TCEQ Interoffice Memorandum

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

Thru: Chris Kozlowski, Team Leader
Water Rights Permitting Team

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

Date: January 24, 2022

Subject: North Fields Investment Partnership LP, Fields Preserve Investment Partners LP, VPTM Fields LB LLC, FHQ Development Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Midtown East Investment Partners LP
WRPERM 13779
CN605925734, CN605925742, CN605925767, CN605925775, CN605925809, CN605925833, CN605925817, RN111321576
Application No. 13779 for a Water Use Permit
Texas Water Code §§ 11.121, 11.042, Requiring Mailed and Published Notice
Unnamed tributary of Panther Creek, Trinity River Basin
Denton County

The application and fees were received on August 20, 2021. Additional information was received on October 29, 2021 and January 13, 2022. The application was declared administratively complete and filed with the Office of the Chief Clerk on January 24, 2022. Published and mailed notice to water rights holders of record in the Trinity River Basin and mailed notice to the Northern Trinity Groundwater Conservation District pursuant to Title 30 Texas Administrative Code §§ 295.151, 295.152, and 295.153.

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

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

OCC Mailed Notice Required X YES □NO

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 24, 2022

Mr. Kyle Dickey, PE, CFM **VIA E-MAIL**
Kimley-Horn and Associates, Inc.
6160 Warren Pkwy, Suite 210
Frisco, TX 75034

RE: North Fields Investment Partnership LP, Fields Preserve Investment Partners LP, VPTM Fields LB LLC, FHQ Development Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Midtown East Investment Partners LP
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Denton County

Dear Mr. Dickey:

This acknowledges receipt of additional information on January 13, 2022.

The application was declared administratively complete and filed with the Office of the Chief Clerk on January 24, 2022. Staff will continue processing the application for consideration by the Executive Director.

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

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

Sincerely,

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

From: Dickey, Kyle [redacted]
Sent: Thursday, January 13, 2022 2:58 PM
To: Sam Sewell <Sam.Sewell@Tceq.Texas.Gov>; Chris Kozlowski <chris.kozlowski@tceq.texas.gov>

Cc: Brooke McGregor <brooke.mcgregor@tceq.texas.gov>; Roger McInnis [redacted]; Hector Patino [redacted] Braswell, Trey [redacted]; Alderman, Nadia (Whitehouse) [redacted]
Subject: RE: FHQ Development Partners LP et. al 13779 RFI #2

Hello Chris,

I just received Sam's out of office response that he is on paternity leave, so I wanted to make sure you had our response. Will another project manager be able to review this resubmittal in Sam's absence?

Thanks,
Kyle

Kyle A. Dickey, P.E. (TX), CFM
Kimley-Horn | 6160 Warren Parkway, Suite 210, Frisco, TX 75034
Direct: 972 731 2187 | [redacted]

From: Dickey, Kyle
Sent: Thursday, January 13, 2022 2:55 PM
To: Sam Sewell <Sam.Sewell@Tceq.Texas.Gov>
Cc: Brooke McGregor [redacted]; Roger McInnis [redacted]; Hector Patino [redacted]; Braswell, Trey <[redacted]>; Alderman, Nadia (Whitehouse) <[redacted]>
Subject: RE: FHQ Development Partners LP et. al 13779 RFI #2

Good afternoon Sam,

Attached is our response to the RFI.

Thanks,
Kyle

Kyle A. Dickey, P.E. (TX), CFM
Kimley-Horn | 6160 Warren Parkway, Suite 210, Frisco, TX 75034

Direct: 972 731 2187 | www.kimley-horn.com

From: Sam Sewell <Sam.Sewell@Tceq.Texas.Gov>
Sent: Tuesday, December 14, 2021 1:38 PM
To: Dickey, Kyle [redacted]>
Subject: FHQ Development Partners LP et. al 13779 RFI #2

Mr. Kyle Dickey,

Please see the attached request for information for FHQ Development Partners LP et. Al 13779, please review and make comments by COB 1/13/2022.

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

Kimley»Horn

January 13, 2022

Sam Sewell
Project Manager Water Rights Permitting Team
Texas Commission on Environmental Quality
(512) 239-4008

RE: ***Response Letter to Comments (Dated December 14, 2021) for the Water Rights Permit, Application No. 13779***

Dear Mr. Sewell:

This letter is in response to comments we received from you on December 14th via e-mail. Our responses to the comments are below:

Comment 1: ***Provide evidence that an application for a groundwater well permit has been submitted to the North Texas Groundwater Conservation District or evidence that a permit is not required. Staff acknowledges that the application indicates that a groundwater well permit will be obtained prior to construction. However, in order to declare the application administratively complete, the application must demonstrate that the applicant has initiated the process of obtaining any required groundwater well permits.***

Response: The attached notice to proceed has been granted by the North Texas Groundwater Conservation District.

Comment 2: ***Provide an operational plan that identifies how groundwater from the three aquifers will support the application. In the plan, identify the discharge rates and discharge amounts for each well, the corresponding source aquifer, and indicate how the well to be used at any given day/time will be determined. Note, staff's preliminary analysis of the groundwater data provided has identified potential concerns with water quality from the proposed aquifers.***

Response: An operational plan for the proposed wells is attached. Two well groups are proposed. The first group will be located near Ponds 1-5 to replace water lost to evaporation and irrigation at those locations. This group of wells is proposed to utilize the Twin Mountains/Lower Trinity aquifer. The second group of wells is proposed to serve ponds 6 and 7. This group will utilize the Woodbine aquifer. We are reviewing the water quality note provided aand will provide a design that meets the state's requirements as the wells go through final design.

Comment 3: ***Provide the depth of wells 1 through 7 included on the discharge information sheets in the Applicant's RFI response dated October 12, 2021.***

Response: The wells provided to serve Ponds 1-5 will be drilled to a depth ranging from 1,850-2,500 feet. The wells provided to serve Ponds 6 and 7 will be drilled to a depth ranging from 400 to 750 feet.

If you have any additional comments or questions, please do not hesitate to contact me at (972) 731-2187 or kyle.dickey@kimley-horn.com.

Sincerely,

Kyle Dickey, P.E., CFM

NORTH TEXAS GROUNDWATER CONSERVATION DISTRICT
P.O. Box 508, Gainesville, TX 76241
5100 Airport Drive, Denison, TX 75020
Office: (855) 426-4433 | Fax: (903) 786-8211
ntgcd@northtexasgcd.org | www.northtexasgcd.org

Notice to Proceed

Issued Pursuant to District Rules 3.1 and 3.3(m)

FHQ Development Partners Test Hole #1

Registrant

FHQ Development Partners
1900 N. Akard Street
Dallas, TX 75201
[redacted]
(214) 978-8761

Well Information

Well Name: Fields No. 1
Latitude: 33.193412
Longitude: -96.852043
County: Denton
Driller: TBD
Driller Company: -
Capacity: 0 GPM

Registration Information

Submitted: 1/6/2022
Approved: 1/12/2022
Deadline: 240 Days
Expires: 9/9/2022
Proposed Use: Pond(s)/Other Impoundment, Landscape/Golf Course
Registration Type: Test Hole

Issuance of this Notice to Proceed grants only the approval required by the North Texas Groundwater Conservation District for drilling a new test hole in accordance with the District's rules and the registration application submitted. The recipient is solely responsible for obtaining any other necessary governmental approval. A test hole is an exploratory borehole that is drilled prior to further drilling and construction of a full diameter, cased well. Test holes are deep, small diameter borings drilled to only provide subsurface sand and gravel samples, and access for geophysical logging. Proceeding with a test hole into a water producing well requires prior approval by the District in accordance with District Rule 3.1. A plugging report shall be submitted to the District within 30 days of the date the test hole is plugged in accordance with District Rule 3.4(c). Under no circumstances should this test hole be drilled within 50' of the property line unless a variance has been approved by the District.

District Review: _____ *Signature*

District Approval: _____ *Signature*

Please submit the Completion Report and Well Report to the District by mail, fax or email:

North Texas Groundwater Conservation District
P.O. Box 508, Gainesville, TX 76241
Fax: (903) 786-8211 | [redacted]

If you have any questions, please call (855) 426-4433

Kimley»Horn

Well Operation Plan:

Brookside Wells: This section is for the wells that will serve Ponds 1-5

This well operation plan is to provide proper guidance of the usage of the two proposed Twin Mountain/Lower Trinity Aquifer groundwater wells for the Fields Development in Frisco, Texas.

A flotation sensor will be located in each pond to recognize water surface elevations. The flotation sensor will notify the groundwater wells to begin pumping if the water level were to drop. The pumps will run until the pond has returned to its normal level. Each discharge point will be equipped with a valve that will open when the flotation sensor dips below the normal level. We have calculated that the peak daily demand for evaporation replacement is 211,749 gallons and for irrigation replacement is 1,324,173 gallons. The maximum rate required to replace this water is 1,828 gallons per minute, which assumes the well is operating for 14 hours per day. The total annual volume of water to be replaced is 676.88 acre-feet.

Our aquifer investigation has determined that the aquifers can yield between 650-1,950 GPM in the Twin Mountain/Lower Trinity aquifer. Therefore, we are proposing two wells to serve the Brookside South Ponds.

North Fields Well: This section is for the well that will serve Ponds 6 and 7

This well operation plan is to provide proper guidance of the usage of the single proposed Woodbine Aquifer groundwater well.

A flotation sensor will be located in each pond to recognize water surface elevations. The flotation sensor will notify the groundwater wells to begin pumping if the water level were to drop. The pumps will run until the pond has returned to its normal level. Each discharge point will be equipped with a valve that will open when the flotation sensor dips below the normal level. We have calculated that the peak daily demand for evaporation replacement is 60,500 gallons and for irrigation replacement is 108,875 gallons. The maximum rate required to replace this water is 202 gallons per minute, which assumes the well is operating for 14 hours per day. The total annual volume of water to be replaced is 67.06 acre-feet.

Our aquifer investigation has determined that the aquifers can yield between 8-50 GPM in the Woodbine aquifer. Therefore, we are proposing 6 or 7 wells to serve the North Fields Ponds.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 14, 2021

Mr. Kyle Dickey, PE, CFM **VIA E-MAIL**
Kimley-Horn and Associates, Inc.
6160 Warren Pkwy, Suite 210
Frisco, TX 75034

RE: North Fields Investment Partnership LP, Fields Preserve Investment Partners LP, VPTM Fields LB LLC, FHQ Development Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Midtown East Investment Partners LP.
WRPERM 13779
CN605925734, CN605925742, CN605925767, CN605925775, CN605925809 CN605925833, CN605925817, RN111321576
Application No. 13779 for a Water Use Permit
Texas Water Code §§ 11.121, 11.042, Requiring Mailed and Published Notice
Unnamed tributary of Panther Creek, Trinity River Basin
Denton County

Dear Mr. Dickey:

This acknowledges receipt, on November 1, 2021, of additional information.

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

1. Provide evidence that an application for a groundwater well permit has been submitted to the North Texas Groundwater Conservation District or evidence that a permit is not required. Staff acknowledges that the application indicates that a groundwater well permit will be obtained prior to construction. However, in order to declare the application administratively complete, the application must demonstrate that the applicant has initiated the process of obtaining any required groundwater well permits.

2. Provide an operational plan that identifies how groundwater from the three aquifers will support the application. In the plan, identify the discharge rates and discharge amounts for each well, the corresponding source aquifer, and indicate how the well to be used at any given day/time will be determined. Note, staff's preliminary analysis of the groundwater data provided has identified potential concerns with water quality from the proposed aquifers.

3. Provide the depth of wells 1 through 7 included on the discharge information sheets in the Applicant's RFI response dated October 12, 2021.

Please provide the requested information by January 13, 2022, or the application may be returned pursuant to Title 30 Texas Administrative Code § 281.18.

If you have any questions concerning this matter, please contact me via email at 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

Kimley»Horn

October 29, 2021

Sam Sewell
Project Manager Water Rights Permitting Team
Texas Commission on Environmental Quality
(512) 239-4008

RE: ***Response Letter to Comments (Dated October 12, 2021) for the Water Rights Permit, Application No. 13779***

Dear Mr. Sewell:

This letter is in response to comments we received from you on October 12th via e-mail. Our responses to the comments are below:

Comment 1: ***Confirm that the application is requesting to discharge groundwater into the reservoirs to maintain the reservoirs and subsequently divert the discharged groundwater for irrigation purposes.***

Response: Confirmed.

Comment 2: ***Confirm that the total amount of water to be discharged annually (including evaporation losses) is 743.94 acre-feet.***

Response: Confirmed. A summary table has been included in this submittal and can be seen in the table below. The evaporation values come from the evaporation calculations performed for each pond can be seen below. The irrigation numbers come from the Ph2A Master Irrigation Report (Hines), the Annual NTGCD Allotment.

Annual Groundwater Volume	Evaporation(ac-ft)	Irrigation (ac-ft)	Total (ac-ft)
Discharge Point #1	19.72		19.72
Discharge Point #2	59.16	421.30	480.46
Discharge Point #3	38.08	108.02	146.10
Discharge Point #4	12.24		12.24
Discharge Point #5	18.36		18.36
Discharge Point #6	23.80	24.90	48.70
Discharge Point #7	18.36		18.36

Comment 3: ***Provide 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 needs.***

Response: The application only requests to discharge and subsequently divert groundwater. The amount of water diverted will not exceed the amount of water discharged, less losses, therefore there should be no changes to downstream instream flows or freshwater inflows.

Comment 4: ***Provide the name of the specific aquifer from which water will be withdrawn to support the application.***

Response: The Woodbine and Trinity aquifers will both be used. An updated Groundwater Availability Evaluation document is attached. Applicable updated application worksheets have been included as well.

Comment 5: ***Provide a copy of the groundwater well permit or evidence that a groundwater well permit is not required from the North Texas Groundwater Conservation District. Staff acknowledges that the application indicates that a groundwater well permit will be obtained prior to construction. However, in order to declare the application administratively complete, the application must demonstrate that the applicant is in the process of obtaining any required groundwater well permits.***

Response: Email correspondence with the groundwater conservation district is attached, indicating that that application is in process.

Comment 6: ***Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on any new diversion structure that is not already authorized in a water right). Refer to pages 28-29 from the Instructions for Completing the Water Right Permitting Application (Form TCEQ-10214A-inst) for assistance in developing your response.***

Response: In order to avoid impingement and entrainment of aquatic organisms, screens will be attached to all diversion points referred to in this application. The application will also not affect the flows remaining in the stream to meet instream uses and freshwater inflow requirements.

Comment 7: ***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)***

Response: Section 4.a of the Technical Information Report has now been added to the application.

If you have any additional comments or questions, please do not hesitate to contact me at (972) 731-2187 or k[redacted]

Sincerely,

Kyle Dickey, P.E., CFM

R W HARDEN &ASSOCIATES INC
GROUNDWATER RESOURCE PROFESSIONALS
9009 Mountain Ridge Dr • Suite 100 • Austin Texas 78759 • ph (512) 345-2379 • fax (512) 338-9372

October 21, 2020

Todd Watson
FHQ Holdings, LP
1900 North Akard St.
Dallas, Texas 75201

Re: Groundwater Availability Evaluation: Brookside-Frisco, Collin/Denton Counties, Texas

Dear Mr. Watson,

R.W. Harden & Associates (RWH&A) has completed an evaluation of the groundwater resources beneath the Brookside-Frisco development in Collin and Denton counties, Texas. This study focused on estimating the availability of groundwater supplies for various uses including landscape irrigation and/or replenishment of evaporative losses from planned surface water impoundments. Based on information provided by Kimley-Horn and Associates, Inc., it is estimated that average annual needs from the system will be approximately 1,200 acre-feet, while the peak daily demand will be about 1,800 gallons per minute (gpm).

Our review consisted of compilation and analyses of available well construction records, water level and water quality records within a five-mile radius of Brookside-Frisco, the Groundwater Availability Model (GAM) for the Northern Trinity-Woodbine aquifers maintained by the Texas Water Development Board (TWDB), documents disseminated by Groundwater Management Area No. 8 (GMA-8), and the rules and management plan promulgated by the North Texas Groundwater Conservation District (NTGCD).

Target Aquifers

The evaluation results indicate the presence of two target aquifers beneath the Brookside-Frisco development: the Woodbine and Trinity. These aquifers are subdivided into three zones from shallowest to deepest: the Woodbine, Trinity-Paluxy (Paluxy), and Trinity-Twin Mountains (Twin Mountains) aquifers. Figure 1 shows the project location and the neighboring wells referenced in this report. Figure 2 consists of a generalized cross-sectional diagram of the aquifer zones beneath Brookside-Frisco. The Woodbine occurs from about 350 to 700 feet below ground level (bgl). The Paluxy is present from about 1,200 to 1,500 feet bgl, and the Twin Mountains lies from about 1,850 to 2,450 feet bgl at the site. These aquifers dip toward the east-southeast at approximately 50-100 feet per mile and receive recharge through infiltration of precipitation in northeast-southwest trending outcrop areas to the northwest. The Woodbine outcrop is approximately five miles to the northwest, while the outcrop of the Paluxy and the Twin Mountains are about 15 to 25 miles farther northwest, respectively.

Figure 1. TWDB-inventoried Wells within a 5 Mile Radius of Brookside-Frisco

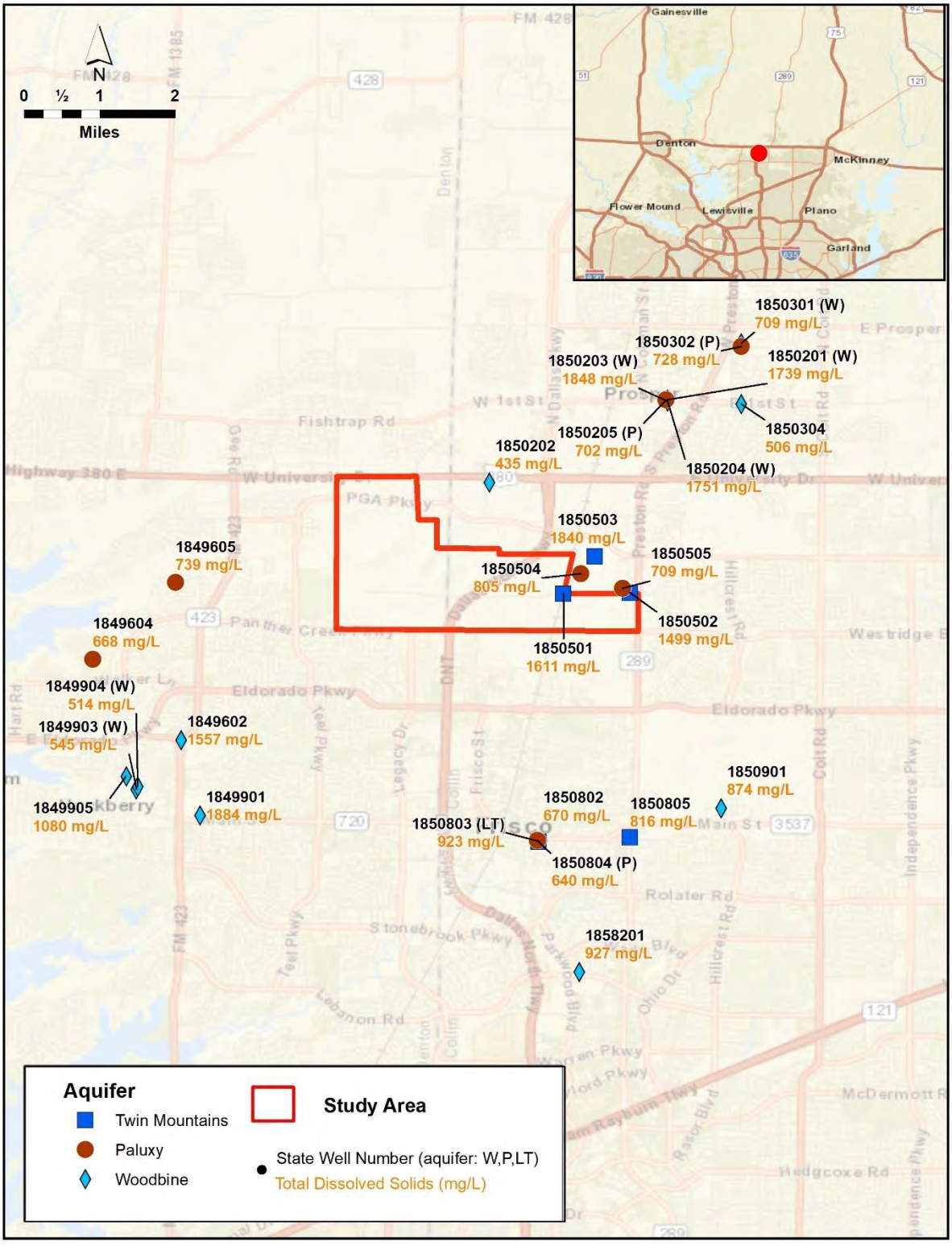
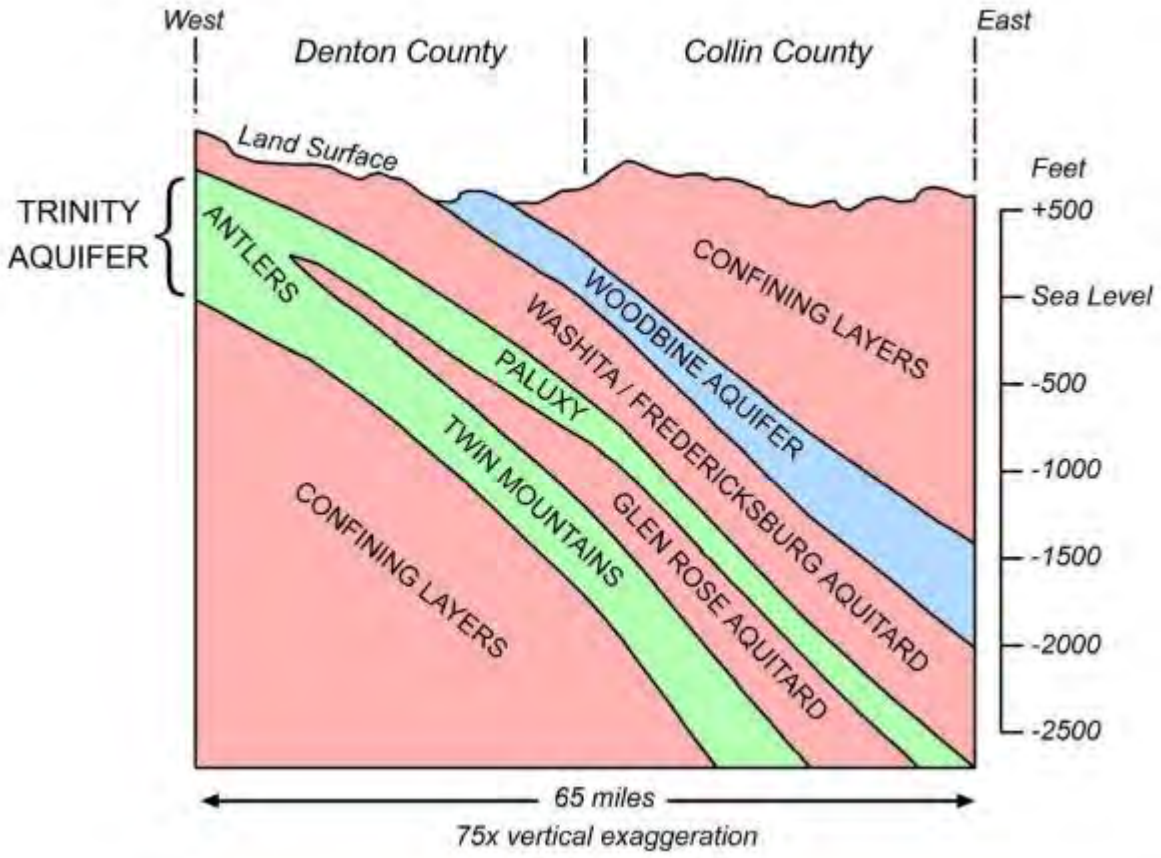


Figure 2. Schematic Cross Section of the Aquifers Underlying Brookside-Frisco (from North Texas Groundwater Conservation District 2017 Management Plan)



Water Quality

Table 1 lists the concentrations for some of the commonly reported chemical constituents and parameters from the three target aquifers within approximately five miles of Brookside-Frisco, as reported in the groundwater well information database maintained by the TWDB. Water quality analyses indicate that water produced from the Woodbine and Twin Mountains aquifers exceeds Texas Commission on Environmental Quality (TCEQ) secondary drinking water standards for some constituents. The TCEQ regulates public supply water quality using a defined set of primary and secondary drinking water standards for certain water quality constituents. Constituent concentrations above primary drinking water standards are considered a health hazard and must be treated to bring the levels below the specified limits prior to use as a potable public supply. Secondary standards are not considered a public hazard but represent an aesthetic nuisance. If elevated secondary constituents are not treated, approval from TCEQ must be granted before the water can be used for public supplies. Please note that, while it is informative to compare the chemical composition of the groundwater contained in the target aquifers with TCEQ standards for public supplies, groundwater produced for non-potable uses is not regulated by the TCEQ.

Table 1. Regional Water Quality

Woodbine Water Quality											
State Well Number	pH	Temp (°C)	Calcium (mg/L)	Sodium (mg/L)	Magnesium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	TDS (mg/L)	SAR
1849602	8.7		3.0	600	1 0	759	23	288	256	1,557	77
1849901	8.0		6.0	710	2 0	757	0	408	370	1,884	64
1849903	8.6		1.0	214	1 0	428	10	67	28	545	36
1849904	8.7		1.0	204	1 0	426	11	54	21	514	35
1849905	8.6		1.0	433	1 0	781	18	114	117	1,080	73
1850201	8.5		4.0	680	1 0	876	19	320	280	1,739	79
1850202	8.4		0.6	175	0.1	384	2	42	12	435	54
1850203	8.5		12.0	697	7 0	903	0	340	313	1,848	40
1850204	8.1		8.0	683	1 0	936	0	328	320	1,751	84
1850301	8.7	31.8	0.4	170	0 3	513	44	46	16	709	53
1850304	8.6		0.8	206	0 2	425	0	68	22	506	53
1850901	8.4		1.4	339	0.4	598	8	157	57	874	57
1858201	8.5		2.0	359	1 0	576	5	189	83	927	52
Average	8.5	32	3.2	421	1 3	643	11	186	146	1105	58
Maximum	8.7	32	12.0	710	7 0	936	44	408	370	1884	84
Paluxy Water Quality											
State Well Number	pH	Temp (°C)	Calcium (mg/L)	Sodium (mg/L)	Magnesium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	TDS (mg/L)	SAR
1849605				290		583	29	97	19	739	
1850205	8.6	30.2	1.6	285	1 0	610	0	87	25	702	56
1850302	8.7		1.6	298	0.1	578	31	85	26	728	62
1850504	8.5		2.0	323	0 5	637	22	109	22	805	63
1850505	8.9		1.6	287	0 5	527	38	97	24	709	41
1850802	8.7	29.0	1.8	262	0 2	535	17	90	19	670	38
1850804	8.2		2.3	272	0.6	470	0	96	19	640	53
1849604	8.7		1.6	271	0.4	576	0	89	21	668	50
Average	8.6	30	2	286	0 5	565	17	94	22	708	52
Maximum	8.9	30.2	2.3	323	1	637	38	109	26	805	63
Twin Mountains Water Quality											
State Well Number	pH	Temp (°C)	Calcium (mg/L)	Sodium (mg/L)	Magnesium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	TDS (mg/L)	SAR
1850501	8.3	38	2.6	620	3 8	304	0	81	740	1,611	55
1850502	8.3	37	6.0	580	1 0	305	18	91	640	1,499	58
1850503	7.6		23.0	607	8.6	485	0	894	46	1,840	28
1850803	8.5	40	1.4	359	0.6	555	6	189	78	923	64
1850805	8.4	42	2.4	317	0 5	392	5	87	192	816	49
Average	8.2	39	7.1	497	2 9	408	6	268	339	1,338	51
Maximum	8.5	42	23.0	620	8 6	555	18	894	740	1,840	64
TCEQ Secondary Standards (mg/L)	*>7.0*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*300*	*300*	*1,000*	*N/A*
Lake Lewisville Quality Standards	*6.5-9.0*	*32*						*80*	*60*	*500*	

For the constituents reported, none of the aquifers contain contaminants that exceed primary standards. Total dissolved solids (TDS) is commonly used as a general indicator of water quality; water with TDS concentrations below 1,000 milligrams per liter (mg/L) are considered fresh, brackish water contains between 1,000 and 10,000 mg/L TDS, and water with TDS concentrations in excess of 10,000 mg/L TDS is considered saline. For reference, the average TDS of sea water is approximately 35,000 mg/L. As shown in Table 1 and Figure 1, the groundwater contained in Woodbine is mildly brackish, on average, with concentrations ranging from approximately 500 to 1,900 mg/L, indicating that water quality is variable and site-specific. Four of 13 sampled Woodbine wells report chloride and/or sulfate concentrations above

TCEQ secondary standards. Water quality in the Paluxy aquifer is fresh throughout the region, with other reported major constituents below secondary standards. On average, water in the Twin Mountains aquifer is brackish. Three of the six sampled Twin Mountains wells report chloride or sulfate concentrations above secondary standards.

The produced waters from all target aquifers will likely exceed the TCEQ stream segment standards for Lake Lewisville, which may affect surface discharge permitting (if needed). The water quality of a surface reservoir is often dominated by larger, episodic rainfall runoff events that provide most of the water to the lake. Small creeks can experience a wide range of water quality as evaporation and transpiration concentrate TDS between runoff events. Consequently, the water quality of a contributing stream is generally degraded relative to lake water quality, however variation in rainfall and runoff patterns can periodically improve stream water quality to be equal, or above lake quality. The available data suggest that, in the event that a discharge permit is required, mass balance/mixing calculations will demonstrate that the introduction of groundwater is likely to have a negligible effect on Lake Lewisville water quality because the irrigation discharge volume is small relative to the lake volume.

Water from the three target aquifers may not be appropriate as a sole source of irrigation water due to the relatively high concentrations of sodium and bicarbonate. Excess sodium can be toxic to many plant species, and both bicarbonate and sodium can negatively impact soil permeability over time. As shown in Table 1, the average values of the Sodium Adsorption Ratio (SAR) are 58, 52, and 51, in the Woodbine, Paluxy, and Twin Mountains aquifers, respectively. While different species of plants and types of soil can tolerate a wide range of sodium and bicarbonate, the SAR values shown here are generally considered high for sustained, long-term irrigation. If unblended or untreated groundwater from any of the target aquifers is to be the main source of irrigation water, RWH&A recommends an evaluation of local soils and planned crops be performed by a qualified agronomist.

