



June 6, 2023

TCEQ Central Office (MC 160)  
Water Rights Permitting and Availability Section  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: City of Houston Application to Obtain Water Use Permit  
(CN: 600128995)

Dear Sir:

The City of Houston (City) is pleased to submit its Application for a New Appropriation of State Water (Application) to the Texas Commission on Environmental Quality (TCEQ) for review and consideration. The Application has been uploaded to the TCEQ's FTP site and an email of its filing has been provided to [WRPT@tceq.texas.gov](mailto:WRPT@tceq.texas.gov). One hard copy of the Application is enclosed. An ACH payment for \$10,000.00 was submitted on August 27, 2021.

The Application seeks a new appropriation of 204,931 acre-feet of water per year based on available return flow discharges within the San Jacinto River Basin upstream of Lake Houston and downstream of Lake Conroe. The City is not seeking to appropriate return flows that have already been allocated to existing water rights.

If you have any questions or concerns, please contact me at (512) 472-8021 or at [REDACTED] or Michael Pinckney or David Harkins at (512) 427-8154 or at [REDACTED].

Respectfully submitted,

Bickerstaff Heath Delgado Acosta LLP  
3711 S. MoPac, Building One, Suite 300  
Austin, TX 78746  
[REDACTED]

Phone: (512) 472-8021  
Fax: (512) 320-5638

By:   
\_\_\_\_\_  
Emily W. Rogers  
State Bar No. 24002863

City of Houston Legal Department  
Arturo G. Michel, City Attorney  
Cady M. Mello, Assistant City Attorney  
900 Bagby Street, 4<sup>th</sup> Floor  
Houston, TX 77002  
Phone: (832) 393-6435  
Fax: (832) 393-6259

ATTORNEYS FOR CITY OF HOUSTON

# 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): City of Houston

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).

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

# ADMINISTRATIVE INFORMATION REPORT

The following information is required for all new applications and amendments.

**\*\*\* Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Staff to discuss Applicant's needs prior to submitting an application. Call the Water Rights Permitting Team to schedule a meeting at (512) 239-4600.**

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

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

New Appropriation of State Water

Amendment to a Water Right \*

Bed and Banks

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

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

Please see attached summary of request.

## 2. APPLICANT INFORMATION (Instructions, Page. 6)

### a. Applicant

Indicate the number of Applicants/Co-Applicants 1  
(Include a copy of this section for each Co-Applicant, if any)

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

N

*(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 : 600128995 (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: Carol Haddock, P.E.

Title: Director, Houston Public Works

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

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: Houston Public Works

Mailing Address: 611 Walker St

City: Houston State: Texas ZIP Code: \_\_\_\_\_

Indicate an X next to the type of Applicant:

<input type="checkbox"/> Individual	<input type="checkbox"/> Sole Proprietorship-D.B.A.
<input type="checkbox"/> Partnership	<input type="checkbox"/> Corporation
<input type="checkbox"/> Trust	<input type="checkbox"/> Estate
<input type="checkbox"/> Federal Government	<input type="checkbox"/> State Government
<input type="checkbox"/> County Government	<input checked="" type="checkbox"/> City Government
<input type="checkbox"/> Other Government	<input type="checkbox"/> Other _____

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number: \_\_\_\_\_ SOS Charter (filing) Number: \_\_\_\_\_

### 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: Michael Pinckney

Title: Senior Engineer

Organization Name: Carollo Engineers, Inc.

Mailing Address: 8911 N Capital of Texas Hwy, Bldg 2, Ste 2200

City: Austin State: Texas ZIP Code: 78759

Phone Number: 512-427-8154

Fax Number: \_\_\_\_\_

E-mail Address: 

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

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

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

First and Last Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**5. MISCELLANEOUS INFORMATION (Instructions, Page. 9)**

a. The application will not be processed unless all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol by all applicants/co-applicants. If you need assistance determining whether you owe delinquent penalties or fees, please call the Water Rights Permitting Team at (512) 239-4600, prior to submitting your application.

1. Does Applicant or Co-Applicant owe any fees to the TCEQ? **Yes / No** 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** 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. Applicants may check their status with the Comptroller at <https://mycpa.cpa.state.tx.us/coa/>

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

c. The commission will not grant an application for a water right unless the applicant has submitted all Texas Water Development Board (TWDB) surveys of groundwater and surface water use – if required. See TWC §16.012(m) and 30 TAC § 297.41(a)(5). Applicants should check survey status on the TWDB website prior to filing:

[https://www3.twdb.texas.gov/apps/reports/WU/SurveyStatus\\_PriorThreeYears](https://www3.twdb.texas.gov/apps/reports/WU/SurveyStatus_PriorThreeYears)

Applicant has submitted all required TWDB surveys of groundwater and surface water?

**Yes / No** Yes

**6. SIGNATURE PAGE (Instructions, Page. 11)**

Applicant:

I, Carol Haddock Director - Houston Public Works  
(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.

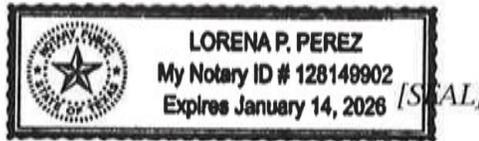
Signature: Carol Haddock Date: 6/1/2023  
(Use blue ink)

Subscribed and Sworn to before me by the said

on this 1st day of June, 2023.

My commission expires on the 14th day of January, 2026.

[Signature]  
Notary Public



Harris  
County, Texas

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

Signatory Authority

*Agenda - Jan. 28, 2009 Item #*

MOTION NO. 2009 0026

MOTION by Council Member Khan that the recommendation from the Director of the Department of Public Works and Engineering, relative to signing water rights applications on behalf of the City of Houston, be adopted, and in accordance with the State of Texas under 30TAC§295.14, the Director of the Department of Public Works and Engineering is hereby given signatory authority on behalf of the City of Houston and any successor organization of the City of Houston.

Seconded by Council Member Green and carried.

Mayor White, Council Members Lawrence, Johnson,  
Clutterbuck, Adams, Sullivan, Khan, Holm, Rodriguez,  
Brown, Lovell, Green and Jones voting aye  
Nays none  
Council Member Noriega absent

PASSED AND ADOPTED this 28th day of January, 2009.

Pursuant to Article VI, Section 6 of the City Charter, the  
effective date of the foregoing motion is February 3, 2009.

  
City Secretary

# Summary of Request

The City of Houston (City) is seeking a new appropriation of 204,625 ac-ft/yr (194,393 ac-ft/yr after 5% channel losses) of water based on permitted return flow discharges within the San Jacinto River Basin upstream of Lake Houston and downstream of Lake Conroe. This requested new appropriation of water is supported by the requested basin return flows, which are then to be diverted from the perimeter of Lake Houston or stored in Lake Houston. The City is not seeking authorization to divert and use return flows that have already been allocated to existing water rights.

Tables 1 and 2 below, present the requested 282 return flow discharges and identify for each discharge: the discharging entity, the TPDES permit number, location, permitted discharge volume, and maximum discharge rate. For the 217 discharges listed in Table 1, there is five years of historical discharge data, which was used in the Water Availability Modeling. For the 65 permits listed in Table 2, the five years of historical discharge data could not be obtained. Therefore, while included in the application and proposed accounting plan (to be provided during technical review), diversions available from the discharges identified in Table 2 will be assumed to be zero until sufficient flow data is obtained to identify a reliable discharge volume for each of these permits.

The City requests to divert the new appropriation of water from the perimeter of Lake Houston at a maximum diversion rate equal to the sum of the TPDES maximum discharge rates less 5% channel loss. The total permitted discharge volume of the 217 TPDES permits identified in Table 1 is 155.5 MGD at a maximum permitted discharge rate of 398,034 gpm. The total permitted discharge volume of the 65 TPDES permits identified in Table 2 is 27.15 MGD at a maximum permitted discharge rate of 73,949 gpm. Thus, with a 5% channel loss applied, the City is requesting a total diversion authorization of 173.54 MGD (194,393 ac-ft/yr) with a maximum diversion rate of 398,034 gpm. However, the actual amount of return flows that the City may divert and the actual diversion rate of the water will be based upon the sum of the actual daily average discharge of each TPDES discharge, less 5% channel loss. The City will track the discharges using a revised Lake Houston accounting plan, which will be provided to the TCEQ during technical review. The City will verify as required by the water right the volume of return flows reported to the TCEQ on a monthly basis and make adjustments, if necessary, to the accounting plan to ensure the City does not divert or store more water than is actually discharged.

Additionally, the City acknowledges that the diversion and use of these return flows may be interrupted based on direct reuse and may be terminated based on permitted indirect reuse, and that the City will not be able to subsequently assert that this water right was granted based on the permanent use or availability of such return flows.

**Table 1: Requested Return Flow Discharges**

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0014979001	EASTWOOD HILLS SUBDIVISION WASTEWATER	0.05	103	30.150715	-95.430273
WQ0011964001	HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 110 WASTEWATER	1	2,314	30.038059	-95.436456
WQ0014755001	BENDERS LANDING WASTEWATER	0.9	2,500	30.103240	-95.338495
WQ0011988002	HARRIS COUNTY MUD 24 WATER TREATMENT FACILITY 1	0.06		30.024179	-95.525472

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0011988003	HARRIS COUNTY MUD NO. 24 WTP NO. 2 WATER TREATMENT FACILITY	0.06		30.034638	-95.542830
WQ0011993001	CITY OF WOODBRANCH VILLAGE WASTEWATER	0.133	417	30.172988	-95.177680
WQ0004879000	HOCKLEY DATA CENTER	0.15	156	30.019930	-95.865263
WQ0011618003	HUNTER'S GLEN MUNICIPAL UTILITY DISTRICT WASTEWATER	1.4	4,170	30.029725	-95.320265
WQ0011630001	LONDONDERRY WASTEWATER	1.5	4,167	30.120715	-95.549661
WQ0011715001	TEXAS NATIONAL MUD WASTEWATER	0.225	469	30.414770	-95.428755
WQ0014903001	CITY OF MAGNOLIA WASTEWATER	2	5,556	30.189944	-95.751932
WQ0011886001	SPLASHTOWN WASTEWATER	0.06	150	30.070643	-95.431287
WQ0014964001	HARRIS COUNTY ID NO. 18 WASTEWATER	2.25	6,250	30.088472	-95.439724
WQ0011799001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 82 WASTEWATER	2.2	6,111	30.071935	-95.376711
WQ0011814001	BOYS AND GIRLS COUNTRY OF HOUSTON WASTEWATER	0.1	126	30.042329	-95.812647
WQ0011820001	LAZY RIVER ID WASTEWATER	0.1	260	30.226410	-95.436786
WQ0011832001	FAULKEY HULLY WASTEWATER	1.42	3,944	29.998615	-95.606299
WQ0011844001	FOREST HLEN CHRISTIAN CAMP WASTEWATER	0.04	83	30.663055	-95.346746
WQ0011855001	NORTH PARK UNTILITY DISTRICT WASTEWATER	1.31	2,735	30.035374	-95.421611
WQ0014643001	PARK CREEK WASTEWATER	0.1	278	30.008978	-95.675597
WQ0014711001	MOSTYN MANOR WASTEWATER	0.5	1,389	30.250257	-95.662389
WQ0014973001	WOODLAND 50 MF WASTEWATER	0.2	486	30.175509	-95.600890
WQ0014908002	NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 19 WASTEWATER	0.25	868	30.132439	-95.532719
WQ0012650001	SPRING OAKS MHP WASTEWATER	0.025	52	30.086572	-95.485551
WQ0012670001	CADDO VILLAGE WASTEWATER	0.175	365	30.442963	-95.457697
WQ0012730001	WHISPER MEADOWS WASTEWATER	0.0154	43	30.021607	-95.585830
WQ0012761001	WESTMONT MHP WASTEWATER	0.05	100	30.338228	-95.563181
WQ0012274001	NEW CANEY MUD WASTEWATER	2	6,944	30.137896	-95.203214
WQ0012303001	OAKWOOD VILLAGE WASTEWATER	0.015	31	30.096636	-95.506897
WQ012327001	CYPRESS HILL MUNICIPAL UTILITY DISTRICT NO. 1 WASTEWATER	0.99	2,063	29.981212	-95.700346
WQ0012378002	RICHEY ROAD WASTEWATER	0.45	1,250	30.008935	-95.391331
WQ0012204001	STEPHEN F. AUSTIN WASTEWATER	0.02	83	30.332777	-95.332768
WQ0012205001	SAN JACINTO ELEMENTARY WASTEWATER	0.015	63	30.172172	-95.318357
WQ0012212002	CITY OF SHENANDOAH WASTEWATER	3	6,250	30.199084	-95.447160
WQ0012224001	KLEIN INDEPENDENT SCHOOL DISTRICT WASTEWATER	0.011	23	30.050031	-95.527391
WQ0012239001	HARRIS COUNTY MUD 36 WASTEWATER	0.99	2,084	29.991248	-95.403461
WQ0012242001	PORTER MUNICIPAL UTILITY DISTRICT WASTEWATER	4	11,111	30.085507	-95.228766
WQ0012248001	S.C. UTILITIES WASTEWATER	0.1	208	29.985865	-95.570027
WQ0014638001	MSEC WASTEWATER	0.02	56	30.318468	-95.623878
WQ0012382001	FIVE OAKS WASTEWATER	0.12	250	30.112701	-95.501851
WQ0014901001	HOUSTON OAKS WASTEWATER	0.01	28	30.095929	-95.839202

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0004249000	STEELY LUMBER PLANT, A SAW MILL THAT PRODUCES LUMBER, WOOD CHIPS, FRACTIONATED WOOD, AND HUMUS	0.84	1,228	30.681135	-95.495462
WQ0011933001	WOODCREEK MUNICIPAL UTILITY DISTRICT WASTEWATER	0.95	1,979	30.011520	-95.377514
WQ0011939001	NORTHWEST HARRIS COUNTY MUD NO. 15 WASTEWATER	3.12	6,500	30.025678	-95.617166
WQ0011941001	HARRIS COUNTY MUD 58 WASTEWATER	0.6	1,670	30.003346	-95.470707
WQ0011970001	MONTGOMERY COUNTY MUD 19 WASTEWATER	0.79	2,194	30.126548	-95.443851
WQ0014285001	EMERSON ESTATES WASTEWATER	0.3	625	30.325031	-95.309159
WQ0014311001	MARE BRANCH WASTEWATER	0.75	2,083	30.198216	-95.201389
WQ0013819001	OLD TOWN SPRING WASTEWATER	0.52	1,444	30.074803	-95.420596
WQ0015003001	DECKER OAKS WASTEWATER	0.8	1,667	30.142563	-95.653217
WQ0013875002	GLEANNLOCH WASTEWATER	1.5	4,167	30.039510	-95.566844
WQ0013881001	HARRIS COUNTY MUD NO. 365 WASTEWATER	1.2	3,333	29.965902	-95.676830
WQ0013893001	ACCELERATED PRODUCTION WASTEWATER	0.018	75	30.036221	-95.601439
WQ0014028001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 371 WASTEWATER	0.25	695	29.955473	-95.709139
WQ0014029001	LONE STAR RANCH WASTEWATER	0.6	1,667	30.221554	-95.319262
WQ0014030001	NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 9 WASTEWATER	1.5	3,125	29.961919	-95.588547
WQ0013942001	INLINE UTILITIES WASTEWATER	0.25	521	30.072019	-95.573507
WQ0013985001	REMBERT TRACT WASTEWATER	0.38	1,056	30.123764	-95.387808
WQ0014007001	TIMBERLOCH ESTATES WASTEWATER	0.13	361	30.099630	-95.719529
WQ0014013001	GREENFIELD FOREST WASTEWATER	0.05	104	30.216054	-95.551108
WQ0010616001	CITY OF TOMBALL NORTH WASTEWATER	1.5	3,125	30.112014	-95.608878
WQ0010616002	SOUTH WASTEWATER	1.5	4,166	30.066401	-95.608882
WQ0013619001	WILLOW OAKS WASTEWATER	0.04	111	30.103009	-95.545780
WQ0013625001	NORTHWEST HARRIS COUNTY MUD 20 WASTEWATER	1.5	4,167	30.017146	-95.491009
WQ0014650001	WEST LAKE HOUSTON WASTEWATER	0.45	1,250	29.971437	-95.165039
WQ0013636001	WOOD TRACE INTERIM WASTEWATER	0.405	933	30.151061	-95.665333
WQ0013638001	ROMAN FOREST CONSOLIDATED MUNICIPAL UTILITY DISTRICT WASTEWATER	0.322	559	30.169340	-95.178474
WQ0013648001	ENCANTO REAL UTILITY DISTRICT WASTEWATER	0.5	1,215	30.107753	-95.487779
WQ0013700001	CHATEAU WOODS MUNICIPAL UTILITY DISTRICT WASTEWATER	0.4	833	30.168810	-95.413825
WQ0013753001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 360 WASTEWATER	0.4	1,111	29.979695	-95.632564
WQ0013760001	MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT NO. 56 WASTEWATER	0.1	208	30.129725	-95.299450
WQ0013765001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 249 WASTEWATER	0.8	1,667	30.062776	-95.423878
WQ0015012001	PLUM GROVE WASTEWATER	0.49	1,361	30.186690	-95.081843
WQ0014606001	PINE TRACE WASTEWATER	0.24	500	30.102288	-95.571128
WQ0014907001	CLOVERCREEK MUD WASTEWATER	0.12	333	30.175886	-95.753488
WQ0013152001	NORTHWEST HARRIS COUNTY MUD 32 WASTEWATER	0.754	2,094	30.061532	-95.515242

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0013296002	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 358 WASTEWATER	2	4,861	29.986236	-95.728275
WQ0013569001	MIDDLESTEADT SHOPPING CENTER WASTEWATER	0.0015	3	30.000300	-95.507196
WQ0014662001	HIGH POINT ELEMENTARY SCHOOL WASTEWATER	0.024	67	30.348993	-95.914572
WQ0013389001	CITY OF SPLENDORA WASTEWATER	0.3	1,042	30.236929	-95.159635
WQ0012851001	PINEDALE MOBILE HOME PARK (MHP) WASTEWATER	0.06	125	30.144790	-95.662901
WQ0013059001	KWIK-KOPY WASTEWATER	0.015	31	29.958873	-95.655901
WQ0010310001	CITY OF WALLER WASTEWATER	0.9	2,188	30.048520	-95.924032
WQ0010315001	CITY OF WILLIS WASTEWATER	0.99	2,750	30.397936	-95.476856
WQ0013472001	GBW RAILCAR SERVICES HOCKLEY WASTEWATER	0.006	13	30.028940	-95.860822
WQ0014912001	TIMBERCREST VILLAGE WASTEWATER	0.235	490	30.131440	-95.551283
WQ0013526001	KINGS MANOR MUD WASTEWATER	0.4	1,111	30.051626	-95.236622
WQ0013527001	RICHARDS ISD WASTEWATER	0.005	10	30.539367	-95.841617
WQ0014996001	UFP NEW WAVERLY WASTEWATER	0.02	55	30.571277	-95.475624
WQ0012519001	TIMBERWILDE WASTEWATER	0.1	208	30.117420	-95.547282
WQ0012579001	SPRING WEST MUD WASTEWATER	0.762	1,588	30.070624	-95.452532
WQ0012587001	DECKER HILLS WASTEWATER	0.46	958	30.175029	-95.634066
WQ0012600001	ED-LOU WASTEWATER	0.008	27	30.020221	-95.644944
WQ0012614001	HARRIS COUNTY UTILITY DISTRICT NO. 16 WASTEWATER	0.5	1,042	29.992330	-95.401917
WQ0012621001	COUNTRY WEST WASTEWATER	0.15	417	30.224499	-95.291962
WQ0012637001	SPRING CENTER WASTEWATER	0.006	13	30.097948	-95.433912
WQ0012643001	PINEWOOD PLACE MHP WASTEWATER	0.1	215	30.082280	-95.560067
WQ0011395001	MONTGOMERY COUNTY MUD 15 WASTEWATER	0.9	2,500	30.224731	-95.434263
WQ0011404001	DOWDELL PUD WASTEWATER	0.95	2,639	30.092384	-95.554492
WQ0011406001	HARRIS COUNTY MUD 26 WASTEWATER	1.5	4,167	30.031776	-95.302955
WQ0011410002	CHARTERWOOD MUD WASTEWATER	1.65	4,583	30.000891	-95.570243
WQ0011437001	GRIMES COUNTY MUNICIPAL UTILITY DISTRICT NO. 1 WASTEWATER	0.025	86	30.412278	-95.926590
WQ0011444001	HARRIS COUNTY WCID NO. 99 WASTEWATER	0.225	781	30.037656	-95.416643
WQ0014181001	MAHAFFEY ROAD WASTEWATER	0.225	469	30.085719	-95.586431
WQ0014193001	CEDAR CREEK FOREST COMMUNITY HOME MOBILE WASTEWATER	0.035	73	30.009619	-95.576073
WQ0014091001	NORTHPARK BUSINESS CENTER WASTEWATER	0.0048	10	30.071882	-95.227187
WQ0014656001	SPRING TRAILS WASTEWATER	1.08	3,000	30.088674	-95.375905
WQ0011574001	SPRING CREEK WASTEWATER	2.1	5,833	30.110347	-95.405375
WQ0011580001	TOWN OF WOODLOCH WASTEWATER	0.15	313	30.218129	-95.410314
WQ0002502000	THE WOODLANDS PLANT, A SAND AND GRAVEL MINING FACILITY	0.35	416	30.162296	-95.378005
WQ0002642000	DR. D'TAIL CAR WASH, AN AUTOMATIC CAR WASH FACILITY WHICH OFFERS CAR WASHING, CLEANING, AND WAXING	0.003	3	30.068555	-95.224045
WQ0014886001	CYPRESSWOOD MHP WASTEWATER	0.01	17	30.016670	-95.329927

