 0 (Correction Factor) 9.9 (Actual)

Cooler Temp °C: 3.6 (Recorded) 0 (Correction Factor) 3.6 (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: CC Date: 5-7-21

Chain of Custody relinquished	
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: RT Date: 5/7/21

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
pH Strips: <u>937116</u>	
Residual Chlorine Present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Cl Strips: _____	
Sulfide Present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Lead Acetate Strips: _____	
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
State Sampled: _____	
Non-Conformance(s):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Labeling Person (if different than log-in): _____ Date: _____

ATTACHMENT 10

Accounting Plan and Accounting Plan Summary

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
November 29, 2021

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 45 acre-feet of supplemental water for the use of irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 20120, calculated monthly, as published by the Texas Water Development Board. 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 groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.

2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

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 G) and 14 rows. The columns in the table are as follows:

	A	B	C	D	E	F	G
1	Dove Pond (Golf Course Pond)						
2	Water Accounting Record						
3	Annual Tab						
4							
5							
6	Year						
7							
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
9	January	0.00	0.00	1.24	1.24	1.24	1.24
10	February	0.00	0.00	1.68	1.68	1.68	1.68
11	March	0.00	0.00	2.48	2.48	2.48	2.48
12	April	0.00	0.00	3.30	3.30	3.30	3.30
13	May	0.00	0.00	3.72	3.72	3.72	3.72
14	June	0.00	0.00	4.50	4.50	4.50	4.50
15	July	0.00	0.00	5.27	5.27	5.27	5.27
16	August	0.00	0.00	4.65	4.65	4.65	4.65
17	September	0.00	0.00	3.60	3.60	3.60	3.60
18	October	0.00	0.00	2.79	2.79	2.79	2.79
19	November	0.00	0.00	1.80	1.80	1.80	1.80
20	December	0.00	0.00	1.24	1.24	1.24	1.24
21	Total	0.00	0.00	36.27	36.27	36.27	36.27
22							

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B41, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C41, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Default Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell D41, which is a conversion of the Sum of Column E "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell E41, which is a conversion of the Sum of Column F "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column F</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell H41, which is a conversion of the Sum of Column G "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Supplemental Groundwater Release (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. (This number comes from Cell I41, which is a conversion of the Sum of Column H "Supplemental Groundwater Release (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes 12 monthly spreadsheets, labeled JAN through DEC. Each worksheet contains nine columns (A through I), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the groundwater volume in gallons into Column B "Groundwater Volume (gal)". All other cells will be filled automatically based on those entries.

	A	B	C	D	E	F	G	H	I	J
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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16										
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18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Column A Day. Lists the day of the month. **No data entry is required by the applicant.**

Column B Diversion Volume (gal). Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of pond daily.**

	A	B
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

Column C Groundwater Volume (gal). Cells for the applicant to enter daily meter readings from the water well meter. Water well meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) discharged into pond daily.**

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)
10	1		
11	2		

Column D Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)" of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column E Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column D to feet and multiplying it by the total surface area of the lake in cell D6 (Column D "Default Evaporation Rate (in)" divided by 12, to convert to feet, multiplied by D6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column F Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325851 gallons per acre-foot. **No data entry is required by the applicant.**

Column G Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the diversion volume (Column B) from groundwater inflow to the lake (Column C) and then subtracting the sum from the default evaporation (Column F). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column F "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" – Column B "Diversion Volume (gal).") **No data entry is required by the applicant.**

Column H Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column G. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column G "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column I Supplemental Groundwater Release (gal). The supplemental groundwater release (gal) (Column I) is the sum of the depleted net inflow (gal) (Column H). The applicant should review these numbers biweekly in December, January, and February (i.e., winter months) when evapotranspiration rates are typically low. For

the remainder of the year (i.e., spring and summer months), the applicant should review these numbers on a weekly basis when evapotranspiration rates typically are higher. Equations to sum the amount of supplemental groundwater released on a biweekly/weekly basis are included in the appropriate locations in the Monthly Tabs. Reviewing on a biweekly/weekly basis will give the applicant the opportunity to determine if an adequate amount of groundwater is being discharged, and if not, supplemental groundwater volumes can be provided into the system to meet the requirement of the permit.

If a positive number is present in the supplemental groundwater release (gal) (Column IH), then the applicant needs to increase the volume of groundwater on future releases that month to reduce the values in Column H to zero. Discharges of supplemental groundwater volumes should be recorded in Column B, and a note with the amount would be included in Comments (Column J). **Applicant to review supplemental groundwater number. Record a supplemental groundwater discharges and enter the amount of water (in gallons) discharged into the pond in Column C. Supplemental groundwater discharges to be combined with normal groundwater volume discharges.**

N	Supplemental Groundwater Release (gal)

Column J Comments. This Column allows the applicant to enter any relevant notes and observations. **Applicant to enter comments daily.**

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

**Dove Pond (Golf Course Pond)
Water Accounting Record
Annual Tab**

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

Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	1.24	1.24
February	0.00	0.00	1.68	1.68	1.68	1.68
March	0.00	0.00	2.48	2.48	2.48	2.48
April	0.00	0.00	3.30	3.30	3.30	3.30
May	0.00	0.00	3.72	3.72	3.72	3.72
June	0.00	0.00	4.50	4.50	4.50	4.50
July	0.00	0.00	5.27	5.27	5.27	5.27
August	0.00	0.00	4.65	4.65	4.65	4.65
September	0.00	0.00	3.60	3.60	3.60	3.60
October	0.00	0.00	2.79	2.79	2.79	2.79
November	0.00	0.00	1.80	1.80	1.80	1.80
December	0.00	0.00	1.24	1.24	1.24	1.24
Total	0.00	0.00	36.27	36.27	36.27	36.27

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record January - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.73											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J
1	Dove Pond (Golf Course Pond) Water Accounting Record February - Monthly Tab									
2										
3										
4										
5										
6										
7										
8										
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
10	1			0.15	0.06	19,551	19,551	19,551		
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19,551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record March - Monthly Tab </div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.69</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.21	0.08	26,068	26,068	26,068				
11	2			0.21	0.08	26,068	26,068	26,068				
12	3			0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068				
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21	0.08	26,068	26,068	26,068				
27	18			0.21	0.08	26,068	26,068	26,068				
28	19			0.21	0.08	26,068	26,068	26,068				
29	20			0.21	0.08	26,068	26,068	26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182,476			
31	22			0.21	0.08	26,068	26,068	26,068				
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068				
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48	2.48	2.48			
42	Total (gal)	0	0	848,516	808,110	808,108	808,108	808,108	808,108			

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record April - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.67											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.27	0.11	35,844	35,844	35,844				
11	2			0.27	0.11	35,844	35,844	35,844				
12	3			0.27	0.11	35,844	35,844	35,844				
13	4			0.27	0.11	35,844	35,844	35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844				
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29	20			0.27	0.11	35,844	35,844	35,844				
30	21			0.27	0.11	35,844	35,844	35,844	250,908			
31	22			0.27	0.11	35,844	35,844	35,844				
32	23			0.27	0.11	35,844	35,844	35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844				
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30	3.30	3.30			
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320	1,075,320			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record May - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.60											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.29	0.12	39,102	39,102	39,102				
11	2			0.29	0.12	39,102	39,102	39,102				
12	3			0.29	0.12	39,102	39,102	39,102				
13	4			0.29	0.12	39,102	39,102	39,102				
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102				
16	7			0.29	0.12	39,102	39,102	39,102	273,714			
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102				
21	12			0.29	0.12	39,102	39,102	39,102				
22	13			0.29	0.12	39,102	39,102	39,102				
23	14			0.29	0.12	39,102	39,102	39,102	273,714			
24	15			0.29	0.12	39,102	39,102	39,102				
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102				
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714			
31	22			0.29	0.12	39,102	39,102	39,102				
32	23			0.29	0.12	39,102	39,102	39,102				
33	24			0.29	0.12	39,102	39,102	39,102				
34	25			0.29	0.12	39,102	39,102	39,102				
35	26			0.29	0.12	39,102	39,102	39,102				
36	27			0.29	0.12	39,102	39,102	39,102				
37	28			0.29	0.12	39,102	39,102	39,102	273,714			
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102				
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72	3.72	3.72			
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record June - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.67											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.37	0.15	48,878	48,878	48,878				
11	2			0.37	0.15	48,878	48,878	48,878				
12	3			0.37	0.15	48,878	48,878	48,878				
13	4			0.37	0.15	48,878	48,878	48,878				
14	5			0.37	0.15	48,878	48,878	48,878				
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19	10			0.37	0.15	48,878	48,878	48,878				
20	11			0.37	0.15	48,878	48,878	48,878				
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
29	20			0.37	0.15	48,878	48,878	48,878				
30	21			0.37	0.15	48,878	48,878	48,878	342,146			
31	22			0.37	0.15	48,878	48,878	48,878				
32	23			0.37	0.15	48,878	48,878	48,878				
33	24			0.37	0.15	48,878	48,878	48,878				
34	25			0.37	0.15	48,878	48,878	48,878				
35	26			0.37	0.15	48,878	48,878	48,878				
36	27			0.37	0.15	48,878	48,878	48,878				
37	28			0.37	0.15	48,878	48,878	48,878	342,146			
38	29			0.37	0.15	48,878	48,878	48,878				
39	30			0.37	0.15	48,878	48,878	48,878	97,756			
40												
41	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50	4.50	4.50			
42	Total (gal)	0	0	1,446,778	1,466,330	1,466,340	1,466,340	1,466,340	1,466,340			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record July - Monthly Tab </div> <div> <div>Lake Surface Area (acres)</div> <div>4.80</div> <div>Pan Factor</div> <div>0.69</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.42	0.17	55,395	55,395	55,395				
11	2			0.42	0.17	55,395	55,395	55,395				
12	3			0.42	0.17	55,395	55,395	55,395				
13	4			0.42	0.17	55,395	55,395	55,395				
14	5			0.42	0.17	55,395	55,395	55,395				
15	6			0.42	0.17	55,395	55,395	55,395				
16	7			0.42	0.17	55,395	55,395	55,395	387,765			
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395				
21	12			0.42	0.17	55,395	55,395	55,395				
22	13			0.42	0.17	55,395	55,395	55,395				
23	14			0.42	0.17	55,395	55,395	55,395	387,765			
24	15			0.42	0.17	55,395	55,395	55,395				
25	16			0.42	0.17	55,395	55,395	55,395				
26	17			0.42	0.17	55,395	55,395	55,395				
27	18			0.42	0.17	55,395	55,395	55,395				
28	19			0.42	0.17	55,395	55,395	55,395				
29	20			0.42	0.17	55,395	55,395	55,395				
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395				
32	23			0.42	0.17	55,395	55,395	55,395				
33	24			0.42	0.17	55,395	55,395	55,395				
34	25			0.42	0.17	55,395	55,395	55,395				
35	26			0.42	0.17	55,395	55,395	55,395				
36	27			0.42	0.17	55,395	55,395	55,395				
37	28			0.42	0.17	55,395	55,395	55,395	387,765			
38	29			0.42	0.17	55,395	55,395	55,395				
39	30			0.42	0.17	55,395	55,395	55,395				
40	31			0.42	0.17	55,395	55,395	55,395	166,185			
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27	5.27	5.27			
42	Total (gal)	0	0	1,697,032	1,717,235	1,717,245	1,717,245	1,717,245	1,717,245			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record August - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.7 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878				
12	3			0.38	0.15	48,878	48,878	48,878				
13	4			0.38	0.15	48,878	48,878	48,878				
14	5			0.38	0.15	48,878	48,878	48,878				
15	6			0.38	0.15	48,878	48,878	48,878				
16	7			0.38	0.15	48,878	48,878	48,878	342,146			
17	8			0.38	0.15	48,878	48,878	48,878				
18	9			0.38	0.15	48,878	48,878	48,878				
19	10			0.38	0.15	48,878	48,878	48,878				
20	11			0.38	0.15	48,878	48,878	48,878				
21	12			0.38	0.15	48,878	48,878	48,878				
22	13			0.38	0.15	48,878	48,878	48,878				
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878				
27	18			0.38	0.15	48,878	48,878	48,878				
28	19			0.38	0.15	48,878	48,878	48,878				
29	20			0.38	0.15	48,878	48,878	48,878				
30	21			0.38	0.15	48,878	48,878	48,878	342,146			
31	22			0.38	0.15	48,878	48,878	48,878				
32	23			0.38	0.15	48,878	48,878	48,878				
33	24			0.38	0.15	48,878	48,878	48,878				
34	25			0.38	0.15	48,878	48,878	48,878				
35	26			0.38	0.15	48,878	48,878	48,878				
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146			
38	29			0.38	0.15	48,878	48,878	48,878				
39	30			0.38	0.15	48,878	48,878	48,878				
40	31			0.38	0.15	48,878	48,878	48,878	146,634			
41	Total (ac-ft)	0.00	0.00	4.71	4.65	4.65	4.65	4.65	4.65			
42	Total (gal)	0	0	1,535,410	1,515,207	1,515,218	1,515,218	1,515,218	1,515,218			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record September - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.73 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.30	0.12	39,102	39,102	39,102				
11	2			0.30	0.12	39,102	39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102	39,102	273,714			
17	8			0.30	0.12	39,102	39,102	39,102				
18	9			0.30	0.12	39,102	39,102	39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27	18			0.30	0.12	39,102	39,102	39,102				
28	19			0.30	0.12	39,102	39,102	39,102				
29	20			0.30	0.12	39,102	39,102	39,102				
30	21			0.30	0.12	39,102	39,102	39,102	273,714			
31	22			0.30	0.12	39,102	39,102	39,102				
32	23			0.30	0.12	39,102	39,102	39,102				
33	24			0.30	0.12	39,102	39,102	39,102				
34	25			0.30	0.12	39,102	39,102	39,102				
35	26			0.30	0.12	39,102	39,102	39,102				
36	27			0.30	0.12	39,102	39,102	39,102				
37	28			0.30	0.12	39,102	39,102	39,102	273,714			
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204			
40												
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60	3.60	3.60			
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060	1,173,060			