Groundwater Regulation

The North Texas Groundwater Conservation District (NTGCD or District) regulates groundwater production in Collin and Denton Counties, and was established in 2009. The District is currently operating under a set of rules that were originally adopted in 2010 but have since been amended several times to include new rules regarding well location, spacing, and production rates. The most recent amendment of the rules was ratified February 11, 2020. The rules most applicable to this project are:

- A production permit must be obtained prior to drilling, construction, or operation of a well or well system.
- If the permit applicant is requesting water for the purposes of irrigating an acre or more of landscape, the applicant must agree to install and maintain a smart irrigation controller (weather or soil moisture-based) on the irrigation system.
- Multiple wells that are part of a well system and that are owned and operated by the same entity and are completed in the same aquifer may be aggregated under a single permit.
- If the well(s) will produce at a rate greater than 200 gallons per minute (gpm), a hydrologist's report must be submitted with the production permit application.
- Wells must be located at least 50 feet from the nearest uncontrolled property.
- New wells that are equipped so that the maximum capacity is above 17.36 GPM must be located at least 1,175 ft + (1.2 x GPM) away from any other well completed in the same aquifer. While

this rule is relatively restrictive (a 300 gpm well must be 1,535 feet from the nearest well), RWH&A communications with NTGCD staff indicate that this spacing rule does not apply to wells constructed on the same property as an aggregate well field. In other words, this rule only applies to the spacing between existing wells on adjoining properties and future Brookside-Frisco wells.

- The District assesses a production fee of $0.10 per 1,000 gallons for all non-exempt water uses except agricultural use, which is assessed a fee of $1.00 per acre-foot of water. For reference, an acre-foot of water is approximately 325,851 gallons.

As a member of GMA-8, the NTGCD must engage in joint planning with other northern Texas groundwater conservation districts to develop groundwater pumpage impact limits, which are termed "desired future conditions" (DFC). DFCs are defined every five years by GMA-8, which are then used by the TWDB to calculate the "modeled available groundwater" (MAG) for each aquifer regulated by the member conservation districts. MAG values represent the maximum amount of pumpage that can be sustained that results in aquifer impacts that are within DFC limits and must be considered by the NTGCD during well permitting processes. While MAGs are not considered to be regulatory pumpage caps, an application for groundwater production amounts that are large in comparison to established MAG values will require more effort to permit successfully.

Table 2 lists the currently-adopted MAG values for each target aquifer by decade. As shown the estimated annual Brookside-Frisco production of 1,200 ac-ft/yr represents a modest portion of the MAGs that, in RWH&A experience, could likely be permitted without significant opposition from the NTGCD. Please note that updated DFCs are currently being developed and are scheduled to be delivered to the TWDB for MAG calculation in early 2022.

Table 2. Aquifer MAG Values for Collin and Denton Counties

Aquifer	*Modeled Available Groundwater (MAG) (Acre-Feet per Year)*			
	2020	*2030*	*2040*	*2050*
Woodbine	7,879	7,858	7,879	7,858
Paluxy	6,383	6,366	6,383	6,366
Twin Mountains	10,596	10,567	10,596	10,567

Aquifer Transmissivity, Well Efficiency, and Available Drawdown

Maximum well productivity is primarily a function of three parameters: 1) aquifer transmissivity, 2) well efficiency, and 3) available drawdown. The term "transmissivity" describes an aquifer's ability to transmit water through a vertical section of sediments and is used as a general measure of the productivity of an aquifer. All other aspects of the groundwater system being equal, an aquifer with twice the transmissivity of another aquifer can sustain about twice as much production. Well efficiency is a measure of the ease with which an individual well can transmit water from the aquifer through the screen/gravel pack to the well. Well efficiencies are defined by calculating the ratio of the declines predicted to occur in a theoretical, "perfect" well that incurs no added head loss as water moves from the aquifer to the well to the measured drawdown in a real-world well. Typical efficiencies range from about 50% for wells with straightwall construction, to greater than 90% for wells constructed for higher-capacity municipal applications.

Groundwater is vertically confined within the Woodbine, Paluxy, and Twin Mountains by overlying and underlying relatively-impermeable geologic formations. The downward pressure of near-surface groundwater in aquifer outcrop/recharge zones to the northwest pressurizes the groundwater beneath Brookside-Frisco. Consequently, aquifer (artesian) pressure will drive well bore water levels water above the top of the aquifer that is screened by a well. As wells are pumped, the decline in water level observed in the wells is the result of decreased groundwater pressure rather than desaturation of the aquifer sediments near the well bore. The vertical distance between the static (non-pumping) wellbore water level and the top of the aquifer is commonly referred to as artesian pressure. This distance is important with respect to groundwater availability because, as is the case with aquifer transmissivity, a well with twice as much artesian pressure can produce groundwater at twice the rate. However, rather than assuming that 100% of the available drawdown at a site may be utilized for production, it is beneficial to include some "safety factor" to account for hydrologic uncertainties and unforeseen impacts from other groundwater users when determining the availability of supplies over the long-term. Given that the target aquifers are a major source of groundwater for the region, significant declines in artesian pressure levels are likely in the future, which may affect the availability of groundwater. For this evaluation, it was assumed that 50% of the artesian pressure in the Brookside-Frisco area would be used for production of the intended supply over a 30-year well lifespan.

Water level data recorded during constant-rate aquifer tests are generally the most reliable method of estimating the hydraulic properties of an aquifer. However, no reliable aquifer test data are available from well in the Brookside-Frisco area. To calculate the anticipated well yields at Brookside-Frisco, RWH&A estimated a range of expected aquifer characteristics (aquifer hydraulic conductivity, aquifer depths, and artesian pressure.) using a combination of data and information from previous RWH&A efforts and the GAM.

Regional Interference Drawdown

Groundwater pumpage affects all users of groundwater who produce from the same aquifer; consequently, the well yields and overall groundwater availability of the aquifers beneath Brookside-Frisco will likely decline over time in response to artesian pressure declines (drawdown) imposed by competitive pumping in the region. In order to estimate the potential magnitude of interference drawdown that may occur over the next several decades, RWH&A evaluated the results of GAM simulations conducted by GMA-8 as part of the State's water planning process. These simulations suggest that significant declines will occur in each of the three aquifers beneath Brookside-Frisco over the next thirty years due to groundwater production in the region. Table 3 lists the current amount of artesian pressure, the anticipated regional drawdown, and the future amount of artesian pressure at Brookside-Frisco.

Table 3. Artesian Pressure and Estimated Regional Interference Drawdown

Aquifer	Current Artesian Pressure (Feet)	Regional Drawdown (2020-2050) (Feet)	2050 Artesian Pressure (Feet)
Woodbine	120	53	67
Paluxy	760	262	498
Twin Mountains	1,310	216	1,094

As shown, impacts from other groundwater users in the region over the next 30 years are anticipated to reduce artesian pressure levels in the Brookside-Frisco area by 44%, 34%, and 16% in the Woodbine, Paluxy, and Twin Mountains aquifers, respectively. The maximum production rates of Brookside-Frisco wells are expected to decline by commensurate proportions by 2050. However, it is important to note that the simulations used by GMA-8 for regional planning incorporate multi-decade predictions (educated guesses) of the locations and production schedules of numerous potential groundwater projects. As such, the amount of drawdown that is predicted to occur in the Brookside-Frisco area is highly-dependent on the accuracy of the predictions/assumptions applied to the GMA-8 simulations by its member groundwater conservation districts.

Well Field Modeling

An analytical groundwater model developed by RWH&A was used to estimate maximum potential future productivity in the Paluxy and Twin Mountains aquifers. Production was modeled through a 30-year interval at average continuous production rates, which allows for accurate assessment of average aquifer declines over that period. As discussed above, modeled drawdown is limited to 50% of the artesian pressure to account for unforeseen future pumpage by other groundwater users near Brookside-Frisco and to allow for production at higher peak rates when needed during summer months. Regional data indicates that the hydraulic properties of the target aquifers are variable in the Brookside-Frisco area. To bracket potential wellfield productivity, both low and high estimated transmissivity scenarios were evaluated for each aquifer. Table 4 shows parameters applied to the model scenarios. The model for this study assumes a 50% well efficiency, which is a typical for a properly constructed straightwall irrigation-supply well.

Table 4. Model Scenario Parameters

Description	Woodbine	Paluxy	Twin Mountains
Low Transmissivity (gal/day/ft)	500	1,880	5,610
High Transmissivity (gal/day/ft)	2,200	4,860	11,200
Current Artesian Pressure (ft)	120	760	1,310
Modeled Available Drawdown (ft)	60	380	655

Tables 5 through 7 list the simulated long-term maximum production from wells completed in the target aquifers. Multiple wellfield scenarios were modeled, utilizing between one to seven currently-planned well locations on the Brookside-Frisco property. As shown, total system production increases as wells are added to the wellfield. However, due to compounding interference effects between wells, the rate of increase in wellfield productivity declines with each additional well.

Model results suggest that the Woodbine aquifer is not suitable for long-term production in the Brookside-Frisco area due a combination of factors including low aquifer transmissivity, shallow aquifer depth, and relatively-large predicted interference effects from other groundwater users in the region. However, production of up to about 30-50 gpm from individual Woodbine wells may be possible over the short-term where favorable site-specific aquifer characteristics are identified.

Table 5. Model Results – Woodbine Aquifer

Wells	Low Transmissivity		High Transmissivity	
	Avg. Well Yield (gpm)	Total Production (gpm)	Avg. Well Yield (gpm)	Total Production (gpm)
1	8	8	32	32
2	7	13	28	56
3	6	17	24	71
5	<5	20	17	86
7	<5	22	13	94

Table 6. Model Results – Paluxy Aquifer

Wells	Low Transmissivity		High Transmissivity	
	Avg. Well Yield (gpm)	Total Production (gpm)	Avg. Well Yield (gpm)	Total Production (gpm)
1	55	55	135	135
2	46	93	115	230
3	40	119	97	292
5	29	146	71	357
7	23	160	56	392

Table 7. Model Results – Twin Mountains Aquifer

Wells	Low Transmissivity		High Transmissivity	
	Avg. Well Yield (gpm)	Total Production (gpm)	Avg. Well Yield (gpm)	Total Production (gpm)
1	566	566	1,097	1,097
2	479	958	922	1,843
3	402	1,205	770	2,311
5	294	1,468	562	2,809
7	229	1,600	437	3,058

The Paluxy is significantly less productive than the Twin Mountains but, because Paluxy groundwater is likely fresh, development of supplemental Paluxy wells at Twin Mountains well sites may be beneficial in some circumstances. If the Twin Mountains transmissivity within Brookside-Frisco is on the higher end of the regional range, two or three wells may be sufficient to produce the desired daily peak capacity of approximately 1,800 gpm. If site-specific characteristics are less favorable, all seven planned well sites

may need to be developed and may produce, on the whole, less than the necessary total capacity.

Conclusions

The available data indicate that the hydraulic properties of the three potential target aquifers vary significantly throughout the region; as a result, the maximum yields from individual wells and from an aggregate Brookside-Frisco well field will be dependent on the hydraulic properties of the aquifer(s) at each well site. It is recommended that test drilling and aquifer testing be performed to document the hydrogeologic conditions beneath potential well sites prior to well design and permitting efforts. If favorable aquifer conditions are found, sufficient production may be obtained from a few larger wells, while several smaller wells may be required to fulfill project demands where less-permeable aquifer sediments are present.

Selection of one or more preferred aquifer zones typically depends on a combination of factors including productivity, reliability, water quality, and cost. The following summarizes the pros and cons associated with each of the potential target aquifers.

Woodbine Aquifer

- Well depth of approximately 700 feet
- Small capacity wells (up to approximately 30-50 gpm)
- Less expensive wells
- Variable, site-specific water quality
- Current groundwater availability: 50 to 175 acre-feet per year
- Future (2050) groundwater availability: less than 30 acre-feet per year

Paluxy Aquifer

- Well depth of approximately 1,500 feet
- Small to moderate capacity wells (up to approximately to 150 gpm)
- Moderately expensive wells
- Fresh water quality
- Current groundwater availability: 850 to 2,000 acre-feet per year
- Future (2050) groundwater availability: 300 to 650 acre-feet per year

Twin Mountains Aquifer

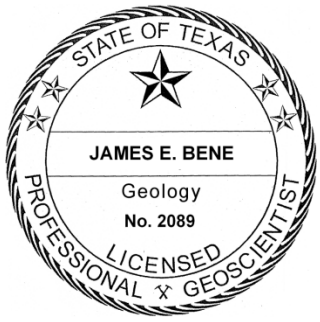
- Well depth of approximately 2,450 feet
- High capacity wells (up to approximately 1,100 gpm)
- Higher cost wells
- Primarily brackish water quality (but some fresh water in region)
- Current groundwater availability: 4,200 to 7,800 acre-feet per year
- Future (2050) groundwater availability: 2,600 to 4,900 acre-feet per year

The Woodbine is the least productive aquifer beneath Brookside-Frisco and contains groundwater of variable quality. However, construction of relatively shallow, inexpensive Woodbine wells may prove beneficial in circumstances where smaller well yields and poorer water quality are acceptable. The Paluxy contains consistently fresh water in the region and can likely sustain low to moderately productive wells given current artesian pressure levels. However, the overall productivity of the Paluxy is predicted to decline by approximately 34% over the next 30 years, requiring the construction of additional wells to maintain long-term production rates. Large-scale production may be obtained from the Twin Mountains with fewer, higher-capacity wells. Twin Mountains wells will be deeper, larger-diameter, and more expensive, but are predicted to be impacted to a lesser degree by interference drawdown from other wells in the region. It is likely that the Twin Mountains contains brackish groundwater beneath Brookside-Frisco.

The Woodbine, Paluxy, and Twin Mountains are vertically segregated by thick layers of relatively impermeable sediments. As a result, wells accessing these formations may be constructed at the same site without imposing interference drawdown on one-another. Depending on the desired production, site-specific aquifer properties, water quality, and budgetary constraints, various combinations of wells could be employed to achieve cost-effective results.

The three target aquifers contain "soft" groundwater with high concentrations of sodium relative to dissolved calcium and magnesium. The Sodium Adsorption Ratio (SAR) is commonly used as an indicator of a water's suitability for irrigation use. The average SAR values of the groundwater produced by the target aquifers in the region exceed 50, which is considered unacceptably high for sustained direct irrigation use, especially for areas with low permeability soils. RWH&A recommends that an evaluation of local soils and plants be performed by a qualified agronomist if unblended or untreated groundwater from any of the target aquifers is to be used for long-term irrigation.

Sincerely,



James Bené, P.G.
R. W. Harden & Associates, Inc.

The seal appearing on this document was authorized by James E. Bené, P.G. 2089 on October 21, 2021. R.W. Harden & Associates, Inc. TBPG Firm No. 50033.

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) *(Include losses for Bed and Banks)*	**State Water Source (River Basin) or Alternate Source** *each *alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0*	**Purpose(s) of Use**	**Place(s) of Use** **requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer*
	Stream 2E4 in the Trinity Watershed		

20.45 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 N/A 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 N/A acres in N/A County, TX.
   ii) Location of land to be irrigated: In the N/A Original Survey No. N/A, Abstract No. N/A.
   A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.
   If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.

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

2. Amendments - Purpose or Place of Use (Instructions, Page. 12)

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

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:

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

ii) Location of land to be irrigated: In the _____Original Survey No. _____, Abstract No._____.
A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.

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

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

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

e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

WORKSHEET 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): Stream 2E4 (FEMA designation)

b. Zip Code: _____

c. In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

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

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

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

Latitude 32.960883 °N, Longitude 96.574378 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N** Y

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Applicant has calculated the drainage area. **Y/N**
If yes, the drainage area is_____ sq. miles.
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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): Stream 2E4 (FEMA designation)

b. Zip Code: _____

c. In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

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

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

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

Latitude 32.960883 °N, Longitude 96.574378 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N** Y

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**

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

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dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N** Y

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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**
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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_____;
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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**

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dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N** Y

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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.

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WORKSHEET 2.0
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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:

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   a. If yes, provide the Site No. _____and watershed project name_____;
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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.
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d. A point on the centerline of the dam (on-channel) or anywhere within the impoundment (off-channel) is:

Latitude 32.960883 °N, Longitude 96.574378 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. **Y / N** Y

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:
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 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).

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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
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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): _____

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

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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	
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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.
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2. Diversion Location (Instructions, Page 25)

a. On watercourse (USGS name): _____

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c. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

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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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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

For water discharged at this location provide:

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

b. Water will be discharged at this point at a maximum rate of_____cfs or _____gpm.

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

d. Zip Code: _____

f. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

g. Point is at:

Latitude _____˚N, Longitude _____˚W.

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

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

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

WORKSHEET 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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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

For water discharged at this location provide:

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

b. Water will be discharged at this point at a maximum rate of_____cfs or _____gpm.

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

d. Zip Code: _____

f. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

g. Point is at:

Latitude _____˚N, Longitude _____˚W.

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

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

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

WORKSHEET 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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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

For water discharged at this location provide:

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

b. Water will be discharged at this point at a maximum rate of_____cfs or _____gpm.

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

d. Zip Code: _____

f. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

g. Point is at:

Latitude _____˚N, Longitude _____˚W.

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

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

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

WORKSHEET 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**

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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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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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.

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

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

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

WORKSHEET 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**

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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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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

For water discharged at this location provide:

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

b. Water will be discharged at this point at a maximum rate of_____cfs or _____gpm.

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

d. Zip Code: _____

f. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

g. Point is at:

Latitude _____˚N, Longitude _____˚W.

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

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

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

WORKSHEET 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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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

For water discharged at this location provide:

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

b. Water will be discharged at this point at a maximum rate of_____cfs or _____gpm.

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

d. Zip Code: _____

f. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

g. Point is at:

Latitude _____˚N, Longitude _____˚W.

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

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

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

WORKSHEET 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/gwdbrpt.asp. Additionally, provide well numbers or identifiers_____.

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

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

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

cii. Identify any other source of the water_____

WORKSHEET 4.1
DISCHARGE POINT INFORMATION

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

For water discharged at this location provide:

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

b. Water will be discharged at this point at a maximum rate of_____cfs or _____gpm.

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

d. Zip Code: _____

f. Location of point: In the _____Original Survey No. _____, Abstract No._____, _____County, Texas.

g. Point is at:

Latitude _____˚N, Longitude _____˚W.

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

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

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

WORKSHEET 5.0
ENVIRONMENTAL INFORMATION

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

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

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

a. Identify the appropriate description of the water body.

☐ Stream

☐ Reservoir

Average depth of the entire water body, in feet: _____

☐ Other, specify: _____

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).

b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

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

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

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

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.**

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	$100.00
Recording Fee		$25.00
Agriculture Use Fee	*Only for those with an Irrigation Use.* Multiply 50¢ x _____ Number of acres that will be irrigated with State Water. **	
Use Fee	*Required for all Use Types, **excluding Irrigation Use.*** Multiply $1.00 x _____ Maximum annual diversion of State Water in acre-feet. **	
Recreational Storage Fee	*Only for those with Recreational Storage.* Multiply $1.00 x 21.74 acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	$21.74
Storage Fee	*Only for those with Storage, **excluding Recreational Storage.*** 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	$ 146.74

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	$

Alderman, Nadia (Whitehouse)

From: Roger McInnis <[redacted]>
Sent: Friday, October 29, 2021 11:39 AM
To: Drew Satterwhite; Dickey, Kyle; Paul Sigle
Cc: [redacted] Braswell, Trey; Alderman, Nadia (Whitehouse)
Subject: RE: FHQ and NTGCD Coordination Confirmation

Thanks Drew!

Roger Gray McInnis
Gray Interests, LLC
6611 Snider Plaza #111
Dallas, TX 75205
[redacted]
LinkedIn
(817) 715-8554

From: Drew Satterwhite [redacted]g>
Sent: Friday, October 29, 2021 11:07 AM
To: Dickey, Kyle <[redacted]>; Paul Sigle <p[redacted]>
Cc: Roger McInnis <[redacted]>; [redacted]; Braswell, Trey <t[redacted]>; Alderman, Nadia (Whitehouse) <N[redacted]>
Subject: RE: FHQ and NTGCD Coordination Confirmation

Email received

From: Dickey, Kyle <[redacted]>
Sent: Wednesday, October 27, 2021 6:47 PM
To: Paul Sigle <[redacted]>; Drew Satterwhite <d[redacted]>
Cc: Roger McInnis [redacted]>; [redacted]; Braswell, Trey <t[redacted]>; Alderman, Nadia (Whitehouse) <[redacted]>
Subject: RE: FHQ and NTGCD Coordination Confirmation

Good evening Paul and Drew,

I'm following up on the email below. We are making a few changes to our Water Rights Permit including revising the aquifer references in the email below.

We still intend to use 242 million gallons of groundwater annually (61 million for evaporation and 181 million for irrigation). However, we will be targeting both the Woodbine and Trinity aquifers.

Please confirm receipt of this email as we will be using it as reference that we are in coordination with y'all for the permit.

Thanks,
Kyle

Kyle A. Dickey, P.E. (TX), CFM
Kimley-Horn | 6160 Warren Parkway, Suite 210, Frisco, TX 75034
Direct: 972 731 2187 | www.kimley-horn.com

From: Dickey, Kyle
Sent: Thursday, August 5, 2021 3:04 PM
To: Hal Bailey <Hal.Bailey@tceq.texas.gov>
Cc: Paul Sigle <[redacted]>; Drew Satterwhite <[redacted]>; Roger McInnis [redacted]>; Braswell, Trey <[redacted]; Alderman, Nadia (Whitehouse) <[redacted]>
Subject: FHQ and NTGCD Coordination Confirmation

Good afternoon Hal,

We have been actively coordinating with the North Texas Groundwater Conservation District (NTGCD) regarding the plan to use groundwater as our alternative source of water for the Fields HQ project in Frisco. This work has been done in response to Comment 3 from the RFQ. We will be applying for a permit closer to the time the wells are ready to be constructed. However, the NTGCD model has determined that 181 million gallons of water will be needed annually to provide adequate irrigation. NTGCD has also agreed that the evaporation calculations (61 million gallons annually) included with our water rights application are acceptable. Therefore, we expect to pump 242 million gallons of groundwater from the twin mountains (aka Trinity) aquifer on an annual basis. Our resubmittal will include the revised irrigation calculations from the NTGCD model.

I am sending this email for your documentation that we are actively coordinating with members from NTGCD (copied here).

Thank you,
Kyle

Kyle A. Dickey, P.E. (TX), CFM
Kimley-Horn | 6160 Warren Parkway, Suite 210, Frisco, TX 75034
Direct: 972 731 2187 | w[redacted]m

4. General Information, Response Required for all Water Right Applications (Instructions, Page 15)

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

The City of Sachse is located in Dallas County which is part of Region C of the State's water plan. The application is consistent with the 2016 plan, which supports minimal water conservation with the remainder of water coming from groundwater wells.

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**

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 12, 2021

Mr. Kyle Dickey, PE, CFM **VIA E-MAIL**
Kimley-Horn and Associates, Inc.
6160 Warren Pkwy, Suite 210
Frisco, TX 75034

RE: North Fields Investment Partnership LP, Fields Preserve Investment Partners LP, VPTM Fields LB LLC, FHQ Development Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Midtown East Investment Partners LP.
WRPERM 13779
CN605925734, CN605925742, CN605925767, CN605925775, CN605925809 CN605925833, CN605925817, RN111321576
Application No. 13779 for a Water Use Permit
Texas Water Code §§ 11.121, 11.042. Requiring Mailed and Published Notice
Unnamed tributary of Panther Creek, Trinity River Basin
Denton County

Dear Mr. Dickey:

This acknowledges receipt, on August 20, 2021, of the referenced application and fees in the amount of $1054.60 (Receipt Nos. M116835A, M116835B copies enclosed)

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

1. Confirm that the application is requesting to discharge groundwater into the reservoirs to maintain the reservoirs and subsequently divert the discharged groundwater for irrigation purposes.

2. Confirm that the total amount of water to be discharged annually (including evaporation losses) is 743.94 acre-feet.

3. Provide 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 needs.

4. Provide the name of the specific aquifer from which water will be withdrawn to support the application.

5. Provide a copy of the groundwater well permit or evidence that a groundwater well permit is not required from the North Texas Groundwater Conservation District. Staff acknowledges that the application indicates that a groundwater well permit will be obtained prior to construction. However, in order to declare the application

administratively complete, the application must demonstrate that the applicant is in the process of obtaining any required groundwater well permits.

6. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on any new diversion structure that is not already authorized in a water right). Refer to pages 28-29 from the *Instructions for Completing the Water Right Permitting Application* (Form TCEQ-10214A-inst) for assistance in developing your response.

7. 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).

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

Please provide the requested information by November 11, 2021 or the application may be returned pursuant to Title 30 TAC § 281.18.

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

Basis2 - Receipt History Report

24-SEP-21 08:26 AM

Bank Slip# / Document# / Fee Code	Slip Status / Site Code / Account Name	Tran.Date	Tran.Code / Account #	Created By / Paid In By	Endorse # / Endorse.Date	USAS Proj # / Permit/Proj # / Check Number	Paid For / Vendor # / Pay Type	Orig Tran Amnt / Corrected? / Corrected Tran Amnt
BS00086726	Closed						FHQ	-$594.00
D1803155	RS	21-APR-21	N		M116835A	13779	DEVELOPMENT	
WUP	WATER USE PERMITS		WUP	HUNT	042121	4308050	PARTNERS	-$594.00
							CK	
BS00086726	Closed						FHQ	-$460.60
D1803155	RS	21-APR-21	N		M116835B	13779	DEVELOPMENT	
PTGU	NOTICE FEES WUP WATER USE PERMITS		PTGU	HUNT	042121	4308050	PARTNERS	-$460.60
							CK	
					Grand Total:			-$1,054.60

Report_ID:

Kimley»Horn

August 20, 2021

Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, TX 78753

RE: ***Fields Headquarters Water Rights Permit Application***
City of Frisco, TX

Dear TCEQ Representative:

North Fields Investment Partnership LP, Fields Preserve Investment Partners LP, VPTM Fields LB LLC, FHQ Development Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, and Fields Midtown East Investment Partners LP are proposing a mixed-use development north of Panther Creek Parkway and East of Teel Parkway in the City of Frisco. This permit application addresses six proposed regional detention ponds and one existing stock pond. Some ponds are proposed to store water for irrigation and all ponds will lose water to evaporation. Groundwater wells are proposed to be constructed to maintain the water levels in the ponds, so that State Water is not impounded. A pre-application meeting was held on April 7 and comments from that meeting have been addressed with this submittal.

While the locations of the ponds are only located within land owned by FHQ Development Partners LP and North Fields Investment Partnership LP, all applicants will use this water for irrigation. A Tax parcel information map has been included with the submittal to show the location of each property.

Enclosed is an application to obtain a Water Rights Permit for a proposed project in the City of Frisco, Texas. Fees from previous application # 13761 will be used towards this application per coordination with the reviewer.

If you have any questions, please contact me at [redacted] or (972) 731-2187.

Sincerely,

Kyle Dickey, P.E., CFM

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): North Fields Investment Partnership LP; Fields Preserve Investment Partners LP; VPTM FIELDS LB LLC; FHQ Development Partners LP; Fields Midtown West Investment Partners LP; Fields Point West Investment Partners LP; Fields Midtown East Investment Partners LP

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

Y/N		Y/N	
Y	**Administrative Information Report**	Y	**Worksheet 3.0**
Y	Additional Co-Applicant Information	Y	Additional W.S 3.0 for each Point
Y	Additional Co-Applicant Signature Pages	Y	Recorded Deeds for Diversion Points
Y	Written Evidence of Signature Authority	N	Consent For Diversion Access
Y	**Technical Information Report**	Y	**Worksheet 4.0**
Y	USGS Map (or equivalent)	N	TPDES Permit(s)
Y	Map Showing Project Details	N	WWTP Discharge Data
Y	Original Photographs	N	24-hour Pump Test
N	Water Availability Analysis	N	Groundwater Well Permit
Y	**Worksheet 1.0**	N	Signed Water Supply Contract
Y	Recorded Deeds for Irrigated Land	Y	**Worksheet 4.1**
N	Consent For Irrigation Land	Y	**Worksheet 5.0**
N	**Worksheet 1.1**		Addendum to Worksheet 5.0
N	Addendum to Worksheet 1.1	Y	**Worksheet 6.0**
N	**Worksheet 1.2**	N	Water Conservation Plan(s)
N	Addendum to Worksheet 1.2	N	Drought Contingency Plan(s)
Y	**Worksheet 2.0**	N	Documentation of Adoption
Y	Additional W.S 2.0 for Each Reservoir	Y	**Worksheet 7.0**
Y	Dam Safety Documents	Y	Accounting Plan
Y	Notice(s) to Governing Bodies	Y	**Worksheet 8.0**
Y	Recorded Deeds for Inundated Land	Y	Fees
Y	Consent For Inundation Land		

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.

X New Appropriation of State Water

____ Amendment to a Water Right *

X 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."

Fields HQ is a premier single family, multi-family and commercial development.

The project included 7 proposed regional detention ponds with dams along Unnamed Tributaries

to Panther Creek and 1 existing stock pond on an Unnamed Tributary to Panther Creek.

The impounded water will be used for recreational and agricultural (irrigation) use.

This application is requesting authorization from TCEQ to impound water.

Water lost due to evaporation will be replaced by groundwater wells.

More details can be found in the cover letter for the submittal.

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 7
(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?

FHQ Development Partners LP

(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: Todd Watson

Title: Vice President

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: Todd Watson

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

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	X Other Limited Partnership

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32068003162 SOS Charter (filing) Number: 6996025

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: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name: Kimley-Horn and Associates, Inc.

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]

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

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

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

First and Last Name: Todd Watson

Title: Vice President

Organization Name: FHQ Development Partners LP

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

Phone No.: 214-978-8761 Extension:

Fax No.: E-mail Address: [redacted]

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, Todd M. Watson 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: _____ Date: August 19, 2021
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 19th day of August, 2021.

My commission expires on the 04 day of 15, 2022.

Alma Mosley
Notary Public

ALMA MOSLEY
ID # 1108460-3
Notary Public, State of Texas
My Commission Expires
04/15/2022
[SEAL]

County, Texas

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

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.

X New Appropriation of State Water

____ Amendment to a Water Right *

X 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."

Fields HQ is a premier single family, multi-family and commercial development.

The project included 7 proposed regional detention ponds with dams along Unnamed Tributaries

to Panther Creek and 1 existing stock pond on an Unnamed Tributary to Panther Creek.

The impounded water will be used for recreational and agricultural (irrigation) use.

This application is requesting authorization from TCEQ to impound water.

Water lost due to evaporation will be replaced by groundwater wells.