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0014923001	DISTRICT 249 BAR AND GRILL WASTEWATER	0.01	23	30.021448	-95.590717
WQ0014218001	CIRCLE LAKE RETREAT CENTER WASTEWATER	0.01	21	30.183841	-95.653358
WQ0010857001	MONTGOMERY COUNTY WCID NO. 1 WASTEWATER	0.95	2,639	30.108696	-95.489259
WQ0014542001	MAGNOLIA LAKES WASTEWATER	0.15	313	30.188850	-95.732363
WQ0014675001	BAUER WASTEWATER	0.9	2,500	30.045946	-95.778036
WQ0015090001	HOUSE HAHL WASTEWATER	0.049	138	29.959319	-95.712119
WQ0014032001	STABLE GATE WASTEWATER	0.2	556	30.003172	-95.665877
WQ0002365000	TENARIS CONROE FACILITY, A STEEL PIPE MANUFACTURING FACILITY	0.28		30.318842	-95.412459
WQ0015089001	MONTGOMERY COUNTY MUD NO. 139 WASTEWATER	0.51	1,417	30.268740	-95.519245
WQ0015139001	HARRIS COUNTY MUD 530 WASTEWATER	0.48	1,333	30.059067	-95.544159
WQ0015192001	GRANDE SAN JACINTO WASTEWATER	0.25	694	30.175018	-95.109591
WQ0010908001	HARRIS COUNTY WCID NO. 92 WASTEWATER	0.7	1,458	30.084538	-95.386694
WQ0010910001	NORTHAMPTON MUD WASTEWATER	1.85	5,139	30.115136	-95.510409
WQ0011900001	STRACK WASTEWATER	0.0017	4	30.006076	-95.511836
WQ0011912002	NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 10 WASTEWATER	1.5	3,125	29.980147	-95.677034
WQ0011913001	NORTHWEST FREEWAY MUD WASTEWATER	0.45	938	30.026774	-95.803489
WQ0012877001	HARRIS COUNTY MUD NO. 230 WASTEWATER	0.76	2,083	29.974569	-95.573377
WQ0012898001	BRUSHY CREEK WASTEWATER	0.075	181	30.099900	-95.789281
WQ0015261001	FOREST TRACE (AKA WILLIS WAUKEGAN) WASTEWATER	0.1	278	30.309605	-95.332371
WQ0015246001	SCRAP YARD SPORTS WASTEWATER	0.01	28	30.144514	-95.423425
WQ0015157001	MONTGOMERY COUNTY MUD NO. 137 WASTEWATER	0.3	833	30.147500	-95.588888
WQ0015158001	SPRING CREEK REGIONAL WASTEWATER	0.625	1,740	30.131391	-95.589167
WQ0015218001	HARRIS COUNTY MUD 531 WASTEWATER	0.24	667	30.021753	-95.730754
WQ0011630002	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT 1 WWTP 2 WASTEWATER	0.11	306	30.111194	-95.537092
WQ0014586001	MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT NO. 105 WASTEWATER	0.9	2,500	30.103597	-95.344318
WQ0014379001	EAST MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT NO. 3 WASTEWATER	0.6	1,667	30.176845	-95.251370
WQ0012470001	HARRIS COUNTY MUD NO. 221 WASTEWATER	1.8	3,750	30.001430	-95.403445
WQ0015288001	MONTGOMERY COUNTY MUD 96 WASTEWATER	0.4	1,111	30.071797	-95.261939
WQ0015298001	LILLIPUT WASTEWATER	0.049	136	30.172633	-95.193017
WQ0015312001	ROSEHILL RESERVE - HARRIS COUNTY MUD 542 WASTEWATER	0.3	833	30.066623	-95.714719
WQ0014421001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 401 WASTEWATER	0.45	1,250	30.074195	-95.570731
WQ0014434001	LAKES OF FAIRHAVEN WASTEWATER	0.24	667	30.026300	-95.758142
WQ0014441001	HARRIS COUNTY MUD NO. 389 WASTEWATER	0.3	833	29.999726	-95.662874
WQ0015341001	MSEC WASTEWATER	0.13	90	30.353570	-95.662288
WQ0015349001	PONDEROSA PINES WASTEWATER	0.075	208	30.329987	-95.290236
WQ0010955001	HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 116 WASTEWATER	1.3	2,778	30.000398	-95.526951

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0010962001	HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 113 WASTEWATER	0.3	833	29.955374	-95.640743
WQ0014327001	HARRIS COUNTY MUD NO. 391 WASTEWATER	0.95	2,292	29.989282	-95.719831
WQ0014347001	HARRIS COUNTY MUD NO. 387 WASTEWATER	3	8,333	30.139414	-95.499230
WQ0014908001	NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 19 WASTEWATER	0.9	2,500	30.113670	-95.544724
WQ0014476001	HARRIS COUNTY MUD NO. 418 WASTEWATER	7.5	20,833	29.959450	-95.718296
WQ0014482001	MONTGOMERY COUNTY MUD 83 WASTEWATER	0.4	1,111	30.071715	-95.263038
WQ0014491001	IS ZEN CENTER WASTEWATER	0.035	97	30.157447	-95.606462
WQ0010978001	RIVER PLANTATION MUD WASTEWATER	0.6	1,451	30.241895	-95.438611
WQ0005185000	GOODMAN PLANT, A RESIDENTIAL AND LIGHT COMMERCIAL HEATING AND COOLING SYSTEMS MANUFACTURING FACILITY	0.008	6	30.046005	-95.864779
WQ0014448001	HARRIS COUNTY MUD NO. 405 WASTEWATER	0.55	1,145	29.999070	-95.844794
WQ0014081001	TIMBERLAND WASTEWATER	0.45	938	30.136722	-95.257269
WQ0015317001	MAGNOLIA RESERVE WASTEWATER	0.0625	174	30.280376	-95.705239
WQ0012979004	NORTHGATE CROSSING MUD NO. 2 WASTEWATER	0.95	1,979	30.104294	-95.422882
WQ0013020001	HARRIS COUNTY MUD NO. 286 WASTEWATER	0.6	1,667	29.987419	-95.583657
WQ0015065001	EAST MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT 5 WASTEWATER	0.6	1,667	30.171590	-95.190801
WQ0014814001	WOODFOREST INTERIM WASTEWATER	0.945	2,625	30.267046	-95.548362
WQ0014106001	IMPERIAL VALLEY WASTEWATER	0.08	167	30.012155	-95.409601
WQ0014671001	MONTGOMERY COUNTY MUD 112 WASTEWATER	0.5	1,389	30.245286	-95.489824
WQ0015294001	PATTON VILLAGE WASTEWATER	0.35	972	30.193660	-95.183035
WQ0015381001	MEADOWS AT CYPRESS CREEK WASTEWATER	0.055	153	29.961197	-95.631347
WQ0011366001	CYPRESS KLEIN UTILITY DISTRICT WASTEWATER	0.7	1,458	30.009530	-95.505974
WQ0011386001	MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT NO. 16 WASTEWATER	0.177	335	30.197405	-95.165816
WQ0014114001	WHITE OAK RANCH WASTEWATER	0.6	1,667	30.359787	-95.545680
WQ0014116001	MONTGOMERY COUNTY MUD 24 WASTEWATER	0.39	1,083	30.101003	-95.184960
WQ0014124001	CEDRIC SMITH ELEMENTARY SCHOOL WASTEWATER	0.02	56	30.173610	-95.605656
WQ0014133001	RANCHCREST WASTEWATER	0.49	1,361	30.189928	-95.799994
WQ0014141001	OLD EGYPT WASTEWATER	0.675	1,406	30.212309	-95.566327
WQ0011215001	MEADOWHILL REGIONAL MUNICIPAL UTILITY DISTRICT WASTEWATER	2.4	6,666	30.071313	-95.471464
WQ0011020001	NEW WAVERLY WASTEWATER	0.088	183	30.528921	-95.472658
WQ0011020002	CITY OF NEW WAVERLY WASTEWATER	0.1	289	30.539606	-95.493960
WQ0011044001	MEMORIAL HILLS UTILITY DISTRICT WASTEWATER	0.5	1,389	30.033219	-95.395863
WQ0014523001	MONTGOMERY COUNTY MUD NO. 88 WASTEWATER	0.3	833	30.126987	-95.372491
WQ0014531001	CREEKSIDE VILLAGE WASTEWATER	0.6	1,250	30.130401	-95.378595
WQ0015061001	BELLA VISTA WASTEWATER	0.48	1,333	30.251582	-95.058719
WQ0014604001	MONTGOMERY COUNTY MUD NO. 99 WASTEWATER	1.5	4,167	30.152546	-95.395985
WQ0011081001	PONDEROSA JOINT POWERS AGENCY REGIONAL WASTEWATER	4.87	12,660	30.028993	-95.466625

TPDES NO.	DISCHARGING ENTITY	PERMITTED DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0011084001	LAKE FOREST REGIONAL WASTEWATER	2.76	9,583	29.987782	-95.578514
WQ0014536001	MARE BRANCH WASTEWATER	0.05	139	30.198687	-95.202721
WQ0011089001	PRESTONWOOD FOREST UD WASTEWATER	0.95	2,639	29.985703	-95.561470
WQ0011097001	PANORAMA VILLAGE WASTEWATER	0.4	833	30.369593	-95.496227
WQ0011105001	BAMMEL UTILITY DISTRICT WASTEWATER	2	5,556	30.011477	-95.498729
WQ0011142002	TIMBER LANE UTILITY DISTRICT WASTEWATER	2.62	7,278	30.040024	-95.387594
WQ0011143002	SPLENDORA HIGH SCHOOL WASTEWATER	0.04	111	30.249461	-95.200566
WQ0010530001	HARRIS COUNTY WCID NO. 70 WASTEWATER	0.275	764	29.947769	-95.121315
WQ0002475000	DRILLING SPECIALTIES ALAMO PLANT	0.016	14	30.314684	-95.390692
WQ0014576001	HARRIS COUNTY MUD NO. 434 WASTEWATER	0.4	1,111	29.995985	-95.783754
WQ0014166001	WOODLAND OAKS WASTEWATER	0.498	1,383	30.253679	-95.578956
WQ0014172001	SPRING CYPRESS SHOPPING CENTER WASTEWATER	0.27	750	29.973835	-95.688108
WQ0011267001	TIMBERLAKE IMPROVEMENT DISTRICT WASTEWATER	0.5	1,389	29.962703	-95.619479
WQ0010766001	WEST WASTEWATER	0.75	1,260	30.334261	-95.101972
WQ0010766002	EAST WASTEWATER	0.95	2,430	30.333709	-95.052310
WQ0010783001	INVERNESS FOREST IMPROVEMENT DISTRICT WASTEWATER	0.5	1,040	30.034382	-95.403364
WQ0014597001	VALLEY RANCH WASTEWATER	0.6	1,250	30.126362	-95.245148
WQ0015313001	MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT NO. 127 WASTEWATER	0.6	1,667	30.137315	-95.372877
WQ0014354001	HARRIS COUNTY MUD 374 WASTEWATER	0.65	1,806	29.944543	-95.698834
WQ0011141001	TRESCHWIG CENTRAL WASTEWATER	2	4,608	30.034719	-95.361719
WQ0011988001	HARRIS COUNTY MUD NO. 24 WASTEWATER	2	4,167	30.030582	-95.534206
WQ0015098001	GRANT ROAD PUD WASTEWATER	0.45	1,563	29.987716	-95.627995
WQ0011824003	NORTHWEST HARRIS COUNTY MUD NO. 5 WASTEWATER	0.8	1,667	29.990159	-95.644489
WQ0011835001	BRIDGESTONE MUD WASTEWATER	2.5	6,945	30.058566	-95.485942
WQ0011824002	NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 5 WASTEWATER	2.5	6,944	30.022477	-95.648602
WQ0012025002	BILMA PUD WASTEWATER	0.74	2,082	30.038094	-95.505690
WQ0012044001	HARRIS COUNTY MUD 368 WASTEWATER	1.6	4,444	30.051068	-95.596747
WQ0011925001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 104 WASTEWATER	0.6	1,458	30.046152	-95.449393
WQ0013573001	NORTHWEST HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 36 WASTEWATER	0.5	1,389	30.050277	-95.470850
WQ0011409001	KLEINWOOD CENTRAL WASTEWATER	5	10,472	30.002332	-95.523942
WQ0011314001	CANDLELIGHT HILLS WASTEWATER	0.4	833	30.037744	-95.451644
WQ0011024001	HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 119 WASTEWATER	0.995	2,778	30.025498	-95.553831
WQ0011239001	CNP UTILITY DISTRICT WASTEWATER	2.5	5,208	30.034151	-95.438332

**Table 2: Additional Requested Return Flow Discharges**

TPDES NO.	DISCHARGING ENTITY	DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0014936001	CYPRESS CREEK WASTEWATER	0.28	778	29.958334	-95.687189
WQ0015644001	HARRIS COUNTY MUD NO. 547 WASTEWATER	0.7	1,946	30.053479	-95.758435
WQ0015646001	SANTA FE WASTEWATER	0.975	2,708	30.156788	-95.080351
WQ0015815001	DEER TRAIL WATER DISTRICT WASTEWATER	0.112	311	30.362453	-95.394492
WQ0014624001	TERRA VERDE WASTEWATER	0.1	278	30.085876	-95.841847
WQ0014799001	ALEXANDER TRACT WASTEWATER	1.2	3,333	30.008113	-95.826244
WQ0014828001	HOT WELLS WASTEWATER	0.05	139	29.953863	-95.678061
WQ0014989001	MONTGOMERY COUNTY MUD 125 WASTEWATER	0.96	2,667	30.260760	-95.721501
WQ0014305001	SKYE RANCH WASTEWATER	0.24	667	30.257938	-95.644398
WQ0014592001	COLONY AT PINEHURST WASTEWATER	0.32	667	30.168680	-95.686161
WQ0013653001	J. L. LYONS ELEMENTARY SCHOOL WASTEWATER	0.015	31	30.140105	-95.753002
WQ0000575000	HUNTSMAN CONROE PLANT (A PETROCHEMICAL MANUFACTURING PLANT)	0.75	1,388	30.309510	-95.382490
WQ0014924001	SENGER LAKE VILLAGES WASTEWATER	0.32	667	30.039722	-95.421970
WQ0015041001	MAGNOLIA WOODS MUNICIPAL UTILITY DISTRICT NO. 1 WASTEWATER	0.96	2,667	30.249924	-95.754298
WQ0012456002	CRANE CO. WASTEWATER	0.005	7	30.317719	-95.616097
WQ0015745001	HARRIS COUNTY MUD 566 WASTEWATER	0.99	2,750	30.003379	-95.801002
WQ0015746001	LONE OAK WASTEWATER	0.3	833	30.021024	-95.341205
WQ0015742001	OAKMONT RESERVE WASTEWATER	0.495	1,375	30.221773	-95.241871
WQ0014862001	RAYFORD CROSSING WASTEWATER	0.022	61	30.109002	-95.414126
WQ0015244001	BETHESDA LUTHERAN WASTEWATER	0.022	61	30.021182	-95.716966
WQ0013690002	MOOREHEAD JR. HIGH SCHOOL WASTEWATER	0.1	416	30.259421	-95.302338
WQ0005111000	TENASKA ROAN'S PRAIRIE GENERATING STATION	0.105	104	30.583980	-95.921771
WQ0015765001	MCNABB UTILITIES WASTEWATER	0.085	236	30.052175	-95.420014
WQ0015231001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 319 WASTEWATER	0.5	1,389	30.027005	-95.798932
WQ0015284001	MERENCO WASTEWATER	0.6	1,667	30.070109	-95.642952
WQ0015296001	LOST CREEK WASTEWATER	0.25	694	30.351038	-95.373177
WQ0015297001	GOSLING OFFICE PARK WASTEWATER	0.0075	21	30.136418	-95.505026
WQ0015578001	CYPRESS PLAZA WASTEWATER	0.012	33	29.975259	-95.644100
WQ0014414001	WOODLAND LAKE VILLAGE WASTEWATER	0.45	1,235	30.198244	-95.433455
WQ0015343001	THE WOODLANDS ACADEMY PREPARATORY SCHOOL WASTEWATER	0.24	667	30.156389	-95.545001
WQ0013711002	SPRING CYPRESS WASTEWATER	0.035	94	30.076662	-95.433060
WQ0011404002	DOWDELL PUBLIC UTILITY DISTRICT WASTEWATER	0.9	2,500	30.079141	-95.541480
WQ0015283001	BLAKETREE MUD NO. 1 WASTEWATER	0.2	556	30.304878	-95.772019
WQ0015336001	TELGE AND JARVIS WASTEWATER	0.3125	868	29.955435	-95.653669
WQ0015436001	SPRING CREEK VILLAGE MOBILE HOME COMMUNITY WASTEWATER	0.015	42	30.079301	-95.891700
WQ0015432001	HARRIS COUNTY MUD 525 WASTEWATER	0.195	542	29.953611	-95.120555
WQ0015454001	SAM HOUSTON AREA COUNCIL BOY SCOUTS OF AMERICA WASTEWATER	0.048	133	30.610278	-95.258889
WQ0015460001	TEXAS PROVIDENCE WASTEWATER	0.008	22	29.963477	-95.631612

TPDES NO.	DISCHARGING ENTITY	DISCHARGE VOLUME (MGD)	MAX DISCHARGE (GPM)	DISCHARGE LAT	DISCHARGE LONG
WQ0015452001	CAMINO REAL WASTEWATER	0.75	2,083	30.197505	-95.087361
WQ0015483001	290 KICKAPOO WASTEWATER	0.045	125	30.043050	-95.877742
WQ0015490001	HARRIS COUNTY IMPROVEMENT DISTRICT 13 WASTEWATER	0.6	1,667	29.971214	-95.727305
WQ0015500001	MIKE EMMONS DEVELOPMENT WASTEWATER	0.0095	28	30.115650	-95.776272
WQ0015472001	GRAND PINE SUBDIVISION WASTEWATER	2.1	5,833	30.121800	-95.312816
WQ0015537001	GRAND NORTHWEST MUNICIPAL UTILITY DISTRICT WASTEWATER	0.5	1,389	30.004884	-95.787282
WQ0015440001	PLUM CREEK FWSD NO. 1 WASTEWATER	0.8	2,222	30.160277	-95.099134
WQ0015581001	SHEPHERD TRAVEL CENTER WASTEWATER	0.0205	57	30.444152	-95.031114
WQ0014700001	FAIR OAKS WASTEWATER	0.7	1,944	30.254672	-95.607723
WQ0015596001	NORTHWEST WASTEWATER	0.65	1,806	29.972367	-95.782199
WQ0015616001	MONTGOMERY COUNTY MUD NO. 111 WASTEWATER	1.35	3,750	30.206070	-95.342246
WQ0015557002	MONTERREY OAKS WASTEWATER	0.1	278	30.286495	-95.157711
WQ0015145002	EAST MONTGOMERY COUNTY MUD 10 WASTEWATER	0.6	1,667	30.244402	-95.195376
WQ0015685001	GRANGER PINES WASTEWATER	0.4	1,111	30.236848	-95.321599
WQ0015689001	CROCKETT MARTIN ESTATES MHC WASTEWATER	0.025	69	30.287908	-95.314800
WQ0015683001	FRIENDSWOOD DEVELOPMENT WASTEWATER	0.99	2,500	30.044156	-95.793334
WQ0015691001	CYPRESS ROSEHILL WASTEWATER	0.35	972	30.049954	-95.711206
WQ0015794001	MONTGOMERY COUNTY MUD 144 WASTEWATER	0.3	833	30.262183	-95.504047
WQ0015783001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 43 WASTEWATER	0.21	583	30.053586	-95.364309
WQ0015851001	SPLENDORA WASTEWATER	0.9	2,500	30.226021	-95.221848
WQ0015795001	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 441 WASTEWATER	0.6	1,667	30.045540	-95.738477
WQ0015800001	MILL CREEK WASTEWATER	0.75	2,083	30.149403	-95.619148
WQ0015819001	HONEA WASTEWATER	0.06	174	30.318622	-95.622233
WQ0015830001	LOS PINOS WASTEWATER	0.36	1,000	30.118234	-95.091200
WQ0015779001	270 AC INDUSTRIAL PARK WASTEWATER	0.3	833	30.025794	-95.765400
WQ0015834001	BLACK BRANCH WASTEWATER	0.35	972	30.144751	-95.330871
WQ0015829001	WOODHAVEN WASTEWATER	0.45	1,250	30.194623	-95.820550

# 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 REQUIRED 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 contact the Water Availability Division at (512) 239-4600 or [WRPT@tceq.texas.gov](mailto:WRPT@tceq.texas.gov) to schedule a meeting.**

Date of pre-application meeting: February 17, 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<sup>Y</sup> \_\_\_\_\_
- 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<sup>N</sup> \_\_\_\_\_ (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<sup>N</sup> \_\_\_\_\_*

- c. Applicant requests to extend an existing Term authorization or to make the right permanent? Y / N<sup>N</sup> \_\_\_\_\_ (If yes, indicate the Term Certificate or Permit number: \_\_\_\_\_)

*If Applicant answered yes to (a), (b) or (c), the following worksheets and documents are required:*

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

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

**Additional Documents and Worksheets may be required (see within).**

## 2. Amendments to Water Rights. TWC § 11.122 (Instructions, Page. 12)

This section should be completed if Applicant owns an existing water right and Applicant requests to amend the water right. ***If Applicant is not currently the Owner of Record in the TCEQ Records, Applicant must submit a Change of Ownership Application (TCEQ-10204) prior to submitting the amendment Application or provide consent from the current owner to make the requested amendment. If the application does not contain consent from the current owner to make the requested amendment, TCEQ will not begin processing the amendment application until the Change of Ownership has been completed and will consider the Received Date for the application to be the date the Change of Ownership is completed. See instructions page. 6.***

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

Applicant requests to sever and combine existing water rights from one or more Permits or Certificates into another Permit or Certificate? Y / N<sup>N</sup>\_\_\_\_\_ (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<sup>N</sup>\_\_\_\_\_

*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<sup>N</sup>\_\_\_\_\_

*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<sup>N</sup>\_\_\_\_\_
- 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<sup>N</sup>\_\_\_\_\_
- If yes, submit:*

- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach)
- **Worksheet 5.0 – Environmental Information** (Required for any new diversion points that are not already authorized in a water right)

- e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? Y / N<sup>N</sup>\_\_\_\_\_

*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<sup>N</sup>\_\_\_\_\_ *If yes, call the Water Availability Division at (512) 239-4600 to discuss.*

**Additionally, all amendments require:**

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

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

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

*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<sup>N</sup>\_\_\_\_\_

*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<sup>N</sup>\_\_\_\_\_

*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<sup>N</sup>\_\_\_\_\_

*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<sup>Y</sup>\_\_\_\_\_

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

*Worksheets and information:*

- **Worksheet 1.0 – Quantity, Purpose, and Place of Use Information Worksheet**
- **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir owned by the applicant through which water will be conveyed or diverted)
- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for the downstream limit of each diversion reach for the proposed conveyances)

- **Worksheet 4.0 – Discharge Information Worksheet** (for each discharge point)
- **Worksheet 5.0 – Environmental Information Worksheet**
- **Worksheet 6.0 – Water Conservation Information Worksheet**
- **Worksheet 7.0 – Accounting Plan Information Worksheet**
- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page. 34**
- **Maps – See instructions Page. 15.**
- **Additional Documents and Worksheets may be required (see within).**

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

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

The application is consistent with the Region H 2021 Regional Water Plan. San Jacinto Reuse is an approved water management strategy in the plan. This application and proposed permit "aims to capture, on a firm yield basis, return flows associated with unpermitted wastewater discharges and future growth in the San Jacinto River Basin above Lake Houston." See Region H 2021 Regional Water Plan, Appendix 5-B-REUSE-006-2.