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record October - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.77											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.22	0.09	29,327	29,327	29,327				
11	2			0.22	0.09	29,327	29,327	29,327				
12	3			0.22	0.09	29,327	29,327	29,327				
13	4			0.22	0.09	29,327	29,327	29,327				
14	5			0.22	0.09	29,327	29,327	29,327				
15	6			0.22	0.09	29,327	29,327	29,327				
16	7			0.22	0.09	29,327	29,327	29,327	205,289			
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327				
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22	0.09	29,327	29,327	29,327				
22	13			0.22	0.09	29,327	29,327	29,327				
23	14			0.22	0.09	29,327	29,327	29,327	205,289			
24	15			0.22	0.09	29,327	29,327	29,327				
25	16			0.22	0.09	29,327	29,327	29,327				
26	17			0.22	0.09	29,327	29,327	29,327				
27	18			0.22	0.09	29,327	29,327	29,327				
28	19			0.22	0.09	29,327	29,327	29,327				
29	20			0.22	0.09	29,327	29,327	29,327				
30	21			0.22	0.09	29,327	29,327	29,327	205,289			
31	22			0.22	0.09	29,327	29,327	29,327				
32	23			0.22	0.09	29,327	29,327	29,327				
33	24			0.22	0.09	29,327	29,327	29,327				
34	25			0.22	0.09	29,327	29,327	29,327				
35	26			0.22	0.09	29,327	29,327	29,327				
36	27			0.22	0.09	29,327	29,327	29,327				
37	28			0.22	0.09	29,327	29,327	29,327	205,289			
38	29			0.22	0.09	29,327	29,327	29,327				
39	30			0.22	0.09	29,327	29,327	29,327				
40	31			0.22	0.09	29,327	29,327	29,327	87,981			
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79	2.79	2.79			
42	Total (gal)	0	0	888,922	909,124	909,137	909,137	909,137	909,137			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record November - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.8 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551				
12	3			0.15	0.06	19,551	19,551	19,551				
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06	19,551	19,551	19,551				
15	6			0.15	0.06	19,551	19,551	19,551				
16	7			0.15	0.06	19,551	19,551	19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551				
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551				
21	12			0.15	0.06	19,551	19,551	19,551				
22	13			0.15	0.06	19,551	19,551	19,551				
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551				
28	19			0.15	0.06	19,551	19,551	19,551				
29	20			0.15	0.06	19,551	19,551	19,551				
30	21			0.15	0.06	19,551	19,551	19,551	136,857			
31	22			0.15	0.06	19,551	19,551	19,551				
32	23			0.15	0.06	19,551	19,551	19,551				
33	24			0.15	0.06	19,551	19,551	19,551				
34	25			0.15	0.06	19,551	19,551	19,551				
35	26			0.15	0.06	19,551	19,551	19,551				
36	27			0.15	0.06	19,551	19,551	19,551				
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40												
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80	1.80	1.80			
42	Total (gal)	0	0	586,532	586,532	586,530	586,530	586,530	586,530			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record December - Monthly Tab </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Dove Pond (Golf Course Pond)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Self Course Pond)
Water Accounting Record
TWDE Pan Lake Factor Tab
TWDB Link
<https://waterdataforwx.org/lake-usage/pan-lake/>

Texas Water Development Board Monthly Pan Factor Used in Engp													
Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
512	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
513	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
514	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.71
612	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
712	0.74	0.72	0.72	0.71	0.66	0.71	0.72	0.72	0.74	0.77	0.78	0.77	0.72
713	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
714	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.68	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1008	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
1009	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1010	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1011	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1012	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1014	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1101	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1103	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1106	0.7	0.67	0.66</										

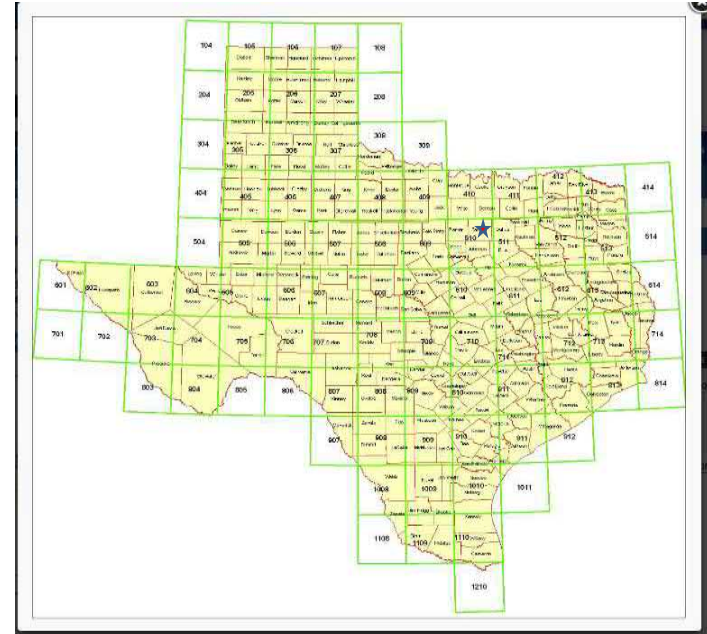
Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Evap Tab

EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board
Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.86	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510	1955	2.02	2.52	4.45	5.85	6.12	7.12	8.94	8.03	7.05	6.39	4.92	2.92	66.33
510	1956	2.61	2.67	5.57	6.00	6.92	9.20	11.41	11.42	9.26	6.56	3.95	3.07	78.64
510	1957	2.03	1.86	3.21	3.03	3.72	6.29	9.21	9.45	6.06	3.91	2.22	2.91	53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.60	7.42	7.11	4.77	2.77	1.97	56.66
510	1962	1.61	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.39	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510	1965	2.35	2.22	2.92	4.89	3.49	6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510	1966	1.54	1.83	4.48	4.81	4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.56	5.75	5.78	6.03	8.19	8.99	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.88	2.84	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510	1974	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510	1975	2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	59.69
510	1976	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	3.25	2.14	2.28	52.97
510	1977	1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	5.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.94	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.95	56.54
510	1992	1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	5.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.79	6.95	4.82	4.22	3.75	3.38	53.73
510	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.21
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.12	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

75th Percentile: 2.48 2.95 4.53 5.40 5.39 7.38 9.04 8.35 6.57 5.14 3.52 2.74 60.22





TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

<u>Fee Description</u>	<u>Fee Code</u> <u>Account#</u>	<u>Ref#1</u> <u>Ref#2</u>	<u>Check Number</u> <u>Card Auth.</u>	<u>CC Type</u> <u>Tran Code</u>	<u>Slip Key</u> <u>Document#</u>	<u>Tran Date</u>	<u>Tran Amount</u>
WTR USE PERMITS	WUP	M211053	19955		BS00092313	31-JAN-22	- \$606.56
	WUP	13823	013122	N	D2801778		
	WATER USE PERMITS	PELTON	RHDAVIS	CK			
		LAND					
		SOLUTIONS					
		INC					
					Total (Fee Code) :		- \$606.56
					Grand Total:		- \$105,008.63

RECEIVED
FEB 02 2022
Water Availability Division



December 6, 2021

Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

RE: CTR Golf Course – Water Rights Permitting Application

To Whom it May Concern,

On behalf of Independence Water, L.P. & HW 2421, L.P., Peloton Land Solutions, Inc. is submitting a New Appropriation of Sate Water Permitting Application for the CTR Golf Course project. The project is located approximately 0.7 mile southwest of the intersection of State Highway 114 and Westlake Boulevard in the Town of Westlake, Tarrant County, Texas.

An Administrative Information Checklist, Administrative Information Report, Technical Information Report, and all other pertinent and required information is enclosed. Once our application has been reviewed, please provide the cost for a mailed notice. We will then provide a check for the full application fee.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to process this request.

Sincerely,

A handwritten signature in blue ink that reads "Lindi Weber". The signature is fluid and cursive, with the first name "Lindi" being more prominent than the last name "Weber".

Lindi Weber
Peloton Land Solutions
Office: 817.562.3350

Enclosures:

1. Administrative Information Checklist, 2. Administrative Information Report, 3. Technical Information Report, and 4. Attachments 1 through 5

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): _____

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

_____ **Administrative Information Report**
_____ Additional Co-Applicant Information
_____ Additional Co-Applicant Signature Pages
_____ Written Evidence of Signature Authority
_____ **Technical Information Report**
_____ USGS Map (or equivalent)
_____ Map Showing Project Details
_____ Original Photographs
_____ Water Availability Analysis
_____ **Worksheet 1.0**
_____ Recorded Deeds for Irrigated Land
_____ Consent For Irrigation Land
_____ **Worksheet 1.1**
_____ Addendum to Worksheet 1.1
_____ **Worksheet 1.2**
_____ Addendum to Worksheet 1.2
_____ **Worksheet 2.0**
_____ Additional W.S 2.0 for Each Reservoir
_____ Dam Safety Documents
_____ Notice(s) to Governing Bodies
_____ Recorded Deeds for Inundated Land
_____ Consent For Inundation Land

Y/N

_____ **Worksheet 3.0**
_____ Additional W.S 3.0 for each Point
_____ Recorded Deeds for Diversion Points
_____ Consent For Diversion Access
_____ **Worksheet 4.0**
_____ TPDES Permit(s)
_____ WWTP Discharge Data
_____ 24-hour Pump Test
_____ Groundwater Well Permit
_____ Signed Water Supply Contract
_____ **Worksheet 4.1**
_____ **Worksheet 5.0**
_____ Addendum to Worksheet 5.0
_____ **Worksheet 6.0**
_____ Water Conservation Plan(s)
_____ Drought Contingency Plan(s)
_____ Documentation of Adoption
_____ **Worksheet 7.0**
_____ Accounting Plan
_____ **Worksheet 8.0**
_____ 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) 239-4691.**

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."

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants _____

(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?

(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 : _____ (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:

Title:

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

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at

<https://tools.usps.com/go/ZipLookupAction!input.action>.

Name:

Mailing Address:

City:

State:

ZIP Code:

Indicate an X next to the type of Applicant:

___ Individual	___ Sole Proprietorship-D.B.A.
___ Partnership	___ Corporation
___ Trust	___ Estate
___ Federal Government	___ State Government
___ County Government	___ City Government
___ Other Government	___ Other _____

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number: _____ SOS Charter (filing) Number: _____

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 2
(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?

HW 2421, L.P.

(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 : _____ (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: L. Russell Laughlin

Title: Executive Vice President

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application? Please see Attachment 2

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: HW 2421, L.P.

Mailing Address: 9800 Hillwood Pkwy, # 300

City: Fort Worth

State: Texas

ZIP Code: 76177

Indicate an X next to the type of Applicant:

___ Individual

___ Sole Proprietorship-D.B.A.

☒ Partnership

___ Corporation

___ Trust

___ Estate

___ Federal Government

___ State Government

___ County Government

___ City Government

___ Other Government

___ Other _____

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number 3203849015 SOS Charter (filing) Number: 0801061397

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:

Title:

Organization Name:

Mailing Address:

City:

State:

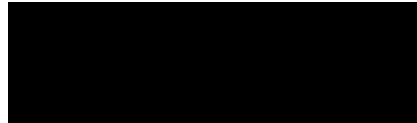
ZIP Code:

Phone No.:

Extension:

Fax No.:

E-mail Address:



4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION (Instructions, Page. 9)

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

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

First and Last Name:

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) 239-4691, 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, L. Russell Laughlin

Executive Vice President

(Typed or printed name)

(Title)

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

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.

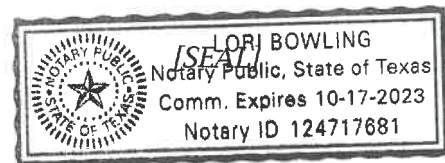
Signature: 
(Use blue ink)

Date: 11/30/21

Subscribed and Sworn to before me by the said L. Russell Laughlin
on this: 30 day of November, 2021.
My commission expires on the 17 day of October, 2023.

Lori Bowling
Notary Public

Tarrant
County, Texas



If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

TECHNICAL INFORMATION REPORT

WATER RIGHTS PERMITTING

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

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

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
- 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 (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 (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. See instructions page. 6.***

Water Right (Certificate or Permit) number you are requesting to amend: _____

Applicant requests to sever and combine existing water rights from one or more Permits or Certificates into another Permit or Certificate? **Y / 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**

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**

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**

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**

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)

- e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? **Y / 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** ***If yes, call the Water Availability Division at (512) 239-4691 to discuss.***

Additionally, all amendments require:

- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page.34**
- **Maps – See instructions Page. 15.**
- **Additional Documents and Worksheets may be required (see within).**

3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)

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

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

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

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

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

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":

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

Project Location Maps are provided in Attachment 3

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>

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

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

1. Location Information Regarding the Lands to be Irrigated

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

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

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.

If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described. See Attachments 4 and 5

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:

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.

- Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.
- See Worksheet 1.2, Marshall Criteria, and submit if required.
- See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

WORKSHEET 1.1

INTERBASIN TRANSFERS, TWC § 11.085

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

Applicant requests to transfer State Water to another river basin within the State? Y / N **NO**

1. Interbasin Transfer Request (Instructions, Page. 20)

- a. Provide the Basin of Origin. _____
- b. Provide the quantity of water to be transferred (acre-feet). _____
- c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:

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

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

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

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

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

- a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
- b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
- c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example - expert plans and/or reports documents may be provided to show the cost);

- d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (<http://www.twdb.texas.gov/waterplanning/swp/index.asp>);
- e. address the factors identified in the applicable most recently approved regional water plans which address the following:
 - (i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
 - (ii) the amount and purposes of use in the receiving basin for which water is needed;
 - (iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;
 - (iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;
 - (v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and
 - (vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (*if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;
- (f) proposed mitigation or compensation, if any, to the basin of origin by the applicant; and
- (g) the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

WORKSHEET 1.2

NOTICE. “THE MARSHALL CRITERIA”

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

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

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

1. The “Marshall Criteria” (Instructions, Page. 21)

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

- a. Administrative Requirements and Fees. Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.
- b. Beneficial Use. Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.
- c. Public Welfare. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.
- d. Groundwater Effects. Discuss effects of proposed amendment on groundwater or groundwater recharge.

- e. State Water Plan. Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at:
<http://www.twdb.texas.gov/waterplanning/swp/index.asp>.
- f. Waste Avoidance. Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.
- g. Impacts on Water Rights or On-stream Environment. Explain how proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

WORKSHEET 2.0

Impoundment/Dam Information

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

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

1. Storage Information (Instructions, Page. 21)

- a. Official USGS name of reservoir, if applicable: _____
- b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: _____.
- c. The impoundment is on-channel _____ or off-channel _____ (mark one)
 1. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4691? **Y / N**
 2. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? **Y / N**
- d. Is the impoundment structure already constructed? **Y / N**
 - i. For already constructed **on-channel** structures:
 1. Date of Construction: _____
 2. Was it constructed to be an exempt structure under TWC § 11.142? **Y / N**
 - a. If Yes, is Applicant requesting to proceed under TWC § 11.143? **Y / N**
 - b. If No, has the structure been issued a notice of violation by TCEQ? **Y / N**
 3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? **Y / N**
 - a. If yes, provide the Site No. _____ and watershed project name _____;
 - b. Authorization to close "ports" in the service spillway requested? **Y / N**
 - ii. For **any** proposed new structures or modifications to structures:
 1. Applicant **must** contact TCEQ Dam Safety Section at (512) 239-0326, *prior to submitting an Application*. Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? **Y / N**
Provide the date and the name of the Staff Person _____
 2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ has confirmed that:
 - a. No additional dam safety documents required with the Application. **Y / N**
 - b. Plans (with engineer's seal) for the structure required. **Y / N**
 - c. Engineer's signed and sealed hazard classification required. **Y / N**
 - d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. **Y / N**

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

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

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

2. Structure Location (Instructions, Page. 23)

- a. On Watercourse (if on-channel) (USGS name):_____
- b. Zip Code: _____
- c. In the _____ Original Survey No. _____, Abstract No. _____, _____ County, Texas.

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

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

Limited Warranty Deed for tract is included in Attachment 4. Consent Letter for Use of Land is included in Attachment 5.

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

Latitude _____°N, Longitude _____°W.

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

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

- dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N**

WORKSHEET 3.0

DIVERSION POINT (OR DIVERSION REACH) INFORMATION

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

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

1. Diversion Information (Instructions, Page. 24)

- a. This Worksheet is to add new (select 1 of 3 below):
 1. _____ 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
	Directly from stream	
	From an on-channel reservoir	
	From a stream to an on-channel reservoir	
	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) 239-4691, 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: See Attachments 4 and 5
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 _____.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses _____% and explain the method of calculation:_____

Is the source of the discharged water return flows? **Y / N** If yes, provide the following information:

1. The TPDES Permit Number(s)._____ (attach a copy of the **current** TPDES permit(s))
2. Applicant is the owner/holder of each TPDES permit listed above? **Y / N**

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

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").
 4. The percentage of return flows from groundwater_____, surface water_____?
 5. If any percentage is surface water, provide the base water right number(s) _____.
- c. Is the source of the water being discharged groundwater? **Y / N** If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped:_____
 2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers_____.
 3. Indicate how the groundwater will be conveyed to the stream or reservoir.
 4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
See Attachment 6 - Notice to Proceed Letters from Northern Trinity GCD
- ci. Is the source of the water being discharged a surface water supply contract? **Y / N**
If yes, provide the signed contract(s).
- cii. Identify any other source of the water_____

WORKSHEET 4.1 DISCHARGE POINT INFORMATION

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

Instructions, Page 27.