More details can be found in the cover letter for the submittal.

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 7
(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?

Fields Midtown East Investment Partners LP

(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: Todd Watson

Title: Vice President

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: Todd Watson

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

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	X Other Limited Partnership

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32079084664 SOS Charter (filing) Number: 5890104

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: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name: Kimley-Horn and Associates, Inc.

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]m

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: Todd Watson

Title: Vice President

Organization Name: FHQ Development Partners LP

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

Phone No.: 214-978-8761 Extension:

Fax No.: E-mail Address: [redacted]

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, Todd M. Watson 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: _____ Date: August 19, 2021
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 19th day of August, 20 21.

My commission expires on the 4 day of 15, 20 22.

Alma Mosley
Notary Public

ALMA MOSLEY
ID # 1108460-3
Notary Public, State of Texas
My Commission Expires
04/15/2022

[SEAL]

County, Texas

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

ADMINISTRATIVE INFORMATION REPORT

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

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

X New Appropriation of State Water

____ Amendment to a Water Right *

X 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.

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More details can be found in the cover letter for the submittal.

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 7
(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?

Fields Midtown West Investment Partners LP

(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: Todd Watson

Title: Vice President

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: Todd Watson

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

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	X Other Limited Partnership

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32079085323 SOS Charter (filing) Number: 5890111

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: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name: Kimley-Horn and Associates, Inc.

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]

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

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

First and Last Name: Todd Watson

Title: Vice President

Organization Name: FHQ Development Partners LP

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

Phone No.: 214-978-8761 Extension:

Fax No.: E-mail Address: [redacted]

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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, Todd M. Watson 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: _____ Date: August 19 2021
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 19th day of August, 20 21.

My commission expires on the 04 day of 15, 20 22.

Notary Public

ALMA MOSLEY
ID # 1108460-3
Notary Public, State of Texas
My Commission Expires
04/15/2022

[SEAL]

County, Texas

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ADMINISTRATIVE INFORMATION REPORT

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

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

X New Appropriation of State Water

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X 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."

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More details can be found in the cover letter for the submittal.

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 7
(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?

Fields Point West Investment Partners LP

(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

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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: Todd Watson

Title: Vice President

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: Todd Watson

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

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	X Other Limited Partnership

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32079084649 SOS Charter (filing) Number: 5890083

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: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name: Kimley-Horn and Associates, Inc.

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]

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

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Title: Vice President

Organization Name: FHQ Development Partners LP

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

Phone No.: 214-978-8761 Extension:

Fax No.: E-mail Address: [redacted]

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

6. SIGNATURE PAGE (Instructions, Page. 11)

Applicant:

I, Todd M. Watson Vice President
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Signature: _____ Date: August 19, 2021
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 9th day of August, 20 21.

My commission expires on the 04 day of 15, 20 22.

Alma Mosley
Notary Public

ALMA MOSLEY
ID # 1108460-3
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[SEAL]

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a. Applicant

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(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?

Fields Preserve Investment Partners LP

(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.)

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Title: Vice President

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___Partnership	___Corporation
___Trust	___Estate
___Federal Government	___State Government
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For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32079084607 SOS Charter (filing) Number: 5890061

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First and Last Name: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name: Kimley-Horn and Associates, Inc.

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]

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Applicant:

I, Todd M. Watson Vice President
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Subscribed and Sworn to before me by the said

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My commission expires on the 04 day of 15, 20 22.

Notary Public

ALMA MOSLEY
ID # 1108460-3
Notary Public, State of Texas
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[SEAL]

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a. Applicant

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(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?

North Fields Investment Partners LP

(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.)

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First/Last Name: Todd Watson

Title: Vice President

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: Todd Watson

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

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	X Other Limited Partnership

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: 32079084581 SOS Charter (filing) Number: 5890052

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: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name: Kimley-Horn and Associates, Inc.

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]

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

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

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

First and Last Name: Todd Watson

Title: Vice President

Organization Name: FHQ Development Partners LP

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

Phone No.: 214-978-8761 Extension:

Fax No.: E-mail Address: [redacted]

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, Todd M. Watson 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: _____ Date: August 19, 2021
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 19th day of August, 2021.

My commission expires on the 04 day of 15, 2022.

Alma Mosley
Notary Public

ALMA MOSLEY
ID # 1108460-3
Notary Public, State of Texas
My Commission Expires
04/15/2022
[SEAL]

County, Texas

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

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.

X New Appropriation of State Water

____ Amendment to a Water Right *

X 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."

Fields HQ is a premier single family, multi-family and commercial development.

The project included 7 proposed regional detention ponds with dams along Unnamed Tributaries

to Panther Creek and 1 existing stock pond on an Unnamed Tributary to Panther Creek.

The impounded water will be used for recreational and agricultural (irrigation) use.

This application is requesting authorization from TCEQ to impound water.

Water lost due to evaporation will be replaced by groundwater wells.

More details can be found in the cover letter for the submittal.

2. APPLICANT INFORMATION (Instructions, Page. 6)

a. Applicant

Indicate the number of Applicants/Co-Applicants 8
(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?

VPTM Fields LB LLC

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

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

CN :_____(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: Brendan Bosman

Title: Authorized Signatory

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/ZipLookupActionInput.action.

Name: VPTM Fields LB LLC

Mailing Address: 901 Marquette Ave. S., Suite 3300

City: Minneapolis State: MN ZIP Code: 55402

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	X Other Limited Liability Company

For Corporations or Limited Partnerships, provide:
State Franchise Tax ID Number: _____SOS Charter (filing) Number: _____

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: Kyle Dickey, PE, CFM

Title: Professional Engineer

Organization Name:

Mailing Address: 6160 Warren Parkway, Suite 210

City: Frisco State: TX ZIP Code: 75034

Phone No.: 972-731-3801 Extension: N/A

Fax No.: N/A E-mail Address: [redacted]

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

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

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

First and Last Name: Todd Watson

Title: Vice President

Organization Name: FHQ Holdings, LP

Mailing Address: 1900 N Akard St

City: Dallas State: TX ZIP Code: 75201

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, Brendan Bosman (Typed or printed name) Authorized Signatory (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: _____ Date: 8/12/2021
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 12th day of August, 2021.

My commission expires on the 31st day of January, 2026.

Notary Public

DANA A. MARTI
Notary Public-Minnesota
My Commission Expires Jan 31, 2026
[SEAL]

Hennepin County, Minnesota
~~County, Texas~~

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

SECRETARY'S CERTIFICATE

The undersigned, as Secretary of FHQ HOLDINGS GP LLC, a Delaware limited liability company (the "**Company**"), does hereby certify the following as of the date hereof, that:

The Company is the general partner of FHQ Development Partners LP, a Delaware limited partnership ("**FHQ Development**"), Fields Brookside Investment Partners LP, a Delaware limited partnership ("**Brookside**"), Fields Brookside ISD Investment Partners LP, a Delaware limited partnership ("**Brookside ISD**"), Fields Midtown East Investment Partners LP, a Delaware limited partnership ("**Midtown East**"), Fields Midtown West Investment Partners LP, a Delaware limited partnership ("**Midtown West**"), Fields Point West Investment Partners LP, a Delaware limited partnership ("**Point West**"), Fields Preserve Investment Partners LP, a Delaware limited partnership ("**Preserve**"), and North Fields Investment Partnership LP, a Delaware limited partnership ("**North Fields**") (collectively, the "**Partnerships**");

The following persons are duly elected, qualified and acting Vice Presidents of the Company:

Todd M. Watson
Diane B. Hornquist

IN WITNESS WHEREOF, the undersigned has executed and delivered this Secretary's Certificate effective as of the 6th day of August, 2021.

Diane B. Hornquist, Secretary

INCUMBENCY CERTIFICATE

The undersigned hereby certifies that (i) he is the duly elected and qualified Assistant Secretary of Värde Partners, Inc., a Delaware corporation (the "Company"), the Manager of VPTM Fields LB LLC, a Delaware limited liability company ("VPTM Fields"), (ii) the following persons is a duly constituted officer of the Company, holding the office indicated and as such has the authority to bind the Company on behalf of VPTM Fields, and (iii) the signature set forth opposite such person's name below is a true and accurate specimen signature:

Name	**Office**	**Signature**
Brendan Bosman	Managing Director	

IN WITNESS WHEREOF, I have executed this Certificate this 12th day of August 2021.

Mark Rabogliatti, Assistant Secretary

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 : 4/7/2021).

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: N/A

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

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) *(Include losses for Bed and Banks)*	**State Water Source (River Basin) or Alternate Source** *each *alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0*	**Purpose(s) of Use**	**Place(s) of Use** **requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer*
167.5	Woodbine, Trinity and Paluxy	Recreation	Denton County
554.3	Woodbine, Trinity and Paluxy	Irrigation	Denton and Collin County

*Irrigation demand is greater than NTGCD allowance. Requested irrigation volume matches NTGCD allowance.

721.8 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 259.4 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 1366.4 acres in Denton and Collin County, TX.
   ii) Location of land to be irrigated: In the _____ Original Survey No. _____, Abstract No._____.
   A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.
   If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.

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

Multiple surveys. See attached Tax Parcel Info Document.

2. Amendments - Purpose or Place of Use (Instructions, Page. 12)

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

Quantity (acre-feet)	Existing Purpose(s) of Use	Proposed Purpose(s) of Use*	Existing Place(s) of Use	Proposed Place(s) of Use**

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

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

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

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

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

ii) Location of land to be irrigated: In the _____Original Survey No. _____, Abstract No._____.
A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.

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

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

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

e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required. N/A

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: Future Pond 1 (Unofficial Name)

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 17.4.

c. The impoundment is on-channel X 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 Warren Samuelson, 3/19/2021

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: 2.9 .

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 0.4084 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the William E. Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

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

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

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

Latitude 33.195558 °N, Longitude -96.852379 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

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: Future Pond 2 (Unofficial Name)

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 52.4.

c. The impoundment is on-channel X 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 Warren Samuelson, 3/19/2021

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: 8.7.

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 0.3831 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the William E. Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

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

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

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

Latitude 33.194060 °N, Longitude -96.850795 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

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: Future Pond 3 (Unofficial Name)

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 37.2.

c. The impoundment is on-channel X 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 Warren Samuelson, 3/19/2021

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: 5.6.

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 0.2172 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the William E. Bates Original Survey No. _____, Abstract No. 90, _____ Denton County, Texas.

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

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

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

Latitude 33.193505 °N, Longitude -96.844845 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

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: Future Pond 4 (Unofficial Name)

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 9.3

c. The impoundment is on-channel X 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**

Pond layout is conceptual. Co-ordination with TCEQ Dam Safety will occur before beginning construction.

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: 1.8.

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 0.0622 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the William E. Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

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

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

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

Latitude 33.197767 °N, Longitude -96.848900 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

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: Future Pond 5 (Unofficial Name)

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 17.2

c. The impoundment is on-channel X 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:

Pond layout is conceptual. Coordination with TCEQ Dam Safety will occur before beginning construction.

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: 2.7.

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 0.0622 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the William E. Bates Original Survey No. _____, Abstract No. 90, _____, Denton County, Texas.

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

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

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

Latitude 33.197527 °N, Longitude -96.846496 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

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: Future Pond 6 (Unofficial Name)

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 23.6

c. The impoundment is on-channel_X___ 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:

Pond layout is conceptual. Co-ordination with TCEQ Dam Safety will occur before beginning construction.

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: 3.5.

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 0.1032 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the Carter Jackson Survey Original Survey No. _____, Abstract No. 665 _____, Denton County, Texas.

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

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

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

Latitude 33.215704 °N, Longitude -96.855873 °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) AutoCAD Civil 3d

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

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:_ Existing Pond 7 (Unofficial Name) _____

b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: 10.4

c. The impoundment is on-channel X 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: Unknown

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**

Unknown

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**

Unknown

ii. For **any** proposed new structures or modifications to structures: N/A

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: 2.7.

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 0.5382 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. In the Louisa Netherly Survey Original Survey No. _____, Abstract No. 962, Denton County, Texas.

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

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

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

Latitude 33.214772 °N, Longitude -96.850143 °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): AutoCAD Civil 3D

dii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. (Y) / N

Diversion Point 1

WORKSHEET 3.0
DIVERSION POINT (OR DIVERSION REACH) INFORMATION

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

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

1. Diversion Information (Instructions, Page. 24)

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

1. X Diversion Point No.
2. _____ Upstream Limit of Diversion Reach No.
3. _____ Downstream Limit of Diversion Reach No.

b. Maximum Rate of Diversion for **this new point** 5.8 cfs (cubic feet per second) or 2600 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** N/A

*** 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	
X	From an on-channel reservoir	Proposed
	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 0.3831 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. Location of point: In the William E. Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

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

d. Point is at:
Latitude 33.193564 °N, Longitude -96.847142 °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): AutoCAD Civil 3D

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.

Diversion Point 2

WORKSHEET 3.0
DIVERSION POINT (OR DIVERSION REACH) INFORMATION

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

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

1. Diversion Information (Instructions, Page. 24)

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

1. X Diversion Point No.
2. _____ Upstream Limit of Diversion Reach No.
3. _____ Downstream Limit of Diversion Reach No.

b. Maximum Rate of Diversion for **this new point** 3.3 cfs (cubic feet per second) or 1500 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** N/A

*** 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	
X	From an on-channel reservoir	Proposed
	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 0.1514 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. Location of point: In the William E. Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

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

d. Point is at:
Latitude 33.192178 °N, Longitude -96.841914 °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): AutoCAD Civil 3D

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.

Diversion Point 3

WORKSHEET 3.0
DIVERSION POINT (OR DIVERSION REACH) INFORMATION

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

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

1. Diversion Information (Instructions, Page. 24)

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

1. X Diversion Point No.
2. _____ Upstream Limit of Diversion Reach No.
3. _____ Downstream Limit of Diversion Reach No.

b. Maximum Rate of Diversion for **this new point** 0.9 cfs (cubic feet per second) or 400 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** N/A

*** 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	
X	From an on-channel reservoir	Proposed
	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 0.1032 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): Unnamed Tributary to Panther Creek

b. Zip Code: 75033

c. Location of point: In the Carter Jackson Survey Original Survey No. _____, Abstract No. 665, Denton County, Texas.

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

d. Point is at:
Latitude 33.216533 °N, Longitude -96.855000 °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): AutoCAD Civil 3D

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

Well 1

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 19.72 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 0.07 cfs or 29 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code: 75033

f. Location of point: In the William E Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

g. Point is at:
Latitude 33.195442 °N, Longitude 96.851981 °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): AutoCAD Civil 3D

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

Well #2

WORKSHEET 4.0
DISCHARGE INFORMATION

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation and irrigation

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 480.46 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 2.18 cfs or 977 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code: 75033

f. Location of point: In the William E Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

g. Point is at:
Latitude 33.193519 °N, Longitude 96.848242 °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): AutoCAD Civil 3D

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

Well #3

WORKSHEET 4.0
DISCHARGE INFORMATION

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation and irrigation

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 146.1 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 1.22 cfs or 548 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code: 75033

f. Location of point: In the William E Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

g. Point is at:
Latitude 33.192393 °N, Longitude 96.841926 °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): AutoCAD Civil 3D

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

Well #4

WORKSHEET 4.0
DISCHARGE INFORMATION

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 12.24 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 0.04 cfs or 18 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code: 75033

f. Location of point: In the William E Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

g. Point is at:

Latitude 33.197572 °N, Longitude 96.848447 °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): AutoCAD Civil 3D

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

Well #5

WORKSHEET 4.0
DISCHARGE INFORMATION

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 18.36 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 0.06 cfs or 27 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code. 75033

f. Location of point: In the William E Bates Original Survey No. _____, Abstract No. 90, Denton County, Texas.

g. Point is at:

Latitude 33.197922 °N, Longitude 96.845053 °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) AutoCAD Civil 3D

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

Well #6

WORKSHEET 4.0
DISCHARGE INFORMATION

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation and irrigation

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 48.7 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 0.33 cfs or 149 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code: 75033

f. Location of point: In the Louisa Netherly Original Survey No. _____, Abstract No. 962, Denton County, Texas.

g. Point is at:
Latitude 33.216503 °N, Longitude -96.854836 °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): AutoCAD Civil 3D

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

Well #7

WORKSHEET 4.0
DISCHARGE INFORMATION

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

a. The purpose of use for the water being discharged will be to replace water lost to evaporation and divert for recreation.

b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses N/A See calcs % and explain the method of calculation: The discharge will come from a groundwater well that will discharge into the proposed ponds.

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: Lower Trinity, Woodbine and Paluxy

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/gwdbrpt.asp. Additionally, provide well numbers or identifiers See attached, Groundwater Availability Evaluation Report.

3. Indicate how the groundwater will be conveyed to the stream or reservoir.
Groundwater will be pumped to recharge the existing pond through a proposed well.

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. A permit will be obtained prior to construction

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 18.36 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 0.06 cfs or 27 gpm.

c. Name of Watercourse as shown on Official USGS maps: Unnamed Tributary to Panther Creek

d. Zip Code: 75033

f. Location of point: In the Louisa Netherly Original Survey No. _____, Abstract No. 962, Denton County, Texas.

g. Point is at:
Latitude 33.215136 °N, Longitude -96.849917 °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): AutoCAD Civil 3D

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

WORKSHEET 5.0
ENVIRONMENTAL INFORMATION

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

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

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

a. Identify the appropriate description of the water body.

It is our understanding that Trinity River Basin is a SB3 basin, therefore according to Page 28 Section 1 is not required.

☐ 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).

b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

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

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

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

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 _____.

Since the source of pond water will be groundwater, Worksheet 6 not needed

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.**

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.

WRP:13761. FEES FROM THIS APPLICATION APPLY HERE.

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

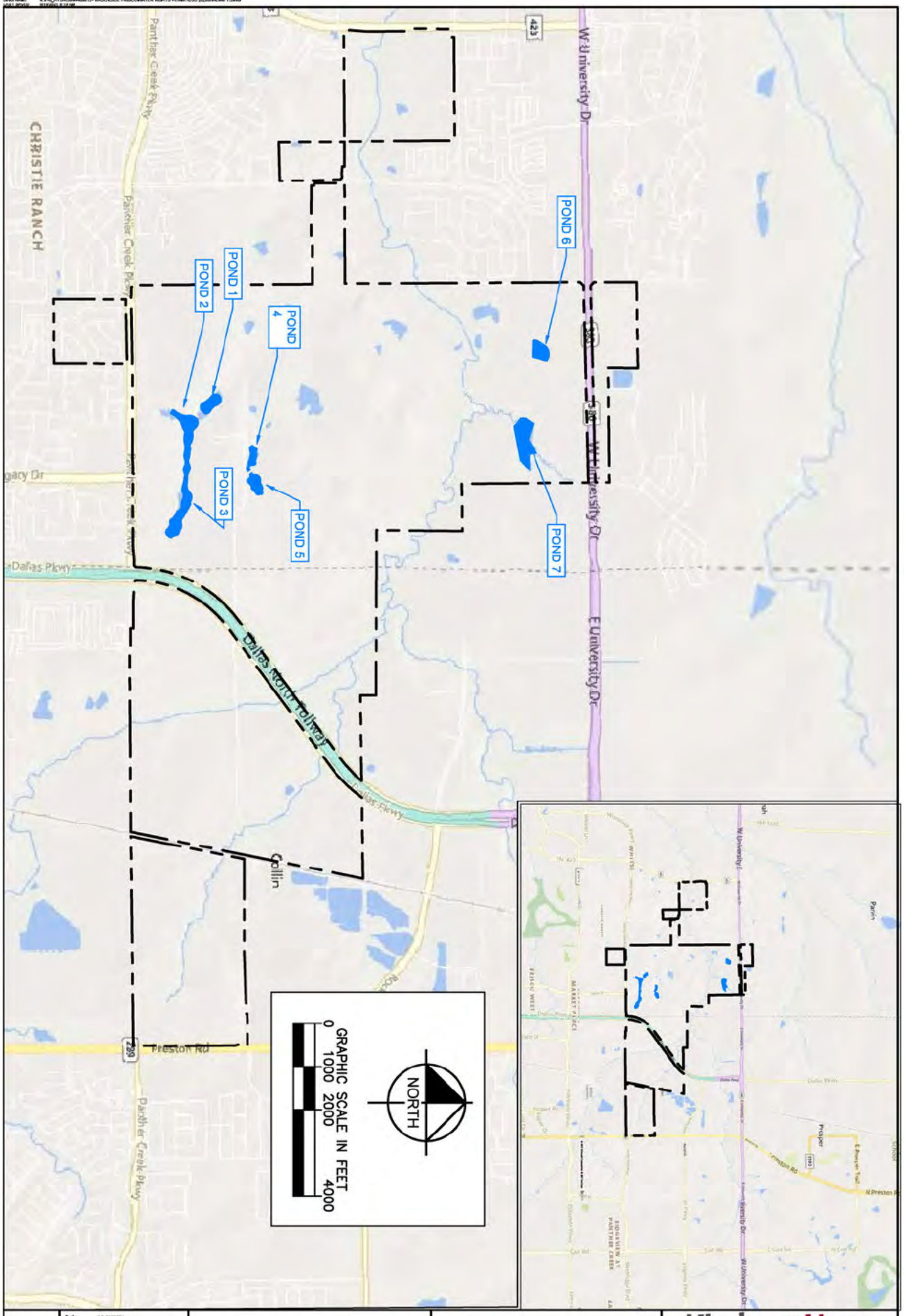
	Description	Amount ($)
Filing Fee	Circle fee correlating to the total amount of water* requested for any new appropriation and/or impoundment. Amount should match total on Worksheet 1, Section 1. Enter corresponding fee under **Amount ($).** In Acre-Feet a. Less than 100 $100.00 b. 100 - 5,000 $250.00 c. 5,001 - 10,000 $500.00 d. 10,001 - 250,000 $1,000.00 e. More than 250,000 $2,000.00	$250.00
Recording Fee		$25.00
Agriculture Use Fee	*Only for those with an Irrigation Use.* Multiply 50¢ x 320.8 Number of acres that will be irrigated with State Water. **	$160.40
Use Fee	*Required for all Use Types, **excluding Irrigation Use**.* Multiply $1.00 x _____ Maximum annual diversion of State Water in acre-feet. **	
Recreational Storage Fee	*Only for those with Recreational Storage.* Multiply $1.00 x 158.6 acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	$158.60
Storage Fee	*Only for those with Storage, **excluding Recreational Storage.*** 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.	$460.60
	TOTAL	$ 1054.60

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	$

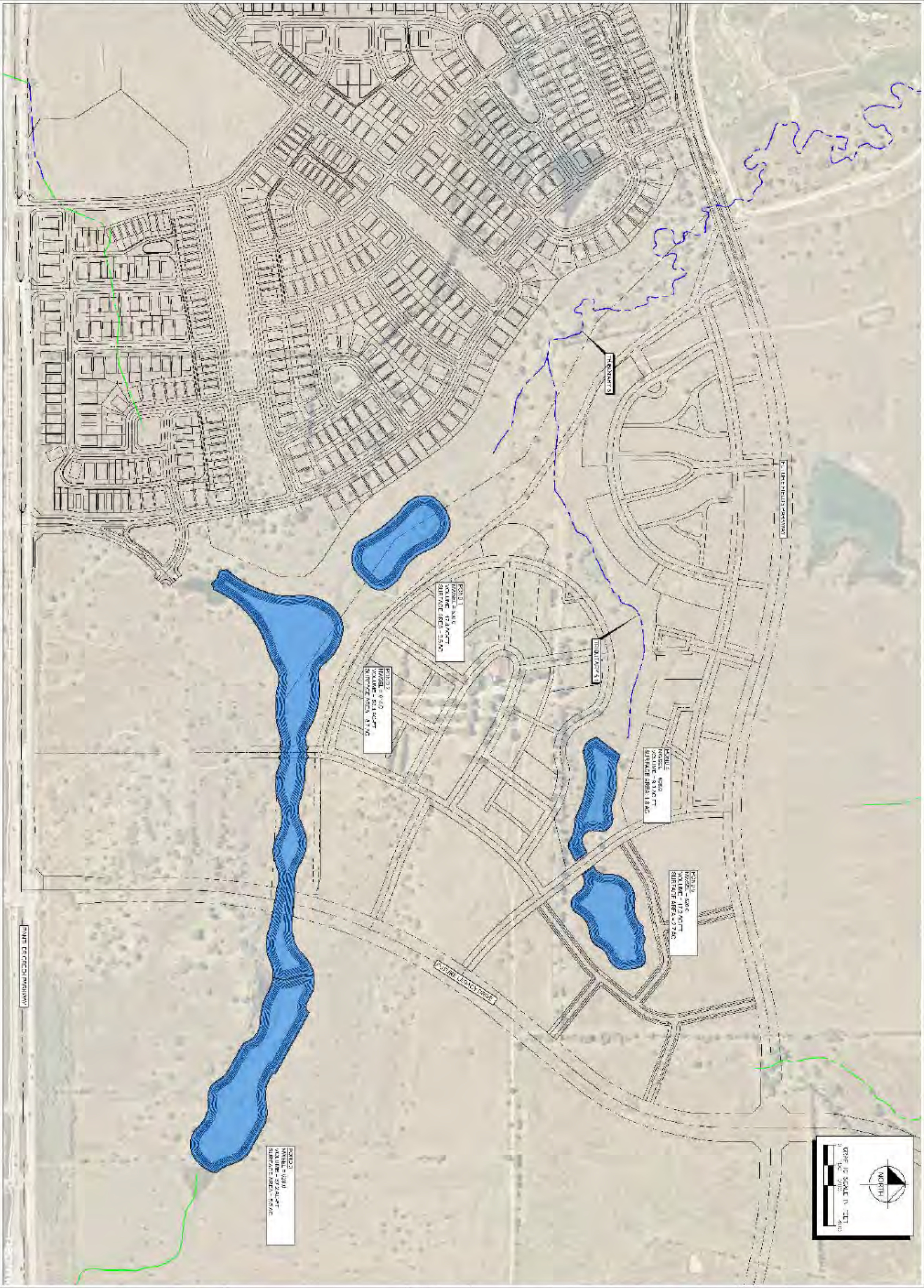
3. BED AND BANKS

	Description	Amount ($)
Filing Fee		$100.00
Recording Fee		$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	$



SHEET	Scale: AS SHOWN Designed by: NHA Drawn by: MHA Checked by: KAD Date: AUGUST 2021 Project No. 064450013	VICINITY MAP	FIELDS FRISCO, TEXAS

Kimley»Horn
6160 Warren Parkway, Suite 210
Frisco, Texas 75034
Engineering Firm Registration #F-928



EXH 1	PROPOSED POND EXHIBIT: SOUTH	FIELDS CITY OF FRISCO, TEXAS	PROJECT NO.	Kimley»Horn

No.	REVISIONS	DATE	BY

EXH 2	PROPOSED POND EXHIBIT: NORTH	FIELDS CITY OF FRISCO, TEXAS	Kimley»Horn TEXAS REGISTERED ENGINEERING FIRM F-928

DRAINAGE AREA MAP

FIELDS HQ
CITY OF FRISCO, TEXAS

EXH-1

Kimley»Horn

LEGEND

- CREEK FLOODPLAIN
- PANTHER CREEK WATERSHED
- PROPOSED DRAINAGE AREA
- COTTONWOOD BRANCH WATERSHED
- CITY LIMITS BOUNDARY
- PROPOSED DETENTION POND WITH CONSTANT POOL OF WATER
- SINGLE FAMILY RESIDENTIAL
- MIXED USE
- GREEN CENTER
- TRANSIT ORIENTED DEVELOPMENT
- SUBURBAN PARK
- COMMERCIAL
- INDUSTRIAL
- PARK
- ELEMENTARY SCHOOL
- SPORTS VILLAGE
- HYDROLOGY
- ROADS

NORTH

GRAPHIC SCALE IN FEET
0 500 1000 2000

HART HOWERTON
NEW YORK · SAN FRANCISCO

Hunt
REALTY INVESTMENTS

THE KARAHAN COMPANIES

FIELDS

Illustrative Plan

September 25, 2020

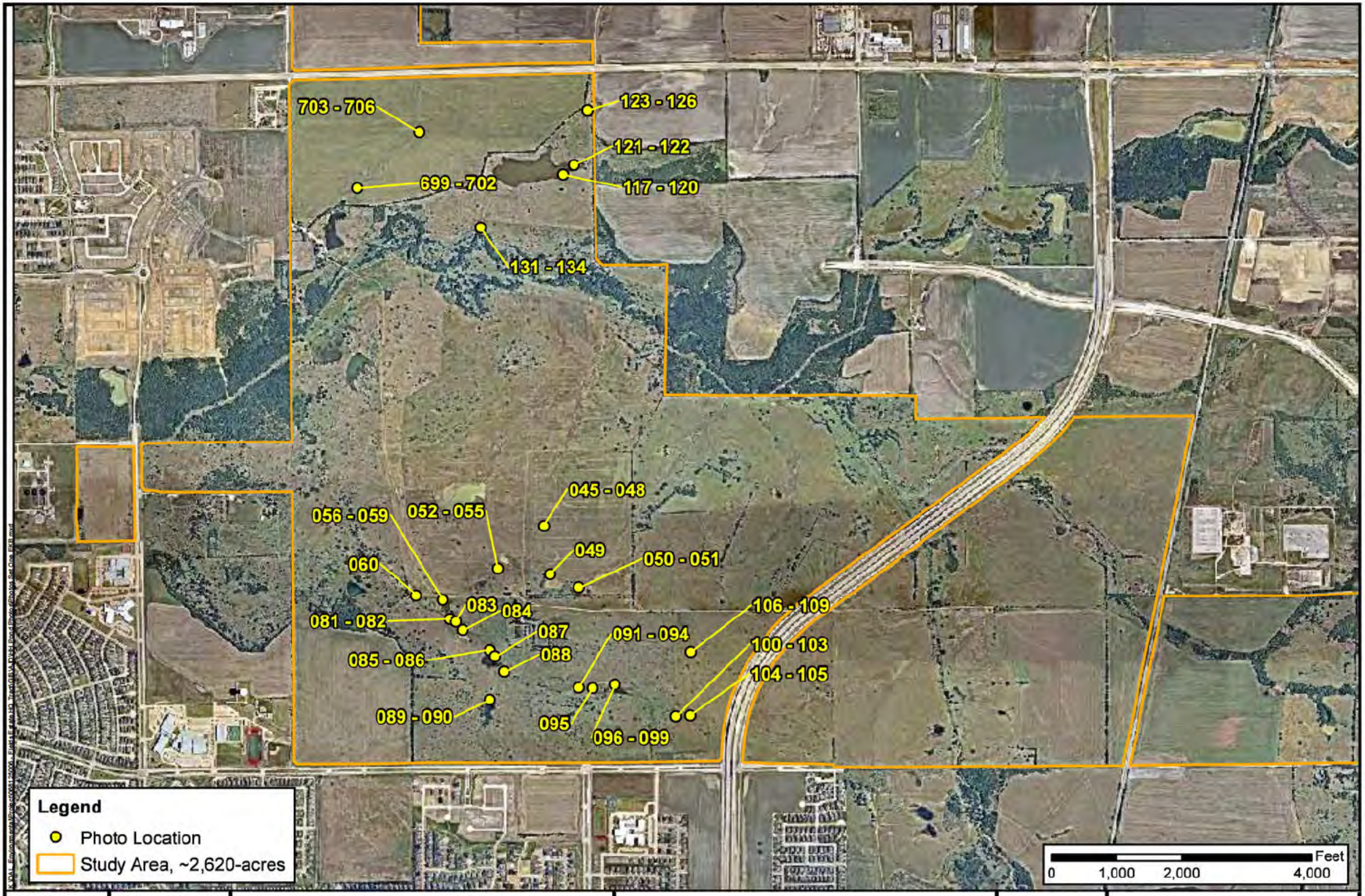


FIGURE		
1	DATE:	03/25/2021
	DESIGN:	EKB
	CHECKED:	AMB
	KHA NO.:	068125008

Photo Location Map

Photos taken 04/21/2017; 04/27-28-2017; 05/02/2017; 05/04/2017 and 05/18/2017
Aerial Source: Nearmap 2017