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

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

- c. Does the application include required Maps? (Instructions Page. 15) Y / N Y

# WORKSHEET 1.0

## Quantity, Purpose and Place of Use

### 1. New Authorizations (Instructions, Page. 16)

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

Quantity (acre-foot) <i>(Include losses for Bed and Banks)</i>	State Water Source (River Basin) or Alternate Source <i>*each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0</i>	Purpose(s) of Use	Place(s) of Use <i>*requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer</i>
204,625	New Appropriation based on return flows	Municipal and Industrial	<small>Harris, Montgomery, Fort Bend, Galveston, Chambers, and Brazoria Counties, San Jacinto, San Jacinto-Brazos Coastal, Trinity-San Jacinto Coastal and Trinity Basins.</small>

204,625 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: N/A

a. Location Information Regarding the Lands to be Irrigated

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

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

***A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.***

***If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.***

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

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

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

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

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

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

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

- b. For any request which adds Agricultural purpose of use or changes the place of use for Agricultural rights, provide the following location information regarding the lands to be irrigated:
- i. Applicant proposes to irrigate a total of \_\_\_\_\_ acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of \_\_\_\_\_ acres in \_\_\_\_\_ County, TX.
  - ii. Location of land to be irrigated: In the \_\_\_\_\_ Original Survey No. \_\_\_\_\_, Abstract No. \_\_\_\_\_.

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

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

- c. Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.
- d. See Worksheet 1.2, Marshall Criteria, and submit if required.
- e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

**WORKSHEET 1.1**  
**INTERBASIN TRANSFERS, TWC § 11.085**

N/A

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

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

**1. Interbasin Transfer Request (Instructions, Page. 20)**

- a. Provide the Basin of Origin. \_\_\_\_\_
- b. Provide the quantity of water to be transferred (acre-feet). \_\_\_\_\_
- c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:  
\_\_\_\_\_

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

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

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

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

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

- a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
- b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
- c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example - expert plans and/or reports documents may be provided to show the cost);

- d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (<http://www.twdb.texas.gov/waterplanning/swp/index.asp>);
- e. address the factors identified in the applicable most recently approved regional water plans which address the following:
  - (i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
  - (ii) the amount and purposes of use in the receiving basin for which water is needed;
  - (iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;
  - (iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;
  - (v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and
  - (vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (*if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;
- f. proposed mitigation or compensation, if any, to the basin of origin by the applicant; and
- g. the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

## WORKSHEET 1.2

### NOTICE. "THE MARSHALL CRITERIA"

N/A

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

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

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

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

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

- a. Administrative Requirements and Fees. Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.
- b. Beneficial Use. Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.
- c. Public Welfare. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.
- d. Groundwater Effects. Discuss effects of proposed amendment on groundwater or groundwater recharge.

- e. State Water Plan. Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at:  
<http://www.twdb.texas.gov/waterplanning/swp/index.asp>.
- f. Waste Avoidance. Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.
- g. Impacts on Water Rights or On-stream Environment. Explain how the proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

# WORKSHEET 2.0

## Impoundment/Dam Information

N/A

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)
  - i. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4600? Y / N \_\_\_\_\_
  - ii. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? Y / N \_\_\_\_\_
- 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) 239-4600).

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

- a. On Watercourse (if on-channel) (USGS name):\_\_\_\_\_
- b. Zip Code: \_\_\_\_\_
- c. In the \_\_\_\_\_ Original Survey No. \_\_\_\_\_, Abstract No. \_\_\_\_\_, \_\_\_\_\_ County, Texas.

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

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

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

Latitude \_\_\_\_\_°N, Longitude \_\_\_\_\_°W.

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

- i. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program):\_\_\_\_\_
- ii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. Y / N\_\_\_\_\_

## WORKSHEET 3.0 DIVERSION POINT (OR DIVERSION REACH) INFORMATION

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

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

### 1. Diversion Information (Instructions, Page. 24)

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

1.   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** <sup>886.8</sup>\_\_\_\_\_ cfs (cubic feet per second)  
or <sup>398,034</sup>\_\_\_\_\_ gpm (gallons per minute)

c. Does this point share a diversion rate with other points? Y / N <sup>N</sup>\_\_\_\_\_   
*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 <sup>N/A</sup>\_\_\_\_\_

*\*\* An increase in diversion rate is considered a new appropriation and would require completion of Section 1, New or Additional Appropriation of State Water.*

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

Check one		Write: Existing or Proposed
<input type="checkbox"/>	Directly from stream	
<input checked="" type="checkbox"/>	From an on-channel reservoir	Existing
<input type="checkbox"/>	From a stream to an on-channel reservoir	
<input type="checkbox"/>	Other method (explain fully, use additional sheets if necessary)	

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

Applicant has calculated the drainage area. Y / N <sup>N</sup>\_\_\_\_\_

If yes, the drainage area is \_\_\_\_\_ sq. miles.

*(If assistance is needed, call the Surface Water Availability Team at (512) 239-4600, prior to submitting application)*

## 2. Diversion Location (Instructions, Page 25)

- a. On watercourse (USGS name): Lake Houston
- b. Zip Code: 77044
- c. Location of point: In the Blanco, V Original Survey No. \_\_\_\_\_, Abstract No. 2012, Harris 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 29.920299 °N, Longitude 95.183114 °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): GIS
- f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 15.
- 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 of reuse water from the perimeter of Lake Houston.

# WORKSHEET 4.0 DISCHARGE INFORMATION

Please See Worksheet  
4 Addendum

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\_\_\_\_\_(% or amount) and explain the method of calculation:\_\_\_\_\_
- c. 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, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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)\_\_\_\_\_.
- d. 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. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers\_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N\_\_\_\_\_ If yes, provide the signed contract(s).
- dii. Identify any other source of the water\_\_\_\_\_

## WORKSHEET 4.1 DISCHARGE POINT INFORMATION

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

**For water discharged at this location provide:**

- a. The amount of water that will be discharged at this point is \_\_\_\_\_ acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.
- b. Water will be discharged at this point at a maximum rate of \_\_\_\_\_ cfs or \_\_\_\_\_ gpm.
- c. Name of Watercourse as shown on Official USGS maps: \_\_\_\_\_
- d. Zip Code \_\_\_\_\_
- e. Location of point: In the \_\_\_\_\_ Original Survey No. \_\_\_\_\_, Abstract No. \_\_\_\_\_, \_\_\_\_\_ County, Texas.
- f. Point is at:  
Latitude \_\_\_\_\_ °N, Longitude \_\_\_\_\_ °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. 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

### 1. Impingement and Entrainment

This section is required for any new diversion point that is not already authorized. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on any new diversion structure that is not already authorized in a water right). **Instructions, Page 28.**

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

This section is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins and in all basins for requests to change a diversion point. **Instructions, Page 30.**

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

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

### 3. Alternate Sources of Water and/or Bed and Banks Applications

This section is required for applications using an alternate source of water and bed and banks applications in any basins. **Instructions, page 31.**

- a. For all bed and banks applications:
  - i. Submit an assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

b. For all alternate source applications:

- i. If the alternate source is treated return flows, provide the TPDES permit number \_\_\_\_\_  
Please See Worksheet 5 Addendum
- ii. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide:  
Reasonably current water chemistry information including but not limited to the following parameters in the table below. Additional parameters may be requested if there is a specific water quality concern associated with the aquifer from which water is withdrawn. If data for onsite wells are unavailable; historical data collected from similar sized wells drawing water from the same aquifer may be provided. However, onsite data may still be required when it becomes available. Provide the well number or well identifier. Complete the information below for each well and provide the Well Number or identifier.

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

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

- iii. If groundwater will be used, provide the depth of the well \_\_\_\_\_ 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 512-239-4600, or e-mail [wras@tceq.texas.gov](mailto: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 Y

## 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. X Municipal Uses by public water suppliers. See 30 TAC § 288.20.
  2. X 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 Y

# 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 512-239-4600 for information about accounting plan requirements, if any, for your application. **Instructions, Page 34.**

### 1. Is Accounting Plan Required

Accounting Plans are generally required:

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

### 2. Accounting Plan Requirements

- a. A **text file** that includes:
  1. an introduction explaining the water rights and what they authorize;
  2. an explanation of the fields in the accounting plan spreadsheet including how they are calculated and the source of the data;
  3. for accounting plans that include multiple priority dates and authorizations, a section that discusses how water is accounted for by priority date and which water is subject to a priority call by whom; and
  4. Should provide a summary of all sources of water.
- b. A **spreadsheet** that includes:
  1. Basic daily data such as diversions, deliveries, compliance with any instream flow requirements, return flows discharged and diverted and reservoir content;
  2. Method for accounting for inflows if needed;
  3. Reporting of all water use from all authorizations, both existing and proposed;
  4. An accounting for all sources of water;
  5. An accounting of water by priority date;
  6. For bed and banks applications, the accounting plan must track the discharged water from the point of delivery to the final point of diversion;
  7. Accounting for conveyance losses;
  8. Evaporation losses if the water will be stored in or transported through a reservoir. Include changes in evaporation losses and a method for measuring reservoir content resulting from the discharge of additional water into the reservoir;
  9. An accounting for spills of other water added to the reservoir; and
  10. Calculation of the amount of drawdown resulting from diversion by junior rights or diversions of other water discharged into and then stored in the reservoir.



## Addendum Worksheet 4 Discharge Information.

The following are the Discharge information sheets for each of the requested return flow discharges.

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015689001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 28 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 0.154 cfs or 69 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77306
- e. Location of point: In the LITTLEFIELD, H B Original Survey No. \_\_\_\_\_, Abstract No. 236, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.28790808 °N, Longitude -95.31479957 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015691001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 392 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 2.166 cfs or 972 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIV
- d. Zip Code 77377
- e. Location of point: In the JUERGEN, C Original Survey No. \_\_\_\_\_, Abstract No. 178, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.04995385 °N, Longitude -95.71120636 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015742001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 554 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 3.064 cfs or 1375 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A POLISHING POND, THENCE TO AN UNNAMED TRIBUTARY, THENCE TO SPRING BRANCH, TH
- d. Zip Code 77306
- e. Location of point: In the PRUETT, B Original Survey No. \_\_\_\_\_, Abstract No. 533, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.22177349 °N, Longitude -95.24187132 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015745001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1109 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 6.127 cfs or 2750 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DETENTION POND, THENCE TO A HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH, THE
- d. Zip Code 77447
- e. Location of point: In the WALTON, R Original Survey No. \_\_\_\_\_, Abstract No. 283, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00337939 °N, Longitude -95.80100229 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015746001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY (HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K107-00), T
- d. Zip Code 77338
- e. Location of point: In the BARBER, A Original Survey No. \_\_\_\_\_, Abstract No. 90, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02102413 °N, Longitude -95.34120479 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015765001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_? Presumed surface water unknown water right
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 95 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 0.526 cfs or 236 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LEMM GULLY, THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVE
- d. Zip Code 77373
- e. Location of point: In the LEMM, W Original Survey No. \_\_\_\_\_, Abstract No. 80, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.05217504 °N, Longitude -95.42001382 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015779001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK, THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77433
- e. Location of point: In the DEDRICK, G Original Survey No. \_\_\_\_\_, Abstract No. 248, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02579391 °N, Longitude -95.76539963 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015783001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 235 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 1.299 cfs or 583 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH (K112-00-00), THENCE TO WILD C
- d. Zip Code 77373
- e. Location of point: In the MAYS, A Original Survey No. \_\_\_\_\_, Abstract No. 65, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.05358579 °N, Longitude -95.36430913 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015794001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE CHANNEL, THENCE TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACINTO
- d. Zip Code 77384
- e. Location of point: In the HODGE, J Original Survey No. \_\_\_\_\_, Abstract No. 661, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.26218297 °N, Longitude -95.50404722 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015795001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO AN UNNAMED TRIBUTARY (2), THENCE TO LITTLE CYP
- d. Zip Code 77377
- e. Location of point: In the HAIG, G Original Survey No. \_\_\_\_\_, Abstract No. 277, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.04554022 °N, Longitude -95.73847689 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ001580001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 840 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 4.641 cfs or 2083 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO NEEDSK LAKE, THENCE TO MILL CREEK, THENCE TO SPRING CREEK IN SEGMENT NO. 1008 O
- d. Zip Code 77354
- e. Location of point: In the MILLER, J Original Survey No. \_\_\_\_\_, Abstract No. 731, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14940285 °N, Longitude -95.61914766 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015815001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 125 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 0.693 cfs or 311 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DITCH, THENCE TO AN UNNAMED TRIBUTARY, THENCE TO EAST FORK CRYSTAL CREEK, TH
- d. Zip Code 77303
- e. Location of point: In the PITTS, J C Original Survey No. \_\_\_\_\_, Abstract No. 137, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.36245272 °N, Longitude -95.39449172 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015819001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 67 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 0.388 cfs or 174 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO MOUND CREEK, THENCE TO LAKE CREEK IN SEGMENT
- d. Zip Code 77316
- e. Location of point: In the DUTCHER, A Original Survey No. \_\_\_\_\_, Abstract No. 373, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.31862186 °N, Longitude -95.62223321 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015829001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.785 cfs or 1250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BIRCH CREEK, THENCE TO WALNUT CREEK, THENCE TO SPRING CREEK IN SEGMENT NO. 101
- d. Zip Code 77355
- e. Location of point: In the HILLHOUSE, W Original Survey No. \_\_\_\_\_, Abstract No. 27, WALLER County, Texas.
- f. Point is at:  
Latitude 30.1946231 °N, Longitude -95.82054977 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015830001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_? Presumed surface water unknown water right
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 403 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 2.228 cfs or 1000 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH, THENCE TOKEY GULLY, THENCE TO LUCE BAYOU, THENCE TO LAKE HOI
- d. Zip Code 77336
- e. Location of point: In the MAGRUDER, M Original Survey No. \_\_\_\_\_, Abstract No. 5, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.11823355 °N, Longitude -95.09119959 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015834001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
    1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
    2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
    3. Indicate how the groundwater will be conveyed to the stream or reservoir.
    4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
  - di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
  - dii. 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 392 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 2.166 cfs or 972 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BLACK BRANCH; THENCE TO A ROADSIDE DITCH; THENCE TO THE WEST FORK SAN JACINTO
- d. Zip Code 77365
- e. Location of point: In the ANDERSON, W Original Survey No. \_\_\_\_\_, Abstract No. 604, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14475056 °N, Longitude -95.33087125 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015851001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE DITCH; THENCE TO WATERHOLE BRANCH; THENCE TO PEACH CREEK
- d. Zip Code 77372
- e. Location of point: In the SCH COMM WALKER CO Original Survey No. \_\_\_\_\_, Abstract No. 520, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.2260212 °N, Longitude -95.2218484 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0000575000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 840 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 3.092 cfs or 1388 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VA OUTFALL 001 TO A DITCH, THENCE TO WEST FORK CRYSTAL CREEK, THENCE TO CRYSTAL C
- d. Zip Code 77306
- e. Location of point: In the COLLINS, D W Original Survey No. \_\_\_\_\_, Abstract No. 210, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.30950986 °N, Longitude -95.38249046 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011143002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 45 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 0.247 cfs or 111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO GULLY BRANCH; TH
- d. Zip Code 77372
- e. Location of point: In the SCH COMM WALKER CO Original Survey No. \_\_\_\_\_, Abstract No. 520, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.24946055 °N, Longitude -95.20056636 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0002365000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 314 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: VIA AN UNNAMED DITCH; THENCE TO AN UNNAMED TRIBUTARY OF LITTLE CANEY CREEK; THEN
- d. Zip Code 77301
- e. Location of point: In the SMITH, J G Original Survey No. \_\_\_\_\_, Abstract No. 198, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.31884196 °N, Longitude -95.41245902 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0002475000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 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 0.031 cfs or 13.88 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA OUTFALLS 001 AND 002 TO A DRAINAGE DITCH; THENCE TO WEST FORK CRYSTAL CREEK; T1
- d. Zip Code 77301
- e. Location of point: In the BURNES, L Original Survey No. \_\_\_\_\_, Abstract No. 204, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.31468426 °N, Longitude -95.39069158 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0002502000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 392 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 0.928 cfs or 416.4 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT NO. 10C
- d. Zip Code 77385
- e. Location of point: In the OWENS, J Original Survey No. \_\_\_\_\_, Abstract No. 576, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.16229573 °N, Longitude -95.37800515 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0002642000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 3 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 0.008 cfs or 3.47 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA OUTFALL 001 TO AN UNNAMED DRAINAGE DITCH; THENCE TO HARRIS COUNTY FLOOD CONT
- d. Zip Code 77339
- e. Location of point: In the HT&B RR CO Original Survey No. \_\_\_\_\_, Abstract No. 518, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.06855478 °N, Longitude -95.22404491 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0004249000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 941 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 2.737 cfs or 1228.38 gpm.
- c. Name of Watercourse as shown on Official USGS maps: AN UNNAMED DITCH; THENCE TO SHEPHERD CREEK; THENCE TO WINTERS BAYOU; THENCE TO
- d. Zip Code 77340
- e. Location of point: In the TINSLEY, J Original Survey No. \_\_\_\_\_, Abstract No. 537, WALKER County, Texas.
- f. Point is at:  
Latitude 30.68113508 °N, Longitude -95.49546191 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0004879000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 168 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 0.348 cfs or 156.15 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO ROCK HOLLOW; THENCE TO WARREN LAKE; THENCE TO R
- d. Zip Code 77447
- e. Location of point: In the GREEN, E R Original Survey No. \_\_\_\_\_, Abstract No. 251, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.01992995 °N, Longitude -95.86526291 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0005111000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. Identify any other source of the water \_\_\_\_\_



## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0005185000 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 9 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 0.012 cfs or 5.552 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH; THENCE TO A DETENTION POND; THENCE TO AN UNNAMED DITCH; THEN \_\_\_\_\_
- d. Zip Code 77484
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 281, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0460047 °N, Longitude -95.86477933 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010310001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1008 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 4.875 cfs or 2188 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO MOUND CREEK; THENCE TO CYPRESS CREEK IN SEGI
- d. Zip Code 77484
- e. Location of point: In the WOODWARD, J Original Survey No. \_\_\_\_\_, Abstract No. 127, WALLER County, Texas.
- f. Point is at:  
Latitude 30.04852 °N, Longitude -95.924032 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010315001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1109 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 6.127 cfs or 2750 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO EAST FORK CRYSTAL CREEK; THENCE TO CRYSTAL CREEK; THENCE TO WEST FORK SAN JAI
- d. Zip Code 77378
- e. Location of point: In the HENDERSON, F K Original Survey No. \_\_\_\_\_, Abstract No. 341, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.397936 °N, Longitude -95.476856 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010530001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 308 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 1.702 cfs or 764 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO GUM GULLY; THENCE \_\_\_\_\_
- d. Zip Code 77532
- e. Location of point: In the WHITLOCK, W Original Survey No. \_\_\_\_\_, Abstract No. 339, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.94776926 °N, Longitude -95.12131527 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0010616001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1680 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 6.963 cfs or 3125 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH J231-00-00; THENCE TO BOGS
- d. Zip Code 77375
- e. Location of point: In the HUBBARD, R Original Survey No. \_\_\_\_\_, Abstract No. 118, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.112014 °N, Longitude -95.608878 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0010616002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1680 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 9.282 cfs or 4166 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH M121-00-00; THENCE TO WILLOW CREEK;
- d. Zip Code 77375
- e. Location of point: In the PILLOT, C N Original Survey No. \_\_\_\_\_, Abstract No. 138, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.06640081 °N, Longitude -95.60888245 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0010766001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 840 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 2.807 cfs or 1260 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO EAST FORK SAN JACINTO RIVER IN SEGMENT NO. 1003 OF THE SAN JACINTO RIVE
- d. Zip Code 77327
- e. Location of point: In the BREEDING, J Original Survey No. \_\_\_\_\_, Abstract No. 121, LIBERTY County, Texas.
- f. Point is at:  
Latitude 30.3342611 °N, Longitude -95.10197224 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0010766002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1064 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 5.414 cfs or 2430 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO TARKINGTON BAYOU; THENCE TO LUCE BAYOU; THEN
- d. Zip Code 77327
- e. Location of point: In the MC COY, J Original Survey No. \_\_\_\_\_, Abstract No. 57, LIBERTY County, Texas.
- f. Point is at:  
Latitude 30.333709 °N, Longitude -95.05231 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010783001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 560 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 2.317 cfs or 1040 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77373
- e. Location of point: In the BARROW, B JR Original Survey No. \_\_\_\_\_, Abstract No. 88, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.034382 °N, Longitude -95.403364 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010857001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1064 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 5.88 cfs or 2639 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77380
- e. Location of point: In the COOPER, J Original Survey No. \_\_\_\_\_, Abstract No. 82, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.108696 °N, Longitude -95.489259 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010908001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 784 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 3.248 cfs or 1458 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77373
- e. Location of point: In the DECROW, H Original Survey No. \_\_\_\_\_, Abstract No. 52, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.084538 °N, Longitude -95.386694 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0010910001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2072 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 11.45 cfs or 5139 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIV
- d. Zip Code 77389
- e. Location of point: In the GOSLING, L Original Survey No. \_\_\_\_\_, Abstract No. 114, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.11513618 °N, Longitude -95.51040913 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010955001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1456 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 6.189 cfs or 2778 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77069
- e. Location of point: In the PAGE, B Original Survey No. \_\_\_\_\_, Abstract No. 498, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00039845 °N, Longitude -95.52695149 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010962001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K146-00-00; THENCE TO CYPRESS CREEK
- d. Zip Code 77429
- e. Location of point: In the BURNETT, A Original Survey No. \_\_\_\_\_, Abstract No. 912, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.955374 °N, Longitude -95.640743 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0010978001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.233 cfs or 1451 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO THE WEST FORK SAN JACINTO RIVER IN SEGMENT NC
- d. Zip Code 77302
- e. Location of point: In the BRYAN, S H Original Survey No. \_\_\_\_\_, Abstract No. 527, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.241895 °N, Longitude -95.438611 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011020001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 99 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 0.408 cfs or 183 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CHICKEN CREEK; THENCE TO LITTLE CANEY CREEK; THENCE TO CANEY CREEK IN SEGMENT
- d. Zip Code 77358
- e. Location of point: In the SLEIGH , C A Original Survey No. \_\_\_\_\_, Abstract No. 464, WALKER County, Texas.
- f. Point is at:  
Latitude 30.52892081 °N, Longitude -95.47265764 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011020002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.644 cfs or 289 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CANEY CREEK; THENCE TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO
- d. Zip Code 77358
- e. Location of point: In the SLEIGH , C A Original Survey No. \_\_\_\_\_, Abstract No. 464, WALKER County, Texas.
- f. Point is at:  
Latitude 30.53960632 °N, Longitude -95.49395996 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011024001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1115 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 6.189 cfs or 2778 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO DRY GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JANCINTO RIVE
- d. Zip Code 77379
- e. Location of point: In the FENNEY, N Original Survey No. \_\_\_\_\_, Abstract No. 201, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.025498 °N, Longitude -95.553831 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011044001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K117-00-00; THENCE TO CYPRES
- d. Zip Code 77073
- e. Location of point: In the BARROW, B JR Original Survey No. \_\_\_\_\_, Abstract No. 88, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.033219 °N, Longitude -95.395863 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011081001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 5455 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 28.207 cfs or 12660 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77090
- e. Location of point: In the HARMON, D Original Survey No. \_\_\_\_\_, Abstract No. 75, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02899336 °N, Longitude -95.46662496 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011084001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 3092 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 21.351 cfs or 9583 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77070
- e. Location of point: In the WHEELER, T K Original Survey No. \_\_\_\_\_, Abstract No. 895, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.987782 °N, Longitude -95.578514 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011089001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1064 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 5.88 cfs or 2639 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77070
- e. Location of point: In the DE ZAVALLA, L Original Survey No. \_\_\_\_\_, Abstract No. 902, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.985703 °N, Longitude -95.56147 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011097001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: \_\_\_\_\_
- d. Zip Code 77304
- e. Location of point: In the COOK, F J Original Survey No. \_\_\_\_\_, Abstract No. 348, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.369593 °N, Longitude -95.496227 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011105001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2240 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 12.379 cfs or 5556 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77068
- e. Location of point: In the DELESDERNIER, G H Original Survey No. \_\_\_\_\_, Abstract No. 893, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.01147667 °N, Longitude -95.49872889 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011141001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2240 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 10.267 cfs or 4608 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77373
- e. Location of point: In the MAYS, A Original Survey No. \_\_\_\_\_, Abstract No. 65, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.034719 °N, Longitude -95.361719 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011142002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2935 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 16.216 cfs or 7278 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SCHULTZ GULLY (HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K118-00-00); THENCE TI
- d. Zip Code 77373
- e. Location of point: In the MAYS, A Original Survey No. \_\_\_\_\_, Abstract No. 65, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.04002388 °N, Longitude -95.38759393 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011215001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2688 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 14.852 cfs or 6666 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH NO. K124-02-03; THENCE TO HCF
- d. Zip Code 77388
- e. Location of point: In the JONES, J Original Survey No. \_\_\_\_\_, Abstract No. 50, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.07131302 °N, Longitude -95.47146384 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011239001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2800 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 11.604 cfs or 5208 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77090
- e. Location of point: In the HARMON, D Original Survey No. \_\_\_\_\_, Abstract No. 75, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.03415145 °N, Longitude -95.43833238 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011267001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K163-00-00; THENCE TO CYPRESS CREEK
- d. Zip Code 77429
- e. Location of point: In the CALLIHAN, J H Original Survey No. \_\_\_\_\_, Abstract No. 911, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.962703 °N, Longitude -95.619479 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011314001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 448 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77388
- e. Location of point: In the HARMON, D Original Survey No. \_\_\_\_\_, Abstract No. 75, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0377444 °N, Longitude -95.45164427 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011366001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 784 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 3.248 cfs or 1458 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77379
- e. Location of point: In the DELESDERNIER, G H Original Survey No. \_\_\_\_\_, Abstract No. 893, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00953 °N, Longitude -95.505974 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011386001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 198 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 0.746 cfs or 335 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DITCH; THENCE TO AN UNNAMED TRIBUTARY OF PEACH CREEK; THENCE TO PEACH CREEK
- d. Zip Code 77372
- e. Location of point: In the TAYLOR, W S Original Survey No. \_\_\_\_\_, Abstract No. 481, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.197405 °N, Longitude -95.165816 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011395001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO UNNAMED DRAINAGE DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO WEST FORK
- d. Zip Code 77385
- e. Location of point: In the VINCE, R Original Survey No. \_\_\_\_\_, Abstract No. 549, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.224731 °N, Longitude -95.434263 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011404001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1064 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 5.88 cfs or 2639 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIV
- d. Zip Code 77375
- e. Location of point: In the SMITH, E Original Survey No. \_\_\_\_\_, Abstract No. 120, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.092384 °N, Longitude -95.554492 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011404002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_ ?  
Presumed surface water  
unknown water right
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DETENTION POND SYSTEM, THENCE TO A 48-INCH STORM SEWER PIPE, THENCE TO HARR  
\_\_\_\_\_
- d. Zip Code 77379
- e. Location of point: In the MC GEE, J W Original Survey No. \_\_\_\_\_, Abstract No. 124, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0791406 °N, Longitude -95.54147996 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011406001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1680 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 9.284 cfs or 4167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77365
- e. Location of point: In the BODMAN, A R Original Survey No. \_\_\_\_\_, Abstract No. 92, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.031776 °N, Longitude -95.302955 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011409001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 5601 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 23.332 cfs or 10472 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77379
- e. Location of point: In the PAGE, B Original Survey No. \_\_\_\_\_, Abstract No. 498, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0023317 °N, Longitude -95.52394163 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011410002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
    1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
    2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
    3. Indicate how the groundwater will be conveyed to the stream or reservoir.
    4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
  - di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
  - dii. 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 1848 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 10.211 cfs or 4583 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO PILOT GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIV
- d. Zip Code 77070
- e. Location of point: In the LEWIS, A Original Survey No. \_\_\_\_\_, Abstract No. 904, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00089128 °N, Longitude -95.57024273 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011437001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 28 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 0.192 cfs or 86 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BLUEBONNET COUNTRY LAKE; TBENCE TO CANEY CREEK; THENCE TO LAKE CREEK IN SEGM
- d. Zip Code 77868
- e. Location of point: In the MC INTIRE, M Original Survey No. \_\_\_\_\_, Abstract No. 382, GRIMES County, Texas.
- f. Point is at:  
Latitude 30.41227776 °N, Longitude -95.92658955 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011444001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 252 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 1.74 cfs or 781 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77373
- e. Location of point: In the BARROW, B JR Original Survey No. \_\_\_\_\_, Abstract No. 88, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.037656 °N, Longitude -95.416643 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011574001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2352 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 12.996 cfs or 5833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MONTGOMERY COUNTY DRAINAGE DISTRICT NO. 6 CHANNEL II DF; THENCE TO SPRING CREEK
- d. Zip Code 77386
- e. Location of point: In the MC MANUS, R O W Original Survey No. \_\_\_\_\_, Abstract No. 639, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.11034668 °N, Longitude -95.40537531 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011580001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 168 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 0.697 cfs or 313 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO THE WEST FORK SAN JACINTO RIVER IN SEGMENT NO. 1004 OF THE SAN JACINTO
- d. Zip Code 77385
- e. Location of point: In the WILBORN, M Original Survey No. \_\_\_\_\_, Abstract No. 551, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.218129 °N, Longitude -95.410314 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011618003 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1568 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 9.291 cfs or 4170 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA STORM SEWER TO AN UNNAMED TRIBUTARY; THENCE TO CYPRESS CREEK IN SEGMENT NO
- d. Zip Code 77338
- e. Location of point: In the HUFFMAN, C Original Survey No. \_\_\_\_\_, Abstract No. 466, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02972452 °N, Longitude -95.32026477 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011630001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1680 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 9.284 cfs or 4167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO METZLER CREEK; THENCE TO CANNON GULLY; THENCE TO WILLOW CREEK; THENCE TO SPI
- d. Zip Code 77389
- e. Location of point: In the DONNELLY, J C Original Survey No. \_\_\_\_\_, Abstract No. 117, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.12071544 °N, Longitude -95.54966133 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011630002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 123 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 0.682 cfs or 306 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIV
- d. Zip Code 77389
- e. Location of point: In the MC GEE, J M Original Survey No. \_\_\_\_\_, Abstract No. 123, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.11119383 °N, Longitude -95.53709174 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011715001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 252 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 1.045 cfs or 469 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CAMP CREEK; THENCE TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO RIVER
- d. Zip Code 77378
- e. Location of point: In the ALSTON, H Original Survey No. \_\_\_\_\_, Abstract No. 131, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.4147703 °N, Longitude -95.42875487 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011799001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2464 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 13.615 cfs or 6111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH J109-01-00; THENCE TO JCFCDC
- d. Zip Code 77373
- e. Location of point: In the DECROW, H Original Survey No. \_\_\_\_\_, Abstract No. 52, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.07193474 °N, Longitude -95.37671107 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011814001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.281 cfs or 126 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH L114-01-01; THENCE TO HCFCD I
- d. Zip Code 77447
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 279, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0423294 °N, Longitude -95.81264669 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011820001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.579 cfs or 260 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT NO. 10C
- d. Zip Code 77385
- e. Location of point: In the VINCE, R Original Survey No. \_\_\_\_\_, Abstract No. 549, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.2264101 °N, Longitude -95.43678643 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011824002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2800 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 15.471 cfs or 6944 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K142-08-00; THENCE TO FAULKE
- d. Zip Code 77429
- e. Location of point: In the SHAW, J Original Survey No. \_\_\_\_\_, Abstract No. 219, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02247696 °N, Longitude -95.64860232 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011824003 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 896 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77429
- e. Location of point: In the CALLIHAN, J H Original Survey No. \_\_\_\_\_, Abstract No. 911, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.990159 °N, Longitude -95.644489 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011832001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1591 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 8.787 cfs or 3944 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO FAULKNEY GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO F
- d. Zip Code 77377
- e. Location of point: In the SCHOUNTEN, A Original Survey No. \_\_\_\_\_, Abstract No. 891, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.99861525 °N, Longitude -95.60629902 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011835001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2800 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 15.474 cfs or 6945 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SEALS GULLY, THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIV
- d. Zip Code 77388
- e. Location of point: In the MC CASLAND, A M Original Survey No. \_\_\_\_\_, Abstract No. 76, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.05856631 °N, Longitude -95.48594207 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011844001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 45 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 0.185 cfs or 83 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO JOHNSON CREEK; THENCE TO EAST FORK SAN JACIN
- d. Zip Code 77340
- e. Location of point: In the ROARK, J Original Survey No. \_\_\_\_\_, Abstract No. 391, WALKER County, Texas.
- f. Point is at:  
Latitude 30.663055 °N, Longitude -95.346746 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011855001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1467 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 6.094 cfs or 2735 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77373
- e. Location of point: In the BARROW, B JR Original Survey No. \_\_\_\_\_, Abstract No. 88, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.03537392 °N, Longitude -95.42161102 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011886001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 67 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 0.334 cfs or 150 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WUNSCH DITCH; THENCE TO LEMM GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1
- d. Zip Code 77373
- e. Location of point: In the SMITH, W Original Survey No. \_\_\_\_\_, Abstract No. 55, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.070643 °N, Longitude -95.431287 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011900001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2 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 0.009 cfs or 4 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA A PIPELINE TO AN UNDERGROUND CULVERT; THENCE TO A CONCRETE DITCH; THENCE TO C
- d. Zip Code 77069
- e. Location of point: In the PAGE, B Original Survey No. \_\_\_\_\_, Abstract No. 498, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00607636 °N, Longitude -95.51183559 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011912002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1680 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 6.963 cfs or 3125 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) SITCH K145-01-00; THENCE TO DRY CR
- d. Zip Code 77429
- e. Location of point: In the STANSBURY, T J Original Survey No. \_\_\_\_\_, Abstract No. 701, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.98014681 °N, Longitude -95.67703442 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011913001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.09 cfs or 938 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH L117-01-00; THENCE TO LITTLE CYPRESS
- d. Zip Code 77447
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 279, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.026774 °N, Longitude -95.803489 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011925001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.248 cfs or 1458 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SEALS GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIV
- d. Zip Code 77388
- e. Location of point: In the HARMON, D Original Survey No. \_\_\_\_\_, Abstract No. 75, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.046152 °N, Longitude -95.449393 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011933001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1064 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 4.409 cfs or 1979 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO TURKEY CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO R
- d. Zip Code 77073
- e. Location of point: In the HT&B RR CO Original Survey No. \_\_\_\_\_, Abstract No. 99, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.01152 °N, Longitude -95.377514 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011939001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 3495 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 14.482 cfs or 6500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH (HCFDD) # K142-07-00; THENCE TO FAU
- d. Zip Code 77377
- e. Location of point: In the PERKINS, W Original Survey No. \_\_\_\_\_, Abstract No. 177, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02567789 °N, Longitude -95.6171657 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011941001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.721 cfs or 1670 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K128-00-00; THENCE TO CYPRESS CREEK
- d. Zip Code 77068
- e. Location of point: In the DELESDERNIER, G H Original Survey No. \_\_\_\_\_, Abstract No. 893, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.003346 °N, Longitude -95.470707 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011964001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1120 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 5.156 cfs or 2314 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH (HCFD) #K123-00-00; THEN TO CYPRES
- d. Zip Code 77388
- e. Location of point: In the HARMON, D Original Survey No. \_\_\_\_\_, Abstract No. 75, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.03805857 °N, Longitude -95.4364564 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011970001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 885 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 4.888 cfs or 2194 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MONTGOMERY COUNTY DRAINAGE DISTRICT (MCD) NO. 6 CHANNEL II-B; THENCE TO SPRIN
- d. Zip Code 77380
- e. Location of point: In the ESTERWALL, C Original Survey No. \_\_\_\_\_, Abstract No. 602, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.12654763 °N, Longitude -95.4438514 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011988001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2240 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 9.284 cfs or 4167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO THEISS GULLY; THENCE TO SPRING GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1
- d. Zip Code 77379
- e. Location of point: In the HOUSE, J Original Survey No. \_\_\_\_\_, Abstract No. 187, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.03058157 °N, Longitude -95.53420559 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0011988002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 67 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: TO A STORM SEWER; THENCE TO THE ISS GULLY; THENCE TO SPRING GULLY; THENCE TO CYPR \_\_\_\_\_
- d. Zip Code 77379
- e. Location of point: In the HOUSE, J Original Survey No. \_\_\_\_\_, Abstract No. 187, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.024179 °N, Longitude -95.525472 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011988003 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 67 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: TO THEISS GULLY; THENCE TO SPRING GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1
- d. Zip Code 77379
- e. Location of point: In the HOUSE, J Original Survey No. \_\_\_\_\_, Abstract No. 187, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.034638 °N, Longitude -95.54283 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0011993001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 149 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 0.929 cfs or 417 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO PEACH CREEK IN SEGMENT NO. 1011 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77357
- e. Location of point: In the BRYAN, P Original Survey No. \_\_\_\_\_, Abstract No. 483, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.172988 °N, Longitude -95.17768 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012025002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 829 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 4.639 cfs or 2082 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K131-03-00; THENCE TO SPRING GULLY; 1
- d. Zip Code 77379
- e. Location of point: In the GARY, G Original Survey No. \_\_\_\_\_, Abstract No. 183, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.038094 °N, Longitude -95.50569 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012044001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1792 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 9.901 cfs or 4444 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH M122-00-00; THENCE TO WILLOV
- d. Zip Code 77375
- e. Location of point: In the PERKINS, W Original Survey No. \_\_\_\_\_, Abstract No. 177, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.05106802 °N, Longitude -95.59674717 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012204001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 22 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 0.185 cfs or 83 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77306
- e. Location of point: In the BLAKE, B Original Survey No. \_\_\_\_\_, Abstract No. 150, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.33277728 °N, Longitude -95.33276752 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012205001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 17 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 0.14 cfs or 63 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO COPELAND DITCH; THENCE TO WHITE OAK CREEK; THENCE TO CANEY CREEK IN SEGMENT 1
- d. Zip Code 77365
- e. Location of point: In the BARCLAY, N Original Survey No. \_\_\_\_\_, Abstract No. 594, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.17217226 °N, Longitude -95.3183567 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012212002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 3360 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 13.925 cfs or 6250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CARTER'S SLOUGH; THENCE TO A MINING POND; THENCE TO CARTER'S SLOUGH; THENCE TO
- d. Zip Code 77385
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 571, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.19908419 °N, Longitude -95.44715961 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012224001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 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 0.051 cfs or 23 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SPRING GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RI
- d. Zip Code 77379
- e. Location of point: In the MOORE, J Original Survey No. \_\_\_\_\_, Abstract No. 173, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.050031 °N, Longitude -95.527391 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012239001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1109 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 4.643 cfs or 2084 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K111-07-00; THENCE TO TURKEY
- d. Zip Code 77073
- e. Location of point: In the WC RR CO Original Survey No. \_\_\_\_\_, Abstract No. 489, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.991248 °N, Longitude -95.403461 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012242001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 4481 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 24.755 cfs or 11111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO BENS BRANCH, THENCE TO LAKE HOUSTON IN SEGM
- d. Zip Code 77365
- e. Location of point: In the OWENS, M Original Survey No. \_\_\_\_\_, Abstract No. 512, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.08550722 °N, Longitude -95.22876645 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012248001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.463 cfs or 208 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77070
- e. Location of point: In the LEWIS, A Original Survey No. \_\_\_\_\_, Abstract No. 904, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.9858651 °N, Longitude -95.57002722 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012274001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2240 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 15.471 cfs or 6944 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF CANEY CREEK; THENCE TO CANEY CREEK IN SEGMENT NO. 10'
- d. Zip Code 77357
- e. Location of point: In the MC NAUGHTON, F Original Survey No. \_\_\_\_\_, Abstract No. 499, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.13789628 °N, Longitude -95.20321367 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012303001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 17 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 0.069 cfs or 31 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH M101-01-00; THENCE TO HCFCD
- d. Zip Code 77389
- e. Location of point: In the GOSLING, L Original Survey No. \_\_\_\_\_, Abstract No. 114, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.096636 °N, Longitude -95.506897 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ012327001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1109 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 4.596 cfs or 2063 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K145-00-00; THENCE TO DRY CR
- d. Zip Code 77429
- e. Location of point: In the HOWTH, W Original Survey No. \_\_\_\_\_, Abstract No. 698, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.981212 °N, Longitude -95.700346 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012378002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.785 cfs or 1250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO TURKEY CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO R
- d. Zip Code 77073
- e. Location of point: In the HT&B RR CO Original Survey No. \_\_\_\_\_, Abstract No. 99, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.008935 °N, Longitude -95.391331 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012382001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 134 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 0.557 cfs or 250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIV
- d. Zip Code 77389
- e. Location of point: In the COOPER, J Original Survey No. \_\_\_\_\_, Abstract No. 82, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.112701 °N, Longitude -95.501851 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012456002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 6 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 0.016 cfs or 7 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH; THENCE TO MOUND CREEK; THENCE TO LAKE CREEK IN SEGMENT NO. 1
- d. Zip Code 77316
- e. Location of point: In the MARTIN, P Original Survey No. \_\_\_\_\_, Abstract No. 386, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.3177192 °N, Longitude -95.61609723 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012470001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2016 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 8.355 cfs or 3750 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO TURKEY CREEK (ALSO KNOWN AS HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K111-C)
- d. Zip Code 77073
- e. Location of point: In the HT&B RR CO Original Survey No. \_\_\_\_\_, Abstract No. 475, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00143 °N, Longitude -95.403445 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012519001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.463 cfs or 208 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO METZLER CREEK; THENCE TO CANNON GULLY; THENCE TO WILLOW CREEK; THENCE TO SPR
- d. Zip Code 77389
- e. Location of point: In the DONNELLY, J C Original Survey No. \_\_\_\_\_, Abstract No. 117, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.11742 °N, Longitude -95.547282 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012579001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 854 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 3.538 cfs or 1588 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SENER GULLY, THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO R
- d. Zip Code 77388
- e. Location of point: In the HUGHES, J A Original Survey No. \_\_\_\_\_, Abstract No. 64, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.070624 °N, Longitude -95.452532 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012587001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 515 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 2.134 cfs or 958 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO MILL CREEK; THENCE TO NEBRASKA LAKE; THENCE TO
- d. Zip Code 77354
- e. Location of point: In the FOSTER, J Original Survey No. \_\_\_\_\_, Abstract No. 717, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.175029 °N, Longitude -95.634066 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012600001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 9 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: TO A DRAINAGE DITCH; THENCE TO FAULKLEY GULLY; THENCE TO CYPRESS CREEK IN SEGMENT
- d. Zip Code 77429
- e. Location of point: In the COCKE, J D Original Survey No. \_\_\_\_\_, Abstract No. 220, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.020221 °N, Longitude -95.644944 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012614001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 2.322 cfs or 1042 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LATERAL HOF TURKEY CREEK (HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K-111-074)
- d. Zip Code 77073
- e. Location of point: In the I&GN RR CO Original Survey No. \_\_\_\_\_, Abstract No. 474, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.99233 °N, Longitude -95.401917 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012621001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 168 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 0.929 cfs or 417 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JAC
- d. Zip Code 77302
- e. Location of point: In the KIBBE, W Original Survey No. \_\_\_\_\_, Abstract No. 535, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.22449926 °N, Longitude -95.29196172 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012637001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 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 0.029 cfs or 13 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH #J113-00-00; THENCE TO A POINT
- d. Zip Code 77373
- e. Location of point: In the REINERMANN, J Original Survey No. \_\_\_\_\_, Abstract No. 45, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.097948 °N, Longitude -95.433912 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012643001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.479 cfs or 215 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH M114-00-00; THENCE TO WILLOV
- d. Zip Code 77375
- e. Location of point: In the SMITH, E Original Survey No. \_\_\_\_\_, Abstract No. 120, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.08228 °N, Longitude -95.560067 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012650001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 28 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 0.116 cfs or 52 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH J121-01-00; THENCE TO HCFCD I
- d. Zip Code 77389
- e. Location of point: In the HERRING, HRS F P Original Survey No. \_\_\_\_\_, Abstract No. 48, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.086572 °N, Longitude -95.485551 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012670001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 196 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 0.813 cfs or 365 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED GULLY; THENCE TO AN UNNAMED TRIBUTARY OF CAMP CREEK; THENCE TO CJ
- d. Zip Code 77378
- e. Location of point: In the LONIS, G W Original Survey No. \_\_\_\_\_, Abstract No. 99, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.442963 °N, Longitude -95.457697 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012730001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 17 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 0.096 cfs or 43 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA AN UNDERGROUND CONVEYANCE TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD)
- d. Zip Code 77375
- e. Location of point: In the PERKINS, W Original Survey No. \_\_\_\_\_, Abstract No. 177, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02160657 °N, Longitude -95.58583048 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0012761001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 56 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 0.223 cfs or 100 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BASE CREEK; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT NO. 1004 OF THE SA
- d. Zip Code 77304
- e. Location of point: In the CORNER, M Original Survey No. \_\_\_\_\_, Abstract No. 360, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.338228 °N, Longitude -95.563181 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012851001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 67 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 0.279 cfs or 125 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO DECKER BRANCH; THENCE TO NEIDIGK LAKE; THENCE TO MILL CREEK; THENCE TO SPRING
- d. Zip Code 77362
- e. Location of point: In the MOORE, J Original Survey No. \_\_\_\_\_, Abstract No. 742, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14479 °N, Longitude -95.662901 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012877001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 851 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 4.641 cfs or 2083 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K139-00-00; THENCE TO CYPRES
- d. Zip Code 77070
- e. Location of point: In the LEWIS, A Original Survey No. \_\_\_\_\_, Abstract No. 904, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.974569 °N, Longitude -95.573377 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012898001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 84 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 0.403 cfs or 181 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JUAN
- d. Zip Code 77447
- e. Location of point: In the ROBERTS, A Original Survey No. \_\_\_\_\_, Abstract No. 808, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.09990027 °N, Longitude -95.78928096 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0012979004 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1064 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 4.409 cfs or 1979 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH J113-00-00; THENCE TO SPRING
- d. Zip Code 77373
- e. Location of point: In the HOLLAND, HRS A G Original Survey No. \_\_\_\_\_, Abstract No. 44, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.104294 °N, Longitude -95.422882 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013020001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: CLIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77070
- e. Location of point: In the WHEELER, T K Original Survey No. \_\_\_\_\_, Abstract No. 895, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.987419 °N, Longitude -95.583657 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013059001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 17 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 0.069 cfs or 31 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77429
- e. Location of point: In the TYLER, O T Original Survey No. \_\_\_\_\_, Abstract No. 710, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.958873 °N, Longitude -95.655901 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013152001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 845 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 4.665 cfs or 2094 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K131-04-00; THENCE TO SPRING GULLY; 1
- d. Zip Code 77379
- e. Location of point: In the BROCK, J Original Survey No. \_\_\_\_\_, Abstract No. 109, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.061532 °N, Longitude -95.515242 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013296002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2240 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 10.83 cfs or 4861 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K159-00-00; THENCE TO CYPRES
- d. Zip Code 77433
- e. Location of point: In the MOODY, J W Original Survey No. \_\_\_\_\_, Abstract No. 906, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.98623592 °N, Longitude -95.72827546 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013389001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 336 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 2.322 cfs or 1042 gpm.
- c. Name of Watercourse as shown on Official USGS maps: O A ROADSIDE DRAINAGE DITCH; THENCE TO AN UNNAMED TRIBUTARY OF PEACH CREEK; THE
- d. Zip Code 77372
- e. Location of point: In the BARKER, W Original Survey No. \_\_\_\_\_, Abstract No. 474, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.23692866 °N, Longitude -95.15963534 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013711002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 39 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 0.209 cfs or 94 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WUNSCH DITCH; THENCE TO LEMM GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1
- d. Zip Code 77373
- e. Location of point: In the SMITH, W Original Survey No. \_\_\_\_\_, Abstract No. 55, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.07666202 °N, Longitude -95.43305973 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013472001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 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 0.029 cfs or 13 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A COUNTY DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO LITTLE CYPRESS CREEK
- d. Zip Code 77447
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 281, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02894 °N, Longitude -95.860822 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013526001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 2.475 cfs or 1111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH G103-38-02; THENCE TO HCFCD
- d. Zip Code 77339
- e. Location of point: In the OWENS, M Original Survey No. \_\_\_\_\_, Abstract No. 33, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.051626 °N, Longitude -95.236622 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013527001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. Identify any other source of the water \_\_\_\_\_



## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013569001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2 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 0.007 cfs or 3 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K130-00-00; THENCE TO CYPRES
- d. Zip Code 77068
- e. Location of point: In the DELESDERNIER, G H Original Survey No. \_\_\_\_\_, Abstract No. 893, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0003 °N, Longitude -95.507196 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013573001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SEALS GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIV
- d. Zip Code 77388
- e. Location of point: In the WEST, B B Original Survey No. \_\_\_\_\_, Abstract No. 78, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.050277 °N, Longitude -95.47085 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013619001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 45 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 0.247 cfs or 111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGM
- d. Zip Code 77375
- e. Location of point: In the SMITH, E Original Survey No. \_\_\_\_\_, Abstract No. 120, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.103009 °N, Longitude -95.54578 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013625001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1680 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 9.284 cfs or 4167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77068
- e. Location of point: In the DELESDERNIER, G H Original Survey No. \_\_\_\_\_, Abstract No. 893, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.01714632 °N, Longitude -95.49100931 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013636001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 454 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 2.079 cfs or 933 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO DECKER BRANCH; THENCE TO NEIDIGK LAKE; THENCE
- d. Zip Code 77362
- e. Location of point: In the BBB&C RR CO Original Survey No. \_\_\_\_\_, Abstract No. 725, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.151061 °N, Longitude -95.665333 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013638001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 361 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 1.245 cfs or 559 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO PEACH CREEK IN SEGMENT NO. 1011 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77357
- e. Location of point: In the BRYAN, C Original Survey No. \_\_\_\_\_, Abstract No. 491, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.16933951 °N, Longitude -95.1784736 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013648001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 2.707 cfs or 1215 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77380
- e. Location of point: In the HERRING, HRS F P Original Survey No. \_\_\_\_\_, Abstract No. 48, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.107753 °N, Longitude -95.487779 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013653001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 17 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 0.069 cfs or 31 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A ROADSIDE DITCH; THENCE TO WALNUT CREEK; THENCE TO SPRING CREEK IN SEGMENT N
- d. Zip Code 77355
- e. Location of point: In the WEIR, D W Original Survey No. \_\_\_\_\_, Abstract No. 800, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14010518 °N, Longitude -95.75300154 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013690002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.927 cfs or 416 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77306
- e. Location of point: In the BEACH, C Original Survey No. \_\_\_\_\_, Abstract No. 521, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.25942052 °N, Longitude -95.30233792 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013700001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WHITE OAK CREEK, THENCE TO IMPOUNDED WHITE OAK CREEK; THENCE TO WHITE OAK CRI
- d. Zip Code 77385
- e. Location of point: In the ROSS, R Original Survey No. \_\_\_\_\_, Abstract No. 596, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.16881023 °N, Longitude -95.41382526 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013753001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 2.475 cfs or 1111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77429
- e. Location of point: In the CALLIHAN, J H Original Survey No. \_\_\_\_\_, Abstract No. 911, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.979695 °N, Longitude -95.632564 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013760001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.463 cfs or 208 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SAN JACINTO RIVER HEIGHTS CHANNEL 1A; THENCE TO WEST FORK SAN JACINTO RIVER IN
- d. Zip Code 77365
- e. Location of point: In the BBB&C RR CO Original Survey No. \_\_\_\_\_, Abstract No. 622, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.129725 °N, Longitude -95.29945 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013765001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 896 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WUNSCH DITCH; THENCE TO LEMM GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1
- d. Zip Code 77373
- e. Location of point: In the RICHEY, J Original Survey No. \_\_\_\_\_, Abstract No. 70, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.062776 °N, Longitude -95.423878 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013819001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 582 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 3.217 cfs or 1444 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LEMM GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVE
- d. Zip Code 77373
- e. Location of point: In the SMITH, W Original Survey No. \_\_\_\_\_, Abstract No. 55, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.074803 °N, Longitude -95.420596 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013875002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1680 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 9.284 cfs or 4167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K133-00-00; THENCE TO DRY GULLY; THE
- d. Zip Code 77379
- e. Location of point: In the BLACKBURN, R T Original Survey No. \_\_\_\_\_, Abstract No. 171, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.03950998 °N, Longitude -95.56684392 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013881001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1344 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 7.426 cfs or 3333 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO DRY CREEK (HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K145-00-00); THENCE TO CY
- d. Zip Code 77429
- e. Location of point: In the STANSBURY, T J Original Survey No. \_\_\_\_\_, Abstract No. 701, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.9659016 °N, Longitude -95.67682973 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013893001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 20 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 0.167 cfs or 75 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DETENTION POND; THENCE VIA AN UNDERGROUND STORM SEWER TO PILOT GULLY; THE
- d. Zip Code 77375
- e. Location of point: In the PERKINS, W Original Survey No. \_\_\_\_\_, Abstract No. 177, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.03622066 °N, Longitude -95.60143861 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0013942001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 280 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 1.161 cfs or 521 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A STORMWATER RETENTION POND; THENCE TO WILLOW CREEK; THENCE TO SPRING CREEK
- d. Zip Code 77375
- e. Location of point: In the SMITH, E Original Survey No. \_\_\_\_\_, Abstract No. 120, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.072019 °N, Longitude -95.573507 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0013985001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 426 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 2.353 cfs or 1056 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF WOODSONS GULLY; THENCE TO WOODSONS GULLY; THENCE 1
- d. Zip Code 77386
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 571, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.123764 °N, Longitude -95.387808 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014007001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 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 0.804 cfs or 361 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77377
- e. Location of point: In the BROWN, S Original Survey No. \_\_\_\_\_, Abstract No. 806, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.09963 °N, Longitude -95.719529 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014013001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 56 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 0.232 cfs or 104 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO BEAR BRANCH; THENCE TO BEAR BRANCH RESERVOIR; TH
- d. Zip Code 77354
- e. Location of point: In the GARRETT, D Original Survey No. \_\_\_\_\_, Abstract No. 687, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.216054 °N, Longitude -95.551108 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014028001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 280 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 1.548 cfs or 695 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77433
- e. Location of point: In the BREWSTER, J Original Survey No. \_\_\_\_\_, Abstract No. 722, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.955473 °N, Longitude -95.709139 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014029001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE DITCH; THENCE TO AN UNNAMED TRIBUTARY OF DRY CREEK; THEN
- d. Zip Code 77302
- e. Location of point: In the T&NO RR CO Original Survey No. \_\_\_\_\_, Abstract No. 547, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.22155353 °N, Longitude -95.31926191 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014030001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1680 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 6.963 cfs or 3125 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K143-00-00; THENCE TO CYPRES
- d. Zip Code 77429
- e. Location of point: In the EVERETT, S Original Survey No. \_\_\_\_\_, Abstract No. 713, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.96191876 °N, Longitude -95.58854661 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014032001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 224 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 1.239 cfs or 556 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE DITCH, THENCE TO LITTLE CYPRESS CREEK, THENCE TO CYPRESS
- d. Zip Code 77429
- e. Location of point: In the BUNDICK, M H Original Survey No. \_\_\_\_\_, Abstract No. 892, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.003172 °N, Longitude -95.665877 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014081001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.09 cfs or 938 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA PIPE TO AN UNNAMED TRIBUTARY; THENCE TO WHITE OAK CREEK; THENCE TO CANEY CREEK
- d. Zip Code 77365
- e. Location of point: In the SHARP, A V Original Survey No. \_\_\_\_\_, Abstract No. 608, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.13672248 °N, Longitude -95.25726912 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014091001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 5 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 0.022 cfs or 10 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BENS BRANCH; THENCE TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH G10
- d. Zip Code 77365
- e. Location of point: In the HT&B RR CO Original Survey No. \_\_\_\_\_, Abstract No. 518, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.071882 °N, Longitude -95.227187 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014106001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 90 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 0.372 cfs or 167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K111-08-00; THENCE TO TURKEY
- d. Zip Code 77073
- e. Location of point: In the HT&B RR CO Original Survey No. \_\_\_\_\_, Abstract No. 100, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.012155 °N, Longitude -95.409601 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014114001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT NO. 10C
- d. Zip Code 77304
- e. Location of point: In the EDWARDS, J Original Survey No. \_\_\_\_\_, Abstract No. 352, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.359787 °N, Longitude -95.54568 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014116001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 437 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 2.413 cfs or 1083 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO WHITE OAK CREEK; THENCE TO CHANEY CREEK IN SEGME
- d. Zip Code 77365
- e. Location of point: In the SHORT, M H Original Survey No. \_\_\_\_\_, Abstract No. 505, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.10100262 °N, Longitude -95.18496048 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014124001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 22 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 0.125 cfs or 56 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF DRY CREEK; THENCE TO AN UNNAMED POND; THENCE TO AN L
- d. Zip Code 77354
- e. Location of point: In the BROWN, J Original Survey No. \_\_\_\_\_, Abstract No. 714, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.17361 °N, Longitude -95.605656 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014133001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 549 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 3.032 cfs or 1361 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN OPEN DITCH; THENCE TO LOG GULLY; THENCE TO AN UNNAMED RESERVOIR; THENCE TO
- d. Zip Code 77355
- e. Location of point: In the HILLHOUSE, W Original Survey No. \_\_\_\_\_, Abstract No. 778, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.18992752 °N, Longitude -95.79999409 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014141001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 756 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 3.133 cfs or 1406 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO BEAR BRANCH; THENCE TO BEAR BRANCH RESERVOIR
- d. Zip Code 77382
- e. Location of point: In the GARRETT, D Original Survey No. \_\_\_\_\_, Abstract No. 687, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.21230888 °N, Longitude -95.56632736 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014166001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 558 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 3.081 cfs or 1383 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77354
- e. Location of point: In the HODGE, A Original Survey No. \_\_\_\_\_, Abstract No. 660, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.25367876 °N, Longitude -95.57895607 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014172001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 302 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 1.671 cfs or 750 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE SWALE; THENCE TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DTIC
- d. Zip Code 77429
- e. Location of point: In the HOWTH, W Original Survey No. \_\_\_\_\_, Abstract No. 698, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.973835 °N, Longitude -95.688108 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014181001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 252 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 1.045 cfs or 469 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE DITCH; THENCE TO HARRIS COUNTY FLOOD CONTROL DISTRICT D11
- d. Zip Code 77375
- e. Location of point: In the PRUETT, J Original Survey No. \_\_\_\_\_, Abstract No. 137, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.08571889 °N, Longitude -95.58643129 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014193001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 39 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 0.163 cfs or 73 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO PILOT GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIV
- d. Zip Code 77070
- e. Location of point: In the WHEELER, T K Original Survey No. \_\_\_\_\_, Abstract No. 895, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.009619 °N, Longitude -95.576073 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014218001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 11 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 0.047 cfs or 21 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA PIPELINE TO MILL CREEK; THENCE TO NEEDICK LAKE; THENCE TO MILL CREEK; THENCE TO E
- d. Zip Code 77354
- e. Location of point: In the COCHRAN, J D Original Survey No. \_\_\_\_\_, Abstract No. 718, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.183841 °N, Longitude -95.653358 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014285001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.393 cfs or 625 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A SERIES OF DITCHES; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO CANEY CREEK IN
- d. Zip Code 77306
- e. Location of point: In the LEWIS, J E Original Survey No. \_\_\_\_\_, Abstract No. 178, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.32503137 °N, Longitude -95.3091593 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014305001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 269 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 1.486 cfs or 667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACIN
- d. Zip Code 77354
- e. Location of point: In the NICHOLS, T J Original Survey No. \_\_\_\_\_, Abstract No. 762, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.257938 °N, Longitude -95.644398 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014311001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 840 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 4.641 cfs or 2083 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MARE BRANCH; THENCE TO PEACH CREEK IN SEGMENT NO. 1011 OF THE SAN JACINTO RIVE
- d. Zip Code 77357
- e. Location of point: In the PETERS, H A Original Survey No. \_\_\_\_\_, Abstract No. 477, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.198216 °N, Longitude -95.201389 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014327001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1064 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 5.107 cfs or 2292 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A SERIES OF AMENITY LAKES; THENCE TO DRY CREEK; THENCE TO CYPRESS CREEK IN SEG
- d. Zip Code 77433
- e. Location of point: In the BURRESS, M Original Survey No. \_\_\_\_\_, Abstract No. 695, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.989282 °N, Longitude -95.719831 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014347001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 3360 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 18.566 cfs or 8333 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77389
- e. Location of point: In the COOPER, J Original Survey No. \_\_\_\_\_, Abstract No. 82, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.139414 °N, Longitude -95.49923 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014354001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 728 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 4.024 cfs or 1806 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 374 OUTFALL CHANNEL; THENCE TO CYPF
- d. Zip Code 77433
- e. Location of point: In the BREWSTER, J Original Survey No. \_\_\_\_\_, Abstract No. 722, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.944543 °N, Longitude -95.698834 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014379001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO DRY CREEK; THENCE TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO RIVER B
- d. Zip Code 77357
- e. Location of point: In the NOLAND, E Original Survey No. \_\_\_\_\_, Abstract No. 585, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.176845 °N, Longitude -95.25137 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014414001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_? Presumed surface water unknown water right
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.752 cfs or 1235 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO A MINING POND; THENCE TO WEST FORK SAN JACINTO RV
- d. Zip Code 77385
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 571, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.198244 °N, Longitude -95.433455 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014421001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.785 cfs or 1250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A STORMWATER DETENTION POND; THENCE TO WILLOW CREEK; THENCE TO SPRING CREEK
- d. Zip Code 77375
- e. Location of point: In the SMITH, E Original Survey No. \_\_\_\_\_, Abstract No. 120, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.074195 °N, Longitude -95.570731 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014434001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 269 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 1.486 cfs or 667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77433
- e. Location of point: In the STEEL, I D Original Survey No. \_\_\_\_\_, Abstract No. 278, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0263 °N, Longitude -95.758142 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014441001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH; THENCE TO LITTLE CYPRESS
- d. Zip Code 77429
- e. Location of point: In the JONES, A Original Survey No. \_\_\_\_\_, Abstract No. 890, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.99972604 °N, Longitude -95.66287446 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014448001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 616 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 2.551 cfs or 1145 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA PIPE TO THE MALLARD CROSSING SOUTH (MCS) DETENTION POND; THENCE TO A STORMW
- d. Zip Code 77447
- e. Location of point: In the DEVINE, J Original Survey No. \_\_\_\_\_, Abstract No. 962, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.9990696 °N, Longitude -95.84479431 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014476001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 8401 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 46.416 cfs or 20833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77433
- e. Location of point: In the ROBERTS, A Original Survey No. \_\_\_\_\_, Abstract No. 709, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.95944971 °N, Longitude -95.71829629 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014482001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 2.475 cfs or 1111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BENTWOOD DIVERSION CHANNEL; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT
- d. Zip Code 77365
- e. Location of point: In the BIRCH, W Original Survey No. \_\_\_\_\_, Abstract No. 653, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.071715 °N, Longitude -95.263038 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014491001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 39 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 0.216 cfs or 97 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO AN UNDERGROUND CULVERT; THENCE TO AN UNNAMED TI
- d. Zip Code 77354
- e. Location of point: In the BROWN, J Original Survey No. \_\_\_\_\_, Abstract No. 714, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.157447 °N, Longitude -95.606462 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014523001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WOODSON'S GULLY, THENCE TO TANROUGH GULLY, THENCE TO WEST FORK SAN JACINTO
- d. Zip Code 77386
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 571, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.126987 °N, Longitude -95.372491 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014531001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 672 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 2.785 cfs or 1250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WOODSON'S GULLY; THENCE TO TANROUGH GULLY; THENCE TO WEST FORK SAN JACINTO
- d. Zip Code 77386
- e. Location of point: In the O NEIL, T Original Survey No. \_\_\_\_\_, Abstract No. 620, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.130401 °N, Longitude -95.378595 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014536001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 56 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 0.31 cfs or 139 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE; THENCE TO MARE BRANCH; THENCE TO PEACH CREEK IN SEGMENT
- d. Zip Code 77357
- e. Location of point: In the PETERS, H A Original Survey No. \_\_\_\_\_, Abstract No. 477, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.198687 °N, Longitude -95.202721 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014542001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 168 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 0.697 cfs or 313 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SULPHUR BRANCH; THENCE TO LAKE APACHE; THENCE TO SULPHUR BRANCH; THENCE TO V
- d. Zip Code 77355
- e. Location of point: In the GIBSON, W Original Survey No. \_\_\_\_\_, Abstract No. 712, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.18885 °N, Longitude -95.732363 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014576001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 2.475 cfs or 1111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K155-00-00; THENCE TO CYPRES
- d. Zip Code 77447
- e. Location of point: In the HAMERIDGE, J Original Survey No. \_\_\_\_\_, Abstract No. 960, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.99598453 °N, Longitude -95.78375376 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014586001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA PIPE TO TAN TROUGH GULLY; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT NO
- d. Zip Code 77386
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 649, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.1035973 °N, Longitude -95.34431776 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014592001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 358 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 1.486 cfs or 667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO AN UNNAMED LAKE; THENCE TO AN UNNAMED TRIBUT
- d. Zip Code 77362
- e. Location of point: In the CANFIELD, B Original Survey No. \_\_\_\_\_, Abstract No. 716, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.16868024 °N, Longitude -95.68616112 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014597001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 672 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 2.785 cfs or 1250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF WHITE OAK CREEK; THENCE TO WHITE OAK CREEK; THENCE TO
- d. Zip Code 77365
- e. Location of point: In the MASSEY, W Original Survey No. \_\_\_\_\_, Abstract No. 503, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.126362 °N, Longitude -95.245148 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014604001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1680 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 9.284 cfs or 4167 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE DITCH; THENCE TO WHITE OAK CREEK; THENCE TO WEST FORK SA
- d. Zip Code 77385
- e. Location of point: In the LAMB, G Original Survey No. \_\_\_\_\_, Abstract No. 605, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.15254625 °N, Longitude -95.39598518 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014606001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 269 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 1.114 cfs or 500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH #M112-00-00; THENCE TO WILLOW CREEK
- d. Zip Code 77375
- e. Location of point: In the PRUETT, J Original Survey No. \_\_\_\_\_, Abstract No. 137, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.102288 °N, Longitude -95.571128 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014624001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.619 cfs or 278 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77447
- e. Location of point: In the MC CARLEY, S Original Survey No. \_\_\_\_\_, Abstract No. 268, WALLER County, Texas.
- f. Point is at:  
Latitude 30.08587563 °N, Longitude -95.84184652 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014638001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 22 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 0.125 cfs or 56 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF MOUND CREEK; THENCE TO MOUND CREEK; THENCE TO LAKE
- d. Zip Code 77316
- e. Location of point: In the DUTCHER, A Original Survey No. \_\_\_\_\_, Abstract No. 373, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.318468 °N, Longitude -95.623878 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014643001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.619 cfs or 278 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77429
- e. Location of point: In the BUNDICK, M H Original Survey No. \_\_\_\_\_, Abstract No. 892, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.008978 °N, Longitude -95.675597 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014650001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 504 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 2.785 cfs or 1250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SOUTH FORK HARMON BAYOU; THENCE TO LAKE HOUSTON IN SEGMENT NO. 1002 OF THE SJ
- d. Zip Code 77044
- e. Location of point: In the HARRIS, D Original Survey No. \_\_\_\_\_, Abstract No. 321, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.971437 °N, Longitude -95.165039 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014656001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1210 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 6.684 cfs or 3000 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE SWALE; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO
- d. Zip Code 77386
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 649, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.08867422 °N, Longitude -95.37590528 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014662001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. Identify any other source of the water \_\_\_\_\_



## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014671001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT NO. 10C
- d. Zip Code 77384
- e. Location of point: In the SEIBERMAN, F Original Survey No. \_\_\_\_\_, Abstract No. 665, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.245286 °N, Longitude -95.489824 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014675001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH L114-00-00; THENCE TO LITTLE CYPRESS
- d. Zip Code 77447
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 279, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.045946 °N, Longitude -95.778036 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014700001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 784 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 4.331 cfs or 1944 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF LAKE CREEK; THENCE TO LAKE CREEK IN SEGMENT NO. 1015 0
- d. Zip Code 77316
- e. Location of point: In the HODGE, A Original Survey No. \_\_\_\_\_, Abstract No. 660, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.254672 °N, Longitude -95.607723 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014711001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77354
- e. Location of point: In the HAMBLIN, P B Original Survey No. \_\_\_\_\_, Abstract No. 659, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.25025665 °N, Longitude -95.66238932 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014755001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA 800 FEET OF PIPE TANROUGH GULLY; THEN TO THE WEST FORK SAN JACINTO RIVER IN SE
- d. Zip Code 77386
- e. Location of point: In the DAVIS, R N Original Survey No. \_\_\_\_\_, Abstract No. 637, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.10323996 °N, Longitude -95.33849464 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014799001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1344 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 7.426 cfs or 3333 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH, THENCE TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCO) DITCH
- d. Zip Code 77447
- e. Location of point: In the MERRITT, M Original Survey No. \_\_\_\_\_, Abstract No. 284, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00811256 °N, Longitude -95.82624356 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014814001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 1059 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 5.849 cfs or 2625 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO FISH CREEK; THENCE TO LAKE CREEK IN SEGMENT N
- d. Zip Code 77316
- e. Location of point: In the HODGE, A Original Survey No. \_\_\_\_\_, Abstract No. 660, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.26704598 °N, Longitude -95.54836179 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014828001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 56 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 0.31 cfs or 139 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77433
- e. Location of point: In the HAMBLIN, W K Original Survey No. \_\_\_\_\_, Abstract No. 717, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.953863 °N, Longitude -95.678061 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014862001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 25 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 0.136 cfs or 61 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO SPRING CREEK IN SE
- d. Zip Code 77386
- e. Location of point: In the MC MANUS, R O W Original Survey No. \_\_\_\_\_, Abstract No. 639, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.109002 °N, Longitude -95.414126 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014886001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 11 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 0.038 cfs or 17 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINT
- d. Zip Code 77338
- e. Location of point: In the SKORUPSKI, J Original Survey No. \_\_\_\_\_, Abstract No. 467, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.01667 °N, Longitude -95.329927 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014901001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 11 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 0.062 cfs or 28 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JUAN
- d. Zip Code 77447
- e. Location of point: In the MC CARLEY, S Original Survey No. \_\_\_\_\_, Abstract No. 114, WALLER County, Texas.
- f. Point is at:  
Latitude 30.095929 °N, Longitude -95.839202 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014903001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2240 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 12.379 cfs or 5556 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO ARNOLD BRANCH, THENCE TO MINK BRANCH, THENCE TO WALNET CREEK, THENCE TO SPRI
- d. Zip Code 77355
- e. Location of point: In the WARD, C T Original Survey No. \_\_\_\_\_, Abstract No. 785, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.189944 °N, Longitude -95.751932 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014907001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 134 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 0.742 cfs or 333 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MINK BRANCH; THENCE TO WALNUT CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 10
- d. Zip Code 77355
- e. Location of point: In the WARD, C T Original Survey No. \_\_\_\_\_, Abstract No. 785, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.175886 °N, Longitude -95.753488 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014908001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1008 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO CANNON GULLY; THENCE TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1
- d. Zip Code 77389
- e. Location of point: In the DONNELLY, J C Original Survey No. \_\_\_\_\_, Abstract No. 117, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.11367 °N, Longitude -95.544724 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014908002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 280 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 1.934 cfs or 868 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH M104-00-00; THENCE TO WILLOW CREEK;
- d. Zip Code 77389
- e. Location of point: In the BUNKER, I Original Survey No. \_\_\_\_\_, Abstract No. 110, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.132439 °N, Longitude -95.532719 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014912001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 263 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 1.092 cfs or 490 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO METZLER CREEK (HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH M109-01-00); THENCE T
- d. Zip Code 77389
- e. Location of point: In the DONNELLY, J C Original Survey No. \_\_\_\_\_, Abstract No. 117, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.13144023 °N, Longitude -95.55128301 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014923001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 11 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 0.051 cfs or 23 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO PILOT GULLY (HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K140-00-00); THE
- d. Zip Code 77375
- e. Location of point: In the PERKINS, W Original Survey No. \_\_\_\_\_, Abstract No. 177, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.021448 °N, Longitude -95.590717 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014924001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_? Presumed surface water  
unknown water right
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 358 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 1.486 cfs or 667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO SENGER GULLY; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO R
- d. Zip Code 77373
- e. Location of point: In the SCALES, A Original Survey No. \_\_\_\_\_, Abstract No. 62, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.039722 °N, Longitude -95.42197 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014936001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 314 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 1.733 cfs or 778 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77433
- e. Location of point: In the BREWSTER, J Original Survey No. \_\_\_\_\_, Abstract No. 722, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.958334 °N, Longitude -95.687189 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014964001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 2520 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 13.925 cfs or 6250 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DRAINAGE DITCH WITH A SERIES OF DETENTION PONDS; THENCE TO AN UNNAMED
- d. Zip Code 77389
- e. Location of point: In the LIMSKY, F Original Survey No. \_\_\_\_\_, Abstract No. 47, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.08847173 °N, Longitude -95.43972402 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0014973001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 224 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 1.083 cfs or 486 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA PIPE TO DRY CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO
- d. Zip Code 77354
- e. Location of point: In the BROWN, J Original Survey No. \_\_\_\_\_, Abstract No. 714, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.17550925 °N, Longitude -95.60089029 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014979001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 56 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 0.229 cfs or 103 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MONTGOMERY COUNTY DRAINAGE DITCH; THEN TO MONTGOMERY COUNTY DRAINAGE DI
- d. Zip Code 77385
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 571, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.15071527 °N, Longitude -95.43027338 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014989001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1075 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 5.942 cfs or 2667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO A POND; THENCE TO \_\_\_\_\_
- d. Zip Code 77316
- e. Location of point: In the EYLER, J Original Survey No. \_\_\_\_\_, Abstract No. 410, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.26076036 °N, Longitude -95.72150116 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0014996001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 22 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 0.123 cfs or 55 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO AN UNNAMED LAKE; THENCE TO AN UNNAMED TRIBUTARY; \_\_\_\_\_
- d. Zip Code 77340
- e. Location of point: In the COLLARD, L M Original Survey No. \_\_\_\_\_, Abstract No. 458, WALKER County, Texas.
- f. Point is at:  
Latitude 30.5712774 °N, Longitude -95.47562403 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015003001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 896 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO DECKER BRANCH; THENCE TO NEIDIGK LAKE; THENCE TO MILL CREEK; THENCE TO SPRING
- d. Zip Code 77362
- e. Location of point: In the HALE, E R Original Survey No. \_\_\_\_\_, Abstract No. 726, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14256258 °N, Longitude -95.65321728 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015012001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 549 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 3.032 cfs or 1361 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO ROCKY BRANCH, THENCE TO EAST FORK SAN JACINTO RIVER IN SEGMENT NO. 1003 OF THE
- d. Zip Code 77327
- e. Location of point: In the COLE, D Original Survey No. \_\_\_\_\_, Abstract No. 473, LIBERTY County, Texas.
- f. Point is at:  
Latitude 30.18668997 °N, Longitude -95.08184339 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015041001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1075 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 5.942 cfs or 2667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO MILL CREEK TRIBUTARY #6; THENCE TO MILL CREEK; THEN
- d. Zip Code 77316
- e. Location of point: In the STANSBURY, W Original Survey No. \_\_\_\_\_, Abstract No. 763, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.24992356 °N, Longitude -95.75429791 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015061001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 538 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 2.97 cfs or 1333 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MANMADE DITCH, THENCE TO AN UNNAMED TRIBUTARY OF TARKINGTON BAYOU, THENCE
- d. Zip Code 77327
- e. Location of point: In the HUMPHRIES, J Original Survey No. \_\_\_\_\_, Abstract No. 455, LIBERTY County, Texas.
- f. Point is at:  
Latitude 30.25158208 °N, Longitude -95.05871897 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015065001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH; THENCE TO A STORMWATER POND; THENCE TO A DRAINAGE DITCH; TH
- d. Zip Code 77357
- e. Location of point: In the FREDERICK, A P Original Survey No. \_\_\_\_\_, Abstract No. 490, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.17158967 °N, Longitude -95.19080124 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015089001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 571 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 3.157 cfs or 1417 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACIN
- d. Zip Code 77384
- e. Location of point: In the HODGE, J Original Survey No. \_\_\_\_\_, Abstract No. 661, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.26873972 °N, Longitude -95.51924459 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015090001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 55 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 0.307 cfs or 138 gpm.
- c. Name of Watercourse as shown on Official USGS maps: FROM THE PLANT SITE VIA A PIPE INTO A ROADSIDE DITCH; THENCE TO CYPRESS CREEK IN SEC
- d. Zip Code 77433
- e. Location of point: In the GARY, T Original Survey No. \_\_\_\_\_, Abstract No. 706, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.95931944 °N, Longitude -95.7121185 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015098001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 0, surface water 100 ?
  5. If any percentage is surface water, provide the base water right number(s) 4965.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 504 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 3.482 cfs or 1563 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH L163-00-00; THENCE TO LITTLE C
- d. Zip Code 77429
- e. Location of point: In the CALLIHAN, J H Original Survey No. \_\_\_\_\_, Abstract No. 911, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.987716 °N, Longitude -95.627995 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015139001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 538 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 2.97 cfs or 1333 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA A SERIES OF STORM SEWER PIPES TO THEISS GULLY; THENCE TO SPRING GULLY; THENCE
- d. Zip Code 77379
- e. Location of point: In the GC&SF RR CO Original Survey No. \_\_\_\_\_, Abstract No. 125, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.05906736 °N, Longitude -95.54415926 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015145002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO GULLEY BRANCH; THENCE TO PEACH CREEK IN SEGMENT NO. 1011 OF THE SAN JACINTO RR
- d. Zip Code 77372
- e. Location of point: In the SCH COMM WALKER CO Original Survey No. \_\_\_\_\_, Abstract No. 520, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.24440194 °N, Longitude -95.1953764 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015157001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY OF SPRING CREEK; THENCE TO SPRING CREEK IN SEGMENT NO. 1
- d. Zip Code 77354
- e. Location of point: In the MILLER, J Original Survey No. \_\_\_\_\_, Abstract No. 731, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14750026 °N, Longitude -95.58888838 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015158001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 700 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 3.877 cfs or 1740 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA A 1,000-FOOT PIPELINE TO AN UNNAMED TRIBUTARY; THENCE TO SPRING CREEK IN SEGMEI
- d. Zip Code 77375
- e. Location of point: In the MILLER, J Original Survey No. \_\_\_\_\_, Abstract No. 107, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.13139138 °N, Longitude -95.58916714 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015192001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 280 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 1.546 cfs or 694 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO EAST FORK SAN JACINTO RIVER IN SEGMENT NO. 1003 OF THE SAN JACINTO RIVE
- d. Zip Code 77357
- e. Location of point: In the HANKS, R A Original Survey No. \_\_\_\_\_, Abstract No. 485, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.17501842 °N, Longitude -95.10959051 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015218001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 269 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 1.486 cfs or 667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DITCH; THENCE TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NC
- d. Zip Code 77433
- e. Location of point: In the DUCKWORTH, J Original Survey No. \_\_\_\_\_, Abstract No. 210, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02175335 °N, Longitude -95.73075398 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

# 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  - 1. The TPDES Permit Number(s) WQ0015231001 (attach a copy of the **current** TPDES permit(s))
  - 2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
- 5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
  - 1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  - 2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  - 3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  - 4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77447
- e. Location of point: In the MC CANN, W Original Survey No. \_\_\_\_\_, Abstract No. 249, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02700548 °N, Longitude -95.79893206 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015244001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 25 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 0.136 cfs or 61 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO LITTLE CYPRESS CREEK; THENCE TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN J
- d. Zip Code 77433
- e. Location of point: In the BAHR, C Original Survey No. \_\_\_\_\_, Abstract No. 214, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.02118231 °N, Longitude -95.71696644 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015246001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 11 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 0.062 cfs or 28 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO A RETENTION POND; THENCE TO MONTGOMERY COUNTY C
- d. Zip Code 77385
- e. Location of point: In the MONTGOMERY CSL Original Survey No. \_\_\_\_\_, Abstract No. 571, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.14451359 °N, Longitude -95.4234246 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015261001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.619 cfs or 278 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO CANEY CREEK IN SEGMENT NO. 1010 OF THE SAN JACINTO
- d. Zip Code 77306
- e. Location of point: In the BRIDGES, W B Original Survey No. \_\_\_\_\_, Abstract No. 180, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.30960512 °N, Longitude -95.33237096 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015283001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 224 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 1.239 cfs or 556 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACIN
- d. Zip Code 77316
- e. Location of point: In the BRADBERRY, T C Original Survey No. \_\_\_\_\_, Abstract No. 460, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.30487766 °N, Longitude -95.77201936 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015284001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO WILLOW CREEK; THENCE TO SPRING CREEK IN SEGM
- d. Zip Code 77375
- e. Location of point: In the GOODRICH, C Original Survey No. \_\_\_\_\_, Abstract No. 140, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.07010902 °N, Longitude -95.64295165 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015288001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 448 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 2.475 cfs or 1111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BENTWOOD DIVERSION CHANNEL; THENCE TO WEST FORK SAN JACINTO RIVER IN SEGMENT
- d. Zip Code 77365
- e. Location of point: In the BIRCH, W Original Survey No. \_\_\_\_\_, Abstract No. 653, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.07179692 °N, Longitude -95.26193889 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015294001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 392 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 2.166 cfs or 972 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO PEACH CREEK IN SEGMENT NO. 1011 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77372
- e. Location of point: In the TAYLOR, W S Original Survey No. \_\_\_\_\_, Abstract No. 481, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.1936599 °N, Longitude -95.18303453 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015296001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 280 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 1.546 cfs or 694 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY; THENCE TO EAST FORK CRYSTAL CREEK; THENCE TO CRYSTAL C
- d. Zip Code 77303
- e. Location of point: In the DAVY, T P Original Survey No. \_\_\_\_\_, Abstract No. 159, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.35103814 °N, Longitude -95.37317704 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015297001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_ Presumed surface water  
unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 8 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 0.047 cfs or 21 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED DITCH; THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO
- d. Zip Code 77389
- e. Location of point: In the COOPER, J Original Survey No. \_\_\_\_\_, Abstract No. 82, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.13641768 °N, Longitude -95.50502598 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015298001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 55 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 0.303 cfs or 136 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO EAST MONTGOMERY COUNTY MUD 7 DRAINAGE DITCH; THENCE TO A STORMWATER POND;
- d. Zip Code 77357
- e. Location of point: In the FREDERICK, A P Original Survey No. \_\_\_\_\_, Abstract No. 490, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.17263293 °N, Longitude -95.19301722 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015312001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 336 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 1.856 cfs or 833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY MUD NO. 542 DRAINAGE CHANNEL; THENCE TO WILLOW CREEK; THENCE TO
- d. Zip Code 77377
- e. Location of point: In the HOBBY, W Original Survey No. \_\_\_\_\_, Abstract No. 142, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.06662302 °N, Longitude -95.71471942 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015313001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO A DETENTION BASIN; THENCE TO A DRAINAGE DITCH; THEN \_\_\_\_\_
- d. Zip Code 77386
- e. Location of point: In the O NEIL, T Original Survey No. \_\_\_\_\_, Abstract No. 620, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.13731471 °N, Longitude -95.37287683 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015317001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 70 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 0.388 cfs or 174 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77354
- e. Location of point: In the PEVEHOUSE, J Original Survey No. \_\_\_\_\_, Abstract No. 418, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.28037632 °N, Longitude -95.70523933 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015336001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 350 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 1.934 cfs or 868 gpm.
- c. Name of Watercourse as shown on Official USGS maps: DIRECTLY TO CYPRESS CREEK IN SEGMENT NO. 1009 OF THE SAN JACINTO RIVER BASIN
- d. Zip Code 77429
- e. Location of point: In the TYLER, O T Original Survey No. \_\_\_\_\_, Abstract No. 710, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.95543514 °N, Longitude -95.65366935 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015341001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 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 0.201 cfs or 90.22 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MOUND CREEK; THENCE TO LAKE CREEK IN SEGMENT NO. 1015 OF THE SAN JACINTO RIVER
- d. Zip Code 77316
- e. Location of point: In the ROGERS, R Original Survey No. \_\_\_\_\_, Abstract No. 356, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.35356963 °N, Longitude -95.66228792 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (% or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015343001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 269 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 1.486 cfs or 667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: VIA OUTFALL 001 TO WET POND #2; THENCE VIA UNDERGROUND SEWER TO WET POND #3; THE
- d. Zip Code 77389
- e. Location of point: In the WHITE, W Original Survey No. \_\_\_\_\_, Abstract No. 229, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.15638884 °N, Longitude -95.54500067 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / NY If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015349001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / NN

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / NN If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / NN  
If yes, provide the signed contract(s).
- dii. 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 84 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 0.463 cfs or 208 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO WEST FORK SPRING BRANCH; THENCE TO SPRING BRANCH; THENCE TO CANEY CREEK IN SI
- d. Zip Code 77328
- e. Location of point: In the PEEBLES, R Original Survey No. \_\_\_\_\_, Abstract No. 189, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.32998664 °N, Longitude -95.29023604 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015381001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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 100, surface water 0?
  5. If any percentage is surface water, provide the base water right number(s) \_\_\_\_\_.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 62 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 0.341 cfs or 153 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN ENCLOSED SEWER STORMWATER PIPE SYSTEM, THENCE TO CYPRESS CREEK IN SEGME
- d. Zip Code 77429
- e. Location of point: In the BURNETT, A Original Survey No. \_\_\_\_\_, Abstract No. 912, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.96119673 °N, Longitude -95.63134668 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015432001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 218 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 1.208 cfs or 542 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO LAKE HOUSTON IN SEGMENT NO. 1002 OF THE SAN JA
- d. Zip Code 77532
- e. Location of point: In the WHITLOCK, W Original Survey No. \_\_\_\_\_, Abstract No. 339, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.95361109 °N, Longitude -95.12055548 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015436001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 17 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 0.094 cfs or 42 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A ROADSIDE DITCH; THENCE TO KICKAPOO CREEK; THENCE TO SPRING CREEK IN SEGMENT
- d. Zip Code 77484
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 281, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.07930052 °N, Longitude -95.89170015 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015440001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 896 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 4.951 cfs or 2222 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO EAST FORK SAN JACINTO RIVER IN SEGMENT NO. 100
- d. Zip Code 77357
- e. Location of point: In the DUNMAN, J T Original Survey No. \_\_\_\_\_, Abstract No. 1, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.16027651 °N, Longitude -95.09913368 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015452001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 840 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 4.641 cfs or 2083 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MAPLE BRANCH; THENCE TO EAST FORK SAN JACINTO RIVER IN SEGMENT NO. 1003 OF THE
- d. Zip Code 77327
- e. Location of point: In the HOLSHOUSEN, A Original Survey No. \_\_\_\_\_, Abstract No. 467, LIBERTY County, Texas.
- f. Point is at:  
Latitude 30.19750512 °N, Longitude -95.08736142 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015454001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 54 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 0.296 cfs or 133 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO MILLER CREEK; THEI
- d. Zip Code 77331
- e. Location of point: In the FARRIS, H Original Survey No. \_\_\_\_\_, Abstract No. 133, SAN JACINTO County, Texas.
- f. Point is at:  
Latitude 30.6102778 °N, Longitude -95.25888892 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

# 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  - 1. The TPDES Permit Number(s) WQ0015460001 (attach a copy of the **current** TPDES permit(s))
  - 2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  - 5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
    - 1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
    - 2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
    - 3. Indicate how the groundwater will be conveyed to the stream or reservoir.
    - 4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
  - di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
  - dii. 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 9 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 0.049 cfs or 22 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A HARRIS COUNTY FLOOD CONTROL DISTRICT DETENTION POND; THENCE TO CYPRESS CREEK
- d. Zip Code 77429
- e. Location of point: In the CALLIHAN, J H Original Survey No. \_\_\_\_\_, Abstract No. 911, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.96347651 °N, Longitude -95.63161201 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015472001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 2352 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 12.996 cfs or 5833 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DITCH; THENCE TO WEST FORK RIVER IN SEGMENT NO. 1004 OF THE SAN JACINTO RIVER E
- d. Zip Code 77365
- e. Location of point: In the VINCE, W Original Survey No. \_\_\_\_\_, Abstract No. 617, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.12180032 °N, Longitude -95.31281649 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015483001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
    1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
    2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
    3. Indicate how the groundwater will be conveyed to the stream or reservoir.
    4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
  - di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
  - dii. 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 50 acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.
- b. Water will be discharged at this point at a maximum rate of 0.279 cfs or 125 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DITCH L120-00-00; THENCE TO LITTLE CYPRESS CREEK; T
- d. Zip Code 77484
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 281, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.0430501 °N, Longitude -95.87774239 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015490001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 672 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 3.714 cfs or 1667 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K.159-00-00, THENCE TO CYPRE
- d. Zip Code 77433
- e. Location of point: In the MERRITT, M Original Survey No. \_\_\_\_\_, Abstract No. 697, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.97121362 °N, Longitude -95.72730536 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015500001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 11 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 0.062 cfs or 28 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO BRUSHY CREEK, THENCE TO SPRING CREEK IN SEGMENT NO. 1008 OF THE SAN JACINTO RIV
- d. Zip Code 77355
- e. Location of point: In the GOHEEN, D M Original Survey No. \_\_\_\_\_, Abstract No. 805, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.11564956 °N, Longitude -95.77627243 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015537001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 560 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 3.095 cfs or 1389 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH K155-00-00; THENCE TO CYPRESS CREEK
- d. Zip Code 77447
- e. Location of point: In the HAMERIDGE, J Original Survey No. \_\_\_\_\_, Abstract No. 960, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.00488419 °N, Longitude -95.78728217 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015557002 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 112 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 0.619 cfs or 278 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO MONTERREY OAKS DETENTION POND; THENCE TO A ROADSIDE DITCH; THENCE TO HIGHTOV
- d. Zip Code 77328
- e. Location of point: In the LAWRENCE, M B Original Survey No. \_\_\_\_\_, Abstract No. 82, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.28649527 °N, Longitude -95.15771143 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015578001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 13 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 0.074 cfs or 33 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DETENTION POND L502-01; THENCE TC
- d. Zip Code 77429
- e. Location of point: In the CALLIHAN, J H Original Survey No. \_\_\_\_\_, Abstract No. 911, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.97525897 °N, Longitude -95.64410019 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015581001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 23 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 0.127 cfs or 57 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE DITCH; THENCE TO TARKINGTON BAYOU; THENCE TO LUCE BAYOU; THENCE TO
- d. Zip Code 77371
- e. Location of point: In the KINCAID, D G Original Survey No. \_\_\_\_\_, Abstract No. 328, SAN JACINTO County, Texas.
- f. Point is at:  
Latitude 30.44415211 °N, Longitude -95.03111392 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015596001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 728 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 4.024 cfs or 1806 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY (HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) DITCH K165
- d. Zip Code 77447
- e. Location of point: In the BULRIECE, M C Original Survey No. \_\_\_\_\_, Abstract No. 976, HARRIS County, Texas.
- f. Point is at:  
Latitude 29.97236683 °N, Longitude -95.78219933 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015616001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1512 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 8.355 cfs or 3750 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A MAN-MADE CHANNEL; THENCE TO AN UNNAMED TRIBUTARY; THENCE TO WEST FORK SAN
- d. Zip Code 77302
- e. Location of point: In the STATE OF TEXAS Original Survey No. \_\_\_\_\_, Abstract No. 555, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.20607033 °N, Longitude -95.34224554 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015644001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 784 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 4.336 cfs or 1946 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO AN UNNAMED TRIBUTARY, THENCE TO LITTLE CYPRESS CREEK, THENCE TO CYPRESS CREEK
- d. Zip Code 77447
- e. Location of point: In the LONG, L Original Survey No. \_\_\_\_\_, Abstract No. 241, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.05347906 °N, Longitude -95.75843544 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015646001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1092 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 6.033 cfs or 2708 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A DRAINAGE DITCH; THENCE TO AN UNNAMED TRIBUTARY OF LUCE BAYOU; THENCE TO LUCE
- d. Zip Code 77357
- e. Location of point: In the DUNMAN, J T Original Survey No. \_\_\_\_\_, Abstract No. 479, LIBERTY County, Texas.
- f. Point is at:  
Latitude 30.15678785 °N, Longitude -95.08035067 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
1. The TPDES Permit Number(s) WQ0015683001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) unknown water right Presumed surface water.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 1109 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 5.57 cfs or 2500 gpm.
- c. Name of Watercourse as shown on Official USGS maps: TO A HARRIS COUNTY FLOOD CONTROL DISTRICT DITCH L114-01-00; THENCE TO HARRIS COUN
- d. Zip Code 77447
- e. Location of point: In the HARRIS CSL Original Survey No. \_\_\_\_\_, Abstract No. 279, HARRIS County, Texas.
- f. Point is at:  
Latitude 30.04415633 °N, Longitude -95.79333366 °W.  
***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## 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 Multi use.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses 5 (%) or amount) and explain the method of calculation: Estimated Evaporative loss per previous TCEQ permitting actions.
- c. Is the source of the discharged water return flows? Y / N Y If yes, provide the following information:
  1. The TPDES Permit Number(s) WQ0015685001 (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? Y / N N