For water discharged at this location provide:

- a. The amount of water that will be discharged at this point is _____ acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.
- b. Water will be discharged at this point at a maximum rate of _____ cfs or _____ gpm.
- c. Name of Watercourse as shown on Official USGS maps: _____

d. Zip Code: _____

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

g. Point is at:

Latitude _____°N, Longitude _____°W.

Coordinate is provided at centerline of dam to allow for discharge to be located anywhere along perimeter of on-channel pond.

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

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

Map submitted must clearly identify each discharge point. See instructions Page. 15.

See project location maps in Attachment 3.

WORKSHEET 5.0

ENVIRONMENTAL INFORMATION

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

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

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

a. Identify the appropriate description of the water body.

☐ Stream

☐ Reservoir

Average depth of the entire water body, in feet: _____

☐ Other, specify: _____

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

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

For all bed and banks applications:

- a. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure).

See Attachment 7, Addendum to Worksheet 5.0.

- b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements. **See Attachment 7, Addendum to Worksheet 5.0.**

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

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

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

Full results of Analytical Results are provided in Attachment 8. Need to explain where these samples came from.

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.

- b. If groundwater will be used, provide the depth of the well _____ and the name of the aquifer from which water is withdrawn _____.

WORKSHEET 6.0

Water Conservation/Drought Contingency Plans

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

Instructions, Page 31.

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

1. Water Conservation Plans

- a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture - including irrigation, wholesale):

1. Request for a new appropriation or use of State Water.
2. Request to amend water right to increase appropriation of State Water.
3. Request to amend water right to extend a term.
4. Request to amend water right to change a place of use.
**does not apply to a request to expand irrigation acreage to adjacent tracts.*
5. Request to amend water right to change the purpose of use.
**applicant need only address new uses.*
6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water
**including return flows, contract water, or other State Water.*

- b. If Applicant is requesting any authorization in section (1)(a) above, indicate each use for which Applicant is submitting a Water Conservation Plan as an attachment:

1. ____Municipal Use. See 30 TAC § 288.2. **
2. ____Industrial or Mining Use. See 30 TAC § 288.3.
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

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

See Attachment 9 for Accounting Plan and Accounting Plan Summary.

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 _____ 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 _____ Maximum annual diversion of State Water in acre-feet. **	
Recreational Storage Fee	<i>Only for those with Recreational Storage.</i> Multiply \$1.00 x _____ acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	
Storage Fee	<i>Only for those with Storage, excluding Recreational Storage.</i> Multiply 50¢ x _____ 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) 239-4691.	
TOTAL		\$

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		\$

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		\$

ATTACHMENT 1

Signatory Requirements – Independence Water, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF
INDEPENDENCE WATER GP, LLC

January 1, 2021

The undersigned, being the sole member of Independence Water GP, LLC, a Texas limited liability company (the “Company”), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity listed set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

<u>Name</u>	<u>Office</u>
-------------	---------------

L. Russell Laughlin	Executive Vice President
---------------------	--------------------------

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.


**[The Balance of this Page Intentionally Left Blank;
Signature Page to Follow.]**

This written consent of the sole member of Independence Water GP, LLC is executed to be effective as of the date first above written.

SOLE MEMBER:

HILLWOOD MANAGEMENT, LTD.,
a Texas limited partnership

By: Hillwood Property Company,
a Texas corporation,
its general partner

By: 

Stephen D. Parker
Assistant Secretary

ATTACHMENT 2

Signatory Requirements – HW 2421, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF

HW 2421 LAND GP, LLC

January 1, 2021

The undersigned, being the sole member of HW 2421 Land GP, LLC, a Texas limited liability company (the “Company”), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

<u>Name</u>	<u>Office</u>
-------------	---------------

L. Russell Laughlin	Executive Vice President
---------------------	--------------------------


RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.

RESOLVED, that the Secretary and/or Assistant Secretary of the Company is directed to place this Written Consent of the Sole Member of HW 2421 Land GP, LLC, in the Company’s corporate records.

This written consent of the sole member of HW 2421 Land GP, LLC is executed to be effective as of the date first above written.

SOLE MEMBER:

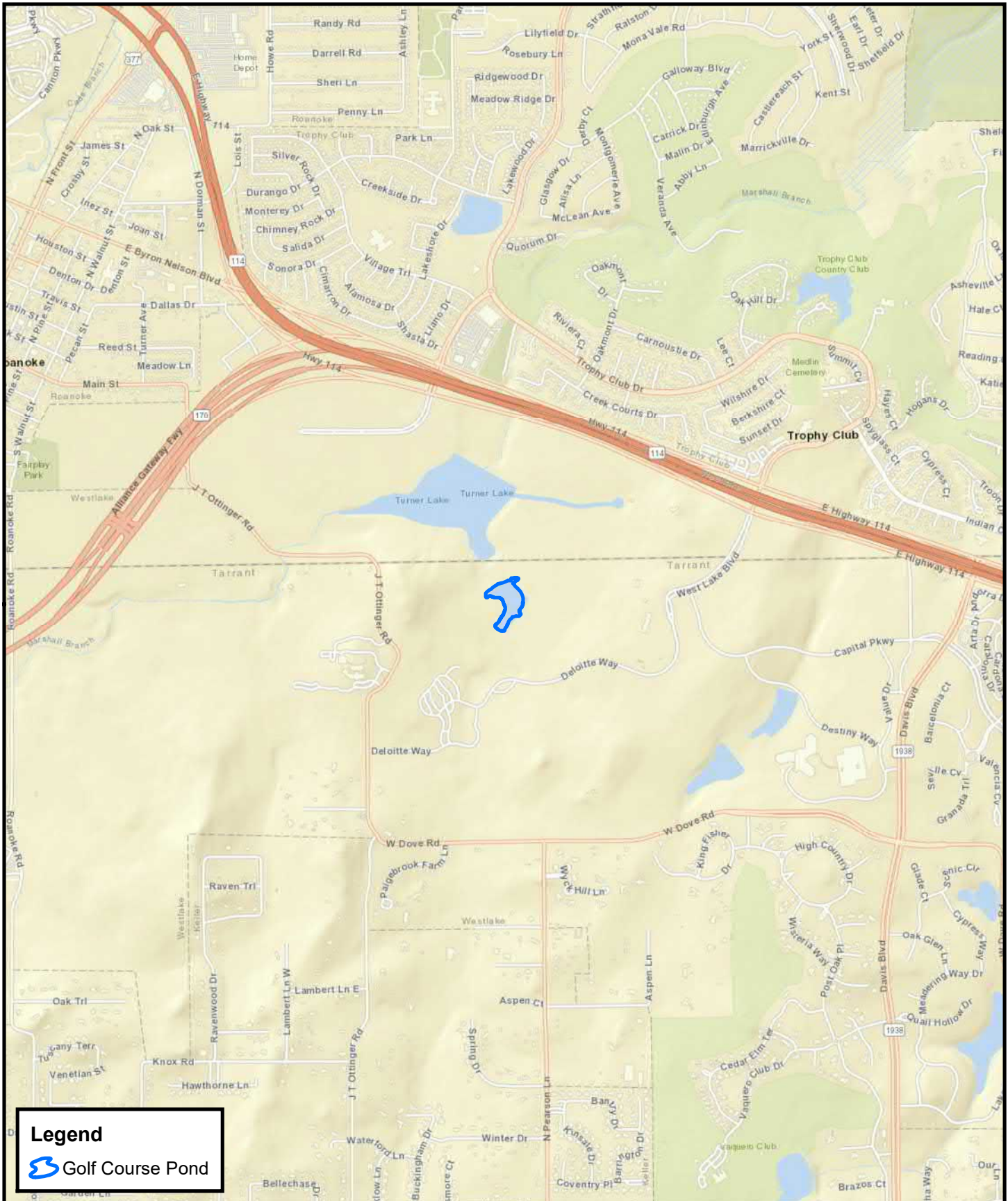
HILLWOOD DEVELOPMENT COMPANY, LLC,
a Texas limited liability company

By: 


Stephen D. Parker
Assistant Secretary

ATTACHMENT 3

Project Location Maps




Legend

 Golf Course Pond

SHEET NO. 2

GRAPHIC SCALE

0 2,000 Feet



CTR Golf Course

Local Area Map

Town of Westlake, Tarrant County, Texas

Prepared By:


PELOTON
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350



Perimeter Discharge Point
@ Dam Centerline
32.989001, -97.204934

Legend

 Golf Course Pond

SHEET NO. 3

GRAPHIC SCALE

0 500 Feet



CTR Golf Course

Aerial Exhibit

Town of Westlake, Tarrant County, Texas

Prepared By:

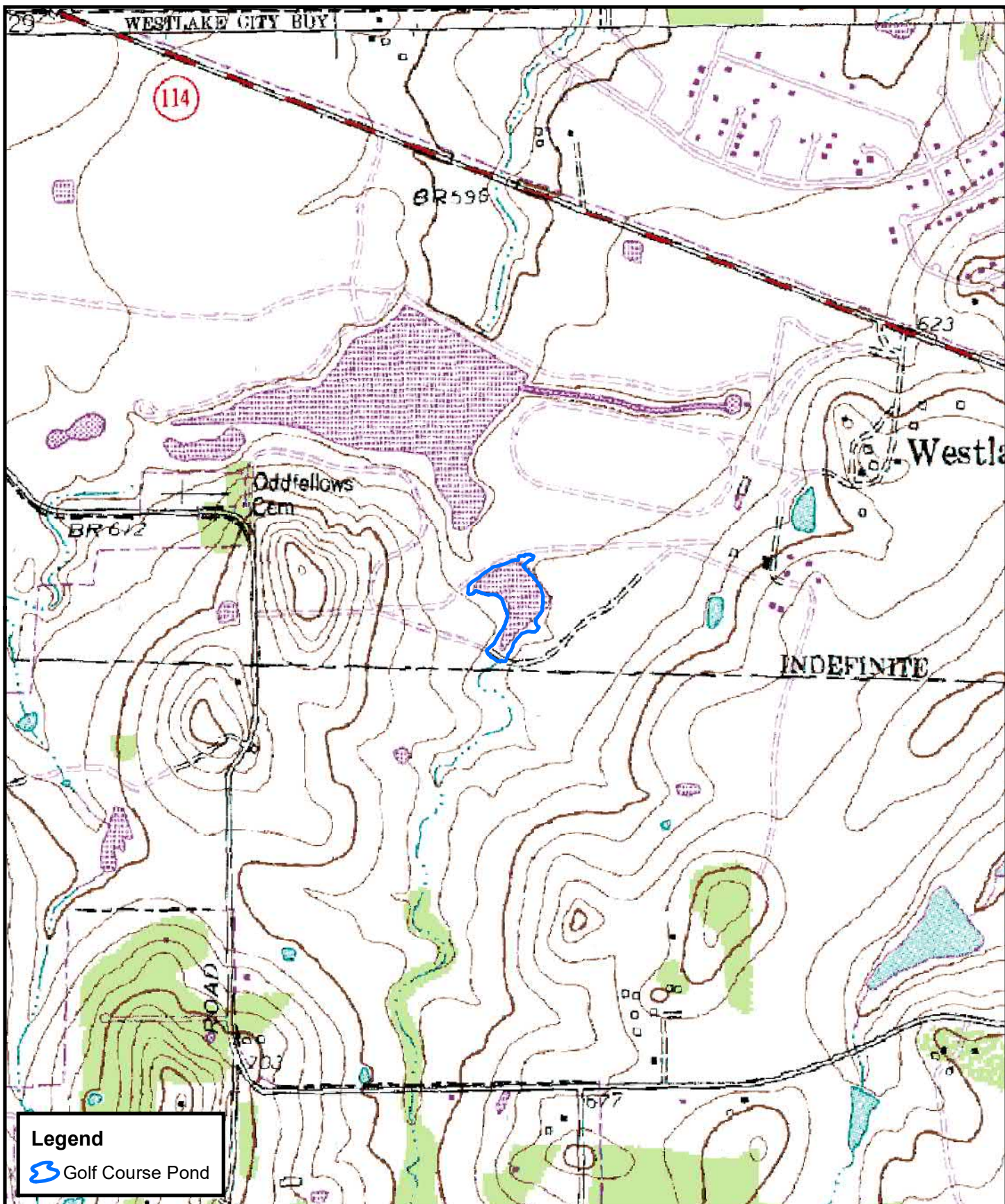
PELTON
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350


Source: TNRIS 2018

Date: 3/10/202

File Path: G:\081HW2\002_CTR_Aerial\Map\Dev\Enviro\GIS\Map\Dev\Aerial Map.mxd



Legend

 Golf Course Pond

SHEET NO. 4

GRAPHIC SCALE

0 1,000 Feet



CTR Golf Course

USGS Topographic Map

Town of Westlake, Tarrant County, Texas

Prepared By:



PELTON
LAND SOLUTIONS

9800 HILLWOOD PARKWAY, SUITE 250
FORT WORTH, TX 76177
PHONE: 817-562-3350

ATTACHMENT 4

Limited Warranty Deed for Structure Location & Irrigation Area

17

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

LIMITED WARRANTY DEED

THE STATE OF TEXAS

COUNTIES OF DENTON
AND TARRANT

§
§
§
§

KNOW ALL MEN BY THESE PRESENTS

THAT, AIL Investment, L.P., a Texas limited partnership ("Grantor"), for and in consideration of \$10.00 and other good and valuable consideration in hand paid by HW 2421 Land, LP, a Texas limited partnership ("Grantee"), whose address is Three Lincoln Centre, 5430 LBJ Freeway, Suite 800, Dallas, Texas 75240, the receipt and sufficiency of which are hereby acknowledged, has GRANTED AND CONVEYED and by these presents does GRANT AND CONVEY unto Grantee, (i) the real property situated in Denton and Tarrant Counties, Texas, more particularly described on Exhibit "A" attached hereto and incorporated herein by reference, and (ii) together with all and singular, the rights, privileges, hereditaments and appurtenances pertaining to such real property, including, any and all improvements and fixtures currently attached to and located thereon, if any (collectively, the "Property").

For the same consideration, Grantor has GRANTED AND CONVEYED, and by these presents does GRANT AND CONVEY unto Grantee, without warranty, express or implied, all interest of Grantor, if any, in (1) strips and gores, if any, between the Property and any abutting properties, whether owned or claimed by deed, limitations, or otherwise, and whether located inside or outside the Property; and (2) any land lying in or under the bed of any creek, stream, or waterway or any highway, avenue, street, road, alley, easement or right-of-way, open or proposed, in, or across, abutting or adjacent to the Property.

This conveyance is made and accepted subject to the matters set forth in Exhibit "B" attached hereto and made a part hereof for all purposes, but only to the extent that such exceptions are valid, existing and affect the Property (the "Permitted Exceptions").