Fields HQ Tract
Collin/Denton County, Texas

Kimley»Horn

045

046

047

048

049

050

Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

051

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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699

Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

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Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

706

Photos were taken on 04/21/2017, 04/27-28/2017, 05/02/2017, 05/04/2017, and 05/18/2017

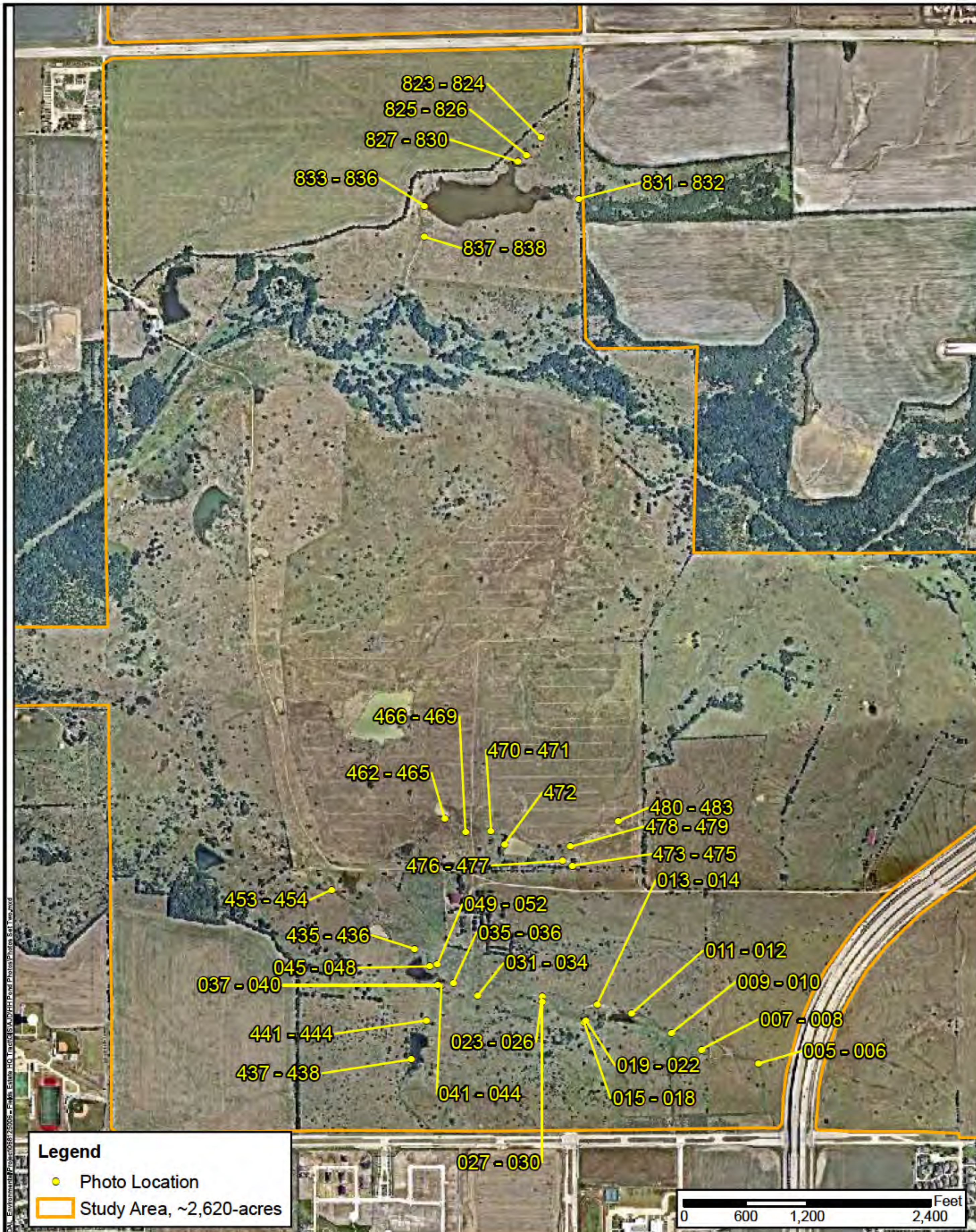


FIGURE 1	DATE: 03/25/2021 DRAWN: EKB CHECKED: AMB KHA NO.: 068125008	Photo Location Map Photo Dates: 06/13-14/2017; 06/20-22/2017 Aerial Photo: Nearmap, June 2017	Fields HQ Tract Collin/Denton Counties, Texas	N	Kimley»Horn This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

DSCN6384-005

DSCN6385-006

DSCN6386-007

DSCN6387-008

DSCN6388-009

DSCN6389-010

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6390-011

DSCN6391-012

DSCN6392-013

DSCN6393-014

DSCN6394-015

DSCN6395-016

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6396-017

DSCN6397-018

DSCN6398-019

DSCN6399-020

DSCN6400-021

DSCN6401-022

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6402-023

DSCN6403-024

DSCN6404-025

DSCN6405-026

DSCN6406-027

DSCN6407-028

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6408-029

DSCN6409-030

DSCN6410-031

DSCN6411-032

DSCN6412-033

DSCN6413-034

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6414-035

DSCN6415-036

DSCN6416-037

DSCN6417-038

DSCN6418-039

DSCN6419-040

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6420-041

DSCN6421-042

DSCN6422-043

DSCN6423-044

DSCN6424-045

DSCN6425-046

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6426-047

DSCN6427-048

DSCN6428-049

DSCN6429-050

DSCN6430-051

DSCN6431-052

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6435

DSCN6436

DSCN6437

DSCN6438

DSCN6441

DSCN6442

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6443

DSCN6444

DSCN6453

DSCN6454

DSCN6462

DSCN6463

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6464

DSCN6465

DSCN6466

DSCN6467

DSCN6468

DSCN6469

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6470

DSCN6471

DSCN6472

DSCN6473

DSCN6474

DSCN6475

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6476

DSCN6477

DSCN6478

DSCN6479

DSCN6480

DSCN6481

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6482

DSCN6483

DSCN6823

DSCN6824

DSCN6825

DSCN6826

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6827

DSCN6828

DSCN6829

DSCN6830

DSCN6831

DSCN6832

Photos were taken on 06/13-14/2017 and 06/20-22/2017

DSCN6833

DSCN6834

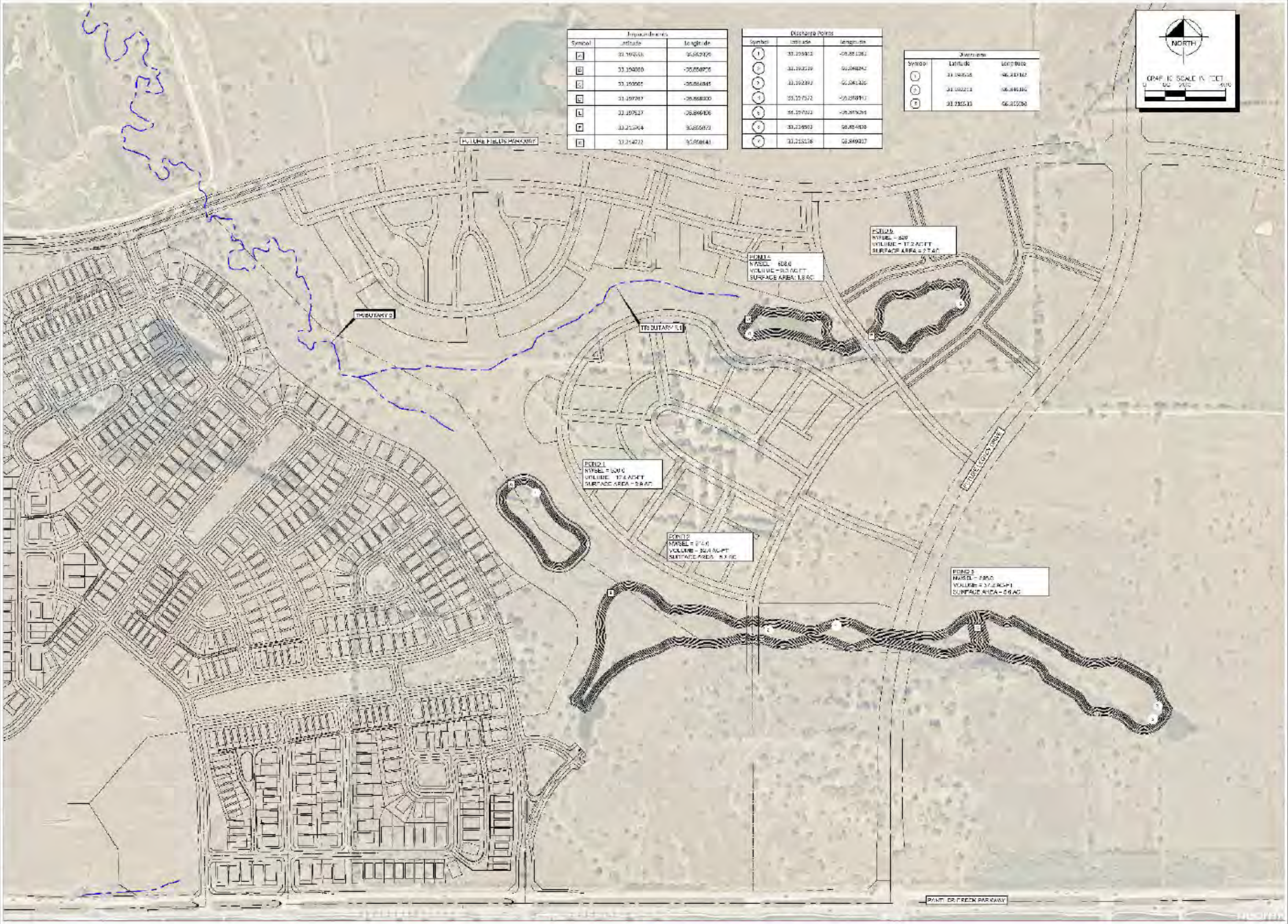
DSCN6835

DSCN6836

DSCN6837

DSCN6838

Photos were taken on 06/13-14/2017 and 06/20-22/2017



Impoundments		
Symbol	Latitude	Longitude
A	33.199556	-96.862929
B	33.194080	-96.850726
C	33.193505	-96.844845
D	33.197267	-96.848300
L	33.197527	-96.846406
F	33.215704	-96.856873
E	33.214722	-96.850141

Discharge Points		
Symbol	Latitude	Longitude
1	33.199402	-96.851361
2	33.192539	-96.848242
3	33.192192	-96.841326
4	33.197572	-96.848917
5	33.197533	-96.845264
6	33.214903	-96.854830
7	33.215136	-96.849317

Diversions		
Symbol	Latitude	Longitude
1	33.198638	-96.843162
2	33.192211	-96.846106
3	33.210513	-96.855060

DIVERSION AND DISCHARGE EXHIBIT: SOUTH

FIELDS
CITY OF FRISCO, TEXAS

PROJECT NO.
DATE
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Kimley»Horn

NO.	REVISIONS	DATE	BY

SHEET NUMBER
EXH 1

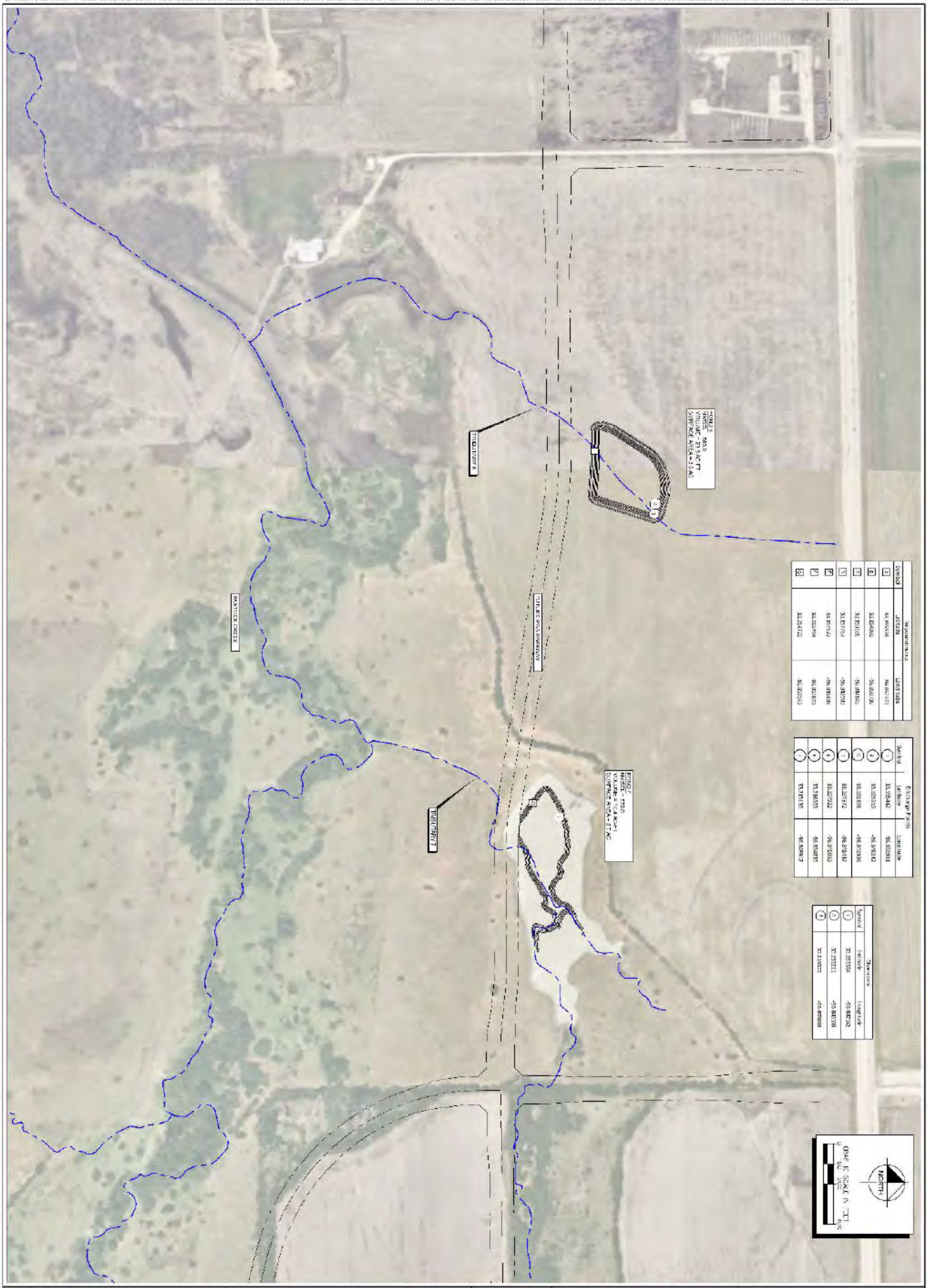
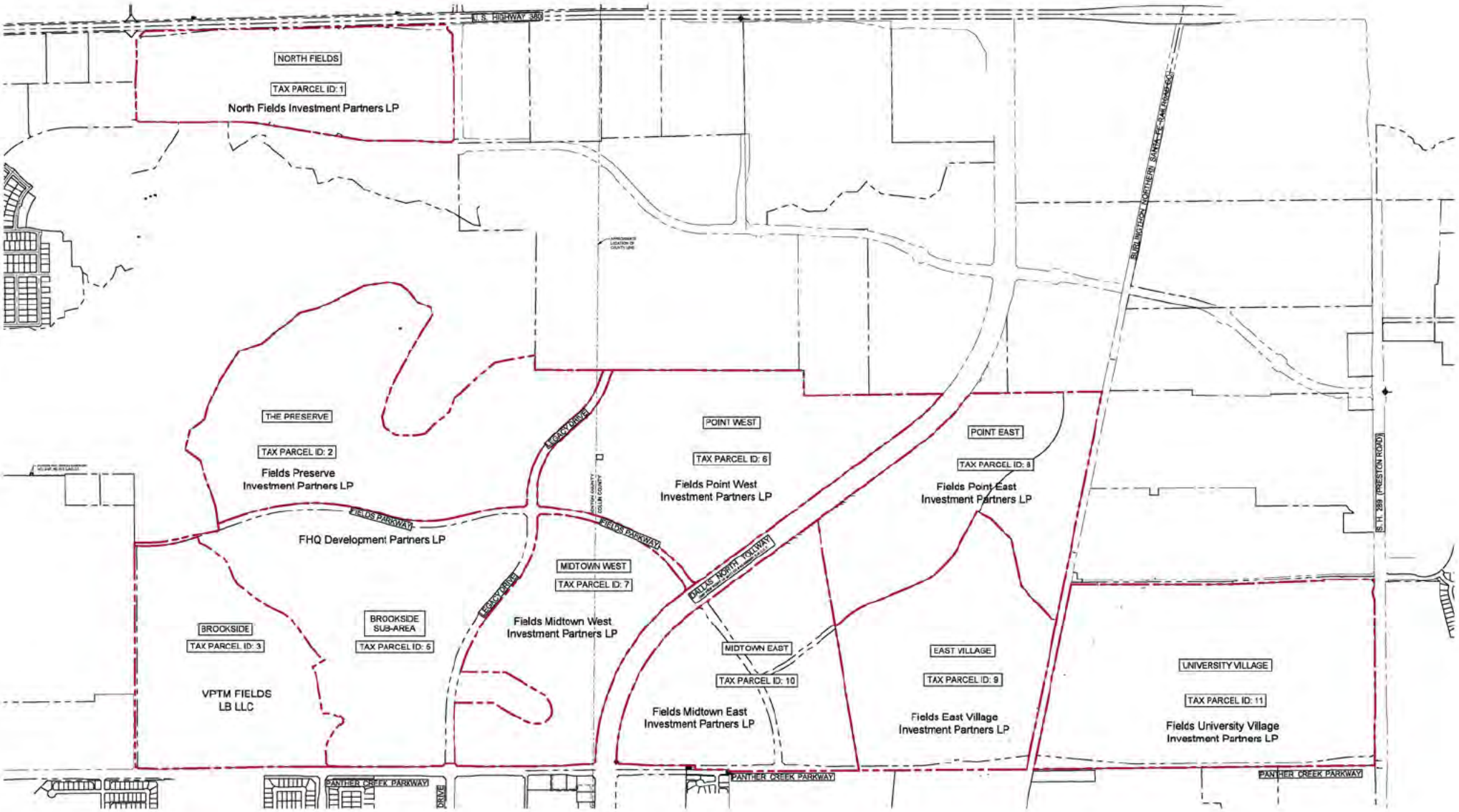


EXHIBIT 2
DIVERSION AND DISCHARGE EXHIBIT: NORTH
FIELDS
CITY OF FRISCO, TEXAS
Kimley»Horn
NO. REVISIONS DATE BY



Entity & Tax Parcel ID Exhibit

Frisco, Texas
August 2021

FIELDS

AFFIDAVIT OF CHANGE OF NAME OF FHQ HOLDINGS LP TO FHQ DEVELOPMENT PARTNERS LP

STATE OF TEXAS §
§
COUNTIES OF COLLIN AND § DENTON §

Before me, the undersigned notary public, FHQ Development Partners LP, a Delaware limited partnership ("**Owner**"), states the following and executes this Affidavit:

1. The document attached hereto as **Exhibit A** is a true and correct copy of that certain Certificate of Amendment to the Certificate of Limited Partnership of FHQ Holdings LP, whereby the name of Owner was changed from "FHQ Holdings LP" to "FHQ Development Partners LP", filed with the Office of the Secretary of State of the State of Delaware on July 12, 2021 (the "**Amendment**").

2. Owner owns certain interests in property and related assets and rights in Collin and Denton Counties, Texas (the "**Property**").

3. The purpose of this Affidavit is to reflect the ownership of the Property as being in the name of Owner as changed pursuant to the Amendment.

Executed this 12th day of July, 2021.

FHQ DEVELOPMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ HOLDINGS GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

ACKNOWLEDGMENT

STATE OF TEXAS)
)
COUNTY OF DALLAS)

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ DEVELOPMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

Frances Harper
Notary Public, State of Texas

Exhibit A

Certificate of Amendment

[see attached]

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "FHQ HOLDINGS LP", CHANGING ITS NAME FROM "FHQ HOLDINGS LP" TO "FHQ DEVELOPMENT PARTNERS LP", FILED IN THIS OFFICE ON THE TWELFTH DAY OF JULY, A.D. 2021, AT 6:29 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

6996025 8100
SR# 20212684654

Authentication: 203658402
Date: 07-13-21

You may verify this certificate online at corp.delaware.gov/authver.shtml

CERTIFICATE OF AMENDMENT
TO THE
CERTIFICATE OF LIMITED PARTNERSHIP
OF
FHQ HOLDINGS LP

The undersigned, desiring to amend the Certificate of Limited Partnership of FHQ Holdings LP pursuant to the provisions of Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, does hereby certify as follows:

FIRST: The name of the limited partnership is FHQ Holdings LP.

SECOND: Article 1 of the Certificate of Limited Partnership shall be amended to read as follows:

1. Name. The name of the limited partnership is FHQ Development Partners LP.

THIRD: Article 2 of the Certificate of Limited Partnership shall be amended to read as follows:

2. Registered Office and Registered Agent. The address of the registered office of the Partnership in the State of Delaware is 1675 S. State St., Ste. B, Dover, Delaware 19901, and the Partnership's registered agent at that address is Capitol Services, Inc.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Amendment to the Certificate of Limited Partnership as of this 12th day of July, 2021.

GENERAL PARTNER:

FHQ HOLDINGS GP LLC

By: _____
Name: Todd M. Watson
Title: Vice President

State of Delaware
Secretary of State
Division of Corporations
Delivered 06:29 PM 07/12/2021
FILED 06:29 PM 07/12/2021
SR 20212084654 - File Number 6996025

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/15/2021 02:44:41 PM
$46.00 DFOSTER
20210715001430000

Denton County
Juli Luke
County Clerk

Instrument Number: 127601

ERecordings-RP

AFFIDAVIT

Recorded On: July 15, 2021 12:25 PM

Number of Pages: 7

" Examined and Charged as Follows: "

Total Recording: $50.00

********** **THIS PAGE IS PART OF THE INSTRUMENT** **********
Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number:	127601
Receipt Number:	20210715000448
Recorded Date/Time:	July 15, 2021 12:25 PM
User:	Terri B
Station:	Station 20

Record and Return To:

eRecording Partners

STATE OF TEXAS
COUNTY OF DENTON

I hereby certify that this Instrument was FILED In the File Number sequence on the date/time printed hereon, and was duly RECORDED in the Official Records of Denton County, Texas.

Juli Luke
County Clerk
Denton County, TX

AFFIDAVIT OF CHANGE OF NAME OF FHQ HOLDINGS LP TO FHQ DEVELOPMENT PARTNERS LP

STATE OF TEXAS §
§
COUNTIES OF COLLIN AND § DENTON §

Before me, the undersigned notary public, FHQ Development Partners LP, a Delaware limited partnership ("**Owner**"), states the following and executes this Affidavit:

1. The document attached hereto as **Exhibit A** is a true and correct copy of that certain Certificate of Amendment to the Certificate of Limited Partnership of FHQ Holdings LP, whereby the name of Owner was changed from "FHQ Holdings LP" to "FHQ Development Partners LP", filed with the Office of the Secretary of State of the State of Delaware on July 12, 2021 (the "**Amendment**").

2. Owner owns certain interests in property and related assets and rights in Collin and Denton Counties, Texas (the "**Property**").

3. The purpose of this Affidavit is to reflect the ownership of the Property as being in the name of Owner as changed pursuant to the Amendment.

Executed this 12th day of July, 2021.

FHQ DEVELOPMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ HOLDINGS GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

ACKNOWLEDGMENT

STATE OF TEXAS)
)
COUNTY OF DALLAS)

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ DEVELOPMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

Frances Harper
Notary Public, State of Texas

Exhibit A

Certificate of Amendment

[see attached]

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "FHQ HOLDINGS LP", CHANGING ITS NAME FROM "FHQ HOLDINGS LP" TO "FHQ DEVELOPMENT PARTNERS LP", FILED IN THIS OFFICE ON THE TWELFTH DAY OF JULY, A.D. 2021, AT 6:29 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

6996025 8100
SR# 20212684654

Authentication: 203658402
Date: 07-13-21

You may verify this certificate online at corp.delaware.gov/authver.shtml

CERTIFICATE OF AMENDMENT
TO THE
CERTIFICATE OF LIMITED PARTNERSHIP
OF
FHQ HOLDINGS LP

The undersigned, desiring to amend the Certificate of Limited Partnership of FHQ Holdings LP pursuant to the provisions of Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, does hereby certify as follows:

FIRST: The name of the limited partnership is FHQ Holdings LP.

SECOND: Article 1 of the Certificate of Limited Partnership shall be amended to read as follows:

1. Name. The name of the limited partnership is FHQ Development Partners LP.

THIRD: Article 2 of the Certificate of Limited Partnership shall be amended to read as follows:

2. Registered Office and Registered Agent. The address of the registered office of the Partnership in the State of Delaware is 1675 S. State St., Ste. B, Dover, Delaware 19901, and the Partnership's registered agent at that address is Capitol Services, Inc.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Amendment to the Certificate of Limited Partnership as of this 12th day of July, 2021.

GENERAL PARTNER:

FHQ HOLDINGS GP LLC

By: _____
Name: Todd M. Watson
Title: Vice President

State of Delaware
Secretary of State
Division of Corporations
Delivered 06:29 PM 07/12/2021
FILED 06:29 PM 07/12/2021
SR 20212084654 - File Number 6996025

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "FHQ HOLDINGS LP", CHANGING ITS NAME FROM "FHQ HOLDINGS LP" TO "FHQ DEVELOPMENT PARTNERS LP", FILED IN THIS OFFICE ON THE TWELFTH DAY OF JULY, A.D. 2021, AT 6:29 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

6996025 8100
SR# 20212684654

Authentication: 203658402
Date: 07-13-21

You may verify this certificate online at corp.delaware.gov/authver.shtml

CERTIFICATE OF AMENDMENT
TO THE
CERTIFICATE OF LIMITED PARTNERSHIP
OF
FHQ HOLDINGS LP

The undersigned, desiring to amend the Certificate of Limited Partnership of FHQ Holdings LP pursuant to the provisions of Section 17-202 of the Delaware Revised Uniform Limited Partnership Act, does hereby certify as follows:

FIRST: The name of the limited partnership is FHQ Holdings LP.

SECOND: Article 1 of the Certificate of Limited Partnership shall be amended to read as follows:

1. Name. The name of the limited partnership is FHQ Development Partners LP.

THIRD: Article 2 of the Certificate of Limited Partnership shall be amended to read as follows:

2. Registered Office and Registered Agent. The address of the registered office of the Partnership in the State of Delaware is 1675 S. State St., Ste. B, Dover, Delaware 19901, and the Partnership's registered agent at that address is Capitol Services, Inc.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Amendment to the Certificate of Limited Partnership as of this 12th day of July, 2021.

GENERAL PARTNER:

FHQ HOLDINGS GP LLC

By: _____
Name: Todd M. Watson
Title: Vice President

State of Delaware
Secretary of State
Division of Corporations
Delivered 06:29 PM 07/12/2021
FILED 06:29 PM 07/12/2021
SR 20212684654 - File Number 6996025

Denton County
Juli Luke
County Clerk

Instrument Number: 125158

ERecordings-RP

WARRANTY DEED

Recorded On: July 12, 2021 03:51 PM

Number of Pages: 11

" Examined and Charged as Follows: "

Total Recording: $66.00

********** **THIS PAGE IS PART OF THE INSTRUMENT** **********
Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number:	125158
Receipt Number:	20210712000801
Recorded Date/Time:	July 12, 2021 03:51 PM
User:	Debra B
Station:	Station 42

Record and Return To:

eRecording Partners

STATE OF TEXAS
COUNTY OF DENTON

I hereby certify that this Instrument was FILED In the File Number sequence on the date/time printed hereon, and was duly RECORDED in the Official Records of Denton County, Texas.