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, 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, the surface water right holder, or the contract holder, 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<sup>0</sup> \_\_\_\_\_, surface water<sup>100</sup> \_\_\_\_\_?
  5. If any percentage is surface water, provide the base water right number(s) Presumed surface water unknown water right.
- d. Is the source of the water being discharged groundwater? Y / N N If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: \_\_\_\_\_
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>. Additionally, provide well numbers or identifiers \_\_\_\_\_.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? Y / N N  
If yes, provide the signed contract(s).
- dii. 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 448 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 2.475 cfs or 1111 gpm.
- c. Name of Watercourse as shown on Official USGS maps: \_\_\_\_\_
- d. Zip Code 77302
- e. Location of point: In the T&NO RR CO Original Survey No. \_\_\_\_\_, Abstract No. 534, MONTGOMERY County, Texas.
- f. Point is at:  
Latitude 30.23684773 °N, Longitude -95.32159932 °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): GIS

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

## Addendum to Worksheet 5.0

# Addendum to Worksheet 5.0

## Alternate Sources of Water: TPDES Permit Numbers

TPDES Permit Number	Issue Date	TPDES Permit Number	Issue Date	TPDES Permit Number	Issue Date
WQ0014979001	3/13/2018	WQ0012242001	8/12/2020	WQ0015012001	1/29/2020
WQ0011964001	5/4/2018	WQ0012248001	8/21/2018	WQ0014606001	3/14/2018
WQ0014755001	12/17/2018	WQ0014638001	12/13/2017	WQ0014907001	5/9/2018
WQ0011988002	4/26/2018	WQ0012382001	8/16/2018	WQ0013152001	5/16/2018
WQ0011988003	3/21/2018	WQ0014901001	4/16/2018	WQ0013296002	5/9/2018
WQ0011993001	12/3/2017	WQ0004249000	4/1/2019	WQ0013569001	9/24/2013
WQ0004879000	12/4/2018	WQ0011933001	8/13/2018	WQ0014662001	9/11/2018
WQ0011618003	3/26/2018	WQ0011939001	7/12/2018	WQ0013389001	9/14/2017
WQ0011630001	2/4/2019	WQ0011941001	5/9/2018	WQ0012851001	9/13/2018
WQ0011715001	7/27/2018	WQ0011970001	4/18/2018	WQ0013059001	2/5/2018
WQ0014903001	5/27/2020	WQ0014285001	5/11/2017	WQ0010310001	10/24/2018
WQ0011886001	3/15/2018	WQ0014311001	9/18/2017	WQ0010315001	2/11/2019
WQ0014964001	7/6/2018	WQ0013819001	6/7/2018	WQ0013472001	9/13/2018
WQ0011799001	5/14/2018	WQ0015003001	6/7/2018	WQ0014912001	9/13/2018
WQ0011814001	5/14/2018	WQ0013875002	4/26/2018	WQ0013526001	8/14/2019
WQ0011820001	10/8/2020	WQ0013881001	2/15/2018	WQ0013527001	1/12/2017
WQ0011832001	6/14/2018	WQ0013893001	4/26/2018	WQ0014996001	7/24/2018
WQ0011844001	8/14/2018	WQ0014028001	5/29/2019	WQ0012519001	6/7/2018
WQ0011855001	5/29/2020	WQ0014029001	9/26/2017	WQ0012579001	12/23/2019
WQ0014643001	3/19/2018	WQ0014030001	12/21/2018	WQ0012587001	12/11/2017
WQ0014711001	9/12/2017	WQ0013942001	5/14/2018	WQ0012600001	5/17/2018
WQ0014973001	5/9/2018	WQ0013985001	9/5/2018	WQ0012614001	2/5/2018
WQ0014908002	5/14/2018	WQ0014007001	5/22/2018	WQ0012621001	8/18/2017
WQ0012650001	10/4/2017	WQ0014013001	4/16/2018	WQ0012637001	7/23/2018
WQ0012670001	8/18/2017	WQ0010616001	8/7/2018	WQ0012643001	5/22/2018
WQ0012730001	5/23/2018	WQ0010616002	8/13/2018	WQ0011395001	8/21/2018
WQ0012761001	5/24/2018	WQ0013619001	4/16/2018	WQ0011404001	3/29/2018
WQ0012274001	6/15/2017	WQ0013625001	3/26/2018	WQ0011406001	5/9/2018
WQ0012303001	3/12/2018	WQ0014650001	10/12/2018	WQ0011410002	3/29/2018
WQ012327001	7/3/2018	WQ0013636001	4/12/2016	WQ0011437001	11/26/2013
WQ0012378002	3/26/2018	WQ0013638001	6/7/2017	WQ0011444001	4/9/2019
WQ0012204001	9/8/2017	WQ0013648001	5/17/2018	WQ0014181001	5/22/2018
WQ0012205001	12/20/2017	WQ0013700001	11/5/2019	WQ0014193001	8/8/2018
WQ0012212002	10/24/2018	WQ0013753001	3/21/2018	WQ0014091001	8/21/2018
WQ0012224001	3/15/2018	WQ0013760001	12/20/2018	WQ0014656001	4/26/2018
WQ0012239001	3/12/2018	WQ0013765001	4/9/2018	WQ0011574001	6/28/2018

<b>TPDES Permit Number</b>	<b>Issue Date</b>	<b>TPDES Permit Number</b>	<b>Issue Date</b>	<b>TPDES Permit Number</b>	<b>Issue Date</b>
WQ0011580001	10/12/2018	WQ0010955001	4/16/2018	WQ0011089001	3/21/2018
WQ0002502000	9/5/2018	WQ0010962001	2/28/2019	WQ0011097001	9/6/2018
WQ0002642000	2/26/2019	WQ0014327001	2/5/2018	WQ0011105001	1/29/2020
WQ0014886001	10/4/2018	WQ0014347001	10/17/2018	WQ0011142002	5/18/2018
WQ0014923001	10/17/2018	WQ0014908001	5/9/2018	WQ0011143002	3/6/2019
WQ0014218001	10/4/2018	WQ0014476001	8/31/2018	WQ0010530001	8/8/2018
WQ0010857001	7/31/2018	WQ0014482001	10/3/2018	WQ0002475000	9/6/2018
WQ0014542001	7/7/2018	WQ0014491001	3/15/2018	WQ0014576001	3/26/2018
WQ0014675001	7/7/2018	WQ0010978001	9/20/2018	WQ0014166001	1/31/2018
WQ0015090001	4/30/2018	WQ0005185000	4/4/2019	WQ0014172001	9/14/2018
WQ0014032001	10/15/2020	WQ0014448001	10/17/2018	WQ0011267001	3/12/2018
WQ0002365000	10/4/2018	WQ0014081001	2/21/2018	WQ0010766001	7/12/2018
WQ0015089001	12/21/2017	WQ0015317001	11/18/2019	WQ0010766002	8/21/2018
WQ0015139001	3/26/2018	WQ0012979004	4/26/2018	WQ0010783001	2/15/2018
WQ0015192001	12/17/2018	WQ0013020001	3/21/2018	WQ0014597001	10/17/2017
WQ0010908001	4/9/2018	WQ0015065001	6/13/2017	WQ0015313001	11/19/2018
WQ0010910001	5/9/2018	WQ0014814001	3/9/2018	WQ0014354001	4/9/2018
WQ0011900001	1/29/2019	WQ0014106001	2/15/2018	WQ0011141001	6/12/2018
WQ0011912002	8/13/2018	WQ0014671001	9/6/2018	WQ0011988001	5/16/2018
WQ0011913001	3/14/2018	WQ0015294001	4/23/2019	WQ0015098001	3/26/2018
WQ0012877001	4/16/2018	WQ0015381001	2/26/2019	WQ0011824003	3/26/2018
WQ0012898001	5/22/2018	WQ0011366001	2/9/2018	WQ0011835001	8/13/2018
WQ0015261001	1/3/2019	WQ0011386001	8/18/2017	WQ0011824002	8/13/2018
WQ0015246001	9/13/2018	WQ0014114001	7/26/2018	WQ0012025002	2/15/2018
WQ0015157001	5/9/2018	WQ0014116001	12/11/2017	WQ0012044001	7/16/2018
WQ0015158001	2/13/2018	WQ0014124001	11/20/2017	WQ0011925001	3/21/2018
WQ0015218001	2/21/2018	WQ0014133001	10/12/2018	WQ0013573001	4/6/2018
WQ0011630002	4/16/2018	WQ0014141001	3/5/2018	WQ0011409001	5/14/2018
WQ0014586001	9/6/2018	WQ0011215001	4/25/2018	WQ0011314001	3/18/2020
WQ0014379001	1/31/2018	WQ0011020001	7/27/2017	WQ0011024001	2/13/2018
WQ0012470001	2/15/2018	WQ0011020002	6/2/2017	WQ0011239001	4/9/2018
WQ0015288001	8/30/2018	WQ0011044001	3/15/2018	WQ0014936001	2/15/2018
WQ0015298001	5/30/2018	WQ0014523001	7/23/2019	WQ0015644001	1/18/2019
WQ0015312001	3/8/2018	WQ0014531001	12/21/2018	WQ0015646001	10/17/2018
WQ0014421001	3/14/2018	WQ0015061001	4/10/2020	WQ0015815001	5/27/2020
WQ0014434001	6/12/2018	WQ0014604001	8/28/2018	WQ0014624001	10/7/2019
WQ0014441001	3/21/2019	WQ0011081001	3/26/2018	WQ0014799001	5/14/2019
WQ0015341001	2/9/2016	WQ0011084001	3/29/2018	WQ0014828001	2/15/2018
WQ0015349001	5/14/2018	WQ0014536001	9/26/2017	WQ0014989001	2/21/2018

TPDES Permit Number	Issue Date	TPDES Permit Number	Issue Date	TPDES Permit Number	Issue Date
WQ0014305001	12/11/2017	WQ0015578001	2/15/2018	WQ0014700001	5/3/2021
WQ0014592001	4/1/2019	WQ0014414001	7/13/2018	WQ0015596001	3/19/2018
WQ0013653001	5/23/2018	WQ0015343001	12/21/2015	WQ0015616001	12/4/2018
WQ0000575000	10/16/2019	WQ0013711002	5/26/2020	WQ0015557002	10/17/2018
WQ0014924001	2/14/2019	WQ0011404002	5/14/2020	WQ0015145002	9/11/2018
WQ0015041001	11/19/2018	WQ0015283001	3/15/2018	WQ0015685001	12/4/2018
WQ0012456002	7/19/2019	WQ0015336001	8/8/2018	WQ0015689001	3/27/2019
WQ0015745001	8/30/2019	WQ0015436001	4/10/2020	WQ0015683001	5/3/2019
WQ0015746001	9/10/2019	WQ0015432001	5/8/2020	WQ0015691001	6/12/2019
WQ0015742001	3/17/2020	WQ0015454001	3/17/2020	WQ0015794001	3/11/2020
WQ0014862001	3/13/2018	WQ0015460001	3/21/2018	WQ0015783001	1/28/2020
WQ0015244001	6/28/2018	WQ0015452001	9/8/2017	WQ0015851001	8/11/2020
WQ0013690002	6/21/2019	WQ0015483001	4/3/2020	WQ0015795001	5/22/2020
WQ0005111000	6/30/2015	WQ0015490001	7/2/2020	WQ0015800001	1/6/2020
WQ0015765001	2/10/2020	WQ0015500001	4/3/2020	WQ0015819001	7/30/2020
WQ0015231001	4/26/2018	WQ0015472001	12/29/2016	WQ0015830001	5/29/2020
WQ0015284001	4/16/2018	WQ0015537001	9/21/2017	WQ0015779001	12/4/2019
WQ0015296001	6/14/2018	WQ0015440001	7/31/2019	WQ0015834001	8/19/2020
WQ0015297001	7/13/2018	WQ0015581001	2/15/2018	WQ0015829001	5/28/2020

## Quadrangle Maps

Map Legend



TPDES Discharge Location

Diversion Location Perimeter Lake Houston

## Addendum to Worksheet 6.0

- City of Houston's Water Conservation and Drought Contingency Plan (WCP DCP\2019\_water\_conservation\_plan\_01132020.pdf)
- Additional information regarding Houston's Water Conservation Plan.

## **ADDENDUM: HOUSTON'S WATER CONSERVATION PLAN**

The City will make use of this new appropriation of return flows as another component of its overall water supply, as a major regional water supplier, for meeting the growing needs of its retail and wholesale customers. At the time of adopting its current (2019) Water Conservation Plan (WCP), the projected size of Houston's total served population by year 2070 was 6.2 million. (WCP at 5). The latest (2021) Region H Regional Water Plan now estimates Houston's Major Water Provider Demand to grow from approximately 1.2 million acre-feet/year in 2020 to approximately 1.6 million acre-feet/year in 2070.<sup>1</sup> With this extent of growing demand, the City must pursue the fullest possible range of conservation strategies, both development of water resources and implementation of various practices, techniques and technologies that reduce consumption and waste, improve efficiency, and increase recycling and reuse. *Cf.* TEX. WATER CODE § 11.002(8)(A), (B).

The City's conservation goals and targets set out in its current WCP apply to the City's use of all its sources of water supply, including the proposed new appropriation of return flows in the San Jacinto Basin. Houston's implementation of conservation programs has yielded significant results. As of 2019, Houston exceeded its prior plan (2014 WCP) goal for GPCD reduction: While the 2014 five-year target was reduction to 141.7 GPCD and the ten-year target was reduction to 139.4 GPCD, even with significant population growth the City achieved by 2019 a reduction in total GPCD (and a new baseline) of 129 GPCD. Houston continues to work toward further reduction in its total GPCD and residential GPCD over the next five years, consistent with the target adopted by the Region H Water Planning Group. (WCP at 12). Since the adoption of its current WCP, the City has implemented, continued, or even expanded each of its various identified conservation programs that contribute to the City's achieving its conservation targets, including programs for both retail and wholesale customers, and various education and outreach programs. (*See* WCP at 13-21, 23, 25-26, 27-30). The City has also established a Water Conservation Division within Houston Water, which oversees implementation of programming designed to achieve the City's GPCD and water loss reduction targets. (WCP at 22). Even beyond the programs existing and described in Houston's 2019 WCP, since then the City has implemented additional conservation programs, such as a Smart Utility Check Up program for commercial customers and several new outreach and social media strategies. 30 TAC 288.7(a)(1), (a)(2).

Because this proposed new appropriation involves Houston's diversion and use of unappropriated return flows, this indirect reuse will enhance the City's overall water conservation strategy. The 2016 Region H Regional Water Plan called for just 9.6% of the region's future additional supplies to be met through municipal conservation; thus, Major Water Providers like Houston must implement conservation along with other water strategies. The City has evaluated its current application for new appropriation of return flows in relation to other feasible alternatives to this new water development, and concluded that this indirect reuse component is an important, more cost-effective part of its overall strategy to meet growing customer demands. This is reflected in the 2021 Region H Regional Water Plan, which includes City of Houston Reuse as among the key projects selected as part of Region H's recommended water strategies. In comparison to two other Region H key projects, Municipal Conservation

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<sup>1</sup> TWDB, *Region H 2021 Regional Water Plan*, Appendix 2-A, Table 2-A2.

(Advanced Conservation) and Municipal Conservation (Water Loss Reduction), City of Houston Reuse has a potential volume of 242,554 af/yr, but substantially lower unit costs than either of these municipal conservation project categories. Specifically, for City of Houston Reuse the estimated unit cost (\$/af) is \$373 in the starting decade, and drops to \$139 by year 2070. The corresponding estimated unit costs for Municipal Advanced Conservation and Municipal Water Loss Reduction for those timeframes are \$754 and \$591, and \$625 and \$578, respectively.<sup>2</sup> Thus, while the City will continue to implement and improve its water conservation and water loss reduction strategies, those programs alone are not a feasible substitute for the City also developing new water supplies such as the indirect reuse authorization sought in this application. 30 TAC 288.7(a)(3).

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<sup>2</sup> TWDB, *Region H 2021 Regional Water Plan*, at 5-17 to 5-19 (Table 5-5 – Key Project Overview); *see also* Appendix DB to Region H 2021 Regional Water Plan, *Region H Recommended Water User Group (WUG) Water Management Strategies (WMS)*, at pp. 18-19 (setting out estimated unit costs for 2020 and 2070, and projected supplies for each decade, for each WMS identified for the City of Houston).

# WATER RESOURCE MANAGEMENT AND WATER RIGHTS

Date: May 25, 2021  
Project No.: 10603B00

City of Houston

**Prepared By:** Michael Pinckney, P.E.  
**Reviewed By:** David Harkins, Ph.D., P.E., Phil Bullock, P.E.  
**Subject:** Modeling of San Jacinto Basin Reuse Upstream of Lake Houston

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This memorandum was developed to describe the water availability modeling necessary to support the City of Houston's (City) application for a new appropriation of return flows in the San Jacinto River Basin totaling 204,931 ac-ft/yr (194,684 ac-ft/yr after assumed channel losses) of water, supported by 286 return flow discharges located in the watershed downstream of Lake Conroe and upstream of Lake Houston. The City is seeking to use these return flows to protect inflows for Lake Houston and develop additional water supplies within the San Jacinto River Basin. The proposed appropriation is junior to the SB<sub>3</sub> environmental flows, which are already modeled in the San Jacinto Water Availability Model (WAM) Run<sub>3</sub> available from the Texas Commission on Environmental Quality's (TCEQ) water rights permitting webpage. The San Jacinto WAM Run 3 dated September 24, 2014 was obtained from the TCEQ and used as the base model.

## Water Availability Model

In order to identify and characterize the potentially available return flows, Carollo Engineers (Carollo) obtained, from the TCEQ, a shapefile representing the Texas Pollutant Discharge Elimination System (TPDES) permitted discharge locations within the San Jacinto River Basin. The shapefile of TPDES discharge locations also includes the associated TPDES permit number for each discharge location. Carollo then identified all of the WWTP discharge points that are located upstream of and contribute flow to Lake Houston. For those discharges located upstream of Lake Houston, a digital copy of each TPDES permit was obtained from TCEQ and the most recent 5-years of historical discharge data were obtained from the Environmental Protection Agency (EPA). This information was utilized to identify the owner of the discharged water and to characterize the actual discharge of return flows that have occurred. The owners of the TPDES permit were then queried against public water supply data to determine if the return flows were derived from groundwater or surface water, and in the case of surface water from which water right the surface water originated. This information has been collected to identify and characterize the location, amount, and type of return flow discharge so that the return flows can be added to the WAM.

In the WAM each return flow discharge is modeled to enter the watercourse of the San Jacinto River Basin at a model location as close to the physical location as possible. The WAM utilizes control points to model the connectivity of the tributaries within the river basin and to model USGS gages, diversions, impoundments and inflows into the river basin. In the San Jacinto WAM there are no channel losses included within the model, thus new control points do not have to be created for each of the diversion locations. However, when inserting return flows at locations other than their physical discharge location it must be confirmed that no

## PROJECT MEMORANDUM

existing water right diversions are located between the physical discharge location and the modeled discharge location as the water right has a potential legal right to the discharge water.

A geospatial analysis of the discharge locations with the GIS coverage of water right locations in the WAM was performed to confirm that no interjacent water rights are effected by modeling the return flow entry at the nearest downstream control point. Appendix A contains a table of control points at which the return flows are modeled and a listing of any upstream and downstream water rights. Appendix A also contains watershed schematics of WAM control points and water right locations (denoted by green dots) and the permitted discharge locations (denoted by red dots), demonstrating the physical location of discharges relative to water right locations. The analysis did not indicate that grouping of discharges to the nearest downstream control point impacted any interjacent water rights from access to return flows.