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions, together with, all and singular, the rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, forever; and, subject to the Permitted Exceptions, Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular, the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof IN ACCORDANCE WITH AND STRICTLY LIMITED BY THE FOLLOWING SPECIFIC LIMITED WARRANTY OF TITLE BUT NOT OTHERWISE, THIS SPECIFIC LIMITED WARRANTY, AS HEREINAFTER SET FORTH, BEING THE ONLY WARRANTY OF TITLE MADE HEREUNDER BY GRANTOR:

Grantor was conveyed title to the Property pursuant to that certain Limited Warranty Deed, dated June 17, 1998, effective the 31st day of December, 1997, and filed in the real property records of Denton County, Texas, on June 19, 1998, under Document No. 98-R0052417 (the "Grantor Deed"). With respect to the Property conveyed by the Grantor Deed, Grantor shall pay to Grantee or its successors and assigns any loss Grantee or its successors and assigns may sustain by reason of defects, liens or encumbrances with respect to which Grantor was given a limited warranty of title to the Property in the Grantor Deed, such payment and sole liability hereunder on the part of Grantor not to exceed the amount payable to Grantor pursuant to the limited warranty of title contained in the Grantor Deed. This limited warranty shall constitute a limited warranty to Grantee and its successors only as to the same matters for which Grantor received a limited warranty of title and is limited to the amount of the warranty under the Grantor Deed. Under no circumstances shall Grantor be liable to Grantee or its successors for any sum which is not recoverable or payable to Grantor under the warranty of title contained in the Grantor Deed, it being the intention of Grantor to limit Grantor's exposure to any loss incurred by reason of the breach by Grantor of this limited warranty to those sums payable to Grantor under the warranty of title under the Grantor Deed, and no other. It is expressly intended that this specific limited warranty shall extend solely to Grantee and its successors and to no other parties.

This conveyance is being made by Grantor and accepted by Grantee subject to taxes for the year 2009, the payment of which Grantee assumes, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

[Remainder of this page intentionally blank.]

EXECUTED this 6th day of July, 2009, to be effective at 11:59p.m, on December 31, 2008.

GRANTOR:

AIL Investment, L.P.,
a Texas limited partnership

By: AIL GP, LLC,
a Texas limited liability company,
its general partner


By: 

M. Thomas Mason
Executive Vice President

THE STATE OF TEXAS §
 §
COUNTY OF DALLAS §

This instrument was acknowledged before me on this 6th day of July, 2009, by M. Thomas Mason, Executive Vice President of AIL GP, LLC, a Texas limited liability company, the general partner of AIL Investment, L.P., a Texas limited partnership, on behalf of said limited partnership.





Notary Public in and for the State of Texas

EXHIBIT "A"

LEGAL DESCRIPTION

[SEE ATTACHED.]

Unofficial Document

PARCEL No. 1

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, the Jessie Gibson Survey, Abstract No. 592 and No. 593, the J. Bacon Survey, Abstract No. 2026, the Richard Eads Survey, Abstract No. 492, the Jessie Sutton Survey, Abstract No. 1451, the Charles Medlin Survey, Abstract No. 1084, the Greenbury B. Hendricks Survey, Abstract No. 680, and the Memucan Hunt Survey, Abstract No. 756, Tarrant County, Texas, and the Jessie Gibson Survey, Abstract No. 493, the J. Bacon Survey, Abstract No. 1565, the Richard Eads Survey, Abstract No. 393, the Jessie Sutton Survey, Abstract No. 1154, the Charles Medlin Survey, Abstract No. 823, and the M.E.P. and P.R.R. Co. Survey, Abstract No. 923, Denton County, Texas, and being a portion of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas and in Clerk's Filing Number 98-R0052417, Real Property Records of Denton County, Texas, and being more particularly described as follows:

BEGINNING at the northeast corner of that certain tract of land described by deed to Westlake Retail Associates, Ltd., as recorded in Clerk's Filing Number 98-R0118649, Real Property Records of Denton County, Texas; said point being in the southerly right-of-way line of State Highway 114 (a variable width right-of-way);

THENCE S 75°23'15"E, 177.04 feet along the southerly right-of-way line of said State Highway 114;

THENCE N 35°10'12"E, 64.12 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 83°32'53"E, 280.71 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°20'18"E, 99.79 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 68°06'43"E, 312.60 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE N 71°04'40"E, 72.01 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°23'17"E, 420.11 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 43°54'26"E, 76.22 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 86°58'32"E, 198.85 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°13'09"E, 55.83 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the right;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the right, an arc distance of 1371.81 feet, through a central angle of 10°18'56", having a radius of 7619.44 feet, the long chord of which bears S 70°13'39"E, 1369.96 feet;

THENCE S 65°08'39"E, 819.44 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 61°06'42"E, 300.72 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 72°37'39"E, 151.61 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 65°07'20"E, 472.53 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the left, an arc distance of 274.47 feet, through a central angle of 02°44'07", having a radius of 5749.58 feet, the long chord of which bears S 66°27'19"E, 274.45 feet, said point being at the intersection of the southerly right-of-way line of said State Highway 114 and the northwesterly right-of-way line of Westlake Parkway (a variable width right-of-way);

THENCE S 22°10'36"W, 14.00 feet along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 24°16'35"E, 73.61 feet continuing along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 19°13'50"W, 299.02 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 146.07 feet, through a central angle of 07°10'06", having a radius of 1167.50 feet, the long chord of which bears S 22°48'53"W, 145.97 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 87.12 feet, through a central angle of 12°28'44", having a radius of 400.00 feet, the long chord of which bears S 32°38'18"W, 86.95 feet;

THENCE S 38°52'40"W, 318.92 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 435.19 feet, through a central angle of $29^{\circ}20'05''$, having a radius of 850.00 feet, the long chord of which bears $S\ 53^{\circ}32'42''W$, 430.45 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 149.47 feet, through a central angle of $33^{\circ}58'22''$, having a radius of 252.08 feet, the long chord of which bears $S\ 85^{\circ}11'56''W$, 147.29 feet to the beginning of a reverse curve to the left;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said reverse curve to the left, an arc distance of 35.64 feet, through a central angle of $30^{\circ}56'35''$, having a radius of 66.00 feet, the long chord of which bears $S\ 86^{\circ}42'50''W$, 35.21 feet to the most northerly terminus of said Westlake Parkway;

THENCE $S\ 12^{\circ}42'02''E$, 189.35 feet along the terminus of said Westlake Parkway to the most southerly terminus of said Westlake Parkway and the beginning of a non-tangent curve to the right, said point also being in the westerly property line of that certain tract of land described by deed to FMR Texas Limit Partnership, as recorded in Volume 13457, Page 403, County Records, Tarrant County, Texas, and in Clerk's Filing Number 98-R0091571, Real Property Records of Denton County, Texas;

THENCE along the westerly property line of said FMR tract and with said non-tangent curve to the right, an arc distance of 38.39 feet, through a central angle of $01^{\circ}39'03''$, having a radius of 1332.50 feet, the long chord of which bears $S\ 77^{\circ}16'36''W$, 38.39 feet;

THENCE $S\ 09^{\circ}40'08''E$, 892.93 feet continuing along the westerly property line of said FMR tract;

THENCE $S\ 16^{\circ}36'28''W$, 1518.12 feet continuing along the westerly property line of said FMR tract;

THENCE $S\ 00^{\circ}59'38''E$, 573.79 feet continuing along the westerly property line of said FMR tract;

THENCE $S\ 11^{\circ}34'10''E$, 564.14 feet continuing along the westerly property line of said FMR tract to the northerly right-of-way line of Dove Road (a variable width right-of-way);

THENCE $S\ 70^{\circ}31'18''W$, 349.16 feet along the northerly right-of-way line of said Dove Road to the beginning of a curve to the right;

THENCE continuing along the northerly right-of-way line of said Dove Road and with said curve to the right, an arc distance of 253.38 feet, through a central angle of $19^{\circ}21'24''$, having a radius of 750.00 feet, the long chord of which bears $S\ 80^{\circ}12'00''W$, 252.18 feet;

THENCE S 89°52'43"W, 361.81 feet continuing along the northerly right-of-way line of said Dove Road to the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13544, Page 24, County Records, Tarrant County, Texas;

THENCE N 00°26'57"E, 856.11 feet along the east property line of said AIL tract to the northeast property corner of said AIL tract;

THENCE S 87°44'39"W, 487.27 feet along the north property line of said AIL tract to the northwest property corner of said AIL tract;

THENCE S 00°27'26"W, 837.96 feet along the west property line of said AIL tract returning to the northerly right-of-way line of said Dove Road;

THENCE S 89°52'43"W, 412.49 feet continuing along the northerly right-of-way line of said Dove Road;

THENCE S 88°54'36"W, 100.66 feet continuing along the northerly right-of-way line of said Dove Road to the southeast property corner of that certain tract of land described by deed to DCLI LLC, as recorded in document number D208246568, County Records, Tarrant County, Texas;

THENCE N 01°05'24"W, 1442.77 feet along the east property line of said DCLI tract;

THENCE N 40°02'39"E, 871.03 feet continuing along the east property line of said DCLI tract;

THENCE N 00°32'43"W, 545.49 feet continuing along the east property line of said DCLI tract to northeast property corner of said DCLI tract;

THENCE S 89°27'17"W, 1824.60 feet along the north property line of said DCLI tract to the most northwesterly property corner of said DCLI tract;

THENCE S 58°07'29"W, 519.96 feet along the westerly property line of said DCLI tract;

THENCE S 26°47'41"W, 340.17 feet continuing along the westerly property line of said DCLI tract;

THENCE S 24°21'01"W, 227.62 feet continuing along the westerly property line of said DCLI tract;

THENCE S 20°32'10"W, 243.20 feet continuing along the westerly property line of said DCLI tract;

THENCE S 00°45'29"E, 357.87 feet continuing along the westerly property line of said DCLI tract to the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Document Number D208228230, County Records, Tarrant County, Texas;

THENCE S 89°49'56"W, 1895.38 feet along said AIL boundary line and crossing said Ottinger Road and then along the north property line of that certain tract of land described by deed to Hillwood Investment Land, L.P., as recorded in Document Number D207311517, County Records, Tarrant County, Texas, to the northwest property corner of said Hillwood Investment Land tract;

THENCE S 00°05'13"W, 1321.04 feet along said AIL boundary line;

THENCE S 89°14'09"W, 1326.57 feet continuing along said AIL boundary line;

THENCE S 00°38'31"E, 3279.65 feet continuing along said AIL boundary line;

THENCE S 89°25'42"W, 738.33 feet continuing along said AIL boundary line;

THENCE N 01°20'34"W, 432.68 feet continuing along said AIL boundary line;

THENCE S 89°57'12"W, 102.66 feet continuing along said AIL boundary line;

THENCE N 00°06'11"W, 948.90 feet continuing along said AIL boundary line;

THENCE S 89°49'45"W, 1835.53 feet continuing along said AIL boundary line to the most westerly southwest property corner of said AIL tract, being in the approximate center line of Roanoke Road;

THENCE N 00°05'27"W, 1067.63 feet along the boundary line of said AIL tract and in the approximate center line of said Roanoke Road to easterly boundary line of a 5.200 acre Town of Westlake tract described in Volume 15922, page 268, County Records, Tarrant County, Texas, and to the beginning of a non-tangent curve to the left;

THENCE along the easterly boundary line of said 5.200 acre Town of Westlake tract and with said non-tangent curve to the left, an arc distance of 47.56 feet, through a central angle of 03°56'58", having a radius of 690.00 feet, the long chord of which bears N 30°47'19"E, 47.55 feet, to a point in the westerly boundary line of a 2.544 acre Town of Westlake tract dedicated for Roanoke Road right-of-way, as recorded in Volume 15922, Page 266, County Records, Tarrant County, Texas;

THENCE S 00°19'49"E, 155.71 feet along the westerly boundary line of said 2.544 acre tract to the most southerly point in the boundary of said 2.544 acre tract;

THENCE N 26°35'53"E, 165.50 feet along the easterly boundary line of said 2.544 acre tract to the beginning of a curve to the left;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the left, an arc distance of 616.13 feet, through a central angle of 46°26'58", having a radius of 760.00 feet, the long chord of which bears N 03°22'24"E, 599.39 feet;

THENCE N 19°51'05"W, 216.71 feet continuing along the easterly property line of said 2.544 acre tract to the beginning of a curve to the right;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the right, an arc distance of 328.80 feet, through a central angle of 20°02'29", having a radius of 940.00 feet, the long chord of which bears N 09°49'50"W, 327.13 feet to the south property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 441, County Records, Tarrant County, Texas;

THENCE N 89°30'04"E, 2647.12 feet along the south property line of said AIL tract to the southeast property corner of said AIL tract;

THENCE N 00°14'01"W, 664.18 feet along the east property line of said AIL tract and then along the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas, to the northeast property corner of said AIL Investment, L.P., tract as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas;

THENCE N 89°26'44"W, 2649.59 feet along the north property line of said AIL tract and then along the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 14178, Page 432, County Records, Tarrant County, Texas, returning to the approximate center line of the aforementioned Roanoke Road;

THENCE N 00°29'48"W, 1619.28 feet along the boundary line of said AIL tract;

THENCE N 87°52'45"E, 23.60 feet continuing along the boundary line of said AIL tract;

THENCE N 00°08'55"E, 131.69 feet continuing along the boundary line of said AIL tract to the southerly right-of-way line of State Highway 170 (a variable width right-of-way);

THENCE N 89°51'27"E, 3.18 feet along the southerly right-of-way line of said State Highway 170;

THENCE N 00°08'34"W, 85.39 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1381.19 feet, through a central angle of 17°11'24", having a radius of 4603.66 feet, the long chord of which bears N 52°14'43"E, 1376.02 feet;

THENCE N 77°57'39"E, 66.80 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 39°31'08"E, 106.53 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 23°42'12"E, 110.15 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1174.20 feet, through a central angle of 05°51'39", having a radius of 11479.16 feet, the long chord of which bears N 37°35'29"E, 1173.69 feet;

THENCE N 34°39'39"E, 983.30 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE S 75°41'23"E, 65.50 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 89°53'30"E, 19.84 feet continuing along the southerly right-of-way line of said State Highway 170 to a point in the westerly property line of the aforementioned Westlake Retail Associates, Ltd tract;

THENCE S 00°40'26"E, 217.45 feet along the westerly property line of said Westlake Retail Associates, Ltd tract to the most northerly property corner of that certain Save and Except tract (First tract), recorded in the aforementioned AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas and in Clerk's Filing Number 98-R0052417, Real Property Records of Denton County, Texas;

THENCE S 00°37'40"E, 73.60 feet along the west property line of said Save and Except tract;

THENCE N 89°10'35"W, 284.94 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°44'51"E, 1502.61 feet continuing along the west property line of said Save and Except tract;

THENCE S 89°57'50"W, 10.00 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°07'14"E, 946.45 feet continuing along the west property line of said Save and Except tract to the southwest property corner of said Save and Except tract;

THENCE N 89°52'59"E, 1461.16 feet along the south property line of said Save and Except tract to the northwest property corner of that certain 24.59 acre Town of Westlake tract, recorded in Volume 15818, Page 117, County Records, Tarrant County, Texas;

THENCE S 66°58'16"E, 192.22 feet along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 07°25'33"E, 180.88 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 21°24'47"E, 39.07 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 11°10'47"E, 94.09 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 34°58'57"E, 140.91 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 54°13'31"E, 60.78 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 23°41'47"E, 109.17 feet continuing along the west property line of said 24.59 acre Town of Westlake tract to the southwest property corner of said 24.59 acre Town of Westlake tract;

THENCE N 89°49'56"E, 1012.80 feet along the south property line of said 24.59 acre Town of Westlake tract to the beginning of a curve to the left;

THENCE continuing along the south property line of said 24.59 acre Town of Westlake tract and with said curve to the left, an arc distance of 62.32 feet, through a central angle of 08°17'02", having a radius of 431.03 feet, the long chord of which bears N 85°40'05"E, 62.27 feet to the northwest corner of a variable width right-of-way dedication, as recorded in Volume 16653, Page 89, County records, Tarrant County, Texas;