Juli Luke
County Clerk
Denton County, TX

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF DENTON §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS BROOKSIDE INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Denton County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and of record, if any, in Denton County, Texas, affecting the Property, (ii) all other matters which a

physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 9, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS BROOKSIDE INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS BROOKSIDE INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/16/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the W. H. Bates Survey, Abstract No. 83, William E. Bates Survey, Abstract No. 90 and the Memphis, El Paso and Pacific Railroad Company Survey, Abstract No. 941, City of Frisco, Denton County, Texas and being part of the remainder of Tract 3, a called 1,722.364 acre tract of land described in a Special Warranty Deed to FHQ Holdings LP, as recorded in Instrument No. 2018-93106 of the Official Records of said county, and being more particularly described by metes and bounds as follows:

BEGINNING at a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found on the north right of way line of Panther Creek Parkway, a variable width right of way, as described in a deed to the City of Frisco, recorded in Instrument No. 2008-9796 of said Official Records and on the east line of Lone Star High School, an addition to the City of Frisco, according to the plat, recorded in Document No. 2009-135 of the Plat Records of said county, for the most westerly, southwest corner of said Tract 3;

THENCE North 00°13'48" West, leaving the north right-of-way line of said Panther Creek Parkway and along the east line of said Lone Star High School, common to the west line of said Tract 3, a distance of 437.66 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

THENCE leaving said common line and crossing said Tract 3, the following courses and distances:

North 89°46'12" East, a distance of 512.53 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

North 40°52'11" East, a distance of 439.31 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

North 82°27'31" East, a distance of 202.74 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

North 9°37'01" West, a distance of 84.86 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a tangent curve to the left having a central angle of 39°08'36", a radius of 220.00 feet, and a chord bearing and distance of North 29°11'19" West, 147.39 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 150.30 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the end of said curve;

North 48°45'37" West, a distance of 412.77 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 84°24'12" West, a distance of 14.38 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 40°32'32" West, a distance of 586.62 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a tangent curve to the right having a central angle of 48°54'42", a radius of 280.00 feet, and a chord bearing and distance of South 64°59'52" West, 231.83 feet;

In a southwesterly direction, with said curve to the right, an arc distance of 239.03 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the end of said curve, being on the common line of said Tract 3 and said Lone Star High School;

THENCE North 00°13'48" West, along west line of said Tract 3, the east line of said Lone Star High School and the east line of a called 219.034 acre tract described in a deed to the City of Frisco, as recorded in Volume 4205, Page 111 of the Deed Records of said county, a distance of 2,428.40 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

THENCE leaving the west line of said Tract 3 and the east line of said 219.034 acre tract and crossing said Tract 3, the following courses and distances:

South 89°52'38" East, a distance of 174.39 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a tangent curve to the left having a central angle of 18°41'06", a radius of 2045.00 feet, a chord bearing and distance of North 80°46'48" East, 663.96 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 666.91 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

North 71°26'15" East, a distance of 66.38 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 18°33'45" East, a distance of 90.51 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 69°33'15" East, a distance of 87.24 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 57°32'28" East, a distance of 115.94 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 52°30'02" East, a distance of 143.91 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 50°33'28" East, a distance of 85.28 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 43°30'34" East, a distance of 65.38 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 22°48'16" East, a distance of 159.16 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 16°32'26" East, a distance of 75.33 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 33°27'53" East, a distance of 105.37 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 53°04'35" East, a distance of 321.74 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 55°44'13" East, a distance of 50.05 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 54°00'37" East, a distance of 136.15 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 64°36'25" East, a distance of 68.14 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 64°56'02" East, a distance of 50.00 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 64°57'40" East, a distance of 153.47 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 54°23'54" East, a distance of 84.46 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 46°41'40" East, a distance of 84.46 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 40°11'55" East, a distance of 81.29 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 37°01'42" East, a distance of 70.00 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 31°26'25" East, a distance of 50.24 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 37°01'42" East, a distance of 71.66 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 35°22'39" East, a distance of 72.74 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 33°53'11" East, a distance of 72.74 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 32°23'44" East, a distance of 72.74 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 39°04'26" East, a distance of 73.62 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 47°31'41" East, a distance of 77.14 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 56°01'43" East, a distance of 87.09 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 62°04'38" West, a distance of 202.17 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a non-tangent curve to the right having a central angle of 15°24'42", a radius of 1,020.00 feet, and a chord bearing and distance of South 17°05'39" East, 273.54 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 274.36 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the end of said curve;

South 09°23'18" East, a distance of 404.90 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 54°50'42" East, a distance of 14.03 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a non-tangent curve to the right having a central angle of 44°57'27", a radius of 280.00 feet, and a chord bearing and distance of South 76°48'11" East, 214.11 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 219.70 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the end of said curve;

North 87°33'23" East, a distance of 15.51 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

North 48°24'50" East, a distance of 26.88 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

South 41°35'10" East, a distance of 80.00 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

South 48°24'50" West, a distance of 20.00 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

South 00°54'43" West, a distance of 13.51 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

South 46°35'23" East, a distance of 12.53 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

South 43°22'05" West, a distance of 57.00 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

North 46°35'23" West, a distance of 10.50 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set;

North 89°28'39" West, a distance of 14.65 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a non-tangent curve to the left having a central angle of 37°33'49", a radius of 632.73 feet, and a chord bearing and distance of South 28°22'37" West, 407.43 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 414.82 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a non-tangent curve to the left having a central angle of 17°51'51", a radius of 150.00 feet, and a chord bearing and distance of South 00°38'26" West, 46.58 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 46.77 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a reverse curve to the right having a central angle of 08°17'29", a radius of 500.00 feet, and a chord bearing and distance of South 4°08'45" East, 72.29 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 72.36 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the end of said curve;

South 00°01'31" East, a distance of 81.46 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

South 45°01'37" East, a distance of 56.57 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set for corner;

North 89°58'17" East, a distance of 95.50 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a tangent curve to the right having a central angle of 10°34'30", a radius of 290.00 feet, and a chord bearing and distance of South 84°44'28" East, 53.45 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 53.52 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set at the beginning of a reverse curve to the left having a central angle of 10°34'18", a radius of 270.00 feet, and a chord bearing and distance of South 84°44'22" East, 49.75 feet;

In a southeasterly direction, with said curve to the left, an arc distance of 49.82 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", set on the south line of said Tract 3 and the north right-of-way line of the aforementioned Panther Creek Parkway;

THENCE along the south line of said Tract 3 and the north right-of-way line of said Panther Creek Parkway, the following courses and distances:

South 89°58'29" West, a distance of 1,025.05 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found at the beginning of a tangent curve to the left having a central angle of 1°08'54", a radius of 10,060.00 feet, and a chord bearing and distance of South 89°24'02" West, 201.62 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 201.62 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found at the end of said curve;

South 88°49'35" West, a distance of 1,329.26 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found at the beginning of a tangent curve to the right having a central angle of 00°23'57", a radius of 9,940.00 feet, and a chord bearing and distance of South 89°01'34" West, 69.27 feet;

In a southwesterly direction, with said curve to the right, an arc distance of 69.27 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found at the end of said curve;

North 86°33'35" West, a distance of 146.68 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found for corner;

South 89°37'34" West, a distance of 140.49 feet to a 5/8 inch iron rod with a red plastic cap, stamped "KHA", found for corner;

North 45°22'39" West, a distance of 24.04 feet to a 1/2 inch iron rod found for corner;

South 89°37'34" West, a distance of 30.00 feet to the **POINT OF BEGINNING** and containing 155.992 acres or 6,795,006 square feet of land, more or less.

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF COLLIN §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS EAST VILLAGE INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and of record, if any, in Collin County, Texas, affecting the Property, (ii) all other matters which a

physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 9, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS EAST VILLAGE INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS EAST VILLAGE INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 148, and the William Rogers Survey, Abstract No. 780, City of Frisco, Collin County, Texas and being a portion of a called 545.090-acre tract of land described as Tract 2 in a deed to FHQ Holdings LP, recorded in Instrument No. 20180807000990770, Official Public Records of Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a 1/2-inch iron rod found for the southeast corner of said Tract 2, common to the northwest corner of a called 80.006-acre tract of land described in a deed to Belknap FP, LTD., recorded in Volume 4288, Page 162, Deed Records, Collin County, Texas, same being on the westerly line of a 100-foot wide right-of-way to the Burlington Northern Santa Fe Railroad Company, recorded in Volume 128, Page 319, said Deed Records, same also being in a gravel road, known as Panther Creek Parkway (public use right-of-way, no record found);

THENCE South 89°37'33" West, along the common line of said Tract 2 and said 80.006-acre tract and along the northerly line of a called 137.311-acre tract of land described in a deed to Belknap FP, LTD., recorded in Volume 4288, Page 152, said Deed Records, and generally along said Panther Creek Parkway, a distance of 2393.12 feet to a point for corner;

THENCE departing the southerly line of said Tract 2 and the northerly line of said 137.311-acre tract and said Panther Creek Parkway and crossing said Tract 2 the following courses and distances:

North 9°25'44" West, a distance of 2089.36 feet to a point for corner;

North 51°58'34" East, a distance of 283.93 feet to a point at the beginning of a tangent curve to the right having a central angle of 15°57'13", a radius of 1000.15 feet, a chord bearing and distance of North 59°57'11" East, 277.59 feet;

In a northeasterly direction, with said curve to the right, an arc distance of 278.49 feet to a point for the end of said curve to the right;

North 67°55'48" East, a distance of 743.47 feet to a point at the beginning of a tangent curve to the left having a central angle of 40°21'11", a radius of 1200.18 feet, a chord bearing and distance of North 47°45'12" East, 827.92 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 845.28 feet to a point for the end of said curve to the left;

North 27°34'37" East, a distance of 557.47 feet to a point for corner;

South 62°25'23" East, a distance of 225.00 feet to a point for corner;

South 44°47'21" East, a distance of 420.86 feet to a point for corner;

South 11°37'14" East, a distance of 677.63 feet to a point for corner;

South 42°55'11" East, a distance of 637.50 feet to a point for corner;

South 78°40'51" East, a distance of 75.00 feet to a point for corner on the common line of said Tract 2 and the aforementioned Burlington tract;

THENCE South 11°19'09" West, a distance of 2183.83 feet to the **POINT OF BEGINNING** and containing 182.31 acres (7,941,435 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$50.00 CARLA
20210713001409860

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF COLLIN §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS MIDTOWN EAST INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and of record, if any, in Collin County, Texas, affecting the Property, (ii) all other matters which a

physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 9, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS MIDTOWN EAST INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS MIDTOWN EAST INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Charles L. Smith Survey, Abstract No. 807, the Collin County School Land Survey, Abstract No. 148, and the William Rogers Survey, Abstract No. 780, City of Frisco, Collin County, Texas and being a portion of a called 545.090-acre tract of land described as Tract 2 in a deed to FHQ Holdings LP, recorded in Instrument No. 20180807000990770, Official Public Records of Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at the south corner of a corner clip at the intersection of the northerly right-of-way line of Panther Creek Parkway (variable width right-of-way, Document No. 2008-9801, said Official Records, and Instrument No. 20060131000133560, Official Public Records, Collin County, Texas) and the easterly right-of-way line of Dallas North Tollway (300-foot wide right-of-way, County Clerk's File No. 95-0069693, Deed Records, Collin County, Texas), common to a southwest corner of said Tract 2;

THENCE North 44°36'07" West, along said corner clip, a distance of 56.26 feet to the north corner of said corner clip;

THENCE along the common line of said Tract 2 and said Dallas North Tollway the following courses and distances:

> North 0°50'08" East, a distance of 6.98 feet to a point at the beginning of a tangent curve to the right having a central angle of 52°44'23", a radius of 2714.79 feet, a chord bearing and distance of North 27°12'20" East, 2411.62 feet;
>
> In a northeasterly direction, with said curve to the right, an arc distance of 2498.91 feet to a point for the end of said curve to the right;
>
> North 53°34'31" East, a distance of 2189.63 feet to a point for corner;

THENCE South 9°25'44" East, departing said common line and crossing said Tract 2, a distance of 3631.57 feet to a point for corner on the southerly line of said Tract 2, same being on the northerly line of a called 137.311-acre tract of land described in a deed to Belknap FP, LTD., recorded in Volume 4288, Page 152, said Deed Records, same also being in a gravel road, known as Panther Creek Parkway (public use right-of-way, no record found);

THENCE South 89°37'33" West, along the common line of said Tract 2 and said 137.311-acre tract and along said Panther Creek Parkway (no record found), a distance of 1859.67 feet to the northwest corner of said 137.311-acre tract, same being on the easterly line of Estates at Cobb Hill, Phase 2, an Addition to the City of Frisco, Texas, according to the plat thereof recorded in Volume 2006, Page 465, Plat Records, Collin County, Texas;

THENCE North 0°14'24" West, along the common line of said Tract 2 and said Estates at Cobb Hill, Phase 2, and along Panther Creek Parkway (Volume 2006, Page 465, said Plat Records), a distance of 23.35 feet to a 1/2-inch iron rod with plastic cap stamped "JBI" found for the northeast corner of said Estates at Cobb Hill, Phase 2;

THENCE South 89°58'29" West, continuing along said common line and the northerly right-of-way line of said Panther Creek Parkway (Volume 2006, Page 465, said Plat Records), a distance of 478.70 feet to a point for corner;

THENCE departing said common line and along the common line of said Tract 2 and the aforementioned Panther Creek Parkway (Document No. 2008-9801, said Official Records), the following courses and distances:

North 0°03'16" West, a distance of 60.00 feet to a point for corner;

South 89°58'29" West, a distance of 628.00 feet to a point for corner;

North 86°15'11" West, a distance of 304.01 feet to a point for corner;

South 89°58'29" West, a distance of 150.10 feet to the **POINT OF BEGINNING** and containing 182.38 acres (7,944,479 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$50.00 CARLA
20210713001409870

Stacey Kemp

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTIES OF COLLIN AND DENTON §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS MIDTOWN WEST INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County and Denton County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and

of record, if any, in Collin County and/or Denton County, Texas, affecting the Property, (ii) all other matters which a physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 1, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS MIDTOWN WEST INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS MIDTOWN WEST INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Charles L. Smith Survey, Abstract No. 1185, the William E. Bates Survey, Abstract No. 90, the Clayton Rogers Survey, Abstract No. 1133, (all in Denton County), the Charles L. Smith Survey, Abstract No. 807, and the Collin County School Land Survey, Abstract No. 148 (both in Collin County), City of Frisco, Denton and Collin County, Texas and being a portion of a called 1,722.364-acre tract of land described as Tract 3 in a deed to FHQ Holdings LP, recorded in Document No. 2018-93106, Official Records, Denton County, Texas and Instrument No. 20180807000990770, Official Public Records, Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a southeast corner of said Tract 3, common to the north corner of a corner clip at the intersection of the westerly right-of-way line of Dallas North Tollway (300-foot wide right-of-way, County Clerk's File No. 95-0069693, Deed Records, Collin County, Texas) and the northerly right-of-way line of Panther Creek Parkway (variable width right-of-way);

THENCE South 45°09'45" West, along said corner clip, a distance of 57.76 feet to the south corner of said corner clip;

THENCE along the common line of said Tract 3 and said Panther Creek Parkway the following courses and distances:

South 89°30'18" West, a distance of 156.10 feet to a point for corner;

South 85°46'42" West, a distance of 307.70 feet to a point for corner;

South 89°30'18" West, a distance of 1150.26 feet to a point for corner;

North 86°50'00" West, a distance of 156.59 feet to a point for corner;

South 89°30'18" West, a distance of 159.27 feet to a point for corner;

North 45°18'40" West, a distance of 56.39 feet to a point for corner;

South 89°42'37" West, a distance of 0.03 feet to a point for corner;

THENCE departing said common line and crossing said Tract 3 the following courses and distances:

North 0°06'24" West, a distance of 160.00 feet to a point for corner;

North 3°59'49" West, a distance of 150.32 feet to a point for corner;

North 0°08'36" West, a distance of 336.81 feet to a point at the beginning of a tangent curve to the right having a central angle of 5°11'07", a radius of 2440.01 feet, a chord bearing and distance of North 2°26'54" East, 220.75 feet;

In a northeasterly direction, with said curve to the right, an arc distance of 220.82 feet to a point for the end of said curve to the right;

North 90°00'00" East, a distance of 545.43 feet to a point for corner;

South 60°09'08" East, a distance of 486.72 feet to a point at the beginning of a tangent curve to the left having a central angle of 15°30'47", a radius of 468.17 feet, a chord bearing and distance of South 67°54'31" East, 126.37 feet;

In a southeasterly direction, with said curve to the left, an arc distance of 126.76 feet to a point at the beginning of a compound curve to the left having a central angle of 18°18'49", a radius of 347.97 feet, a chord bearing and distance of South 84°49'19" East, 110.75 feet;

In a southeasterly direction, with said curve to the left, an arc distance of 111.22 feet to a point at the beginning of a compound curve to the left having a central angle of 24°27'08", a radius of 259.82 feet, a chord bearing and distance of North 73°47'43" East, 110.04 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 110.88 feet to a point at the beginning of a compound curve to the left having a central angle of 63°26'33", a radius of 171.98 feet, a chord bearing and distance of North 29°50'52" East, 180.85 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 190.43 feet to a point at the beginning of a compound curve to the left having a central angle of 24°27'08", a radius of 259.82 feet, a chord bearing and distance of North 14°05'59" West, 110.04 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 110.88 feet to a point at the beginning of a compound curve to the left having a central angle of 18°18'49", a radius of 347.97 feet, a chord bearing and distance of North 35°28'57" West, 110.75 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 111.22 feet to a point at the beginning of a compound curve to the left having a central angle of 15°30'47", a radius of 468.17 feet, a chord bearing and distance of North 52°23'45" West, 126.37 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 126.76 feet to a point for the end of said curve to the left;

North 60°09'08" West, a distance of 543.67 feet to a point for corner;

North 89°12'11" West, a distance of 647.61 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 24°01'15", a radius of 2440.00 feet, a chord bearing and distance of North 27°36'08" East, 1015.48 feet;

In a northeasterly direction, with said curve to the right, an arc distance of 1022.95 feet to a point for the end of said curve to the right;

North 39°36'46" East, a distance of 550.12 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 35°55'47", a radius of 1258.02 feet, a chord bearing and distance of North 20°52'17" East, 776.03 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 788.89 feet to a point for the end of said curve to the left;

North 0°06'28" East, a distance of 162.70 feet to a point for corner;

North 45°11'50" East, a distance of 56.52 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 2°10'52", a radius of 2845.00 feet, a chord bearing and distance of South 88°14'35" East, 108.29 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 108.30 feet to a point for the end of said curve to the right;

South 89°32'04" East, a distance of 148.19 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 18°01'28", a radius of 2855.00 feet, a chord bearing and distance of South 75°10'04" East, 894.44 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 898.14 feet to a point for the end of said curve to the right;

South 66°09'20" East, a distance of 102.75 feet to a point at the beginning of a tangent curve to the right having a central angle of 20°22'42", a radius of 1955.00 feet, a chord bearing and distance of South 55°57'59" East, 691.68 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 695.34 feet to a point for the end of said curve to the right;

South 38°38'32" East, a distance of 219.61 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 2°54'12", a radius of 1940.00 feet, a chord bearing and distance of South 37°52'35" East, 98.29 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 98.30 feet to a point for the end of said curve to the left;

South 36°25'29" East, a distance of 161.74 feet to a point for corner;

South 8°34'31" West, a distance of 56.57 feet to a point for corner on easterly line of said Tract 3, same being on the westerly right-of-way line of the aforementioned Dallas North Tollway;

THENCE along the common line of said Tract 3 and said Dallas North Tollway the following courses and distances:

South 53°34'31" West, a distance of 68.60 feet to a point at the beginning of a tangent curve to the left having a central angle of 52°44'23", a radius of 3014.79 feet, a chord bearing and distance of South 27°12'20" West, 2678.12 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 2775.06 feet to a point for the end of said curve to the left;

South 0°50'08" West, a distance of 12.41 feet to the **POINT OF BEGINNING** and containing 155.33 acres (6,766,205 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$58.00 CARLA
20210713001409880

Denton County
Juli Luke
County Clerk

Instrument Number: 125160

ERecordings-RP

WARRANTY DEED

Recorded On: July 12, 2021 03:51 PM

Number of Pages: 9

" Examined and Charged as Follows: "

Total Recording: $58.00

********** **THIS PAGE IS PART OF THE INSTRUMENT** **********
Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number:	125160
Receipt Number:	20210712000801
Recorded Date/Time:	July 12, 2021 03:51 PM
User:	Debra B
Station:	Station 42

Record and Return To:

eRecording Partners

STATE OF TEXAS
COUNTY OF DENTON

I hereby certify that this Instrument was FILED In the File Number sequence on the date/time printed hereon, and was duly RECORDED in the Official Records of Denton County, Texas.

Juli Luke
County Clerk
Denton County, TX

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTIES OF COLLIN AND DENTON §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS MIDTOWN WEST INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County and Denton County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and

of record, if any, in Collin County and/or Denton County, Texas, affecting the Property, (ii) all other matters which a physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 1, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS MIDTOWN WEST INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS MIDTOWN WEST INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Charles L. Smith Survey, Abstract No. 1185, the William E. Bates Survey, Abstract No. 90, the Clayton Rogers Survey, Abstract No. 1133, (all in Denton County), the Charles L. Smith Survey, Abstract No. 807, and the Collin County School Land Survey, Abstract No. 148 (both in Collin County), City of Frisco, Denton and Collin County, Texas and being a portion of a called 1,722.364-acre tract of land described as Tract 3 in a deed to FHQ Holdings LP, recorded in Document No. 2018-93106, Official Records, Denton County, Texas and Instrument No. 20180807000990770, Official Public Records, Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a southeast corner of said Tract 3, common to the north corner of a corner clip at the intersection of the westerly right-of-way line of Dallas North Tollway (300-foot wide right-of-way, County Clerk's File No. 95-0069693, Deed Records, Collin County, Texas) and the northerly right-of-way line of Panther Creek Parkway (variable width right-of-way);

THENCE South 45°09'45" West, along said corner clip, a distance of 57.76 feet to the south corner of said corner clip;

THENCE along the common line of said Tract 3 and said Panther Creek Parkway the following courses and distances:

South 89°30'18" West, a distance of 156.10 feet to a point for corner;

South 85°46'42" West, a distance of 307.70 feet to a point for corner;

South 89°30'18" West, a distance of 1150.26 feet to a point for corner;

North 86°50'00" West, a distance of 156.59 feet to a point for corner;

South 89°30'18" West, a distance of 159.27 feet to a point for corner;

North 45°18'40" West, a distance of 56.39 feet to a point for corner;

South 89°42'37" West, a distance of 0.03 feet to a point for corner;

THENCE departing said common line and crossing said Tract 3 the following courses and distances:

North 0°06'24" West, a distance of 160.00 feet to a point for corner;

North 3°59'49" West, a distance of 150.32 feet to a point for corner;

North 0°08'36" West, a distance of 336.81 feet to a point at the beginning of a tangent curve to the right having a central angle of 5°11'07", a radius of 2440.01 feet, a chord bearing and distance of North 2°26'54" East, 220.75 feet;

In a northeasterly direction, with said curve to the right, an arc distance of 220.82 feet to a point for the end of said curve to the right;

North 90°00'00" East, a distance of 545.43 feet to a point for corner;

South 60°09'08" East, a distance of 486.72 feet to a point at the beginning of a tangent curve to the left having a central angle of 15°30'47", a radius of 468.17 feet, a chord bearing and distance of South 67°54'31" East, 126.37 feet;

In a southeasterly direction, with said curve to the left, an arc distance of 126.76 feet to a point at the beginning of a compound curve to the left having a central angle of 18°18'49", a radius of 347.97 feet, a chord bearing and distance of South 84°49'19" East, 110.75 feet;

In a southeasterly direction, with said curve to the left, an arc distance of 111.22 feet to a point at the beginning of a compound curve to the left having a central angle of 24°27'08", a radius of 259.82 feet, a chord bearing and distance of North 73°47'43" East, 110.04 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 110.88 feet to a point at the beginning of a compound curve to the left having a central angle of 63°26'33", a radius of 171.98 feet, a chord bearing and distance of North 29°50'52" East, 180.85 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 190.43 feet to a point at the beginning of a compound curve to the left having a central angle of 24°27'08", a radius of 259.82 feet, a chord bearing and distance of North 14°05'59" West, 110.04 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 110.88 feet to a point at the beginning of a compound curve to the left having a central angle of 18°18'49", a radius of 347.97 feet, a chord bearing and distance of North 35°28'57" West, 110.75 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 111.22 feet to a point at the beginning of a compound curve to the left having a central angle of 15°30'47", a radius of 468.17 feet, a chord bearing and distance of North 52°23'45" West, 126.37 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 126.76 feet to a point for the end of said curve to the left;

North 60°09'08" West, a distance of 543.67 feet to a point for corner;

North 89°12'11" West, a distance of 647.61 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 24°01'15", a radius of 2440.00 feet, a chord bearing and distance of North 27°36'08" East, 1015.48 feet;

In a northeasterly direction, with said curve to the right, an arc distance of 1022.95 feet to a point for the end of said curve to the right;

North 39°36'46" East, a distance of 550.12 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 35°55'47", a radius of 1258.02 feet, a chord bearing and distance of North 20°52'17" East, 776.03 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 788.89 feet to a point for the end of said curve to the left;

North 0°06'28" East, a distance of 162.70 feet to a point for corner;

North 45°11'50" East, a distance of 56.52 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 2°10'52", a radius of 2845.00 feet, a chord bearing and distance of South 88°14'35" East, 108.29 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 108.30 feet to a point for the end of said curve to the right;

South 89°32'04" East, a distance of 148.19 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 18°01'28", a radius of 2855.00 feet, a chord bearing and distance of South 75°10'04" East, 894.44 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 898.14 feet to a point for the end of said curve to the right;

South 66°09'20" East, a distance of 102.75 feet to a point at the beginning of a tangent curve to the right having a central angle of 20°22'42", a radius of 1955.00 feet, a chord bearing and distance of South 55°57'59" East, 691.68 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 695.34 feet to a point for the end of said curve to the right;

South 38°38'32" East, a distance of 219.61 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 2°54'12", a radius of 1940.00 feet, a chord bearing and distance of South 37°52'35" East, 98.29 feet;

In a southeasterly direction, with said curve to the right, an arc distance of 98.30 feet to a point for the end of said curve to the left;

South 36°25'29" East, a distance of 161.74 feet to a point for corner;

South 8°34'31" West, a distance of 56.57 feet to a point for corner on easterly line of said Tract 3, same being on the westerly right-of-way line of the aforementioned Dallas North Tollway;

THENCE along the common line of said Tract 3 and said Dallas North Tollway the following courses and distances:

South 53°34'31" West, a distance of 68.60 feet to a point at the beginning of a tangent curve to the left having a central angle of 52°44'23", a radius of 3014.79 feet, a chord bearing and distance of South 27°12'20" West, 2678.12 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 2775.06 feet to a point for the end of said curve to the left;

South 0°50'08" West, a distance of 12.41 feet to the **POINT OF BEGINNING** and containing 155.33 acres (6,766,205 sq. ft.) of land, more or less.

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF COLLIN §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS POINT EAST INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and of record, if any, in Collin County, Texas, affecting the Property, (ii) all other matters which a

physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 9, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS POINT EAST INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS POINT EAST INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 148, City of Frisco, Collin County, Texas and being a portion of a called 545.090-acre tract of land described as Tract 2 in a deed to FHQ Holdings LP, recorded in Instrument No. 20180807000990770, Official Public Records of Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at the northwest corner of said Tract 2, common to the southwest corner of a called 5.698-acre tract of land described in a deed to Texas Public Realty, LTD., recorded in Instrument No. 20161027001461850, Official Public Records, Collin County, Texas, same being on the easterly right-of-way line of Dallas North Tollway (300-foot wide right-of-way, County Clerk's File No. 95-0069693, Deed Records, Collin County, Texas);

THENCE North 89°14'40" East, departing the easterly right-of-way line of said Dallas North Tollway and along the common line of said Tract 2 and said 5.698-acre tract, a distance of 1885.90 feet to a 1/2-inch iron rod with plastic cap stamped "HALFF ESMT" found for the northeast corner of said Tract 2, common to the southeast corner of said 5.698-acre tract, same being on the westerly line of a 100-foot wide right-of-way to the Burlington Northern Santa Fe Railroad Company, recorded in Volume 128, Page 319, Deed Records, Collin County, Texas;

THENCE South 11°19'09" West, along the common line of said Tract 2 and said Burlington tract, a distance of 3326.14 feet to a point for corner;

THENCE departing said common line and crossing said Tract 2 the following courses and distances:

North 78°40'51" West, a distance of 75.00 feet to a point for corner;

North 42°55'11" West, a distance of 637.50 feet to a point for corner;

North 11°37'14" West, a distance of 677.63 feet to a point for corner;

North 44°47'21" West, a distance of 420.86 feet to a point for corner;

North 62°25'23" West, a distance of 225.00 feet to a point for corner;

South 27°34'37" West, a distance of 557.47 feet to a point at the beginning of a tangent curve to the right having a central angle of 40°21'11", a radius of 1200.18 feet, a chord bearing and distance of South 47°45'12" West, 827.92 feet;

In a southwesterly direction, with said curve to the right, an arc distance of 845.28 feet to a point for the end of said curve to the right;

South 67°55'48" West, a distance of 743.47 feet to a point at the beginning of a tangent curve to the left having a central angle of 15°57'13", a radius of 1000.15 feet, a chord bearing and distance of South 59°57'11" West, 277.59 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 278.49 feet to a point for the end of said curve to the left;

South 51°58'34" West, a distance of 283.93 feet to a point for corner;

North 9°25'44" West, a distance of 1542.22 feet to a point for corner on the westerly line

of said Tract 2, same being on the easterly right-of-way line of the aforementioned Dallas North Tollway;

THENCE North 53°34'31" East, along the common line of said Tract 2 and said Dallas North Tollway, a distance of 1796.04 feet to a 1/2-inch iron rod with plastic cap stamped "HALFF ESMT" found at the beginning of a tangent curve to the left having a central angle of 17°37'08", a radius of 3424.07 feet, a chord bearing and distance of North 44°45'57" East, 1048.78 feet;

THENCE in a northeasterly direction, continuing along said common line and with said curve to the left, an arc distance of 1052.93 feet to the **POINT OF BEGINNING** and containing 180.40 acres (7,858,224 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$50.00 CARLA
20210713001409890

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTIES OF COLLIN AND DENTON §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS POINT WEST INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County and Denton County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and

of record, if any, in Collin County and/or Denton County, Texas, affecting the Property, (ii) all other matters which a physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 1, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1187444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS POINT WEST INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
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Title: Vice President

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EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Charles L. Smith Survey, Abstract No. 1185, Denton County, the John. R Hague Survey, Abstract No. 406, the Charles L. Smith Survey, Abstract No. 807, and the Collin County School Land Survey, Abstract No. 148 (all in Collin County), City of Frisco, Denton and Collin County, Texas and being a portion of a called 1,722.364-acre tract of land described as Tract 3 in a deed to FHQ Holdings LP, recorded in Document No. 2018-93106, Official Records, Denton County, Texas and Instrument No. 20180807000990770, Official Public Records, Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a Metal Fence Corner Post found for the southernmost southeast corner of a called 53.7808-acre tract of land described in a deed to Lynn Family Holdings, LTD, recorded in Instrument No. 20120706000819250, Official Public Records, Collin County, Texas, common to an angle point in the easterly line of said Tract 3;

THENCE North 89°06'57" East, along the common line of said Tract 3 and said Lynn tract, a distance of 931.19 feet to a 1/2-inch iron rod found for the southeast corner of said Lynn tract, common to the southwest corner of a called 67.003-acre tract described as Tract One in a deed to Triad Frisco Partners, LLC, recorded in Instrument No. 20150317000290830, said Official Public Records;

THENCE North 89°15'36" East, along the common line of said Tract 3 and said Triad tract, a distance of 1055.56 feet to the southeast corner of said Triad tract, common to the easternmost corner of said Tract 3, same being on the westerly right-of-way line of Dallas North Tollway (300-foot wide right-of-way, County Clerk's File No. 95-0069693, Deed Records, Collin County, Texas), same also being the beginning of a non-tangent curve to the right having a central angle of 13°23'49", a radius of 3124.05 feet, a chord bearing and distance of South 46°52'37" West, 728.81 feet;

THENCE in a southwesterly direction, along the common line of said Tract 3 and said Dallas North Tollway and with said curve to the right, an arc distance of 730.47 feet to a point for the end of said curve to the right;

THENCE South 53°34'31" West, continuing along said common line, a distance of 3717.07 feet to a point for corner;

THENCE departing said common line and crossing said Tract 3 the following courses and distances:

North 81°25'29" West, a distance of 56.57 feet to a point for corner;

North 36°25'29" West, a distance of 161.74 feet to a point at the beginning of a tangent curve to the left having a central angle of 2°54'12", a radius of 2060.00 feet, a chord bearing and distance of North 37°52'35" West, 104.37 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 104.38 feet to a point for the end of said curve to the left;

North 46°15'48" West, a distance of 231.39 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 20°22'42", a radius of 2045.00 feet, a chord bearing and distance of North 55°57'59" West, 723.52 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 727.35 feet to a point for the end of said curve to the left;

North 66°09'20" West, a distance of 102.75 feet to a point at the beginning of a tangent curve to the left having a central angle of 18°01'28", a radius of 2945.00 feet, a chord bearing and distance of North 75°10'04" West, 922.64 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 926.45 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 4°52'59", a radius of 1800.00 feet, a chord bearing and distance of North 81°55'44" West, 153.36 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 153.41 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 2°12'08", a radius of 2955.00 feet, a chord bearing and distance of North 88°15'13" West, 113.58 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 113.58 feet to a point for the end of said curve to the left;

North 44°48'23" West, a distance of 56.66 feet to a point for corner;

North 0°05'47" East, a distance of 287.82 feet to a point at the beginning of a non-tangent curve to the right having a central angle of 40°15'02", a radius of 1040.00 feet, a chord bearing and distance of North 28°10'25" East, 715.67 feet;

In a northeasterly direction, with said curve to the right, an arc distance of 730.60 feet to a point for the end of said curve to the right;

North 48°17'56" East, a distance of 449.48 feet to a point at the beginning of a tangent curve to the left having a central angle of 28°43'28", a radius of 1160.00 feet, a chord bearing and distance of North 33°56'12" East, 575.48 feet;

In a northeasterly direction, with said curve to the left, an arc distance of 581.55 feet to a point for the end of said curve to the left;

North 19°34'28" East, a distance of 232.30 feet to a point for corner on the common line of said Tract 3 and a called 179.5349-acre tract of land described as Tract 2 in a deed to Rockhill Legacy I, LP, recorded in Document No. 218-144671, said Official Records;

THENCE South 89°55'05" East, along said common line, passing at a distance of 2668.60 feet a 3/4-inch iron rod found for the southeast corner of said Tract 2, common to the westernmost southwest corner of the aforementioned Lynn tract, and continuing along the same course and along the westerly line of said Lynn tract for total distance of 2736.81 feet to a point for corner;

THENCE South 0°03'54" East, along the common line of said Tract 3 and said Lynn tract, a distance of 361.66 feet to the **POINT OF BEGINNING** and containing 224.19 acres (9,765,791 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$54.00 CARLA
20210713001409900

Denton County
Juli Luke
County Clerk

Instrument Number: 125161

ERecordings-RP

WARRANTY DEED

Recorded On: July 12, 2021 03:51 PM

Number of Pages: 8

" Examined and Charged as Follows: "

Total Recording: $54.00

********** **THIS PAGE IS PART OF THE INSTRUMENT** **********
Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number:	125161
Receipt Number:	20210712000801
Recorded Date/Time:	July 12, 2021 03:51 PM
User:	Debra B
Station:	Station 42

Record and Return To:

eRecording Partners

STATE OF TEXAS
COUNTY OF DENTON

I hereby certify that this Instrument was FILED In the File Number sequence on the date/time printed hereon, and was duly RECORDED in the Official Records of Denton County, Texas.