THENCE S 00°02'05"E, 125.19 feet along the west terminus of said right-of-way dedication to the southwest corner of said right-of-way dedication;

THENCE N 89°57'55"E, 51.18 feet along the south right-of-way line of said right-of-way dedication;

THENCE N 43°06'40"E, 154.03 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a non-tangent curve to the left;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said non-tangent curve to the left, an arc distance of 320.00 feet, through a central angle of 37°20'29", having a radius of 491.00 feet, the long chord of which bears N 44°43'50"E, 314.37 feet;

THENCE N 26°03'35"E, 100.00 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a curve to the right;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said curve to the right, an arc distance of 124.87 feet, through a central angle of 12°54'51", having a radius of 554.00 feet, the long chord of which bears N 32°31'00"E, 124.61 feet;

THENCE N 38°58'25"E, 195.82 feet continuing along the south right-of-way line of said right-of-way dedication to the northeast corner of said right-of-way dedication;

THENCE N 51°01'35"W, 60.00 feet along the northeasterly terminus of said right-of-way dedication to a point in the east property line of the aforementioned 24.59 acre Town of Westlake tract and being the beginning of a curve to the right;

THENCE along the east property line of said 24.59 acre Town of Westlake tract and with said curve to the right, an arc distance of 612.92 feet, through a central angle of 30°17'41", having a radius of 1159.20 feet, the long chord of which bears N 34°31'13"W, 605.80 feet to the most northerly corner of said 24.59 acre Town of Westlake tract and also being in the east property line of the aforementioned Save and Except tract;

THENCE N 00°47'59"W, 1267.03 feet along the east property line of said Save and Except tract to the northeast property corner of said Save and Except tract;

THENCE N 89°54'00"W, 803.58 feet along the north property line of said Save and Except tract;

THENCE S 01°46'29"E, 315.42 feet continuing along the north property line of said Save and Except tract;

THENCE N 89°59'37"W, 630.18 feet continuing along the north property line of said Save and Except tract;

THENCE N 76°13'43"W, 210.12 feet continuing along the north property line of said Save and Except tract;

THENCE N 41°18'15"W, 569.57 feet continuing along the north property line of said Save and Except tract to the southerly property line of the aforementioned Westlake Retail Associates, Ltd., tract and the beginning of a non-tangent curve to the right;

THENCE along the southerly property line of said with said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the right, an arc distance of 128.75 feet, through a central angle of 03°55'08", having a radius of 1882.50 feet, the long chord of which bears N 88°08'26"E, 128.73 feet;

THENCE S 89°54'00"E, 898.42 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°32'44"W, 45.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'00", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N 89°27'16"E, 32.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 50°57'27"E, 12.08 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 481.24 feet, through a central angle of 67°31'55", having a radius of 408.29 feet, the long chord of which bears N 33°13'14"E, 453.86 feet to the beginning of a reverse curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said reverse curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'01", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N 89°27'16"E, 170.26 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE S 00°32'44"E, 49.98 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 11.14 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 33.89 feet, through a central angle of 10°47'26", having a radius of 179.93 feet, the long chord of which bears S 28°08'13"E, 33.84 feet;

THENCE S 89°27'16"W, 16.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 205.35 feet, through a central angle of 60°21'43", having a radius of 194.92 feet, the long chord of which bears S 60°53'46"E, 195.99 feet;

THENCE N 89°27'16"E, 194.11 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°32'44"W, 25.20 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 78.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 293.43 feet, through a central angle of 79°36'02", having a radius of 211.21 feet, the long chord of which bears N 89°27'16"E, 270.39 feet;

THENCE N 89°27'16"E, 127.87 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the southeast property corner of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°07'00"W, 245.16 feet along the east property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the east property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 783.77 feet, through a central angle of 17°32'30", having a radius of 2560.00 feet, the long chord of which bears N 08°39'15"E, 780.71 feet;

THENCE N 17°25'30"E, 477.17 feet continuing along the east property line of said Westlake Retail Associates, Ltd., tract to the **Point of Beginning** and containing 41,459,876 square feet or 951.788 acres of land more or less.

PARCEL No. 2

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, Tarrant County Texas and being a portion of that tract of land (Tract 1) as described in a deed to AIL Investment, L.P. as recorded in Deed Volume 13275, Page 542, County Records, Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at the northwest corner of said Tract 1 being a point in the east right-of-way line of former State Highway 377 (now abandoned in this location);

THENCE N89°39'29"E, 30.74 feet along the north line of said Tract 1 to a point in the existing westerly right-of-way line of State Highway 377;

THENCE S10°32'14"W, 395.27 feet along said existing westerly right-of-way line to the beginning of a curve to the right;

THENCE 71.53 feet along the arc of said curve to the right and along said right-of-way line, through a central angle of 00°43'29", whose radius is 5654.58 feet, the long chord of which bears S10°53'10"W, 71.53 feet;

THENCE S89°53'00"W, 154.08 feet, leaving said existing right-of-way line to a point in the west line of said tract 1;

THENCE N24°29'49"E, 504.37 feet along said west line of Tract 1 to the **POINT OF BEGINNING**, and containing 0.975 acres of land, more or less.

EXHIBIT "B"

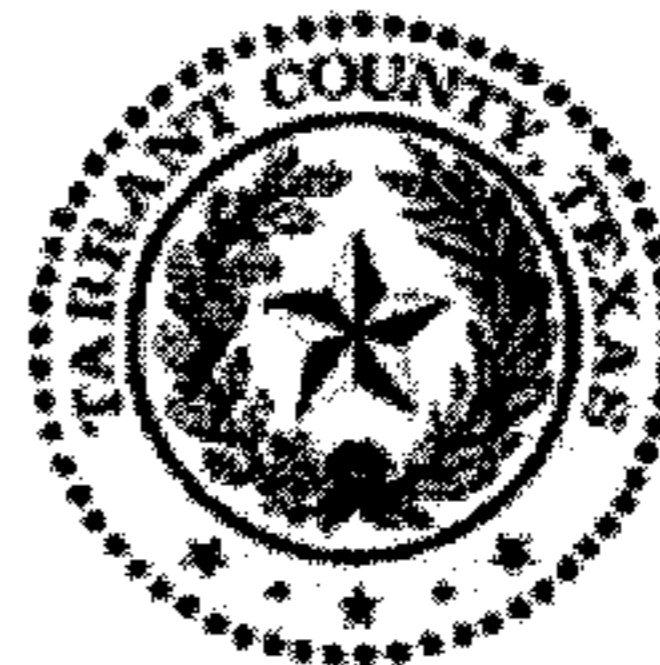
PERMITTED EXCEPTIONS

1. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matters listed as exceptions in the those respective deeds.
2. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matter executed and delivered by Grantor since the dates of such deeds and recorded in the Real Property Records of Denton and Tarrant Counties, Texas.
3. Any matter that a current and accurate survey of the Property would reveal.

MICHEAL E JONES
350 N ST PAUL ST STE 2900

DALLAS TX 75201

Submitter: SUPER SEARCH



SUZANNE HENDERSON
TARRANT COUNTY CLERK
TARRANT COUNTY COURTHOUSE
100 WEST WEATHERFORD
FORT WORTH, TX 76196-0401

DO NOT DESTROY
WARNING - THIS IS PART OF THE OFFICIAL RECORD.

Filed For Registration: 07/08/2009 11:08 AM

Instrument #: D209181337

WD

18 PGS

\$80.00

By: _____



D209181337

**ANY PROVISION WHICH RESTRICTS THE SALE, RENTAL OR USE
OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR
RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.**

Printed by: MC

ATTACHMENT 5

Consent Letter showing Applicant's Right to Use of Land

HW 2421 LAND, LP
9800 Hillwood Parkway, Suite 300
Fort Worth, TX 76177

November 19, 2021

Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

Re: HW 2421 Land, LP – Consent Letter

To Whom it May Concern,

I, L. Russell Laughlin, in my capacity as Executive Vice President of HW 2421 Land, LP, hereby consent to the use by Independence Water of the 4.79 acre parcel, identified as tracts 1 and 1b in the Jesse Sutton Survey, Abstract 1451 in Tarrant County, Texas, for a water use permit.

Regards,

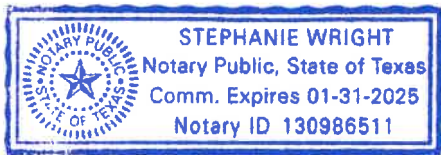
HW 2421 LAND, LP,
a Texas limited partnership

By: HW 2421 Land GP, LLC,
a Texas limited liability company,
its general partner

By: 
Name: L. Russell Laughlin
Title: Executive Vice President

STATE OF TEXAS §
 §
COUNTY OF TARRANT §

This instrument was acknowledged before me on November 19, 2021, by L. Russell Laughlin, Executive Vice President of HW 2421 Land GP, LLC, a Texas limited liability company, on behalf of said limited liability company, in its capacity as general partner of HW 2421 Land, LP, a Texas limited partnership, on behalf of said limited partnership.



Stephanie Wright
Notary Public, State of Texas

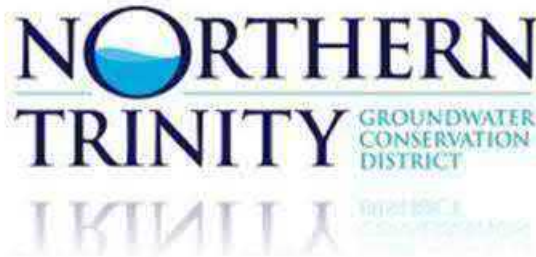
ATTACHMENT 6

Notice to Proceed Letters from Northern Trinity Groundwater Conservation
District

Chris Hamilton

Subject:

FW: Notice to Proceed- Independence Water, L.P.- N-2021-0110 (Permit 47)- Paluxy 1_
2451 Westlake Parkway



Tarrant County
1100 Circle Drive, Suite 300
Fort Worth, TX 76119
817.249.2062 Voice Fax 817.249.2918

June 17, 2021

Russell Langford
Associated Well Services
1215 US 67
Stephenville, TX 76401



Email: [REDACTED]

RE: ***Independence Water, L.P.- N-2021-0110 (Permit 47)- Paluxy 1
2451 Westlake Parkway
Westlake, TX 76262***

Dear Russell:

This letter serves as the **Notice to Proceed**. Compliance with the spacing and location requirements of the NTGCD rules does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

Please keep in mind that you have 120 days (240 days for public water system) from the date of approval (date of notice) to drill and complete the new water well.

The state well log must be filed with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the driller's well report deposit of \$200.00 and subject the registrant to enforcement action.

If you have any questions, please contact me at 817.249.2062.

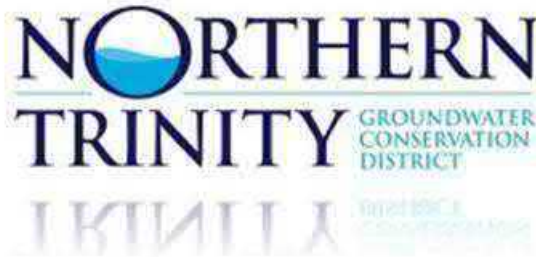
Thank you,

Corey Jones
NTGCD

Chris Hamilton

Subject:

FW: Notice to Proceed- Independence Water, L.P.- N-2021-0111 (Permit 49)_ 2451
Westlake Parkway



Tarrant County
1100 Circle Drive, Suite 300
Fort Worth, TX 76119
817.249.2062 Voice Fax 817.249.2918

June 17, 2021

Russell Langford
Associated Well Services
1215 US 67
Stephenville, TX 76401



Email: [REDACTED]

RE: ***Independence Water, L.P.- N-2021-0111 (Permit 49)***
2451 Westlake Parkway
Westlake, TX 76262

Dear Russell:

This letter serves as the **Notice to Proceed**. Compliance with the spacing and location requirements of the NTGCD rules does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

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If you have any questions, please contact me at 817.249.2062.

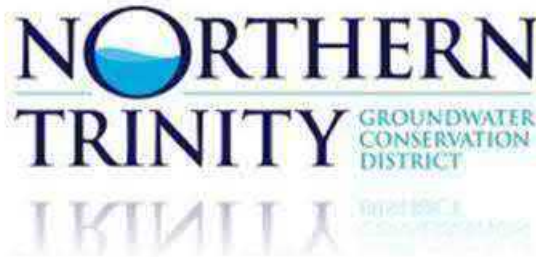
Thank you,

Corey Jones
NTGCD

Chris Hamilton

Subject:

Notice to Proceed- Independence Water, L.P.- N-2021-0112 (Permit 48)- Trinity Well_
2451 Westlake Parkway



Tarrant County
1100 Circle Drive, Suite 300
Fort Worth, TX 76119
817.249.2062 Voice Fax 817.249.2918

June 17, 2021

Russell Langford
Associated Well Services
1215 US 67
Stephenville, TX 76401



Email: [REDACTED]

RE: ***Independence Water, L.P.- N-2021-0112 (Permit 48)- Trinity Well
2451 Westlake Parkway
Westlake, TX 76262***

Dear Russell:

This letter serves as the **Notice to Proceed**. Compliance with the spacing and location requirements of the NTGCD rules does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

Please keep in mind that you have 120 days (240 days for public water system) from the date of approval (date of notice) to drill and complete the new water well.

The state well log must be filed with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the driller's well report deposit of \$200.00 and subject the registrant to enforcement action.

If you have any questions, please contact me at 817.249.2062.

Thank you,

Corey Jones
NTGCD

ATTACHMENT 7

Addendum to Worksheet 5.0

- a. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms.

No impingement or entrainment of aquatic resources is anticipated since water will be allowed to flow out naturally through the proposed outlet (no screens on the outlet pipe are proposed) and any organism that could potentially pass through the outlet pipe could find habitat downstream of the project area.

- b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

No diversion of state water will occur at this location. Additionally, no loss of water is proposed at this location. No water loss would result in no impact to bay and estuary freshwater inflows.

- c. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide reasonably current water chemistry information. If data for onsite well is not available, historic data collected from similar sized wells drawing water from the same aquifer may be provided.

Please Attachment 6 for sample data from the groundwater well.

ATTACHMENT 8

Analytical Results

Peloton Land Solutions

Sample Delivery Group: L1349545
Samples Received: 05/07/2021
Project Number:
Description: Well Water Testing

Report To: Chris Hamilton
9800 Hillwood Parkway
Fort Worth, TX 76177

Entire Report Reviewed By:



Amy Bryant
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

WELL HOUSE 2 L1349545-01 WW

Collected by
David Bryant

Collected date/time
05/07/21 12:15

Received date/time
05/07/21 12:59

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Microbiology by Method 9223B	WG1668183	1	05/11/21 09:17	05/11/21 09:17	CNC	Ft. Worth, TX
Calculated Results	WG1667552	1	05/13/21 14:05	05/13/21 14:05	SDL	Allen, TX
Calculated Results	WG1670272	1	05/15/21 13:18	05/15/21 13:18	EL	Mt. Juliet, TN
Gravimetric Analysis by Method 2540C	WG1668480	1	05/11/21 13:57	05/11/21 14:31	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG1669154	1	05/12/21 11:56	05/12/21 13:51	QQT	Allen, TX
Wet Chemistry by Method 120.1	WG1668222	1	05/11/21 16:14	05/11/21 16:14	EIG	Allen, TX
Wet Chemistry by Method 180.1	WG1668857	1	05/08/21 10:19	05/08/21 10:19	AME	Allen, TX
Wet Chemistry by Method 2320B	WG1668326	1	05/11/21 11:30	05/11/21 11:30	JAP	Allen, TX
Wet Chemistry by Method 300.0	WG1668850	1	05/08/21 09:48	05/08/21 09:48	JAP	Allen, TX
Wet Chemistry by Method 300.0	WG1668110	1	05/11/21 13:47	05/11/21 13:47	JAP	Allen, TX
Wet Chemistry by Method 300.0	WG1668110	10	05/11/21 14:41	05/11/21 14:41	JAP	Allen, TX
Wet Chemistry by Method 350.1	WG1668660	1	05/12/21 16:45	05/12/21 16:45	SL	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG1669309	1	05/12/21 23:11	05/14/21 10:08	SDL	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1667552	1	05/10/21 17:24	05/10/21 17:24	EIG	Allen, TX
Wet Chemistry by Method 4500CI G-2011	WG1664907	1	05/10/21 12:02	05/10/21 12:02	SAC	Mt. Juliet, TN
Wet Chemistry by Method 4500P-E	WG1668900	1	05/13/21 14:51	05/13/21 14:51	LNM	Allen, TX
Wet Chemistry by Method 5310C	WG1680844	1	06/01/21 17:26	06/01/21 17:26	EIG	Allen, TX
Wet Chemistry by Method SM 4500-H+B	WG1668148	1	05/11/21 10:34	05/11/21 10:34	JAP	Allen, TX
Wet Chemistry by Method SM5210B	WG1666760	1	05/08/21 07:26	05/13/21 07:28	AME	Allen, TX
Mercury by Method 245.1	WG1679290	1	05/28/21 12:40	05/28/21 16:24	CDP	Allen, TX
Metals (ICP) by Method 200.7	WG1670272	1	05/14/21 09:52	05/15/21 13:18	EL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1678520	1	05/28/21 12:51	05/28/21 17:41	CDP	Allen, TX

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Amy Bryant
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1349545-01	WELL HOUSE 2	5310C



WELL HOUSE 2

Collected date/time: 05/07/21 12:15

SAMPLE RESULTS - 01

L1349545

Microbiology by Method 9223B

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Coliform, Total	<1	T8	1	05/11/2021 09:17	WG1668183
E.Coli	<1	T8	1	05/11/2021 09:17	WG1668183

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrogen	0.679		0.0500	1	05/13/2021 14:05	WG1667552
Silica	12.7		0.428	1	05/15/2021 13:18	WG1670272

Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	502		25.0	1	05/11/2021 14:31	WG1668480

Gravimetric Analysis by Method 2540D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	7.00		2.50	1	05/12/2021 13:51	WG1669154

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	877		1.00	1	05/11/2021 16:14	WG1668222

Wet Chemistry by Method 180.1

Analyte	Result NTU	Qualifier	RDL NTU	Dilution	Analysis date / time	Batch
Turbidity	1.76		1.50	1	05/08/2021 10:19	WG1666857

Wet Chemistry by Method 2320B

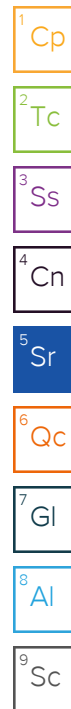
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	394		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity, Bicarbonate	<20.0		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity, Carbonate	704		20.0	1	05/11/2021 11:30	WG1668326
Phenolphthalein Alkalinity	42.0		20.0	1	05/11/2021 11:30	WG1668326

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	<0.400		0.400	1	05/11/2021 13:47	WG1668110
Chloride	6.67		0.800	1	05/11/2021 13:47	WG1668110
Fluoride	0.522		0.500	1	05/11/2021 13:47	WG1668110
Nitrate	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Nitrite	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Sulfate	40.4		7.00	10	05/11/2021 14:41	WG1668110

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.522		0.250	1	05/12/2021 16:45	WG1668660



WELL HOUSE 2

Collected date/time: 05/07/21 12:15

SAMPLE RESULTS - 01

L1349545

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	0.370		0.250	1	05/14/2021 10:08	WG1669309

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	<0.0500		0.0500	1	05/10/2021 17:24	WG1667552

Wet Chemistry by Method 4500Cl G-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorine,residual	<0.100	T8	0.100	1	05/10/2021 12:02	WG1664907

Wet Chemistry by Method 4500P-E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	<0.0500		0.0500	1	05/13/2021 14:51	WG1668900

Wet Chemistry by Method 5310C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1.45		0.700	1	06/01/2021 17:26	WG1680844

Wet Chemistry by Method SM 4500-H+B

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.22	T8	1	05/11/2021 10:34	WG1668148

Sample Narrative:

L1349545-01 WG1668148: 9.22 at 21.9C

Wet Chemistry by Method SM5210B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
BOD	<2.00		2.00	1	05/13/2021 07:28	WG1666760

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	<0.000200		0.000200	1	05/28/2021 16:24	WG1679290

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Antimony	<0.0250		0.0250	1	05/28/2021 17:41	WG1678520
Arsenic	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Barium	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Beryllium	<0.00100		0.00100	1	05/28/2021 17:41	WG1678520
Boron	0.399		0.100	1	05/28/2021 17:41	WG1678520
Cadmium	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Calcium	1.03		1.00	1	05/28/2021 17:41	WG1678520
Chromium	<0.00700		0.00700	1	05/28/2021 17:41	WG1678520

WELL HOUSE 2

Collected date/time: 05/07/21 12:15

SAMPLE RESULTS - 01

L1349545

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cobalt	<0.00250		0.00250	1	05/28/2021 17:41	WG1678520
Copper	0.135		0.0200	1	05/28/2021 17:41	WG1678520
Iron	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Lead	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Magnesium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Manganese	<0.0500		0.0500	1	05/28/2021 17:41	WG1678520
Nickel	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Potassium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Selenium	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Silver	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Sodium	206		1.00	1	05/28/2021 17:41	WG1678520
Strontium	0.0687		0.00500	1	05/28/2021 17:41	WG1678520
Silicon	5.94		0.200	1	05/15/2021 13:18	WG1670272
Zinc	0.329		0.0250	1	05/28/2021 17:41	WG1678520

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3652799-1 05/11/21 09:17

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Coliform,Total	<1			
E.Coli	<1			

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 09:17 • (DUP) R3652799-2 05/11/21 09:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
				%		%
Coliform,Total	<1	<1	1	0.000		20
E.Coli	<1	<1	1	0.000		20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3653454-1 05/11/21 14:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Total Dissolved Solids	<25.0		25.0	25.0

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 14:31 • (DUP) R3653454-3 05/11/21 14:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	502	513	1	2.17		5

Laboratory Control Sample (LCS)

(LCS) R3653454-2 05/11/21 14:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Total Dissolved Solids	250	260	104	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3653822-1 05/12/21 13:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Suspended Solids	<2.50		2.50	2.50

L1349446-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349446-01 05/12/21 13:51 • (DUP) R3653822-3 05/12/21 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	273	300	1	9.31		10

L1349986-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1349986-03 05/12/21 13:51 • (DUP) R3653822-4 05/12/21 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	287	280	1	2.36		10

Laboratory Control Sample (LCS)

(LCS) R3653822-2 05/12/21 13:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Suspended Solids	200	199	99.5	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3653047-1 05/11/21 16:14

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	<1.00		1.00	1.00

L1349436-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349436-01 05/11/21 16:14 • (DUP) R3653047-3 05/11/21 16:14

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	353	353	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3653047-2 05/11/21 16:14

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	200	189	94.4	80.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3651947-1 05/08/21 10:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	NTU		NTU	NTU
Turbidity	<0.641		0.641	1.50

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/08/21 10:19 • (DUP) R3651947-2 05/08/21 10:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	NTU	NTU		%		%
Turbidity	1.76	1.78	1	1.13		20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3652991-1 05/11/21 11:30

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0

L1347307-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347307-01 05/11/21 11:30 • (DUP) R3652991-3 05/11/21 11:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	88.0	98.0	1	10.8		20

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 11:30 • (DUP) R3652991-4 05/11/21 11:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	394	328	1	18.3		20

Laboratory Control Sample (LCS)

(LCS) R3652991-2 05/11/21 11:30

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	250	254	102	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652291-1 05/08/21 09:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate	<0.207		0.207	0.500
Nitrite	<0.0922		0.0922	0.500

Laboratory Control Sample (LCS)

(LCS) R3652291-2 05/08/21 09:30

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate	5.00	4.90	98.0	90.0-110	
Nitrite	5.00	5.23	105	90.0-110	

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/08/21 09:48 • (MS) R3652291-3 05/08/21 10:05 • (MSD) R3652291-4 05/08/21 10:23

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate	5.00	<0.500	4.74	4.60	94.7	92.0	1	90.0-110			2.94	20
Nitrite	5.00	<0.500	5.31	5.19	106	104	1	90.0-110			2.34	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3653255-1 05/11/21 10:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	<0.0763		0.0763	0.400
Chloride	0.163	U	0.0541	0.800
Fluoride	<0.198		0.198	0.500
Sulfate	<0.393		0.393	0.700

Laboratory Control Sample (LCS)

(LCS) R3653255-2 05/11/21 10:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	5.00	5.04	101	90.0-110	
Chloride	5.00	4.82	96.5	90.0-110	
Fluoride	5.00	4.65	92.9	90.0-110	
Sulfate	5.00	4.99	99.9	90.0-110	

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/11/21 13:47 • (MS) R3653255-3 05/11/21 14:05 • (MSD) R3653255-4 05/11/21 14:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	5.00	<0.400	5.16	5.31	98.3	101	1	90.0-110			2.97	20
Chloride	5.00	6.67	11.2	11.3	90.6	93.2	1	90.0-110			1.16	20
Fluoride	5.00	0.522	5.13	5.30	92.1	95.5	1	90.0-110			3.24	20

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/11/21 14:41 • (MS) R3653255-5 05/11/21 14:59 • (MSD) R3653255-6 05/11/21 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	40.4	92.2	94.5	104	108	10	90.0-110			2.47	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3653782-1 05/12/21 16:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Ammonia Nitrogen	<0.117		0.117	0.250

L1349278-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349278-01 05/12/21 16:25 • (DUP) R3653782-5 05/12/21 16:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	7.21	7.12	5	1.31		10

L1349851-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1349851-02 05/12/21 16:50 • (DUP) R3653782-7 05/12/21 16:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	<0.250	<0.250	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3653782-2 05/12/21 16:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Ammonia Nitrogen	7.50	7.76	103	90.0-110	

L1345935-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345935-01 05/12/21 16:20 • (MS) R3653782-3 05/12/21 16:22 • (MSD) R3653782-4 05/12/21 16:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Ammonia Nitrogen	5.00	<0.250	4.56	4.91	91.2	98.1	1	90.0-110			7.29	10

L1349851-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1349851-01 05/12/21 16:47 • (MS) R3653782-6 05/12/21 16:49

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Ammonia Nitrogen	5.00	0.483	5.36	97.5	1	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3654088-1 05/13/21 10:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250

Method Blank (MB)

(MB) R3654399-1 05/14/21 09:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250

L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/13/21 11:17 • (DUP) R3654088-3 05/13/21 11:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	18.9	17.8	1	5.99		20

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/13/21 13:49 • (DUP) R3654088-5 05/13/21 11:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	2.00	2.15	1	7.23		20

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/14/21 09:56 • (DUP) R3654399-4 05/14/21 09:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1.75	2.12	1	19.1		20



L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/14/21 10:14 • (DUP) R3654399-6 05/14/21 10:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.2	17.0	1	6.82		20

Laboratory Control Sample (LCS)

(LCS) R3654088-2 05/13/21 11:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	15.2	14.9	98.0	75.2-121	

Laboratory Control Sample (LCS)

(LCS) R3654399-2 05/14/21 09:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	15.2	15.0	98.7	75.2-121	

L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/13/21 11:17 • (MS) R3654088-4 05/13/21 11:07

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.9	22.1	64.0	1	90.0-110	E J6

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/13/21 13:49 • (MS) R3654088-6 05/13/21 11:22 • (MSD) R3654088-7 05/13/21 11:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	5.00	2.00	7.22	7.10	104	102	1	90.0-110			1.68	20

L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/14/21 10:14 • (MS) R3654399-3 05/14/21 09:46

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.2	21.6	68.0	1	90.0-110	E J6

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/14/21 09:56 • (MS) R3654399-7 05/14/21 10:16 • (MSD) R3654399-5 05/14/21 10:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	1.75	7.22	6.72	109	99.4	1	90.0-110			7.17	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3652795-1 05/10/21 16:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500

Laboratory Control Sample (LCS)

(LCS) R3652795-2 05/10/21 16:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.44	97.6	90.0-110	

L1348257-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-01 05/10/21 17:05 • (MS) R3652795-3 05/10/21 16:58 • (MSD) R3652795-4 05/10/21 16:59

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	0.684	3.13	3.13	97.8	97.8	1	90.0-110			0.000	20

L1348257-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-02 05/10/21 17:09 • (MS) R3652795-5 05/10/21 17:00 • (MSD) R3652795-6 05/10/21 17:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	0.582	3.01	3.06	97.1	99.1	1	90.0-110			1.65	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652433-1 05/10/21 11:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chlorine,residual	<0.0260		0.0260	0.100

L1347551-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1347551-03 05/10/21 11:59 • (DUP) R3652433-3 05/10/21 11:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chlorine,residual	<0.100	<0.100	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3652433-2 05/10/21 11:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chlorine,residual	1.00	0.995	99.5	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3654116-1 05/13/21 14:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	<0.0152		0.0152	0.0500

Laboratory Control Sample (LCS)

(LCS) R3654116-2 05/13/21 14:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.500	0.495	99.0	80.0-120	

L1346472-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346472-01 05/13/21 14:51 • (MS) R3654116-3 05/13/21 14:51 • (MSD) R3654116-4 05/13/21 14:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	0.500	<0.0500	0.471	0.493	94.2	98.5	1	80.0-120			4.56	20

L1346475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346475-01 05/13/21 14:51 • (MS) R3654116-5 05/13/21 14:51 • (MSD) R3654116-6 05/13/21 14:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	0.500	0.115	0.560	0.582	89.0	93.4	1	80.0-120			3.85	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3661964-1 06/01/21 15:29

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
TOC (Total Organic Carbon)	<0.270		0.270	0.700

Laboratory Control Sample (LCS)

(LCS) R3661964-2 06/01/21 15:44

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
TOC (Total Organic Carbon)	10.0	9.99	99.9	90.0-110	

L1360001-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1360001-01 06/01/21 16:41 • (MS) R3661964-3 06/01/21 16:04 • (MSD) R3661964-4 06/01/21 16:23

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	4.06	13.8	13.6	97.4	95.6	1	80.0-120			1.31	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1347590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347590-01 05/11/21 10:34 • (DUP) R3652872-2 05/11/21 10:34

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	6.76	7.16	1	5.75		20

Sample Narrative:

OS: 6.76 at 26.1C

DUP: 7.16 at 22.4C

Laboratory Control Sample (LCS)

(LCS) R3652872-1 05/11/21 10:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	6.00	5.98	99.7	99.0-101	

Sample Narrative:

LCS: 5.98 at 20.2C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3653904-1 05/13/21 07:17

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
BOD	<2.00		2.00	2.00

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/13/21 07:28 • (DUP) R3653904-3 05/13/21 07:31

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
BOD	<2.00	<2.00	1	0		20

Laboratory Control Sample (LCS)

(LCS) R3653904-2 05/13/21 07:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
BOD	198	175	88.5	85-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3660648-1 05/28/21 16:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	<0.0000450		0.0000450	0.000200