Juli Luke
County Clerk
Denton County, TX

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AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

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Title: Vice President

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FRANCES HARPER
ID # 1187444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

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Notary Public, State of Texas

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FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

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Notary Public, State of Texas

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Notary Public, State of Texas

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BEGINNING at a northwest corner of a called 2.1799-acre tract of land described in a deed to Rockhill Legacy I, LP, recorded in Document No. 2018-144671, said Official Records, common to an angle point in the southerly line of a Lot 1, Block A, PGA Frisco Addition, an Addition to the City of Frisco, Texas, according to the plat thereof recorded in Document No. 2020-111, said Official Records, same being an easterly line of said Tract 3;

THENCE South 0°34'51" West, departing the southerly line of said Lot 1 and along the common line of said Tract 3 and said 2.1799-acre tract, a distance of 204.39 feet to a Wood Fence Corner Post found for the southwest corner of said 2.1799-acre tract;

THENCE South 89°55'05" East, continuing along said common line, passing at a distance of 554.74 feet the southeast corner of said 2.1799-acre tract and continuing along the same course and along the southerly line of said Lot 1, for a total distance of 981.47 feet to the easternmost southeast corner of said Lot 1, common to the southwest terminus of Legacy Drive (60-foot wide right-of-way, Document No. 2020-111, said Official Records);

THENCE departing the easterly line of said Tract 3 and crossing said Tract 3 the following courses and distances:

South 19°34'28" West, a distance of 189.82 feet to a point at the beginning of a tangent curve to the right having a central angle of 28°43'28", a radius of 1040.00 feet, a chord bearing and distance of South 33°56'12" West, 515.95 feet;

In a southwesterly direction, with said curve to the right, an arc distance of 521.39 feet to a point for the end of said curve to the right;

South 48°17'56" West, a distance of 449.48 feet to a point at the beginning of a tangent curve to the left having a central angle of 38°56'28", a radius of 1160.00 feet, a chord bearing and distance of South 28°49'42" West, 773.31 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 788.39 feet to a point at the beginning of a non-tangent curve to the left having a central angle of

13°53'29", a radius of 700.00 feet, a chord bearing and distance of South 8°34'32" West, 169.30 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 169.72 feet to a point for the end of said curve to the left;

South 0°09'07" West, a distance of 163.18 feet to a point for corner;

South 45°05'47" West, a distance of 56.57 feet to a point for corner;

North 89°54'13" West, a distance of 110.00 feet to a point for corner;

South 85°58'03" West, a distance of 176.95 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 10°23'03", a radius of 1545.00 feet, a chord bearing and distance of South 81°29'29" West, 279.63 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 280.01 feet to a point for the end of said curve to the left;

South 76°17'58" West, a distance of 408.15 feet to the beginning of a tangent curve to the right having a central angle of 30°44'50", a radius of 1955.00 feet, a chord bearing and distance of North 88°19'37" West, 1036.59 feet;

In a northwesterly direction, with said curve to the right, an arc distance of 1049.14 feet to a point for the end of said curve to the right;

North 72°57'12" West, a distance of 128.59 feet to a point at the beginning of a tangent curve to the left having a central angle of 35°36'33", a radius of 3045.00 feet, a chord bearing and distance of South 89°14'32" West, 1862.14 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 1892.45 feet to a point for the end of said curve to the left;

South 71°26'15" West, a distance of 424.33 feet to a point for corner on the southerly line of the aforementioned Lot 1;

THENCE along the southerly line of said Lot 1 the following courses and distances:

North 7°40'16" West, a distance of 258.65 feet to a point for corner;

North 18°52'09" West, a distance of 685.19 feet to a point for corner;

North 53°47'04" West, a distance of 254.77 feet to a point for corner;

North 12°40'43" East, a distance of 281.40 feet to a point for corner;

North 54°08'40" East, a distance of 260.69 feet to a point for corner;

North 14°13'21" East, a distance of 207.82 feet to a point for corner;

North 24°54'29" East, a distance of 411.17 feet to a point for corner;

North 33°27'25" East, a distance of 487.53 feet to a point for corner;

North 71°50'41" East, a distance of 335.97 feet to a point for corner;

North 51°28'26" East, a distance of 709.70 feet to a point for corner;

North 75°33'22" East, a distance of 278.76 feet to a point for corner;

North 63°42'18" East, a distance of 702.70 feet to a point for corner;

North 81°53'14" East, a distance of 366.29 feet to a point for corner;

South 77°40'01" East, a distance of 171.20 feet to a point for corner;

South 52°01'26" East, a distance of 181.67 feet to a point for corner;

South 36°30'33" East, a distance of 159.88 feet to a point for corner;

South 66°10'08" East, a distance of 210.57 feet to a point for corner;

South 18°06'39" East, a distance of 97.32 feet to a point for corner;

South 34°02'30" West, a distance of 163.32 feet to a point for corner;

South 29°56'00" West, a distance of 673.75 feet to a point for corner;

South 26°12'44" West, a distance of 376.97 feet to a point for corner;

South 18°33'33" West, a distance of 421.88 feet to a point for corner;

South 11°07'06" East, a distance of 153.19 feet to a point for corner;

South 56°47'02" East, a distance of 212.13 feet to a point for corner;

South 89°10'14" East, a distance of 252.64 feet to a point for corner;

North 81°56'09" East, a distance of 150.33 feet to a point for corner;

North 48°03'39" East, a distance of 473.73 feet to a point for corner;

North 22°33'21" East, a distance of 200.65 feet to a point for corner;

North 46°37'38" East, a distance of 352.07 feet to a point for corner;

North 49°15'27" East, a distance of 421.84 feet to a point for corner;

North 80°03'04" East, a distance of 583.34 feet to the **POINT OF BEGINNING** and containing 267.74 acres (11,662,701 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$54.00 CARLA
20210713001409910

Denton County
Juli Luke
County Clerk

Instrument Number: 125162

ERecordings-RP

WARRANTY DEED

Recorded On: July 12, 2021 03:51 PM

Number of Pages: 8

" Examined and Charged as Follows: "

Total Recording: $54.00

********** **THIS PAGE IS PART OF THE INSTRUMENT** **********
Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number:	125162
Receipt Number:	20210712000801
Recorded Date/Time:	July 12, 2021 03:51 PM
User:	Debra B
Station:	Station 42

Record and Return To:

eRecording Partners

STATE OF TEXAS
COUNTY OF DENTON

I hereby certify that this Instrument was FILED In the File Number sequence on the date/time printed hereon, and was duly RECORDED in the Official Records of Denton County, Texas.

Juli Luke
County Clerk
Denton County, TX

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTIES OF COLLIN AND DENTON §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS PRESERVE INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County and Denton County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and

of record, if any, in Collin County and/or Denton County, Texas, affecting the Property, (ii) all other matters which a physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 9, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS PRESERVE INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS PRESERVE INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the John R. Hague Survey, Abstract No. 1714, the Charles L. Smith Survey, Abstract No. 1185, the William E. Bates Survey, Abstract No. 90, the Memphis, El Paso, and Pacific Railroad Company Survey, Abstract No. 941, the Rueben H. Bates Survey, Abstract No. 68, the John T. Landrum Survey, Abstract No. 764, (all in Denton County), the John. R Hague Survey, Abstract No. 406, and the Charles L. Smith Survey, Abstract No. 807, (both in Collin County), City of Frisco, Denton and Collin County, Texas and being a portion of a called 1,722.364-acre tract of land described as Tract 3 in a deed to FHQ Holdings LP, recorded in Document No. 2018-93106, Official Records, Denton County, Texas and Instrument No. 20180807000990770, Official Public Records, Collin County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a northwest corner of a called 2.1799-acre tract of land described in a deed to Rockhill Legacy I, LP, recorded in Document No. 2018-144671, said Official Records, common to an angle point in the southerly line of a Lot 1, Block A, PGA Frisco Addition, an Addition to the City of Frisco, Texas, according to the plat thereof recorded in Document No. 2020-111, said Official Records, same being an easterly line of said Tract 3;

THENCE South 0°34'51" West, departing the southerly line of said Lot 1 and along the common line of said Tract 3 and said 2.1799-acre tract, a distance of 204.39 feet to a Wood Fence Corner Post found for the southwest corner of said 2.1799-acre tract;

THENCE South 89°55'05" East, continuing along said common line, passing at a distance of 554.74 feet the southeast corner of said 2.1799-acre tract and continuing along the same course and along the southerly line of said Lot 1, for a total distance of 981.47 feet to the easternmost southeast corner of said Lot 1, common to the southwest terminus of Legacy Drive (60-foot wide right-of-way, Document No. 2020-111, said Official Records);

THENCE departing the easterly line of said Tract 3 and crossing said Tract 3 the following courses and distances:

South 19°34'28" West, a distance of 189.82 feet to a point at the beginning of a tangent curve to the right having a central angle of 28°43'28", a radius of 1040.00 feet, a chord bearing and distance of South 33°56'12" West, 515.95 feet;

In a southwesterly direction, with said curve to the right, an arc distance of 521.39 feet to a point for the end of said curve to the right;

South 48°17'56" West, a distance of 449.48 feet to a point at the beginning of a tangent curve to the left having a central angle of 38°56'28", a radius of 1160.00 feet, a chord bearing and distance of South 28°49'42" West, 773.31 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 788.39 feet to a point at the beginning of a non-tangent curve to the left having a central angle of

13°53'29", a radius of 700.00 feet, a chord bearing and distance of South 8°34'32" West, 169.30 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 169.72 feet to a point for the end of said curve to the left;

South 0°09'07" West, a distance of 163.18 feet to a point for corner;

South 45°05'47" West, a distance of 56.57 feet to a point for corner;

North 89°54'13" West, a distance of 110.00 feet to a point for corner;

South 85°58'03" West, a distance of 176.95 feet to a point at the beginning of a non-tangent curve to the left having a central angle of 10°23'03", a radius of 1545.00 feet, a chord bearing and distance of South 81°29'29" West, 279.63 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 280.01 feet to a point for the end of said curve to the left;

South 76°17'58" West, a distance of 408.15 feet to the beginning of a tangent curve to the right having a central angle of 30°44'50", a radius of 1955.00 feet, a chord bearing and distance of North 88°19'37" West, 1036.59 feet;

In a northwesterly direction, with said curve to the right, an arc distance of 1049.14 feet to a point for the end of said curve to the right;

North 72°57'12" West, a distance of 128.59 feet to a point at the beginning of a tangent curve to the left having a central angle of 35°36'33", a radius of 3045.00 feet, a chord bearing and distance of South 89°14'32" West, 1862.14 feet;

In a southwesterly direction, with said curve to the left, an arc distance of 1892.45 feet to a point for the end of said curve to the left;

South 71°26'15" West, a distance of 424.33 feet to a point for corner on the southerly line of the aforementioned Lot 1;

THENCE along the southerly line of said Lot 1 the following courses and distances:

North 7°40'16" West, a distance of 258.65 feet to a point for corner;

North 18°52'09" West, a distance of 685.19 feet to a point for corner;

North 53°47'04" West, a distance of 254.77 feet to a point for corner;

North 12°40'43" East, a distance of 281.40 feet to a point for corner;

North 54°08'40" East, a distance of 260.69 feet to a point for corner;

North 14°13'21" East, a distance of 207.82 feet to a point for corner;

North 24°54'29" East, a distance of 411.17 feet to a point for corner;

North 33°27'25" East, a distance of 487.53 feet to a point for corner;

North 71°50'41" East, a distance of 335.97 feet to a point for corner;

North 51°28'26" East, a distance of 709.70 feet to a point for corner;

North 75°33'22" East, a distance of 278.76 feet to a point for corner;

North 63°42'18" East, a distance of 702.70 feet to a point for corner;

North 81°53'14" East, a distance of 366.29 feet to a point for corner;

South 77°40'01" East, a distance of 171.20 feet to a point for corner;

South 52°01'26" East, a distance of 181.67 feet to a point for corner;

South 36°30'33" East, a distance of 159.88 feet to a point for corner;

South 66°10'08" East, a distance of 210.57 feet to a point for corner;

South 18°06'39" East, a distance of 97.32 feet to a point for corner;

South 34°02'30" West, a distance of 163.32 feet to a point for corner;

South 29°56'00" West, a distance of 673.75 feet to a point for corner;

South 26°12'44" West, a distance of 376.97 feet to a point for corner;

South 18°33'33" West, a distance of 421.88 feet to a point for corner;

South 11°07'06" East, a distance of 153.19 feet to a point for corner;

South 56°47'02" East, a distance of 212.13 feet to a point for corner;

South 89°10'14" East, a distance of 252.64 feet to a point for corner;

North 81°56'09" East, a distance of 150.33 feet to a point for corner;

North 48°03'39" East, a distance of 473.73 feet to a point for corner;

North 22°33'21" East, a distance of 200.65 feet to a point for corner;

North 46°37'38" East, a distance of 352.07 feet to a point for corner;

North 49°15'27" East, a distance of 421.84 feet to a point for corner;

North 80°03'04" East, a distance of 583.34 feet to the **POINT OF BEGINNING** and containing 267.74 acres (11,662,701 sq. ft.) of land, more or less.

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF COLLIN §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **FIELDS UNIVERSITY VILLAGE INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Collin County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and of record, if any, in Collin County, Texas, affecting the Property, (ii) all other matters which a

physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 9, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

FIELDS UNIVERSITY VILLAGE INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 1, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FIELDS UNIVERSITY VILLAGE INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 148 and the Benjamin J. Naugle Survey, Abstract No. 669, City of Frisco, Collin County, Texas and being all of Tract 1 (called 278.235-acres) as described in a Special Warranty Deed to FHQ Holdings LP, recorded in Instrument No. 20180807000990770, Official Public Records of Collin County, Texas, and being more particularly described as follows:

BEGINNING at northeast corner of said Tract 1 (called 278.235-acres), same being the intersection of the southerly right of way line of County Road 24, as created in a deed to the City of Frisco, recorded in Instrument No. 20140716000737770, Official Public Records, Collin County, Texas with the westerly right of way line of State Highway 289 (Preston Road), as created in a deed to the State of Texas, recorded in Instrument No. 20080417000459060, Official Public Records, Collin County, Texas;

THENCE in a southerly direction, along the westerly right of way line of State Highway 289 (Preston Road), the following:

South 00°26'15" East, generally along a barbed wire fence for part of the way, a distance of 93.11 feet to a wooden fence corner post found for a corner;

South 18°03'14" West, continuing generally along said barbed wire fence, a distance of 75.67 feet to a wooden fence corner post found for a corner;

South 00°26'14" East, continuing generally along said barbed wire fence, a distance of 48.51 feet to a 5/8-inch iron rod with a red plastic cap, stamped "KHA" set for a corner;

South 18°49'04" East, continuing generally along said barbed wire fence, a distance of 76.11 feet to a 5/8-inch iron rod with a red plastic cap, stamped "KHA" set for a corner;

South 00°26'21" East, continuing generally along said barbed wire fence, a distance of 1565.43 feet to an aluminum TXDoT right of way monument found for a corner;

South 02°54'39" West, continuing generally along said barbed wire fence, a distance of 221.85 feet to an aluminum TXDoT right of way monument found for a corner;

South 00°24'53" East, continuing generally along said barbed wire fence, a distance of 569.34 feet to a 5/8-inch iron rod with a red plastic cap, stamped "KHA" set for a corner;

South 02°38'01" East, continuing generally along said barbed wire fence for part of the way, a distance of 21.73 feet to a point in a gravel road, known as Panther Creek Parkway, same being the southeast corner of said Tract 1 (called 278.235-acres), same also being on the northerly line of a called 400.740 acre tract, known as "Tract 2", described in a deed to Panther Creek on Preston, LP, recorded in Instrument No. 20131107001517630, Official Public Records, Collin County, Texas;

THENCE South 89°23'54" West, departing the westerly right of way line of State Highway 289 (Preston Road), along the southerly line of said Tract 1 (called 278.235-acres) and generally along said Panther Creek Road, a distance of 4872.51 feet to a 5/8-inch iron rod with a red plastic cap, stamped "KHA" set for the southwest corner of said Tract 1 (called 278.235-acres), same being on the easterly line of a 100' wide Burlington Northern Santa Fe Railroad right of way as created in a deed to the St. Louis, San Francisco and Texas Railway Company, recorded in Volume 128, Page 319, Deed Records, Collin County, Texas, from said corner, a found 1/2-inch iron rod bears North 89°24' East, 4.18 feet and a found aluminum disk, stamped "CPLS RPLS 5210" bears South 08°32' West, 24.48 feet;

THENCE North 11°19'09" East, along the westerly line of said Tract 1 (called 278.235-acres), the easterly line of said line of said 100' wide railroad right of way, and generally along the meanders of a barbed wire fence for part of the way, a distance of 2689.71 feet to the southwest corner of aforesaid City of Frisco tract, recorded in Instrument No. 20140716000737770, same being in aforesaid County Road 24, from said corner, a found 1/2-inch iron rod bears North 16°15' East, 1.33 feet and a found 1/2-inch iron rod with a plastic cap, stamped "GULLETT ASSOC", bears South 19°30' West, 15.19 feet;

THENCE in an easterly direction, departing said railroad right of way and along the southerly line of said City of Frisco tract, the following:

> North 89°58'43" East, a distance of 2181.75 feet to a point for corner, from which, a found 1/2-inch iron rod with a plastic cap, stamped "MSI WITNESS" bears South 76°54' West, 11.38 feet, and a found PK nail bears North 77°40' West, 25.41 feet;
>
> North 87°50'42" East, a distance of 1420.81 feet to a 5/8-inch iron rod with a red plastic cap, stamped "KHA" set for a corner, from which, a found 1-inch iron rod bears North 62°56' West, 2.16 feet;
>
> North 00°07'09" West, a distance of 22.00 feet to a 5/8-inch iron rod with a red plastic cap, stamped "KHA" set for a corner;

North 89°54'43" East, a distance of 734.78 feet to the **POINT OF BEGINNING** and containing 278.23 acres (12,119,912 sq. ft.) of land, more or less.

Filed and Recorded
Official Public Records
Stacey Kemp, County Clerk
Collin County, TEXAS
07/13/2021 03:44:15 PM
$50.00 CARLA
20210713001409920

Denton County
Juli Luke
County Clerk

Instrument Number: 125157

ERecordings-RP

WARRANTY DEED

Recorded On: July 12, 2021 03:51 PM

Number of Pages: 8

" Examined and Charged as Follows: "

Total Recording: $54.00

********** **THIS PAGE IS PART OF THE INSTRUMENT** **********
Any provision herein which restricts the Sale, Rental or use of the described REAL PROPERTY because of color or race is invalid and unenforceable under federal law.

File Information:

Document Number:	125157
Receipt Number:	20210712000801
Recorded Date/Time:	July 12, 2021 03:51 PM
User:	Debra B
Station:	Station 42

Record and Return To:

eRecording Partners

STATE OF TEXAS
COUNTY OF DENTON

I hereby certify that this Instrument was FILED In the File Number sequence on the date/time printed hereon, and was duly RECORDED in the Official Records of Denton County, Texas.

Juli Luke
County Clerk
Denton County, TX

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY AND 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.

AFTER RECORDING, RETURN TO:

Hunt Realty Investments, Inc.
1900 N. Akard Street
Dallas, TX 75201-2300
Attention: Diane Hornquist

STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF DENTON §

SPECIAL WARRANTY DEED

This Special Warranty Deed (this "Deed") is executed by **FHQ HOLDINGS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantor") for the benefit of **NORTH FIELDS INVESTMENT PARTNERS LP**, a Delaware limited partnership, whose address is c/o Hunt Realty Investments, Inc., 1900 N. Akard Street, Dallas, Texas 75201-2300, Attention: Diane Hornquist ("Grantee").

Grantor does hereby **GRANT, SELL, AND CONVEY** unto Grantee that certain real property situated in Denton County, Texas and described in Exhibit A attached hereto and made a part hereof for all purposes (the "Land"), together with all improvements and fixtures located on the Land, if any (the Land and such improvements and/or fixtures, together with all right, title and interest of Grantor, if any, in and to (i) all and singular the rights, benefits, privileges, easements, tenements, hereditaments, and appurtenances or in anywise appertaining to the Land; (ii) all strips and gores and any land lying in the bed of any street, road or alley, open or proposed, adjoining such Land, if any; and (iii) all permits, licenses, entitlements, intellectual property rights and other intangible rights, benefits and privileges of Grantor with respect to the Land, including, without limitation, all surveys, drawings and engineering work product (collectively, the "Property").

TO HAVE AND TO HOLD the Property unto Grantee, Grantee's successors and assigns, and Grantor does hereby bind Grantor and Grantor's successors and assigns to **WARRANT AND FOREVER DEFEND**, all and singular, the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

This conveyance is made and accepted: (a) subject to (i) all reservations, restrictions, covenants, conditions, rights-of-way, mineral leases, royalty and mineral conveyances, easements and any other conveyances of any other subsurface rights and/or substances now outstanding and of record, if any, in Denton County, Texas, affecting the Property, (ii) all other matters which a

physical inspection of the Property would reveal or that are discoverable by means of an accurate survey, and (iii) all other matters or agreements of any kind or nature which may affect the Land and/or the Property, and (b) by Grantor and Grantee, respectively, each of which is wholly-owned by the same person(s) or entity(ies) as of the date of conveyance, and without payment of actual valuable consideration, with the intention that the Grantee is an "Insured" under that certain Owner's Policy of Title Insurance issued by First American Title Insurance Company, Policy Number 1002-247436-RTT, dated as of August 7, 2018 with respect to its interest in the Property.

THE PROPERTY IS HEREBY CONVEYED IN ITS STRICT "AS IS, WHERE IS" AND "WITH ALL FAULTS" CONDITION, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT AS TO TITLE AS EXPRESSLY SET FORTH HEREIN.

[Signature Pages Follow]

Executed effective as of the 12th day of July, 2021.

GRANTOR:

FHQ HOLDINGS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 1, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of FHQ HOLDINGS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

GRANTEE:

NORTH FIELDS INVESTMENT PARTNERS LP,
a Delaware limited partnership

By: FHQ Holdings GP LLC,
a Delaware limited liability company,
its general partner

By: _____
Name: Todd M. Watson
Title: Vice President

STATE OF TEXAS §
§
COUNTY OF DALLAS §

This instrument was acknowledged before me on July 7, 2021, by Todd M. Watson, a Vice President of FHQ Holdings GP LLC, a Delaware limited liability company, the general partner of NORTH FIELDS INVESTMENT PARTNERS LP, a Delaware limited partnership, on behalf of said limited partnership.

FRANCES HARPER
ID # 1197444-7
Notary Public, State of Texas
My Commission Expires
07/15/2024

_____
Notary Public, State of Texas

EXHIBIT A
LEGAL DESCRIPTION

BEING a tract of land situated in the Carter Jackson Survey, Abstract No. 665, and the Louisa Netherly Survey, Abstract No. 962, City of Frisco, Denton County, Texas and being a portion of a called 1,722.364-acre tract of land described as Tract 3 in a deed to FHQ Holdings LP, recorded in Document No. 2018-93106, Official Records, Denton County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a 5/8-inch iron rod with plastic cap stamped "KHA" found for the south corner of a corner clip at the intersection of the northerly right-of-way line of PGA Parkway (variable width right-of-way) and the easterly right-of-way line of North Teel Parkway (variable width right-of-way);

THENCE North 45°25'14" West, along said corner clip, a distance of 56.47 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the north corner of said corner clip;

THENCE along the easterly right-of-way line of said North Teel Parkway the following courses and distances:

North 0°19'11" West, a distance of 304.14 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for corner;

North 4°07'49" West, a distance of 150.46 feet to a point for corner;

North 0°19'11" West, a distance of 79.20 feet to a point for corner;

North 3°28'13" East, a distance of 310.75 feet to a point for corner;

North 0°20'34" West, a distance of 299.99 feet to the south corner of a corner clip at the intersection of the easterly right-of-way line of said North Teel Parkway and the southerly right-of-way line of U.S. Highway No. 380 (variable width right-of-way);

THENCE North 44°45'21" East, along said corner clip, a distance of 156.98 feet to the north corner of said corner clip, same being on the northerly line of said Tract 3;

THENCE North 88°35'46" East, along the common line of said Tract 3 and said U.S. Highway 380, a distance of 4320.75 feet to a point for the intersection of the southerly right-of-way line of said U.S. Highway 380 and the westerly right-of-way line of Legacy Drive (variable width right-of-way);

THENCE departing said common line and along the westerly right-of-way line of said Legacy Drive the following courses and distances:

South 1°26'03" East, a distance of 81.89 feet to a point for corner;

South 46°26'03" East, a distance of 93.66 feet to a point for corner;

South 0°19'39" East, a distance of 235.01 feet to a point for corner;

South 4°08'30" East, a distance of 300.67 feet to a point for corner;

South 0°19'39" East, a distance of 309.33 feet to a point for corner;

South 0°51'19" East, a distance of 295.55 feet to a point for corner;

South 2°57'27" West, a distance of 150.37 feet to a point for corner;

South 0°51'19" East, a distance of 204.36 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the north corner of a corner clip at the intersection of the westerly right-of-way line of said Legacy Drive and the northerly right-of-way line of the aforementioned PGA Parkway;

THENCE South 44°26'40" West, along said corner clip, a distance of 56.59 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the south corner of said corner clip;

THENCE along the northerly right-of-way line of said PGA Parkway the following courses and distances:

South 89°25'31" West, a distance of 53.27 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found at the beginning of a tangent curve to the right having a central angle of 4°16'43", a radius of 1430.00 feet, a chord bearing and distance of North 88°26'07" West, 106.76 feet;

In a northwesterly direction, with said curve to the right, an arc distance of 106.78 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the end of said curve to the right;

North 88°36'54" West, a distance of 150.38 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for corner;

North 84°32'52" West, a distance of 80.20 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found at the beginning of a tangent curve to the left having a central angle of 5°39'06", a radius of 1560.00 feet, a chord bearing and distance of North 87°22'25" West, 153.82 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 153.88 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the end of said curve to the left;

South 89°48'02" West, a distance of 552.73 feet to a point at the beginning of a tangent curve to the right having a central angle of 9°07'07", a radius of 1440.00 feet, a chord bearing and distance of North 85°38'25" West, 228.93 feet;

In a northwesterly direction, with said curve to the right, an arc distance of 229.18 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the end of said curve to the right;

North 81°04'51" West, a distance of 1390.67 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found at the beginning of a tangent curve to the left having a central angle of 9°26'27", a radius of 2560.00 feet, a chord bearing and distance of North 85°48'05" West, 421.34 feet;

In a northwesterly direction, with said curve to the left, an arc distance of 421.82 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for the end of said curve to the left;

South 89°28'42" West, a distance of 865.50 feet to a point for corner;

North 86°42'43" West, a distance of 150.51 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" found for corner;

South 89°28'42" West, a distance of 314.04 feet to the **POINT OF BEGINNING** and containing 152.18 acres (6,629,065 sq. ft.) of land, more or less.