Laboratory Control Sample (LCS)

(LCS) R3660648-2 05/28/21 16:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00250	0.00255	102	85.0-115	

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/28/21 16:24 • (MS) R3660648-3 05/28/21 16:20 • (MSD) R3660648-4 05/28/21 16:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00250	<0.000200	0.00261	0.00262	104	105	1	70.0-130			0.382	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3654995-1 05/15/21 13:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silicon	<0.0771		0.0771	0.200

Laboratory Control Sample (LCS)

(LCS) R3654995-2 05/15/21 13:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silicon	1.00	0.976	97.6	85.0-115	

L1349104-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349104-15 05/15/21 13:08 • (MS) R3654995-4 05/15/21 13:13 • (MSD) R3654995-5 05/15/21 13:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silicon	1.00	6.16	7.52	7.53	137	138	1	70.0-130	V	V	0.136	20

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/15/21 13:18 • (MS) R3654995-6 05/15/21 13:21 • (MSD) R3654995-7 05/15/21 13:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silicon	1.00	5.94	7.05	6.87	112	93.6	1	70.0-130			2.57	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3661513-1 05/28/21 17:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	<0.0353		0.0353	0.500
Antimony	<0.00242		0.00242	0.0250
Arsenic	<0.00418		0.00418	0.0200
Barium	<0.000490		0.000490	0.0100
Beryllium	0.000660	⌋	0.000180	0.00100
Boron	<0.0186		0.0186	0.100
Cadmium	0.000383	⌋	0.000350	0.00500
Calcium	<0.0496		0.0496	1.00
Chromium	<0.000710		0.000710	0.00700
Cobalt	0.00101	⌋	0.000680	0.00250
Copper	<0.00364		0.00364	0.0200
Iron	<0.0303		0.0303	0.500
Lead	<0.00312		0.00312	0.0100
Magnesium	<0.0434		0.0434	1.00
Manganese	<0.00557		0.00557	0.0500
Nickel	<0.00358		0.00358	0.0100
Potassium	<0.0939		0.0939	1.00
Selenium	<0.00500		0.00500	0.0200
Silver	<0.000990		0.000990	0.00500
Sodium	<0.178		0.178	1.00
Strontium	0.000754	⌋	0.000210	0.00500
Zinc	<0.0106		0.0106	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3661513-2 05/28/21 17:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	10.0	10.3	103	85.0-115	
Antimony	1.00	1.04	104	85.0-115	
Arsenic	1.00	1.01	101	85.0-115	
Barium	1.00	1.00	100	85.0-115	
Beryllium	1.00	1.02	102	85.0-115	
Boron	1.00	1.01	101	85.0-115	
Cadmium	1.00	1.03	103	85.0-115	
Calcium	10.0	10.2	102	85.0-115	
Chromium	1.00	1.03	103	85.0-115	
Cobalt	1.00	1.06	106	85.0-115	
Copper	1.00	1.03	103	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R3661513-2 05/28/21 17:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iron	10.0	10.3	103	85.0-115	
Lead	1.00	1.07	107	85.0-115	
Magnesium	10.0	10.3	103	85.0-115	
Manganese	1.00	1.02	102	85.0-115	
Nickel	1.00	1.05	105	85.0-115	
Potassium	10.0	10.3	103	85.0-115	
Selenium	1.00	1.03	103	85.0-115	
Silver	0.500	0.508	102	85.0-115	
Sodium	10.0	10.3	103	85.0-115	
Strontium	1.00	1.01	101	85.0-115	
Zinc	1.00	1.01	101	85.0-115	

L1354040-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1354040-01 05/28/21 17:34 • (MS) R3661513-3 05/28/21 17:18 • (MSD) R3661513-4 05/28/21 17:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Aluminum	10.0	<0.500	10.9	10.8	106	105	1	70.0-130			0.461	20
Antimony	1.00	<0.0250	1.07	1.07	107	107	1	70.0-130			0.280	20
Arsenic	1.00	<0.0200	1.05	1.05	105	105	1	70.0-130			0.666	20
Barium	1.00	0.195	1.22	1.23	103	103	1	70.0-130			0.572	20
Beryllium	1.00	<0.00100	1.05	1.06	105	106	1	70.0-130			0.946	20
Boron	1.00	<0.100	1.08	1.08	103	103	1	70.0-130			0.000	20
Cadmium	1.00	<0.00500	1.05	1.06	105	106	1	70.0-130			0.474	20
Calcium	10.0	69.3	78.7	80.1	94.0	107	1	70.0-130			1.66	20
Chromium	1.00	0.0323	1.07	1.09	104	106	1	70.0-130			2.41	20
Cobalt	1.00	<0.00250	1.06	1.07	106	107	1	70.0-130			1.13	20
Copper	1.00	<0.0200	1.06	1.06	105	106	1	70.0-130			0.377	20
Iron	10.0	<0.500	10.5	10.5	105	105	1	70.0-130			0.381	20
Lead	1.00	<0.0100	1.06	1.06	105	106	1	70.0-130			0.471	20
Magnesium	10.0	<1.00	11.2	11.2	105	106	1	70.0-130			0.715	20
Manganese	1.00	<0.0500	1.02	1.04	102	104	1	70.0-130			1.65	20
Nickel	1.00	<0.0100	1.05	1.06	105	105	1	70.0-130			0.665	20
Potassium	10.0	18.6	29.0	29.2	104	106	1	70.0-130			0.722	20
Selenium	1.00	<0.0200	1.07	1.07	107	107	1	70.0-130			0.374	20
Silver	0.500	<0.00500	0.522	0.533	104	107	1	70.0-130			1.99	20
Sodium	10.0	26.5	36.8	37.3	103	108	1	70.0-130			1.40	20
Strontium	1.00	0.737	1.77	1.79	103	105	1	70.0-130			1.12	20
Zinc	1.00	<0.0250	1.01	1.03	101	103	1	70.0-130			1.18	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1354047-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1354047-01 05/28/21 17:37 • (MS) R3661513-5 05/28/21 17:26 • (MSD) R3661513-6 05/28/21 17:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	<0.500	10.3	10.5	101	103	1	70.0-130			1.73	20
Antimony	1.00	<0.0250	1.04	1.04	104	104	1	70.0-130			0.0959	20
Arsenic	1.00	<0.0200	1.01	1.01	101	101	1	70.0-130			0.0989	20
Barium	1.00	0.0276	1.03	1.04	100	101	1	70.0-130			0.967	20
Beryllium	1.00	<0.00100	1.02	1.03	102	103	1	70.0-130			1.07	20
Boron	1.00	<0.100	1.04	1.05	99.2	100	1	70.0-130			1.06	20
Cadmium	1.00	<0.00500	1.02	1.02	102	102	1	70.0-130			0.0978	20
Calcium	10.0	18.2	27.7	28.0	94.3	97.3	1	70.0-130			1.08	20
Chromium	1.00	<0.00700	1.03	1.03	102	103	1	70.0-130			0.681	20
Cobalt	1.00	<0.00250	1.06	1.06	106	106	1	70.0-130			0.000	20
Copper	1.00	<0.0200	1.03	1.04	103	104	1	70.0-130			1.26	20
Iron	10.0	<0.500	10.2	10.4	102	103	1	70.0-130			1.55	20
Lead	1.00	<0.0100	1.05	1.05	105	105	1	70.0-130			0.0954	20
Magnesium	10.0	2.13	12.2	12.4	101	103	1	70.0-130			1.54	20
Manganese	1.00	<0.0500	1.01	1.02	100	101	1	70.0-130			0.989	20
Nickel	1.00	<0.0100	1.04	1.05	104	105	1	70.0-130			0.287	20
Potassium	10.0	3.00	13.1	13.2	101	102	1	70.0-130			1.14	20
Selenium	1.00	<0.0200	1.04	1.04	103	104	1	70.0-130			0.192	20
Silver	0.500	<0.00500	0.509	0.512	102	102	1	70.0-130			0.647	20
Sodium	10.0	5.08	15.2	15.4	101	103	1	70.0-130			0.982	20
Strontium	1.00	0.419	1.42	1.43	99.9	101	1	70.0-130			0.773	20
Zinc	1.00	<0.0250	1.01	1.02	101	102	1	70.0-130			0.590	20

1
Cp

2
Tc

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Qc

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Gl

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Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

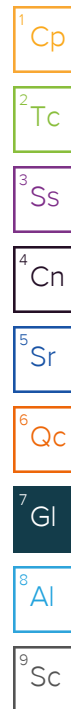
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-20-32
Iowa	408	Oklahoma	8727
Louisiana	30686		

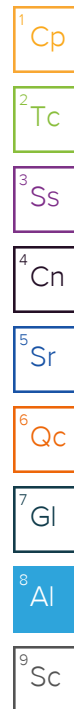
Pace Analytical Services, LLC -Dallas 2657 Gravel Dr Ft. Worth, TX 76118

Texas	T104704232-20-32
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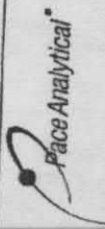
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Olivia's turn 5/12/94

	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☐ Dallas ☒ Ft Worth ☐ Corpus Christi ☐ Austin

Client Name: Peloton Land Solutions Project Work order (place label): L134954S
 Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☒ LSO ☐ PACE ☐ Other: _____
 Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☒
 Received on ice: Wet ☒ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: FWTM03

Receiving Lab 2 Thermometer Used: 3416 Cooler Temp °C: 9.9 (Recorded) 0 (Correction Factor) 9.9 (Actual)
 Cooler Temp °C: 3.6 (Recorded) 0 (Correction Factor) 3.6 (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable
 Triage Person: CC Date: 5-7-21

Chain of Custody relinquished	
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Login Person: RT Date: 5/7/21

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
pH Strips: <u>937116</u>	
Residual Chlorine Present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Cl Strips: _____	
Sulfide Present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Lead Acetate Strips: _____	
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Project sampled in USDA Regulated Area outside of Texas	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
State Sampled: _____	
Non-Conformance(s):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Labeling Person (if different than log-in): _____ Date: _____

ATTACHMENT 9

Accounting Plan and Accounting Plan Summary

ACCOUNTING PLAN
Dove Pond (Golf Course Pond)
November 29, 2021

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 45 acre-feet of supplemental water for the use of irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

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:

$$\text{Groundwater} = \text{Evaporation Losses} + \text{Diversion from Irrigation}$$

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, 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. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 20120, calculated monthly, as published by the Texas Water Development Board. 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 groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.

2. Monthly Tabs (JAN through DEC) – the applicant will enter daily readings of groundwater discharge.
3. EVAP DATA Tab – default evaporation rates.
4. TWDB PAN LAKE FACTOR Tab – data from the TWDB for Monthly Pan Coefficients.
5. TWDB EVAP Tab – data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

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 G) and 14 rows. The columns in the table are as follows:

	A	B	C	D	E	F	G
1	Dove Pond (Golf Course Pond)						
2	Water Accounting Record						
3	Annual Tab						
4							
5							
6	Year						
7							
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
9	January	0.00	0.00	1.24	1.24	1.24	1.24
10	February	0.00	0.00	1.68	1.68	1.68	1.68
11	March	0.00	0.00	2.48	2.48	2.48	2.48
12	April	0.00	0.00	3.30	3.30	3.30	3.30
13	May	0.00	0.00	3.72	3.72	3.72	3.72
14	June	0.00	0.00	4.50	4.50	4.50	4.50
15	July	0.00	0.00	5.27	5.27	5.27	5.27
16	August	0.00	0.00	4.65	4.65	4.65	4.65
17	September	0.00	0.00	3.60	3.60	3.60	3.60
18	October	0.00	0.00	2.79	2.79	2.79	2.79
19	November	0.00	0.00	1.80	1.80	1.80	1.80
20	December	0.00	0.00	1.24	1.24	1.24	1.24
21	Total	0.00	0.00	36.27	36.27	36.27	36.27
22							

<u>Column A</u>	<u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.
<u>Column B</u>	<u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell B41, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column C</u>	<u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C41, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column D</u>	<u>Default Evaporation (ac-ft).</u> Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell D41, which is a conversion of the Sum of Column E "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)
<u>Column E</u>	<u>Calculated Net Inflow (ac-ft).</u> Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell E41, which is a conversion of the Sum of Column F "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column F</u>	<u>Depleted Net Inflow (ac-ft).</u> Contains the monthly depleted net inflows in acre-feet. (This number comes from Cell H41, which is a conversion of the Sum of Column G "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).
<u>Column G</u>	<u>Supplemental Groundwater Release (ac-ft).</u> Contains the monthly supplemental groundwater release in acre-feet. (This number comes from Cell I41, which is a conversion of the Sum of Column H "Supplemental Groundwater Release (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

	A	B	C
1			
2			
3			
4			
5			
6			Lake Surface Area (acres)
7			Pan Factor
8			
	Day	Diversion Volume (gal)	Groundwater Volume (gal)
9			
10	1		
11	2		

Column D Default Evaporation Rate (in). This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)" of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

Column E Default Evaporation (ac-ft). Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column D to feet and multiplying it by the total surface area of the lake in cell D6 (Column D "Default Evaporation Rate (in)" divided by 12, to convert to feet, multiplied by D6 Lake Surface Area (acres). **No data entry is required by the applicant.**

Column F Default Evaporation (gal). Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325851 gallons per acre-foot. **No data entry is required by the applicant.**

Column G Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the diversion volume (Column B) from groundwater inflow to the lake (Column C) and then subtracting the sum from the default evaporation (Column F). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column F "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal)" – Column B "Diversion Volume (gal).") **No data entry is required by the applicant.**

Column H Depleted Net Inflow (gal). The depleted net inflow is the positive calculated net inflow from Column G. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column G "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

Column I Supplemental Groundwater Release (gal). The supplemental groundwater release (gal) (Column I) is the sum of the depleted net inflow (gal) (Column H). The applicant should review these numbers biweekly in December, January, and February (i.e., winter months) when evapotranspiration rates are typically low. For

the remainder of the year (i.e., spring and summer months), the applicant should review these numbers on a weekly basis when evapotranspiration rates typically are higher. Equations to sum the amount of supplemental groundwater released on a biweekly/weekly basis are included in the appropriate locations in the Monthly Tabs. Reviewing on a biweekly/weekly basis will give the applicant the opportunity to determine if an adequate amount of groundwater is being discharged, and if not, supplemental groundwater volumes can be provided into the system to meet the requirement of the permit.