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

The Honorable Andy Eads
County Judge
Denton County Commissioners Court
110 W Hickory Street
Denton, TX 76201

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Eads:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

As part of the plan for the development, the aforementioned entities are applying for a Water Rights Permit to construct and maintain reservoirs for in-place recreation and agriculture. The ponds will be located on Unnamed Tributaries to Panther Creek.

The above entities are pursuing this application to appropriate State Water with the Texas Commission on Environmental Quality (TCEQ). Notification of the application will be sent to all Water Rights holders in the Trinity Watershed as well as to all of the members of the Frisco City Council and Denton County and Collin County Commissioners Courts.

Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Angelia Pelham
Mayor Pro Tem, Place 3
George A Purefoy Municipal Center
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Ms. Pelham:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18, 2021

Brian Livingston
Deputy Mayor Pro Tem, Place 6
George A Purefoy Municipal Center
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Livingston:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Bobbie J. Mitchell
Commissioner Pct. 3
Denton County Commissioners Court
110 W Hickory Street
Denton, TX 76201

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Ms. Mitchell:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Bill Woodard
Mayor Pro Tem, Place 4
George A Purefoy Municipal Center
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Woodard:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

The Honorable Chris Hill
County Judge
Collin County Administration Building
2300 Bloomdale Rd., Suite 4192
McKinney, TX 75071

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Hill:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

The Honorable Cheryl Williams
Commissioner Pct. 2
Collin County Administration Building
2300 Bloomdale Rd., Suite 4192
McKinney, TX 75071

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Ms. Williams:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Diane Edmondson
Commissioner Pct. 4
Denton County Commissioners Court
110 W Hickory Street
Denton, TX 76201

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Ms. Edmondson:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

The Honorable Darrell Hale
Commissioner Pct. 3
Collin County Administration Building
2300 Bloomdale Rd., Suite 4192
McKinney, TX 75071

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Hale:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Dan Stricklin
Council Member, Place 5
George A Purefoy Municipal Center
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Stricklin:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

The Honorable Duncan Webb
Commissioner Pct. 4
Collin County Administration Building
2300 Bloomdale Rd., Suite 4192
McKinney, TX 75071

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Webb:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Jeff Cheney
Mayor
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Cheney:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

As part of the plan for the development, the aforementioned entities are applying for a Water Rights Permit to construct and maintain reservoirs for in-place recreation and agriculture. The ponds will be located on Unnamed Tributaries to Panther Creek.

The above entities are pursuing this application to appropriate State Water with the Texas Commission on Environmental Quality (TCEQ). Notification of the application will be sent to all Water Rights holders in the Trinity Watershed as well as to all of the members of the Frisco City Council and Denton County and Collin County Commissioners Courts.

Sincerely,

Todd Watson, *on behalf of FHQ Development Partners LP, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP, North Fields Investment Partnership LP, VPTM FIELDS LB LLC*

1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

John Keating
Council Member, Place 1
George A Purefoy Municipal Center
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Keating:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Ron Marchant
Commissioner Pct. 2
Denton County Commissioners Court
110 W Hickory Street
Denton, TX 76201

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Marchant:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Ryan Williams
Commissioner Pct. 1
Denton County Commissioners Court
110 W Hickory Street
Denton, TX 76201

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Mr. Williams:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

Auguat 18th, 2021

The Honorable Susan Fletcher
Commissioner Pct. 1
Collin County Administration Building
2300 Bloomdale Rd., Suite 4192
McKinney, TX 75071

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Ms. Fletcher:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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1900 North Akard Street
Dallas, TX 75201
T 214 978 8528 F 214 953 6333
fieldsfrisco.com

FIELDS

August 18th, 2021

Shona Huffman
Council Member, Place 2
George A Purefoy Municipal Center
6101 Frisco Square Blvd.
Frisco, TX 75034

Subject: Fields Development
Application for Permit to Appropriate State Water
City of Frisco, Denton County, Collin County, Texas

Dear Ms. Huffman:

FHQ Development Partners LP, VPTM FIELDS LB LLC, Fields Midtown East Investment Partners LP, Fields Midtown West Investment Partners LP, Fields Point West Investment Partners LP, Fields Preserve Investment Partners LP and North Fields Investment Partnership LP are proposing to construct Fields, a premier multi-use development within the City of Frisco, Denton County, and Collin County, Texas. The project is north of Panther Creek Parkway and east of Teel Parkway.

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R W HARDEN &ASSOCIATES INC
GROUNDWATER RESOURCE PROFESSIONALS
9009 Mountain Ridge Dr • Suite 100 • Austin Texas 78759 • ph (512) 345-2379 • fax (512) 338-9372

March 31, 2020

Todd Watson
FHQ Holdings, LP
1900 North Akard St.
Dallas, Texas 75201

Re: Groundwater Availability Evaluation: Brookside-Frisco, Collin/Denton Counties, Texas

Dear Mr. Watson,

R.W. Harden & Associates (RWH&A) has completed an evaluation of the groundwater resources beneath the Brookside-Frisco development in Collin and Denton counties, Texas. This study focused on estimating the availability of groundwater supplies for various uses including landscape irrigation and/or replenishment of evaporative losses from planned surface water impoundments. Based on information provided by Kimley-Horn and Associates, Inc., it is estimated that average annual needs from the system will be approximately 1,200 acre-feet, while the peak daily demand will be about 1,800 gallons per minute (gpm).

Our review consisted of compilation and analyses of available well construction records, water level and water quality records within a five-mile radius of Brookside-Frisco, the Groundwater Availability Model (GAM) for the Northern Trinity-Woodbine aquifers maintained by the Texas Water Development Board (TWDB), documents disseminated by Groundwater Management Area No. 8 (GMA-8), and the rules and management plan promulgated by the North Texas Groundwater Conservation District (NTGCD).

Target Aquifers

The evaluation results indicate the presence of three potential target aquifer zones beneath the Brookside-Frisco development, which are from shallowest to deepest the Woodbine, Paluxy, and Lower Trinity aquifers. Figure 1 shows the project location and the neighboring wells referenced in this report. Figure 2 consists of a generalized cross-sectional diagram of the aquifer zones beneath Brookside-Frisco. As shown, the Woodbine occurs from about 350 to 700 feet below ground level (bgl). The Paluxy is present from about 1,200 to 1,500 feet bgl, and the Lower Trinity lies from about 1,850 to 2,450 feet bgl at the site. These aquifers dip toward the east-southeast at approximately 50-100 feet per mile and receive recharge through infiltration of precipitation in northeast-southwest trending outcrop areas to the northwest. The Woodbine outcrop is approximately five miles to the northwest, while the outcrop of the Paluxy and the Lower Trinity are about 15 to 25 miles farther northwest, respectively.

Figure 1. TWDB-inventoried Wells within a 5 Mile Radius of Brookside-Frisco

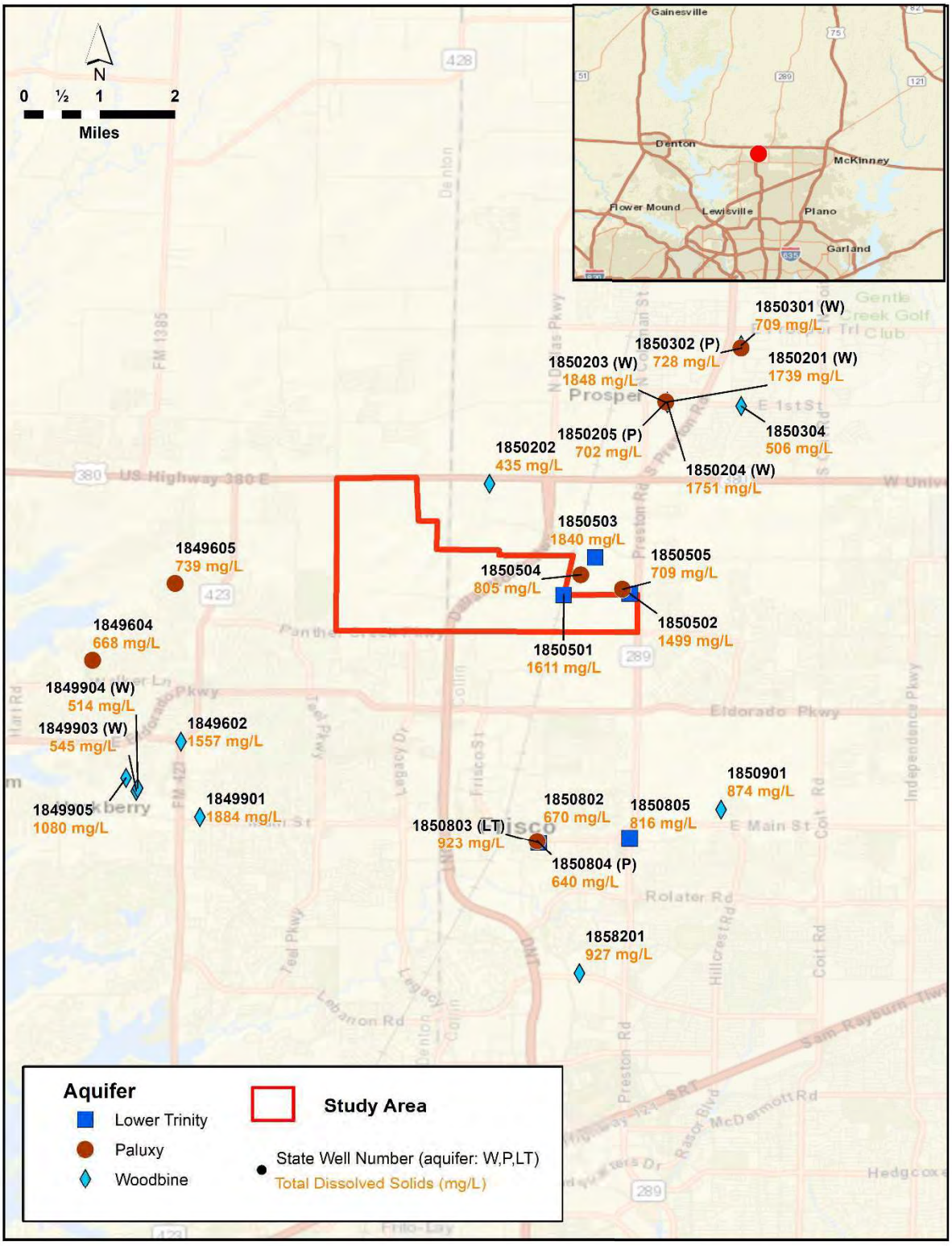
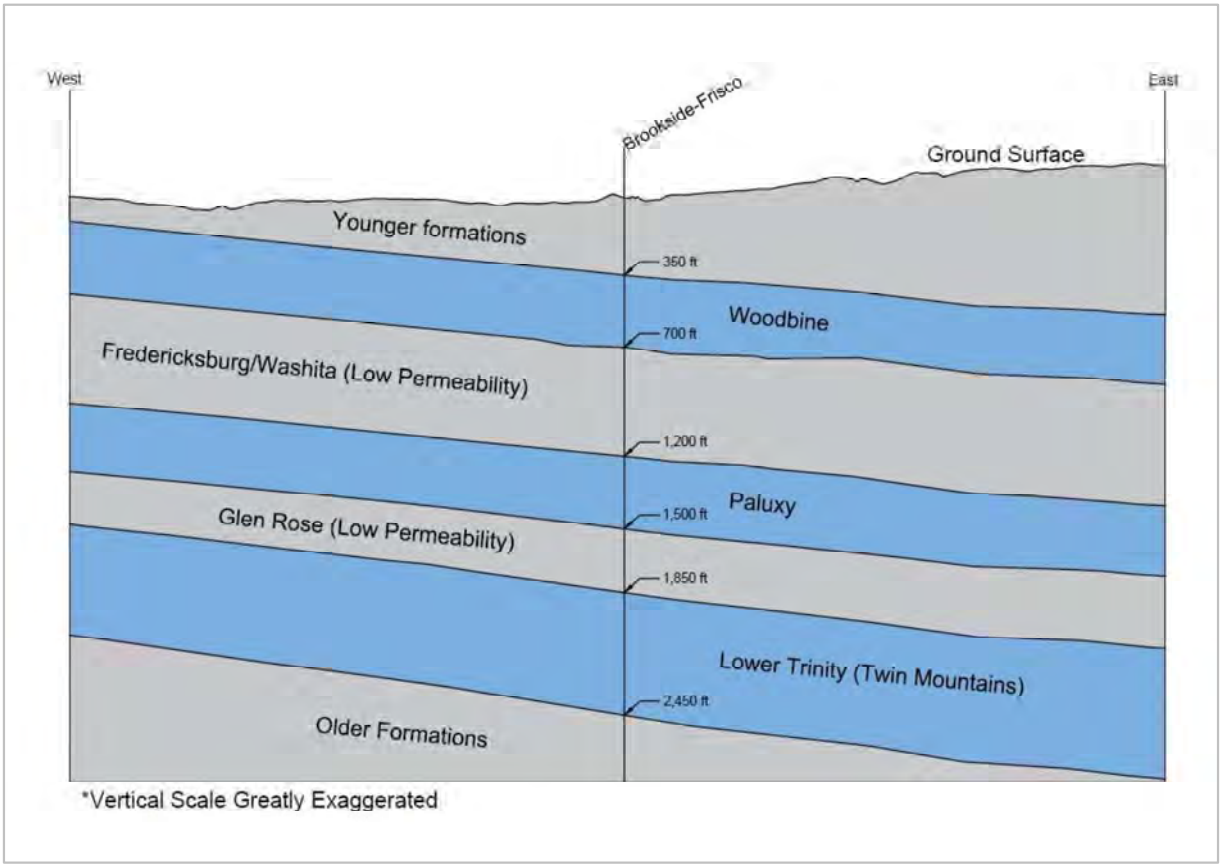


Figure 2. Schematic Cross Section of the Aquifers Underlying Brookside-Frisco



Water Quality

Table 1 lists the concentrations for some of the commonly reported chemical constituents and parameters from the three target aquifers within approximately five miles of Brookside-Frisco, as reported in the groundwater well information database maintained by the TWDB. Water quality analyses indicate that water produced from the Woodbine and Lower Trinity aquifers exceeds Texas Commission on Environmental Quality (TCEQ) secondary drinking water standards for some constituents. The TCEQ regulates public supply water quality using a defined set of primary and secondary drinking water standards for certain water quality constituents. Constituent concentrations above primary drinking water standards are considered a health hazard and must be treated to bring the levels below the specified limits prior to use as a potable public supply. Secondary standards are not considered a public hazard but represent an aesthetic nuisance. If elevated secondary constituents are not treated, approval from TCEQ must be granted before the water can be used for public supplies. Please note that, while it is informative to compare the chemical composition of the groundwater contained in the target aquifers with TCEQ standards for public supplies, groundwater produced for non-potable uses is not regulated by the TCEQ.

Table 1. Regional Water Quality

Woodbine Water Quality											
State Well Number	pH	Temp (°C)	Calcium (mg/L)	Sodium (mg/L)	Magnesium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	TDS (mg/L)	SAR
1849602	8.7		3.0	600	1.0	759	23	288	256	1,557	77
1849901	8.0		6.0	710	2.0	757	0	408	370	1,884	64
1849903	8.6		1.0	214	1.0	428	10	67	28	545	36
1849904	8.7		1.0	204	1.0	426	11	54	21	514	35
1849905	8.6		1.0	433	1.0	781	18	114	117	1,080	73
1850201	8.5		4.0	680	1.0	876	19	320	280	1,739	79
1850202	8.4		0.6	175	0.1	384	2	42	12	435	54
1850203	8.5		12 0	697	7.0	903	0	340	313	1,848	40
1850204	8.1		8.0	683	1.0	936	0	328	320	1,751	84
1850301	8.7	31.8	0.4	170	0.3	513	44	46	16	709	53
1850304	8.6		0.8	206	0.2	425	0	68	22	506	53
1850901	8.4		1.4	339	0.4	598	8	157	57	874	57
1858201	8.5		2.0	359	1.0	576	5	189	83	927	52
Average	8.5	32	3.2	421	1.3	643	11	186	146	1105	58
Maximum	8.7	32	12.0	710	7.0	936	44	408	370	1884	84
Paluxy Water Quality											
State Well Number	pH	Temp (°C)	Calcium (mg/L)	Sodium (mg/L)	Magnesium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	TDS (mg/L)	SAR
1849605				290		583	29	97	19	739	
1850205	8.6	30.2	1.6	285	1.0	610	0	87	25	702	56
1850302	8.7		1.6	298	0.1	578	31	85	26	728	62
1850504	8.5		2.0	323	0.5	637	22	109	22	805	63
1850505	8.9		1.6	287	0.5	527	38	97	24	709	41
1850802	8.7	29.0	1.8	262	0.2	535	17	90	19	670	38
1850804	8.2		2.3	272	0.6	470	0	96	19	640	53
1849604	8.7		1.6	271	0.4	576	0	89	21	668	50
Average	8.6	30	2	286	0.5	565	17	94	22	708	52
Maximum	8.9	30.2	2.3	323	1	637	38	109	26	805	63
Lower Trinity Water Quality											
State Well Number	pH	Temp (°C)	Calcium (mg/L)	Sodium (mg/L)	Magnesium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	TDS (mg/L)	SAR
1850501	8.3	38	2.6	620	3.8	304	0	81	740	1,611	55
1850502	8.3	37	6.0	580	1.0	305	18	91	640	1,499	58
1850503	7.6		23 0	607	8.6	485	0	894	46	1,840	28
1850803	8.5	40	1.4	359	0.6	555	6	189	78	923	64
1850805	8.4	42	2.4	317	0.5	392	5	87	192	816	49
Average	8.2	39	7.1	497	2.9	408	6	268	339	1,338	51
Maximum	8.5	42	23.0	620	8.6	555	18	894	740	1,840	64
TCEQ Secondary Standards (mg/L)	*>7.0*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*300*	*300*	*1,000*	*N/A*
Lake Lewisville Quality Standards	*6.5-9.0*	*32*						*80*	*60*	*500*	

For the constituents reported, none of the aquifers contain contaminants that exceed primary standards. Total dissolved solids (TDS) is commonly used as a general indicator of water quality; water with TDS concentrations below 1,000 milligrams per liter (mg/L) are considered fresh, brackish water contains between 1,000 and 10,000 mg/L TDS, and water with TDS concentrations in excess of 10,000 mg/L TDS is considered saline. For reference, the average TDS of sea water is approximately 35,000 mg/L. As shown in Table 1 and Figure 1, the groundwater contained in Woodbine is mildly brackish, on average, with concentrations ranging from approximately 500 to 1,900 mg/L, indicating that water quality is variable and site-specific. Four of 13 sampled Woodbine wells report chloride and/or sulfate concentrations above

TCEQ secondary standards. Water quality in the Paluxy aquifer is fresh throughout the region, with other reported major constituents below secondary standards. On average, water in the Lower Trinity aquifer is brackish. Three of the six sampled Lower Trinity wells report chloride or sulfate concentrations above secondary standards.

The produced waters from all target aquifers will likely exceed the TCEQ stream segment standards for Lake Lewisville, which may affect surface discharge permitting (if needed). The water quality of a surface reservoir is often dominated by larger, episodic rainfall runoff events that provide most of the water to the lake. Small creeks can experience a wide range of water quality as evaporation and transpiration concentrate TDS between runoff events. Consequently, the water quality of a contributing stream is generally degraded relative to lake water quality, however variation in rainfall and runoff patterns can periodically improve stream water quality to be equal, or above lake quality. The available data suggest that, in the event that a discharge permit is required, mass balance/mixing calculations will demonstrate that the introduction of groundwater is likely to have a negligible effect on Lake Lewisville water quality because the irrigation discharge volume is small relative to the lake volume.

Water from the three target aquifers may not be appropriate as a sole source of irrigation water due to the relatively high concentrations of sodium and bicarbonate. Excess sodium can be toxic to many plant species, and both bicarbonate and sodium can negatively impact soil permeability over time. As shown in Table 1, the average values of the Sodium Adsorption Ratio (SAR) are 58, 52, and 51, in the Woodbine, Paluxy, and Lower Trinity aquifers, respectively. While different species of plants and types of soil can tolerate a wide range of sodium and bicarbonate, the SAR values shown here are generally considered high for sustained, long-term irrigation. If unblended or untreated groundwater from any of the target aquifers is to be the main source of irrigation water, RWH&A recommends an evaluation of local soils and planned crops be performed by a qualified agronomist.

Groundwater Regulation

The North Texas Groundwater Conservation District (NTGCD or District) regulates groundwater production in Collin and Denton Counties, and was established in 2009. The District is currently operating under a set of rules that were originally adopted in 2010 but have since been amended several times to include new rules regarding well location, spacing, and production rates. The most recent amendment of the rules was ratified February 11, 2020. The rules most applicable to this project are:

- A production permit must be obtained prior to drilling, construction, or operation of a well or well system.
- If the permit applicant is requesting water for the purposes of irrigating an acre or more of landscape, the applicant must agree to install and maintain a smart irrigation controller (weather or soil moisture-based) on the irrigation system.
- Multiple wells that are part of a well system and that are owned and operated by the same entity and are completed in the same aquifer may be aggregated under a single permit.
- If the well(s) will produce at a rate greater than 200 gallons per minute (gpm), a hydrologist's report must be submitted with the production permit application.

- Wells must be located at least 50 feet from the nearest uncontrolled property.
- New wells that are equipped so that the maximum capacity is above 17.36 GPM must be located at least 1,175 ft + (1.2 x GPM) away from any other well completed in the same aquifer. While this rule is relatively restrictive (a 300 gpm well must be 1,535 feet from the nearest well), RWH&A communications with NTGCD staff indicate that this spacing rule does not apply to wells constructed on the same property as an aggregate well field. In other words, this rule only applies to the spacing between existing wells on adjoining properties and future Brookside-Frisco wells.
- The District assesses a production fee of $0.10 per 1,000 gallons for all non-exempt water uses except agricultural use, which is assessed a fee of $1.00 per acre-foot of water. For reference, an acre-foot of water is approximately 325,851 gallons.

As a member of GMA-8, the NTGCD must engage in joint planning with other northern Texas groundwater conservation districts to develop groundwater pumpage impact limits, which are termed "desired future conditions" (DFC). DFCs are defined every five years by GMA-8, which are then used by the TWDB to calculate the "modeled available groundwater" (MAG) for each aquifer regulated by the member conservation districts. MAG values represent the maximum amount of pumpage that can be sustained that results in aquifer impacts that are within DFC limits and must be considered by the NTGCD during well permitting processes. While MAGs are not considered to be regulatory pumpage caps, an application for groundwater production amounts that are large in comparison to established MAG values will require more effort to permit successfully.

Table 2 lists the currently-adopted MAG values for each target aquifer by decade. As shown the estimated annual Brookside-Frisco production of 1,200 ac-ft/yr represents a modest portion of the MAGs that, in RWH&A experience, could likely be permitted without significant opposition from the NTGCD. Please note that updated DFCs are currently being developed and are scheduled to be delivered to the TWDB for MAG calculation in early 2022.

Table 2. Aquifer MAG Values for Collin and Denton Counties

Aquifer	*Modeled Available Groundwater (MAG) (Acre-Feet per Year)*			
	2020	*2030*	*2040*	*2050*
Woodbine	7,879	7,858	7,879	7,858
Paluxy	6,383	6,366	6,383	6,366
Lower Trinity	10,596	10,567	10,596	10,567

Aquifer Transmissivity, Well Efficiency, and Available Drawdown

Maximum well productivity is primarily a function of three parameters: 1) aquifer transmissivity, 2) well efficiency, and 3) available drawdown. The term "transmissivity" describes an aquifer's ability to transmit water through a vertical section of sediments and is used as a general measure of the productivity of an aquifer. All other aspects of the groundwater system being equal, an aquifer with twice the transmissivity of another aquifer can sustain about twice as much production. Well efficiency is a measure of the ease with which an individual well can transmit water from the aquifer through the screen/gravel pack to the

well. Well efficiencies are defined by calculating the ratio of the declines predicted to occur in a theoretical, "perfect" well that incurs no added head loss as water moves from the aquifer to the well to the measured drawdown in a real-world well. Typical efficiencies range from about 50% for wells with straightwall construction, to greater than 90% for wells constructed for higher-capacity municipal applications.

Groundwater is vertically confined within the Woodbine, Paluxy, and Lower Trinity by overlying and underlying relatively-impermeable geologic formations. The downward pressure of near-surface groundwater in aquifer outcrop/recharge zones to the northwest pressurizes the groundwater beneath Brookside-Frisco. Consequently, aquifer (artesian) pressure will drive well bore water levels water above the top of the aquifer that is screened by a well. As wells are pumped, the decline in water level observed in the wells is the result of decreased groundwater pressure rather than desaturation of the aquifer sediments near the well bore. The vertical distance between the static (non-pumping) wellbore water level and the top of the aquifer is commonly referred to as artesian pressure. This distance is important with respect to groundwater availability because, as is the case with aquifer transmissivity, a well with twice as much artesian pressure can produce groundwater at twice the rate. However, rather than assuming that 100% of the available drawdown at a site may be utilized for production, it is beneficial to include some "safety factor" to account for hydrologic uncertainties and unforeseen impacts from other groundwater users when determining the availability of supplies over the long-term. Given that the target aquifers are a major source of groundwater for the region, significant declines in artesian pressure levels are likely in the future, which may affect the availability of groundwater. For this evaluation, it was assumed that 50% of the artesian pressure in the Brookside-Frisco area would be used for production of the intended supply over a 30-year well lifespan.

Water level data recorded during constant-rate aquifer tests are generally the most reliable method of estimating the hydraulic properties of an aquifer. However, no reliable aquifer test data are available from well in the Brookside-Frisco area. To calculate the anticipated well yields at Brookside-Frisco, RWH&A estimated a range of expected aquifer characteristics (aquifer hydraulic conductivity, aquifer depths, and artesian pressure.) using a combination of data and information from previous RWH&A efforts and the GAM.

Regional Interference Drawdown

Groundwater pumpage affects all users of groundwater who produce from the same aquifer; consequently, the well yields and overall groundwater availability of the aquifers beneath Brookside-Frisco will likely decline over time in response to artesian pressure declines (drawdown) imposed by competitive pumping in the region. In order to estimate the potential magnitude of interference drawdown that may occur over the next several decades, RWH&A evaluated the results of GAM simulations conducted by GMA-8 as part of the State's water planning process. These simulations suggest that significant declines will occur in each of the three aquifers beneath Brookside-Frisco over the next thirty years due to groundwater production in the region. Table 3 lists the current amount of artesian pressure, the anticipated regional drawdown, and the future amount of artesian pressure at Brookside-Frisco.

Table 3. Artesian Pressure and Estimated Regional Interference Drawdown

Aquifer	Current Artesian Pressure (Feet)	Regional Drawdown (2020-2050) (Feet)	2050 Artesian Pressure (Feet)
Woodbine	120	53	67
Paluxy	760	262	498
Lower Trinity	1,310	216	1,094

As shown, impacts from other groundwater users in the region over the next 30 years are anticipated to reduce artesian pressure levels in the Brookside-Frisco area by 44%, 34%, and 16% in the Woodbine, Paluxy, and Lower Trinity aquifers, respectively. The maximum production rates of Brookside-Frisco wells are expected to decline by commensurate proportions by 2050. However, it is important to note that the simulations used by GMA-8 for regional planning incorporate multi-decade predictions (educated guesses) of the locations and production schedules of numerous potential groundwater projects. As such, the amount of drawdown that is predicted to occur in the Brookside-Frisco area is highly-dependent on the accuracy of the predictions/assumptions applied to the GMA-8 simulations by its member groundwater conservation districts.

Well Field Modeling

An analytical groundwater model developed by RWH&A was used to estimate maximum potential future productivity in the Paluxy and Lower Trinity aquifers. Production was modeled through a 30-year interval at average continuous production rates, which allows for accurate assessment of average aquifer declines over that period. As discussed above, modeled drawdown is limited to 50% of the artesian pressure to account for unforeseen future pumpage by other groundwater users near Brookside-Frisco and to allow for production at higher peak rates when needed during summer months. Regional data indicates that the hydraulic properties of the target aquifers are variable in the Brookside-Frisco area. To bracket potential wellfield productivity, both low and high estimated transmissivity scenarios were evaluated for each aquifer. Table 4 shows parameters applied to the model scenarios. The model for this study assumes a 50% well efficiency, which is a typical for a properly constructed straightwall irrigation-supply well.

Table 4. Model Scenario Parameters

Description	Woodbine	Paluxy	Trinity
Low Transmissivity (gal/day/ft)	500	1,880	5,610
High Transmissivity (gal/day/ft)	2,200	4,860	11,200
Current Artesian Pressure (ft)	120	760	1,310
Modeled Available Drawdown (ft)	60	380	655

Tables 5 through 7 list the simulated long-term maximum production from wells completed in the target aquifers. Multiple wellfield scenarios were modeled, utilizing between one to seven currently-planned well locations on the Brookside-Frisco property. As shown, total system production increases as wells are added to the wellfield. However, due to compounding interference effects between wells, the rate of increase in wellfield productivity declines with each additional well.

Model results suggest that the Woodbine aquifer is not suitable for long-term production in the Brookside-Frisco area due a combination of factors including low aquifer transmissivity, shallow aquifer depth, and relatively-large predicted interference effects from other groundwater users in the region. However, production of up to about 30-50 gpm from individual Woodbine wells may be possible over the short-term where favorable site-specific aquifer characteristics are identified.

Table 5. Model Results – Woodbine Aquifer

Wells	Low Transmissivity		High Transmissivity	
	Avg. Well Yield (gpm)	Total Production (gpm)	Avg. Well Yield (gpm)	Total Production (gpm)
1	8	8	32	32
2	7	13	28	56
3	6	17	24	71
5	<5	20	17	86
7	<5	22	13	94

Table 6. Model Results – Paluxy Aquifer

Wells	Low Transmissivity		High Transmissivity	
	Avg. Well Yield (gpm)	Total Production (gpm)	Avg. Well Yield (gpm)	Total Production (gpm)
1	55	55	135	135
2	46	93	115	230
3	40	119	97	292
5	29	146	71	357
7	23	160	56	392

Table 7. Model Results – Lower Trinity Aquifer

Wells	Low Transmissivity		High Transmissivity	
	Avg. Well Yield (gpm)	Total Production (gpm)	Avg. Well Yield (gpm)	Total Production (gpm)
1	566	566	1,097	1,097
2	479	958	922	1,843
3	402	1,205	770	2,311
5	294	1,468	562	2,809
7	229	1,600	437	3,058

The Paluxy is significantly less productive than the Lower Trinity but, because Paluxy groundwater is likely fresh, development of supplemental Paluxy wells at Lower Trinity well sites may be beneficial in some circumstances. If the Lower Trinity transmissivity within Brookside-Frisco is on the higher end of the regional range, two or three wells may be sufficient to produce the desired daily peak capacity of approximately 1,800 gpm. If site-specific characteristics are less favorable, all seven planned well sites

may need to be developed and may produce, on the whole, less than the necessary total capacity.