If a positive number is present in the supplemental groundwater release (gal) (Column IH), then the applicant needs to increase the volume of groundwater on future releases that month to reduce the values in Column H to zero. Discharges of supplemental groundwater volumes should be recorded in Column B, and a note with the amount would be included in Comments (Column J). **Applicant to review supplemental groundwater number. Record a supplemental groundwater discharges and enter the amount of water (in gallons) discharged into the pond in Column C. Supplemental groundwater discharges to be combined with normal groundwater volume discharges.**

N	Supplemental Groundwater Release (gal)

Column J Comments. This Column allows the applicant to enter any relevant notes and observations. **Applicant to enter comments daily.**

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. 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. **There are no adjustments to be made to this tab by the applicant.**

	A	B	C	D	E
1	Dove Pond (Golf Course Pond)				
2	Water Accounting Record				
3	Evap Data Tab				
4					
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

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. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

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 C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

Column E Pan Factor. The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant)
The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1			Dove Pond (Golf Course Pond)												
2			Water Accounting Record												
3			TWDB Pan Lake Factor Tab												
4			TWDB Link												
5			https://waterdatafortexas.org/lake-evaporation-rainfall												
6															
7			Texas Water Development Board												
8			Monthly Pan Factor Used in Evap												
9	Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
61	410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
62	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
63	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
64	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
65	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
66	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
67	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
68	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
69	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
70	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
71	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
72	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
73	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
74	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
75	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
76	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, <https://waterdatafortexas.org/lake-evaporation-rainfall>).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
66	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
69	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percentile:		2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

**Dove Pond (Golf Course Pond)
Water Accounting Record
Annual Tab**

Year		
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Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	1.24	1.24
February	0.00	0.00	1.68	1.68	1.68	1.68
March	0.00	0.00	2.48	2.48	2.48	2.48
April	0.00	0.00	3.30	3.30	3.30	3.30
May	0.00	0.00	3.72	3.72	3.72	3.72
June	0.00	0.00	4.50	4.50	4.50	4.50
July	0.00	0.00	5.27	5.27	5.27	5.27
August	0.00	0.00	4.65	4.65	4.65	4.65
September	0.00	0.00	3.60	3.60	3.60	3.60
October	0.00	0.00	2.79	2.79	2.79	2.79
November	0.00	0.00	1.80	1.80	1.80	1.80
December	0.00	0.00	1.24	1.24	1.24	1.24
Total	0.00	0.00	36.27	36.27	36.27	36.27

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record January - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.73											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J
1	Dove Pond (Golf Course Pond) Water Accounting Record February - Monthly Tab									
2										
3										
4										
5										
6										
7										
8										
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
10	1			0.15	0.06	19,551	19,551	19,551		
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19,551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record March - Monthly Tab </div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.69</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.21	0.08	26,068	26,068	26,068				
11	2			0.21	0.08	26,068	26,068	26,068				
12	3			0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068				
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21	0.08	26,068	26,068	26,068				
27	18			0.21	0.08	26,068	26,068	26,068				
28	19			0.21	0.08	26,068	26,068	26,068				
29	20			0.21	0.08	26,068	26,068	26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182,476			
31	22			0.21	0.08	26,068	26,068	26,068				
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068				
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48	2.48	2.48			
42	Total (gal)	0	0	848,516	808,110	808,108	808,108	808,108	808,108			

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record April - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.67											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.27	0.11	35,844	35,844	35,844				
11	2			0.27	0.11	35,844	35,844	35,844				
12	3			0.27	0.11	35,844	35,844	35,844				
13	4			0.27	0.11	35,844	35,844	35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844				
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29	20			0.27	0.11	35,844	35,844	35,844				
30	21			0.27	0.11	35,844	35,844	35,844	250,908			
31	22			0.27	0.11	35,844	35,844	35,844				
32	23			0.27	0.11	35,844	35,844	35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844				
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30	3.30	3.30			
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320	1,075,320			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record May - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.60											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.29	0.12	39,102	39,102	39,102				
11	2			0.29	0.12	39,102	39,102	39,102				
12	3			0.29	0.12	39,102	39,102	39,102				
13	4			0.29	0.12	39,102	39,102	39,102				
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102				
16	7			0.29	0.12	39,102	39,102	39,102	273,714			
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102				
21	12			0.29	0.12	39,102	39,102	39,102				
22	13			0.29	0.12	39,102	39,102	39,102				
23	14			0.29	0.12	39,102	39,102	39,102	273,714			
24	15			0.29	0.12	39,102	39,102	39,102				
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102				
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714			
31	22			0.29	0.12	39,102	39,102	39,102				
32	23			0.29	0.12	39,102	39,102	39,102				
33	24			0.29	0.12	39,102	39,102	39,102				
34	25			0.29	0.12	39,102	39,102	39,102				
35	26			0.29	0.12	39,102	39,102	39,102				
36	27			0.29	0.12	39,102	39,102	39,102				
37	28			0.29	0.12	39,102	39,102	39,102	273,714			
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102				
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72	3.72	3.72			
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record June - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.67											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.37	0.15	48,878	48,878	48,878				
11	2			0.37	0.15	48,878	48,878	48,878				
12	3			0.37	0.15	48,878	48,878	48,878				
13	4			0.37	0.15	48,878	48,878	48,878				
14	5			0.37	0.15	48,878	48,878	48,878				
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19	10			0.37	0.15	48,878	48,878	48,878				
20	11			0.37	0.15	48,878	48,878	48,878				
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
29	20			0.37	0.15	48,878	48,878	48,878				
30	21			0.37	0.15	48,878	48,878	48,878	342,146			
31	22			0.37	0.15	48,878	48,878	48,878				
32	23			0.37	0.15	48,878	48,878	48,878				
33	24			0.37	0.15	48,878	48,878	48,878				
34	25			0.37	0.15	48,878	48,878	48,878				
35	26			0.37	0.15	48,878	48,878	48,878				
36	27			0.37	0.15	48,878	48,878	48,878				
37	28			0.37	0.15	48,878	48,878	48,878	342,146			
38	29			0.37	0.15	48,878	48,878	48,878				
39	30			0.37	0.15	48,878	48,878	48,878	97,756			
40												
41	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50	4.50	4.50			
42	Total (gal)	0	0	1,446,778	1,466,330	1,466,340	1,466,340	1,466,340	1,466,340			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record July - Monthly Tab </div> <div> <div>Lake Surface Area (acres)4.80</div> <div>Pan Factor0.69</div> </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.42	0.17	55,395	55,395	55,395				
11	2			0.42	0.17	55,395	55,395	55,395				
12	3			0.42	0.17	55,395	55,395	55,395				
13	4			0.42	0.17	55,395	55,395	55,395				
14	5			0.42	0.17	55,395	55,395	55,395				
15	6			0.42	0.17	55,395	55,395	55,395				
16	7			0.42	0.17	55,395	55,395	55,395	387,765			
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395				
21	12			0.42	0.17	55,395	55,395	55,395				
22	13			0.42	0.17	55,395	55,395	55,395				
23	14			0.42	0.17	55,395	55,395	55,395	387,765			
24	15			0.42	0.17	55,395	55,395	55,395				
25	16			0.42	0.17	55,395	55,395	55,395				
26	17			0.42	0.17	55,395	55,395	55,395				
27	18			0.42	0.17	55,395	55,395	55,395				
28	19			0.42	0.17	55,395	55,395	55,395				
29	20			0.42	0.17	55,395	55,395	55,395				
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395				
32	23			0.42	0.17	55,395	55,395	55,395				
33	24			0.42	0.17	55,395	55,395	55,395				
34	25			0.42	0.17	55,395	55,395	55,395				
35	26			0.42	0.17	55,395	55,395	55,395				
36	27			0.42	0.17	55,395	55,395	55,395				
37	28			0.42	0.17	55,395	55,395	55,395	387,765			
38	29			0.42	0.17	55,395	55,395	55,395				
39	30			0.42	0.17	55,395	55,395	55,395				
40	31			0.42	0.17	55,395	55,395	55,395	166,185			
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27	5.27	5.27			
42	Total (gal)	0	0	1,697,032	1,717,235	1,717,245	1,717,245	1,717,245	1,717,245			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record August - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.7 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878				
12	3			0.38	0.15	48,878	48,878	48,878				
13	4			0.38	0.15	48,878	48,878	48,878				
14	5			0.38	0.15	48,878	48,878	48,878				
15	6			0.38	0.15	48,878	48,878	48,878				
16	7			0.38	0.15	48,878	48,878	48,878	342,146			
17	8			0.38	0.15	48,878	48,878	48,878				
18	9			0.38	0.15	48,878	48,878	48,878				
19	10			0.38	0.15	48,878	48,878	48,878				
20	11			0.38	0.15	48,878	48,878	48,878				
21	12			0.38	0.15	48,878	48,878	48,878				
22	13			0.38	0.15	48,878	48,878	48,878				
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878				
27	18			0.38	0.15	48,878	48,878	48,878				
28	19			0.38	0.15	48,878	48,878	48,878				
29	20			0.38	0.15	48,878	48,878	48,878				
30	21			0.38	0.15	48,878	48,878	48,878	342,146			
31	22			0.38	0.15	48,878	48,878	48,878				
32	23			0.38	0.15	48,878	48,878	48,878				
33	24			0.38	0.15	48,878	48,878	48,878				
34	25			0.38	0.15	48,878	48,878	48,878				
35	26			0.38	0.15	48,878	48,878	48,878				
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146			
38	29			0.38	0.15	48,878	48,878	48,878				
39	30			0.38	0.15	48,878	48,878	48,878				
40	31			0.38	0.15	48,878	48,878	48,878	146,634			
41	Total (ac-ft)	0.00	0.00	4.71	4.65	4.65	4.65	4.65	4.65			
42	Total (gal)	0	0	1,535,410	1,515,207	1,515,218	1,515,218	1,515,218	1,515,218			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record September - Monthly Tab </div> <div> <div>Signed: _____</div> <div>Date: _____</div> </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.30	0.12	39,102	39,102	39,102				
11	2			0.30	0.12	39,102	39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102	39,102	273,714			
17	8			0.30	0.12	39,102	39,102	39,102				
18	9			0.30	0.12	39,102	39,102	39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27	18			0.30	0.12	39,102	39,102	39,102				
28	19			0.30	0.12	39,102	39,102	39,102				
29	20			0.30	0.12	39,102	39,102	39,102				
30	21			0.30	0.12	39,102	39,102	39,102	273,714			
31	22			0.30	0.12	39,102	39,102	39,102				
32	23			0.30	0.12	39,102	39,102	39,102				
33	24			0.30	0.12	39,102	39,102	39,102				
34	25			0.30	0.12	39,102	39,102	39,102				
35	26			0.30	0.12	39,102	39,102	39,102				
36	27			0.30	0.12	39,102	39,102	39,102				
37	28			0.30	0.12	39,102	39,102	39,102	273,714			
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204			
40												
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60	3.60	3.60			
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060	1,173,060			

	A	B	C	D	E	F	G	H	I	J	K	L
1	Dove Pond (Golf Course Pond) Water Accounting Record October - Monthly Tab											
2												
3												
4												
5												
6	Lake Surface Area (acres) 4.80											
7	Pan Factor 0.77											
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.22	0.09	29,327	29,327	29,327				
11	2			0.22	0.09	29,327	29,327	29,327				
12	3			0.22	0.09	29,327	29,327	29,327				
13	4			0.22	0.09	29,327	29,327	29,327				
14	5			0.22	0.09	29,327	29,327	29,327				
15	6			0.22	0.09	29,327	29,327	29,327				
16	7			0.22	0.09	29,327	29,327	29,327	205,289			
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327				
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22	0.09	29,327	29,327	29,327				
22	13			0.22	0.09	29,327	29,327	29,327				
23	14			0.22	0.09	29,327	29,327	29,327	205,289			
24	15			0.22	0.09	29,327	29,327	29,327				
25	16			0.22	0.09	29,327	29,327	29,327				
26	17			0.22	0.09	29,327	29,327	29,327				
27	18			0.22	0.09	29,327	29,327	29,327				
28	19			0.22	0.09	29,327	29,327	29,327				
29	20			0.22	0.09	29,327	29,327	29,327				
30	21			0.22	0.09	29,327	29,327	29,327	205,289			
31	22			0.22	0.09	29,327	29,327	29,327				
32	23			0.22	0.09	29,327	29,327	29,327				
33	24			0.22	0.09	29,327	29,327	29,327				
34	25			0.22	0.09	29,327	29,327	29,327				
35	26			0.22	0.09	29,327	29,327	29,327				
36	27			0.22	0.09	29,327	29,327	29,327				
37	28			0.22	0.09	29,327	29,327	29,327	205,289			
38	29			0.22	0.09	29,327	29,327	29,327				
39	30			0.22	0.09	29,327	29,327	29,327				
40	31			0.22	0.09	29,327	29,327	29,327	87,981			
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79	2.79	2.79			
42	Total (gal)	0	0	888,922	909,124	909,137	909,137	909,137	909,137			

Signed: _____
Date: _____

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record November - Monthly Tab </div> <div> Lake Surface Area (acres) 4.80 Pan Factor 0.8 </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551				
12	3			0.15	0.06	19,551	19,551	19,551				
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06	19,551	19,551	19,551				
15	6			0.15	0.06	19,551	19,551	19,551				
16	7			0.15	0.06	19,551	19,551	19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551				
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551				
21	12			0.15	0.06	19,551	19,551	19,551				
22	13			0.15	0.06	19,551	19,551	19,551				
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551				
28	19			0.15	0.06	19,551	19,551	19,551				
29	20			0.15	0.06	19,551	19,551	19,551				
30	21			0.15	0.06	19,551	19,551	19,551	136,857			
31	22			0.15	0.06	19,551	19,551	19,551				
32	23			0.15	0.06	19,551	19,551	19,551				
33	24			0.15	0.06	19,551	19,551	19,551				
34	25			0.15	0.06	19,551	19,551	19,551				
35	26			0.15	0.06	19,551	19,551	19,551				
36	27			0.15	0.06	19,551	19,551	19,551				
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40												
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80	1.80	1.80			
42	Total (gal)	0	0	586,532	586,532	586,530	586,530	586,530	586,530			

	A	B	C	D	E	F	G	H	I	J	K	L
1	<div> Dove Pond (Golf Course Pond) Water Accounting Record December - Monthly Tab </div> <div> Signed: _____ Date: _____ </div>											
2												
3												
4												
5												
6												
7												
8												
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034				
11	2			0.11	0.04	13,034	13,034	13,034				
12	3			0.11	0.04	13,034	13,034	13,034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034				
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Dove Pond (Golf Course Pond)
Water Accounting Record
Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Self Course Pond)
Water Accounting Record
TWDE Pan Lake Factor Tab
TWDB Link
<https://waterdataforwx.org/lake-usage/pan-lake/>

Texas Water Development Board Monthly Pan Factor Used in Engp													
Quad	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
512	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
513	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
514	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
601	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
607	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.71
612	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
613	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
614	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
702	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
709	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
712	0.74	0.72	0.72	0.71	0.66	0.71	0.72	0.72	0.74	0.77	0.78	0.77	0.72
713	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
714	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
812	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
814	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
904	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
905	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908	0.71	0.69	0.68	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
909	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1008	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
1009	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1010	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1011	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1012	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1014	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1101	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1103	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1106	0.7	0.67	0.66</										

Dove Pond (Golf Course Pond)
Water Accounting Record
TWDB Evap Tab

EVAP DATA SOURCE: <https://waterdatafortexas.org/lake-evaporation-rainfall>

Texas Water Development Board
Monthly lake surface evaporation in inches, annual total evaporation in inches

#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.86	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510	1955	2.02	2.52	4.45	5.85	6.12	7.12	8.94	8.03	7.05	6.39	4.92	2.92	66.33
510	1956	2.61	2.67	5.57	6.00	6.92	9.20	11.41	11.42	9.26	6.56	3.95	3.07	78.64
510	1957	2.03	1.86	3.21	3.03	3.72	6.29	9.21	9.45	6.06	3.91	2.22	2.91	53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.60	7.42	7.11	4.77	2.77	1.97	56.66
510	1962	1.61	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.39	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510	1965	2.35	2.22	2.92	4.89	3.49	6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510	1966	1.54	1.83	4.48	4.81	4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.56	5.75	5.78	6.03	8.19	8.99	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.88	2.84	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510	1974	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510	1975	2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	59.69
510	1976	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	3.25	2.14	2.28	52.97
510	1977	1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	5.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.94	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.95	56.54
510	1992	1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	5.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.79	6.95	4.82	4.22	3.75	3.38	53.73
510	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.21
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.12	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

75th Percentile: 2.48 2.95 4.53 5.40 5.39 7.38 9.04 8.35 6.57 5.14 3.52 2.74 60.22