Conclusions

The available data indicate that the hydraulic properties of the three potential target aquifers vary significantly throughout the region; as a result, the maximum yields from individual wells and from an aggregate Brookside-Frisco well field will be dependent on the hydraulic properties of the aquifer(s) at each well site. It is recommended that test drilling and aquifer testing be performed to document the hydrogeologic conditions beneath potential well sites prior to well design and permitting efforts. If favorable aquifer conditions are found, sufficient production may be obtained from a few larger wells, while several smaller wells may be required to fulfill project demands where less-permeable aquifer sediments are present.

Selection of one or more preferred aquifer zones typically depends on a combination of factors including productivity, reliability, water quality, and cost. The following summarizes the pros and cons associated with each of the potential target aquifers.

Woodbine Aquifer

- Well depth of approximately 700 feet
- Small capacity wells (up to approximately 30-50 gpm)
- Less expensive wells
- Variable, site-specific water quality
- Current groundwater availability: 50 to 175 acre-feet per year
- Future (2050) groundwater availability: less than 30 acre-feet per year

Paluxy Aquifer

- Well depth of approximately 1,500 feet
- Small to moderate capacity wells (up to approximately to 150 gpm)
- Moderately expensive wells
- Fresh water quality
- Current groundwater availability: 850 to 2,000 acre-feet per year
- Future (2050) groundwater availability: 300 to 650 acre-feet per year

Lower Trinity Aquifer

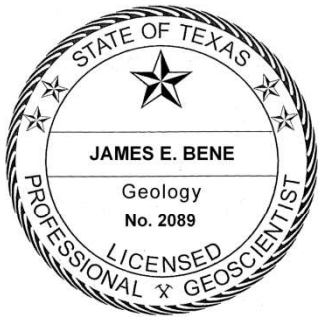
- Well depth of approximately 2,450 feet
- High capacity wells (up to approximately 1,100 gpm)
- Higher cost wells
- Primarily brackish water quality (but some fresh water in region)
- Current groundwater availability: 4,200 to 7,800 acre-feet per year
- Future (2050) groundwater availability: 2,600 to 4,900 acre-feet per year

The Woodbine is the least productive aquifer beneath Brookside-Frisco and contains groundwater of variable quality. However, construction of relatively shallow, inexpensive Woodbine wells may prove beneficial in circumstances where smaller well yields and poorer water quality are acceptable. The Paluxy contains consistently fresh water in the region and can likely sustain low to moderately productive wells given current artesian pressure levels. However, the overall productivity of the Paluxy is predicted to decline by approximately 34% over the next 30 years, requiring the construction of additional wells to maintain long-term production rates. Large-scale production may be obtained from the Lower Trinity with fewer, higher-capacity wells. Lower Trinity wells will be deeper, larger-diameter, and more expensive, but are predicted to be impacted to a lesser degree by interference drawdown from other wells in the region. It is likely that the Lower Trinity contains brackish groundwater beneath Brookside-Frisco.

The Woodbine, Paluxy, and Lower Trinity are vertically segregated by thick layers of relatively impermeable sediments. As a result, wells accessing these formations may be constructed at the same site without imposing interference drawdown on one-another. Depending on the desired production, site-specific aquifer properties, water quality, and budgetary constraints, various combinations of wells could be employed to achieve cost-effective results.

The three target aquifers contain "soft" groundwater with high concentrations of sodium relative to dissolved calcium and magnesium. The Sodium Adsorption Ratio (SAR) is commonly used as an indicator of a water's suitability for irrigation use. The average SAR values of the groundwater produced by the target aquifers in the region exceed 50, which is considered unacceptably high for sustained direct irrigation use, especially for areas with low permeability soils. RWH&A recommends that an evaluation of local soils and plants be performed by a qualified agronomist if unblended or untreated groundwater from any of the target aquifers is to be used for long-term irrigation.

Sincerely,



James Bené, P.G.
R. W. Harden & Associates, Inc.

The seal appearing on this document was authorized by James E. Bené, P.G. 2089 on March 31, 2021. R.W. Harden & Associates, Inc. TBPG Firm No. 50033.

Monthly Evaporation Summary

Month	TWDB Evaporation - Max (in.)	Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Pond 6	Pond 7	Total (ac-ft)
		Surface Area (ac.)							
		2.9	8.7	5.6	1.8	2.7	3.5	2.7	
		Evaporation Volume (ac-ft)							
January	4.30	1.04	3.12	2.01	0.65	0.97	1.25	0.97	10.00
February	5.29	1.28	3.84	2.47	0.79	1.19	1.54	1.19	12.30
March	5.65	1.37	4.10	2.64	0.85	1.27	1.65	1.27	13.14
April	6.32	1.53	4.58	2.95	0.95	1.42	1.84	1.42	14.69
May	6.59	1.59	4.78	3.08	0.99	1.48	1.92	1.48	15.32
June	8.95	2.16	6.49	4.18	1.34	2.01	2.61	2.01	20.81
July	10.47	2.53	7.59	4.89	1.57	2.36	3.05	2.36	24.34
August	11.14	2.69	8.08	5.20	1.67	2.51	3.25	2.51	25.90
September	8.82	2.13	6.39	4.12	1.32	1.98	2.57	1.98	20.51
October	6.00	1.45	4.35	2.80	0.90	1.35	1.75	1.35	13.95
November	4.32	1.04	3.13	2.02	0.65	0.97	1.26	0.97	10.04
December	3.75	0.91	2.72	1.75	0.56	0.84	1.09	0.84	8.72
Annual	81.60	19.72	59.16	38.08	12.24	18.36	23.80	18.36	189.72
Annual Evaporation (ac-ft)		189.72							
Annual Evaporation (gallons)		61,820,452							

Hines Inc

Colorado Office
323 West Drake Road, Suite 204
Fort Collins, CO 80526
Phone: 970-282-1800
Fax: 970-226-4662

PH2A Irrigation Master Plan Report

Date: August 18, 2021

To: Mr. Roger McInnis

From: Hines Inc

Re: Fields Development PH2A Non-Potable Irrigation Master Plan

The purpose of this memorandum is to present an update of the estimated water requirements and describe the non-potable irrigation water distribution system and related components including irrigation pump station, distribution piping, water metering, and system controls. Irrigation system design standards and recommended equipment will also be presented.

WATER DEMAND SUMMARY

In the following charts, estimated irrigation demand for Ph2A has been developed based on a combination of actual landscape design takeoffs and future design estimates from the project Landscape Architect and owner's representative. While not a part of the immediate scope, updated water demand estimates have been included for Phases 3A, 4A, and North Fields for reference. Annual irrigation water allotments based on NTGCD methodology is shown separately for reference only.

Fields Phase 2A

Project Segment	Gross Area	Irrigated Area	Temporary Native Seed	Bermuda Seed	Bermuda Sod	Trees, Shrubs & GC	Ornamental Grass Seed	Annual Water Requirement		Annual NTGCD Allotment
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Gallons	AcFt	Gallons
Brookside South	146	24.21	0.00	5.08	15.01	1.94	2.18	18,561,563	57	10,465,950
Brookside North	110	18.24	0.00	3.83	11.31	1.46	1.64	13,984,424	43	7,885,127
Brookside Sub Area	34	5.64	0.00	1.18	3.50	0.45	0.51	4,324,131	13	2,436,164
Brookside Amenity Center	3.96	1.69	0.00	0.35	1.05	0.14	0.15	1,295,706	4	730,585
Chain of Lakes	69.5	33.03	22.71	4.79	3.76	1.77	0.00	14,231,992	44	14,277,447
The Preserve	267.7	61.57	0.00	12.93	38.17	4.93	5.54	47,205,099	145	26,616,628
City Parks 2A	22.5	14.80	0.00	7.99	4.29	0.89	1.63	10,475,422	32	6,398,020
Totals	653.66	159.18	22.71	36.16	77.09	11.57	11.65	110,078,337	338	68,811,922

Fields Phase 3A

Project Segment	Gross Area	Irrigated Area	Temporary Native Seed	Bermuda Seed	Bermuda Sod	Trees, Shrubs & GC	Ornamental Grass Seed	Annual Water Requirement		Annual NTGCD Allotment
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Gallons	AcFt	Gallons
Midtown West	169.6	20.30	0.00	4.26	12.59	1.62	1.83	15,563,805	48	8,775,663
Point West	224.2	38.90	0.00	8.17	24.12	3.11	3.50	29,824,238	92	16,816,418
Midtown East	169.1	22.20	0.00	4.66	13.76	1.78	2.00	17,020,516	52	9,597,030
Totals	562.90	81.40	0.00	17.09	50.47	6.51	7.33	62,408,560	192	35,189,110

Fields Phase 4A

Project Segment	Gross Area	Irrigated Area	Temporary Native Seed	Bermuda Seed	Bermuda Sod	Trees, Shrubs & GC	Ornamental Grass Seed	Annual Water Requirement		Annual NTGCD Allotment
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Gallons	AcFt	Gallons
East Village	174.1	30.50	0.00	6.41	18.91	2.44	2.75	23,384,043	72	13,185,109
Point East	175.4	32.70	0.00	6.87	20.27	2.62	2.94	25,070,761	77	14,136,166
University Village	268.2	62.70	0.00	13.17	38.87	5.02	5.64	48,071,458	148	27,105,125
City Parks 3A 4A	49.5	32.50	0.00	17.55	9.43	1.95	3.58	23,003,461	71	14,049,706
Totals	667.20	158.40	0.00	43.99	87.48	12.02	14.91	119,529,723	750	68,476,106

North Fields

Project Segment	Gross Area	Irrigated Area	Temporary Native Seed	Bermuda Seed	Bermuda Sod	Trees, Shrubs & GC	Ornamental Grass Seed	Annual Water Requirement		Annual NTGCD Allotment
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Gallons	AcFt	Gallons
North Fields	149.8	16.80	0.00	3.95	11.66	1.50	1.69	14,413,771	44	8,127,215

** Hines Water Modeling Assumptions Include:*

- *TAMU historic ET rates for project area have been applied.*
- *Crop factors vary based on general planting category/type.*
- *Efficiency factors are based on established industry standards.*
- *Effective rainfall is estimated at 25% of average annual rainfall. (Rainfall applies only to estimated annual demand, not peak flow rates)*
- *Irrigation for the months of December, January and February is not included in the annual demand.*

The Phase 2A peak daily irrigation withdrawal is estimated at 852,766 gallons with an estimated 3.5-inches of peak season daily drawdown based on a total lake surface area of 8.7-acres at Pond 2. Assuming a 14-hr well operation window, an estimated 1,202gpm of total well production would be required to offset the peak daily combined PH2A irrigation demand and evaporative demand at all PH2A lakes. For reference, evaporation data provided by the project civil engineer (Kimley Horn) can be found at the bottom of this report in "Attachment C."

PH2A Peak Well Demand	
Peak Daily Irr. Need	852,766 Gallons
Peak Daily Evap (Ponds 1, 2, 4, 5)	157,144 Gallons
14/hr Day Well Operation	1,202 GPM
16/hr Day Well Operation	1,052 GPM
18/hr Day Well Operation	935 GPM

PH2A Pond 2 Draw Down	
Peak Daily Irr. Need	852,766 Gallons
Peak Daily Evap (Pond 2 Only)	84,931 Gallons
Peak Daily Draw Down	3.5" Inches

IRRIGATION WATER SUPPLY INFRASTRUCTURE

Based on the most recent project discussions and direction, the water source strategy for the site can be summarized as follows: groundwater will be pumped from the Lower Trinity aquifer into a series of ponds within the PH2A project limits to meet evaporative losses (Per Kimley Horn evaporation estimates) and satisfy irrigation withdrawals. An irrigation pump station will extract water from the 8.7-acre "Pond 2" located near the pond 2 pedestrian crossing; the pump station and downstream distribution piping will serve as the primary water source for Brookside South, Brookside North, Brookside Sub-Area, Brookside Amenity Center, Chain of Lakes, The Preserve, and potentially include PH2A City of Frisco parks.

Pump Station: The proposed irrigation pump station will be designed to provide the flow rates, delivery pressures and water filtration necessary to meet the irrigation demand outlined above in the PH2A Water Demand Summary. The pump station Will have a peak flow rate of 2,600 gpm at 125 psi and will include multiple high efficiency vertical turbine pumps installed over top of a circular concrete manhole (wet well) 8-ft in diameter and approximately 15-ft deep, with a 24"dia. intake pipe extending from the manhole to the bottom of the water storage pond. The pre-fabricated vertical turbine pump station will be skid mounted with PLC (programmed logic control), VFD (variable frequency drive), and auto-flushing filters to provide variable flow rates at a constant pressure to the irrigation distribution system. The pump and associated equipment will occupy a space of approximately 18' x 24' – currently the pump location is understood to be attached to the Amenity Center or located near it as a standalone structure. Minimum height required in the pump room or building is 8-ft, with a 6' wide double door, roof access hatch for removing pumps, heater, and ventilation system. The pump station strategy will include the use of multiple pump motors for redundancy in order to maintain full flow capacity in the event of a pump motor failure. The system will be capable of startup cycling to ensure even usage of each pump motor to improve overall system longevity and reliability. A low-flow pressure maintenance (jockey) pump will maintain system pressure and meet low flow needs to reduce cycling of main pumps. The station will require 480V/3PH/60Hz power for efficient operation. Vertical turbine pump stations require minimal maintenance annually, and when maintained well, these types of stations typically operate for 30-40

years. Pump station and related equipment costs have been estimated as indicated in the attached opinion of probable cost, "Attachment B".

Water Treatment: Accurate and detailed water quality data can only be confirmed once the on-site wells are established and tested. However, based on available well water quality data from Lower Trinity wells located near the Fields property, it is expected that the groundwater is of sufficient quality to be useful for project irrigation needs with some water treatment required. It is recommended that water treatment capabilities be integrated at the irrigation pump station, which is expected to include an injection system and a magnetic water conditioner to manage water quality conditions as outlined in the "Groundwater Availability Evaluation: Brookside-Frisco, Collin/Denton Counties, Texas" dated 03/21/2020. Further definition of specific water quality mitigation systems will be provided in the pump station construction document phase of work. As a general water quality note, we recommend that all on-site ponds employ pond aeration to introduce oxygen to the pond and encourage balancing of the aquatic ecosystem.

Distribution Piping: The pump station will supply water for PH2A common areas through a non-potable water piping network that will extend from the pump station location in both directions and on each side of the Chain of Lakes area. Please refer to "Attachment D" - PH2A Irrigation Master Plan for pipe routing. Distribution piping will be placed within the common landscape areas where sub-mainline connections will be made to serve each segment of the development. In all cases except for The Preserve, each connection point will be located within the Chain of Lake limit of work and include a water meter (Recordall Disc & Turbo Series), pressure regulating valve (Wilkins 500XL Series), and isolation gate valve (Leemco LMV Series). The irrigation systems downstream from the non-potable points of connection will be designed and installed as distinct systems with their own standardized controller units, mainline, master valves, flow sensing, and other downstream components.

Due to infrastructure ownership considerations and potential complications with easements, non-potable distribution piping does not extend into The Preserve other than two (2) 10-inch stubouts located directly north of Fields Parkway. Each stubout will include a water meter (Recordall Turbo Series) and an isolation gate valve (Leemco LMV Series). As such, the irrigation system design for the Preserve must include extension of the distribution system, appropriate distribution line sizing, flow monitoring, and locating/sizing of non-potable points-of-connection that are appropriate for the served landscape areas within The Preserve. It will be critical that the design of these systems include proper engineering by a qualified design firm to ensure the integrity of the overall non-potable distribution system.

Approximate distribution pipeline quantities and non-potable points of connection are indicated on the masterplan and in the Opinion of Probable Cost found in "Attachment B".

Sub-Metering Strategy: The use of an alternative water source necessities the installation of water metering devices so that the non-potable system owner/operator can accurately track and manage billing of non-potable water use by downstream users. This report assumes that each non-potable point-of-connection supplied with irrigation water will be sub-metered.

Our criteria for selecting a sub-metering system includes:

- Accurate flow readings
- Remote-read capability via cellular network so that drive-by data collection or visual verification is unnecessary

- An intelligent cloud service and user interface that offers ease of use and ability to export data for long term record keeping

Badger Meters, an industry leader in the water meter space, offers a system called “Aquacue” that mirrors the robustness of a municipal-sized system while offering scalability to accommodate smaller sites. The primary hardware system components include a metering device and an attached cellular “endpoint”, or communication module. Pictured below, a mechanical water meter is shown on the left and the cellular endpoint is shown on the right. Both items are installed within a valve/meter box, below grade.

Both devices are rated for full submergence in water and all electronics are fully potted. The benefit of fully potted electronics is excellent resistance to water intrusion while the downside is that batteries are not user replaceable which results in the need for product replacement at the end of the battery’s useable lifespan; the cellular endpoint battery lasts approximately 10 years based on average usage and the registers that sit atop of the water meters have an internal battery lifespan of 15 years. Replacement of the battery-containing devices does not require removal of the water meter itself.

The communication pathway from the site to a remote computer is summarized below in a graphic produced by Badger Meter:

Access to data is accomplished via a cloud-based web portal that can be accessed via any computer or phone with an Internet connection and web browser. This system offers some additional benefits in the realm of on-call customer support, customizable dashboards for display of information, start-up training, ability to use different cellular networks in the event of poor signal with a specific carrier, and security certifications.

Based on current list pricing guides from the manufacturer, Hines has prepared a 20-year forecast to include material costs, software setup costs, and recurring monthly fees for an example scenario of 17 metered non-potable connections. (Labor is not included)

Phase 2A Badger Aquacue w/ Recordall Water Meters 20-Year Forecast	
17 Endpoints (Original Installation)	$ 2,720.00
17 Endpoints (10yr Replacement)	$ 2,720.00
17 Water Meters (Original Installation)*	$ 28,749.00
17 Water Meter Registers (15yr Replacement)	$ 1,700.00
Installation Accessories	$ 239.70
Initial Setup/Engagement Fee/Training	$ 2,000.00
Monthly Service Cost (20 years)	$ 10,200.00
Estimated 20 Year Materials Cost	**$ 48,328.70**
**Assumes 1x 1-in, 1x 2-in, 13x 3-in, 2x 8-in Water Meters*	

Does not include installation costs.

Control System: All irrigation systems within the development will have the ability to be managed by a specific control system to ensure standardized management of the system throughout the site. Each sub-mainline connection point will include a master valve and flow sensor that will be connected to the control system to manage irrigation within each project segment. The system will enable global management and precise scheduling to facilitate efficient distribution of the available water supply. Smart water management capabilities, include but are not limited to, intelligent flow management, weather-based scheduling and the ability to detect system leaks. Each field unit will communicate with a cloud-based central system via cellular connectivity with the ability to be managed independently and as a part of the overall system.
See "Attachment A" for the specific controller make & model information, as well as other devices that will work in concert with the controller.

IRRIGATION SYSTEM STANDARDS

The purpose of this document is to define standards around irrigation system development, design, and performance benchmarks for new projects within the Fields development. Ultimately, the goal for each and every project is to achieve the following:

- Construction documents that are clear, concise, and consistent
- An irrigation system that is simple and cost-efficient to construct and maintain
- Highly efficient use of water to reduce waste and reduce water cost
- Design by qualified Certified Irrigation design professionals.

Performance And Maintenance Goals: Every new development site is unique in its demands on the landscape irrigation system, thus requiring unique design elements when planning system layout, equipment selection, and water and power requirements necessary to provide operational high efficiency and long-term low maintenance targets.

Managed landscapes, while highly visible users of water, provide ecological, economic and recreational benefits. It is the stakeholders' responsibility to advocate for efficient irrigation and to incorporate and promote all reasonable practices that minimize water consumption and waste. Total system efficiency is dependent upon many factors that include product selection, designing around proper plant hydrozones, considering site slopes, aspect, controlling sprinkler nozzle pressures, and minimizing water run-off, wind drift and evaporation. Both proper tap and mainline sizing are also

important in increasing system efficiency by ensuring the operating 'window' is not extended beyond design parameters.

Best practices require that the irrigation system is designed to deliver water precisely and efficiently to maintain the function and purpose of the managed landscape while complying with any local limitations and requirements.

The irrigation system shall be assembled and installed according to the irrigation design specifications, locally applied codes and standards, and manufacturers' product requirements. The qualified irrigation contractor or installer shall execute the installation per the plans and specifications and be capable of quality workmanship and the safe use of proper equipment.

To conserve and protect available water resources, the management of the system will optimize the efficient use of water to maintain a healthy and functional landscape with optimal irrigation system performance. This entails careful and active management of the system and adherence to all applicable watering limitations within the jurisdictional area. Management includes active irrigation system maintenance, scheduling, monitoring and evaluation of water use, landscape health, and appearance.

It is recommended that an irrigation design review board be assembled to review final irrigation designs (100% CD Irrigation Design Package) for any systems that will be served by the non-potable irrigation supply. We recommend that this review process be included in the Master HOA standards which will ensure that product selection and technical design intent align with the proposed efficiency standards and hydraulic constraints of the overall system. A qualified irrigation consulting firm should be contracted to provide hourly review services for each new phase of development that will draw from the non-potable irrigation infrastructure.

Design Criteria: Each design should minimally meet the following criteria such that all irrigation systems will provide coverage for all landscape types at a level appropriate for the needs of the proposed plant materials and the intended use.

Controller units will be wall or pedestal mounted units in steel enclosures, managed via the internet in groups or as standalone units. Each unit will require a 120VAC power supply and a cellular communication capability. The recommended control system will utilize real-time Local weather data and rain sensors to facilitate system adjustment based on localized weather conditions and to enable automatic system shutdown during periods of natural precipitation.

A solenoid operated master control valve and flow sensor will be located downstream from each connection point and will connect to the irrigation controller in order to provide system leak protection and ability to track and manage water use.

The irrigation systems anticipated will be a combination sprinkler and drip system using gear driven rotors, pop-up rotator, or pop-up spray sprinklers for turf and ornamental and native grasses and point source drip emitters or in line drip tubing for non-turf plant material. The primary plant material types (turf, trees, shrubs, groundcovers and ornamental grass) will be irrigated on separate control valves.

The irrigation system shall be designed to be drained using compressed air injected at a connection point indicated at each POC. Gate valves shall provide localized isolation of sections of the mainline to assist in system repair and maintenance.

Plastic solenoid control valves shall be rated at 200 psi, having a flow control and pressure regulation capability. Multiple valves may operate simultaneously as programmed from the controller. Each manual and solenoid valve shall be housed in a single valve box for valve access.

Quick coupling valves shall be located just downstream from the flow sensor, at mainline end points and on approximately 300-foot centers in larger areas for maintenance and incidental water needs.

Sprinklers shall be spaced to not exceed the manufacturer's recommended maximum spacing and to minimize over-spray onto hard surfaces or non-irrigated areas. All sprinklers shall be specified to be installed on swing joints.

Dripline shall be UV-resistant and include emitters that possess a check valve and pressure compensation. Each drip zone shall utilize a manual flush valve and an operation indicator. Barbed dripline fittings must be supplied by the same manufacturer as the dripline.

Recommended equipment brands and models are indicated in the attached Preferred Irrigation Equipment Table “Attachment A”.

Attachment A – Preferred Irrigation Equipment:

Field Development Preferred Irrigation Equipment List

Date: 7-20-21

Prepared By: Hines Inc

Control System
Rain Bird ESP-LXIVM with IQ4 Central w/ cellular. Use Pro version for over 55 zones.
Grounding every 15 valves or 500ft.
Turf and Seed Areas (15' Maximum)
Hunter PROSPRAY PRS30-CV-R Series with U-Series/HEVANs
(4in Pop Height on turf, 12in Pop Height on taller seeded grasses)
Hunter PROSPRAY PRS40-CV-R with MP Rotator SR Series
(4in pop-up height on turf, 12in pop-up height on taller seeded grasses)
Turf and Seed Areas (30' Maximum)
Hunter PROSPRAY PRS40-CV-R with MP Rotator Series
(4in pop-up height on turf, 12in pop-up height on taller seeded grasses)
Turf and Seed Areas (25'-40')
Hunter I-20-XX-PRB-R
Turf and Seed Areas (40'-65')
Hunter I-25-XX-R
Shrub Areas
Netafim Techline TLHCVXR-RW Buried or On-Grade Under Mulch Applications .33gph
12" emitter spacing, 12" row spacing
Trees in Turf Areas
Netafim Techline TLHCVXR-RW .33gph. Dripline configured in concentric rings, with a minimum of 3 rings
for up to 36-inch rootball diameter trees. Include at least 1 ring over rootball and 1 ring outside of rootball.
this assumes trees in turf will have mulch and that dripline will be installed on-grade, under mulch. Trees in turf
to be on their own zone.
Trees in Planter Bed Areas
Netafim Techline TLHCVXR-RW .33gph. Dripline configured in concentric rings, with a minimum of 3 rings
for up to 36-inch rootball diamters. Include at least 1 ring over rootball and 1 ring outside of rootball. Dripline
to be installed on-grade, under mulch. Trees on separate zone from other plant material.
Remote Control Valves
Rain Bird PESBIVM-R (1", 1.5", 2"). PR
Drip Control Valve Assemblies
Rainbird IVM-V-XCZ-100-PRBR Drip Control Zone Kit
Quick Coupler Valve
Rain Bird 44NP 1"
Master Valves
Rain Bird PESBIVM-R (1"-2")
Rain Bird BPESIVM (3")
Flow Sensor
FloMec QS Series Ultrasonic with IVM-SD sensor decoder
All equipment models to include Purple Non-Potable Indicators

Attachment B – Opinion of Probable Cost:

Fields Phase 2-A NP Infrastructure Prelim Opinion of Probable Cost

Date: 8/18/2021

Prepared By: Hines Inc.

ITEM	*DESCRIPTION*	*UNITS*	*QUANTITY*	*UNIT PRICE*	*TOTAL*
1	Pond A VT Pump Station, 2,600 GPM *	EA	1	$ 340,000.00	**$ 340,000.00**
2	480v/3/60 Power Drop (transformer, disconnect, etc.)	EA	2	$ 25,000.00	**$ 50,000.00**
3	24" C905 DR 51 PVC OR RCP Wet Well Suction Pipe	LF	150	$ 205.00	**$ 30,750.00**
4	8' Dia x 15' Deep RCP Wet Well	EA	1	$ 50,000.00	**$ 50,000.00**
5	16" C905 Class 235 PVC Pipe	LF	200	$ 83.00	**$ 16,600.00**
6	14" C905 Class 235 PVC Pipe	LF	150	$ 65.00	**$ 9,750.00**
7	12" Class 200 C900 PVC Pipe	LF	5,520	$ 55.00	**$ 303,600.00**
8	10" Class 200 C900 PVC Pipe	LF	1,850	$ 43.00	**$ 79,550.00**
9	8" Class 200 C900 PVC Pipe	LF	2,057	$ 25.00	**$ 51,425.00**
10	6" Class 200 C900 PVC Pipe	LF	1,420	$ 18.00	**$ 25,560.00**
11	4" Class 200 C900 PVC Pipe	LF	800	$ 14.00	**$ 11,200.00**
12	3" Class 200 C900 PVC Pipe	LF	200	$ 12.00	**$ 2,400.00**
13	10" Point-of-Connection Equip. (6" Gate Valve)	EA	2	$ 1,500.00	**$ 3,000.00**
14	3" Point-of-Connection Equip. (3" PRV and Gate Valve)	EA	13	$ 2,750.00	**$ 35,750.00**
15	2" Point-of-Connection Equip. (2" PRV and Gate Valve)	EA	1	$ 1,450.00	**$ 1,450.00**
16	1.5" Point-of-Connection Equip. (1.5" PRV and Gate Valve)	EA	1	$ 1,000.00	**$ 1,000.00**
17	Water Meter (Badger Sub-meters)	LS	1	$ 69,465.40	**$ 69,465.40**
18	Isolation Gate Valves	LS	9	$ 1,000.00	**$ 9,000.00**
19	Contingency	LS	1	10%	**$ 109,050.04**
20	Contractor OH & Profit	LS	1	20%	**$ 239,910.09**
	TOTAL				**$ 1,439,460.53**

** Pricing does not include pump house building or enclosure.*

General Note: Pricing is based on historical market data and does not account for recent price fluctuations due to COVID19 impact on manufacturing and supply chain.

Attachment C – Kimley Horn Evaporation Data from 08/17/2021

Monthly Evaporation Summary

Month	TWDB Evaporation - Max (in.)	PH2A Pond 1	PH2A Pond 2	PH3A Pond 3	PH2A Pond 4	PH2A Pond 5	N. Flds Pond 6	N. Flds Pond 7	Total (ac-ft)
		Surface Area (ac.)							
		2.9	8.7	5.6	1.8	2.7	3.5	2.7	
		Evaporation Volume (ac-ft)							
January	4.30	1.04	3.12	2.01	0.65	0.97	1.25	0.97	10.00
February	5.29	1.28	3.84	2.47	0.79	1.19	1.54	1.19	12.30
March	5.65	1.37	4.10	2.64	0.85	1.27	1.65	1.27	13.14
April	6.32	1.53	4.58	2.95	0.95	1.42	1.84	1.42	14.69
May	6.59	1.59	4.78	3.08	0.99	1.48	1.92	1.48	15.32
June	8.95	2.16	6.49	4.18	1.34	2.01	2.61	2.01	20.81
July	10.47	2.53	7.59	4.89	1.57	2.36	3.05	2.36	24.34
August	11.14	2.69	8.08	5.20	1.67	2.51	3.25	2.51	25.90
September	8.82	2.13	6.39	4.12	1.32	1.98	2.57	1.98	20.51
October	6.00	1.45	4.35	2.80	0.90	1.35	1.75	1.35	13.95
November	4.32	1.04	3.13	2.02	0.65	0.97	1.26	0.97	10.04
December	3.75	0.91	2.72	1.75	0.56	0.84	1.09	0.84	8.72
Annual	81.60	19.72	59.16	38.08	12.24	18.36	23.80	18.36	189.72
Annual Evaporation (ac-ft)		189.72							
Annual Evaporation (gallons)		61,820,452							

Attachment D – Fields PH2A Irrigation Master Plan: See attached plan sheet MP-1

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