The return flow volumes were added to the San Jacinto WAM Run 3 for the purposes of evaluating the requested new appropriation. Each individual discharge, for which historical data was collected, has been added to the model based on the source of water (groundwater or surface water) one of two ways. First, if the source water of the discharge is groundwater, then the discharge is added to the model at the beginning of the priority loop using a constant inflow (CI) record. Second, if the source water of the discharge is surface water, then the discharge is added to the model using a water right (WR) record of type 4 combined with a target series (TS) record identifying the monthly discharge volume. Surface water return flows utilize the WR record so that the return flows enter the system at the designated priority date of the source water. Groundwater return flows utilize the CI record as groundwater is considered an imported supply and modeled to enter the system at the beginning of the water right priority loop. The monthly discharge volumes modeled in the CI and TS records are derived from the historically reported minimum discharges per month for the five-year period (2015 – 2019) averaged to a per month minimum discharge.

The following are examples of the WAM code that has been added to the TCEQ WAM Run 3 to create the proposed condition model.

For groundwater based discharges the following example code modification was added to the WAM model in the CI code block because these inflows are added at the beginning of the model priority loop:

```
CIA3980A    2.06    1.73    1.79    1.46    1.4    1.19    1.08    1.24    1.31    0.94
1.3    1.12
```

For surface water based discharges the following example code modification was added to the WAM in the WR code block because these inflows are modeled to enter the system at a specific priority date:

```
WRA3980A    0    XMONTH19400507    4                                WWTX0046728
TS    ADD    1996    108.88    94.44    107.93    105.92    113.31    106.49    97.79    120.16    103.23
110.89    102.66    107.06
```

This example code is tailored to each of the individual return flow discharges to model the return flows supporting this water right application. The following WAM code was added to model the requested diversion:

```
WRA4964A    194684    COHRE120211201    1                                61009999001
PX    3
```

See Appendix B for a printout of all the WAM modifications made to model this water right application. The modeling of this water right application and its use of return flows with varied monthly discharge rates is performed using the following assumptions:

PROJECT MEMORANDUM

- A priority date of 12/1/2021, making the proposed diversion junior to existing water rights and the SB3 environmental flow criteria.
- Diversions are based on a monthly pattern reflective of the historical discharges:

UCCOHR1	0.085	0.074	0.082	0.082	0.089	0.084
UC	0.079	0.089	0.081	0.079	0.093	0.084

**Impacts on Other Water Rights and Environmental Flows**

The proposed diversion is dependent upon the availability of the requested return flow discharges, thus no negative impacts to water availability in the basin are expected as WAM Run 3 does not include return flows. Comparison of the model results for the proposed diversion versus the baseline WAM suggest that there are no negative impacts to water right reliability (including interjacent water rights) within the river basin. A table summarizing the water right reliability for each water right in the river basin is provided in Appendix C. Figure 1 presents the modeled time series of storage in Lake Houston and Figure 2 presents the storage frequency.

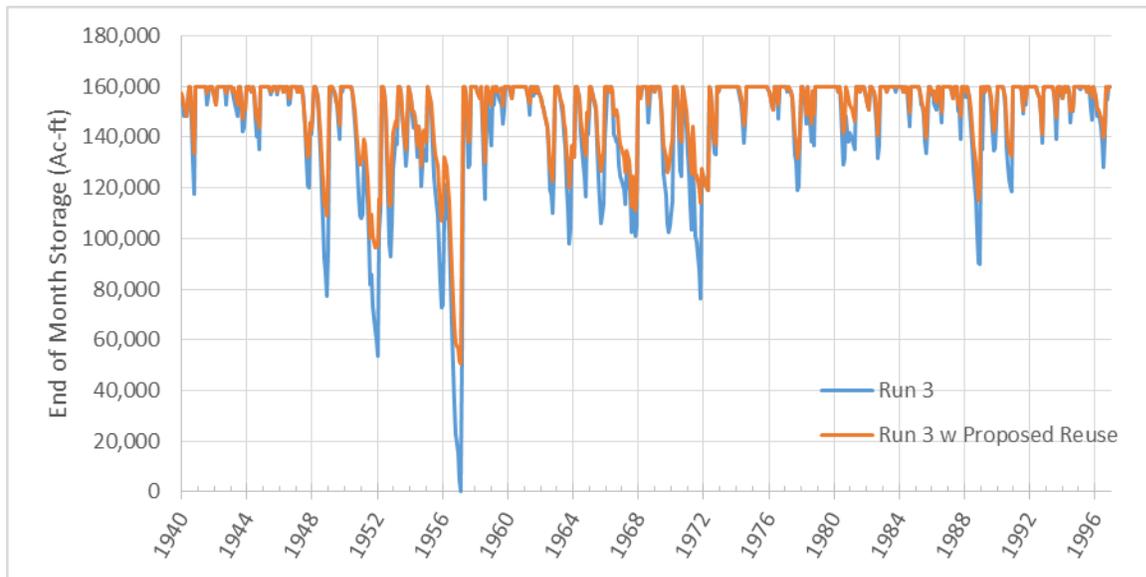


Figure 1 Lake Houston Storage – Baseline WAM and Proposed Diversion

PROJECT MEMORANDUM

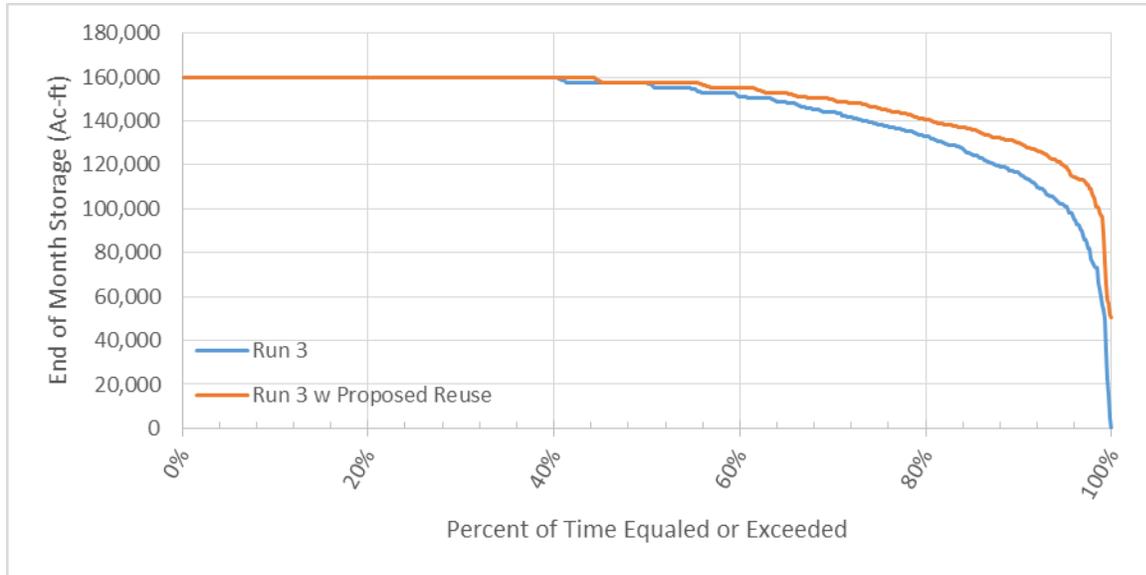


Figure 2 Lake Houston Storage Frequency – Baseline WAM and Proposed Diversion

In addition to the Senate Bill 3 Environmental Flow Criteria already modeled in WAM Run 3, the proposed water right application must also meet Bay and Estuary freshwater inflow volume and frequency requirements in accordance with Texas Administrative Code (TAC) §298.225(a). This requirement identifies 3 levels of inflow and achievement frequencies for each season and annually. The seasons as defined in TAC §298.205 are Fall – the period of time September through November, Winter – the period of time December through February, Spring – the period of time March through May, and Summer – the period of time June through August, inclusive. Table 1 presents the Bay and Estuary Achievement summary for the original WAM Run 3 and the proposed water right diversion. As can be seen in Table 1, the baseline WAM meets or exceeds all of the volume and frequency requirements. Review of the bay and estuary targets with the reuse application modeled also show that the frequency requirements have been met or exceeded. More specifically, the proposed application shows a small reduction in the Level 2 Spring and Level 3 Spring attainment frequencies. There is a reduction of two months in the Level 2 Spring attainment, and a reduction of one month in the Level 3 Spring attainment. While small reductions in attainment are noted from the baseline WAM, the proposed application meets or exceeds the attainment frequency criteria.

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Baseline WAM

Level 1					Level 2					Level 3				
Season	Season Criteria	Attainment Frequency Criteria	Application Months Attained	Application Frequency	Season	Season Criteria	Attainment Frequency Criteria	Application Months Attained	Application Frequency	Season	Season Criteria	Attainment Frequency Criteria	Application Months Attained	Application Frequency
Winter	123,000	60%	48	84%	Winter	278,000	50%	33	58%	Winter	450,000	40%	26	46%
Spring	155,000	60%	40	70%	Spring	290,000	50%	33	58%	Spring	500,000	40%	24	42%
Summer	75,000	60%	42	74%	Summer	100,000	50%	33	58%	Summer	220,000	40%	24	42%
Fall	90,000	60%	40	70%	Fall	150,000	50%	33	58%	Fall	200,000	40%	26	46%
Annual	703,699	75%	43	75%	Annual	1,164,408	60%	37	65%	Annual	1,460,424	50%	29	51%

Proposed Diversion

Level 1					Level 2					Level 3				
Season	Season Criteria	Attainment Frequency Criteria	Application Months Attained	Application Frequency	Season	Season Criteria	Attainment Frequency Criteria	Application Months Attained	Application Frequency	Season	Season Criteria	Attainment Frequency Criteria	Application Months Attained	Application Frequency
Winter	123,000	60%	48	84%	Winter	278,000	50%	35	61%	Winter	450,000	40%	26	46%
Spring	155,000	60%	40	70%	Spring	290,000	50%	31	54%	Spring	500,000	40%	23	40%
Summer	75,000	60%	42	74%	Summer	100,000	50%	35	61%	Summer	220,000	40%	24	42%
Fall	90,000	60%	41	72%	Fall	150,000	50%	33	58%	Fall	200,000	40%	26	46%
Annual	703,699	75%	43	75%	Annual	1,164,408	60%	37	65%	Annual	1,460,424	50%	29	51%

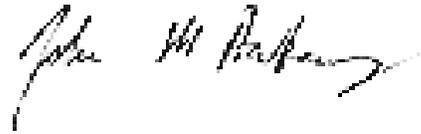
Table 1 Bay and Estuary Achievement Summary – Baseline WAM and Proposed Application Scenario

## PROJECT MEMORANDUM

### Conclusions

The City is seeking an application for a new appropriation of return flows in the San Jacinto River Basin totaling 204,931 ac-ft/yr (194,684 ac-ft/yr after assumed channel losses) of water, supported by 286 return flow discharges located in the watershed downstream of Lake Conroe and upstream of Lake Houston. A WAM model has been developed to model the effects of the proposed water right on other water rights in the basin and on impacts to the achievement of bay and estuary inflow volume and achievement frequency requirements. The model results of the proposed water right demonstrates that due to the inclusion of in-basin return flows there are no negative impacts to existing water rights. Furthermore, there is a minimal impact to the achievement of the bay and estuary inflow requirements, with slight reductions in the number of times the requirement was achieved occurring the spring season for the higher inflow levels. In conclusion, the proposed water right could be granted without impacting other water rights and continue to meet environmental flow requirements.

Prepared by:



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Michael Pinckney, P.E.

MP:th

PROJECT MEMORANDUM

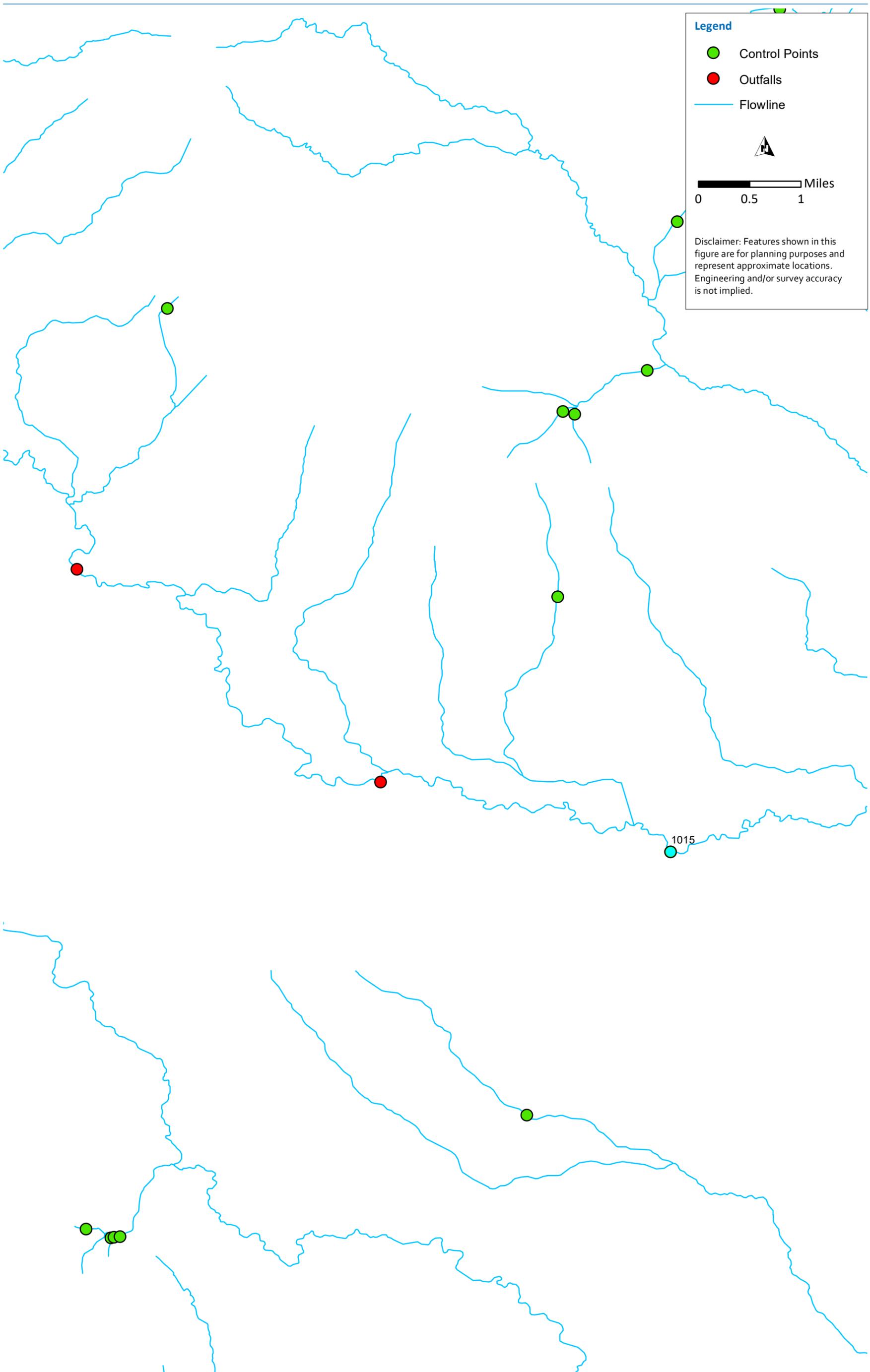
Appendix A

## RETURN FLOW DISCHARGE GROUPING









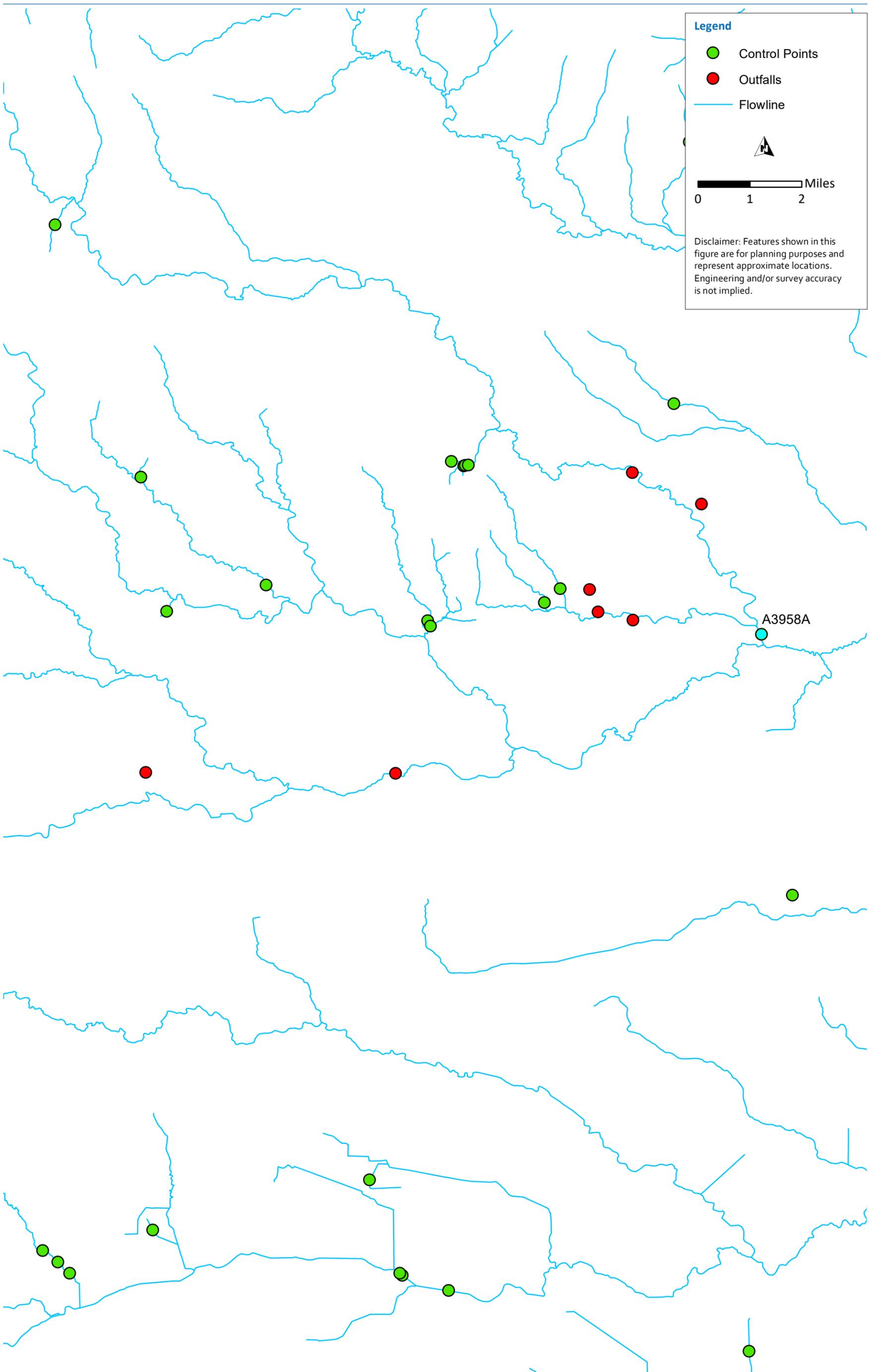
**Legend**

- Control Points
- Outfalls
- Flowline

▲ North Arrow

0 0.5 1 Miles

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.



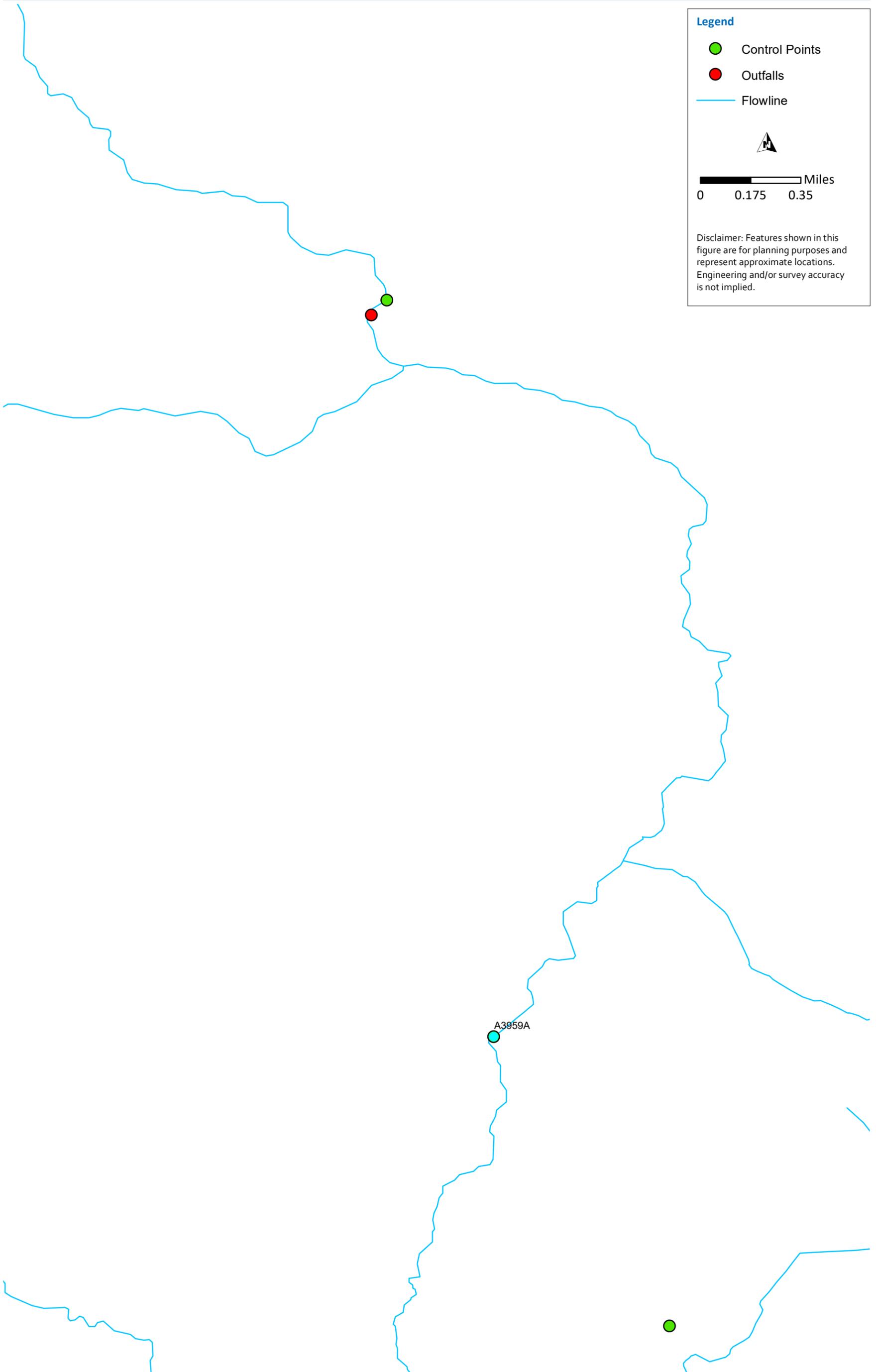
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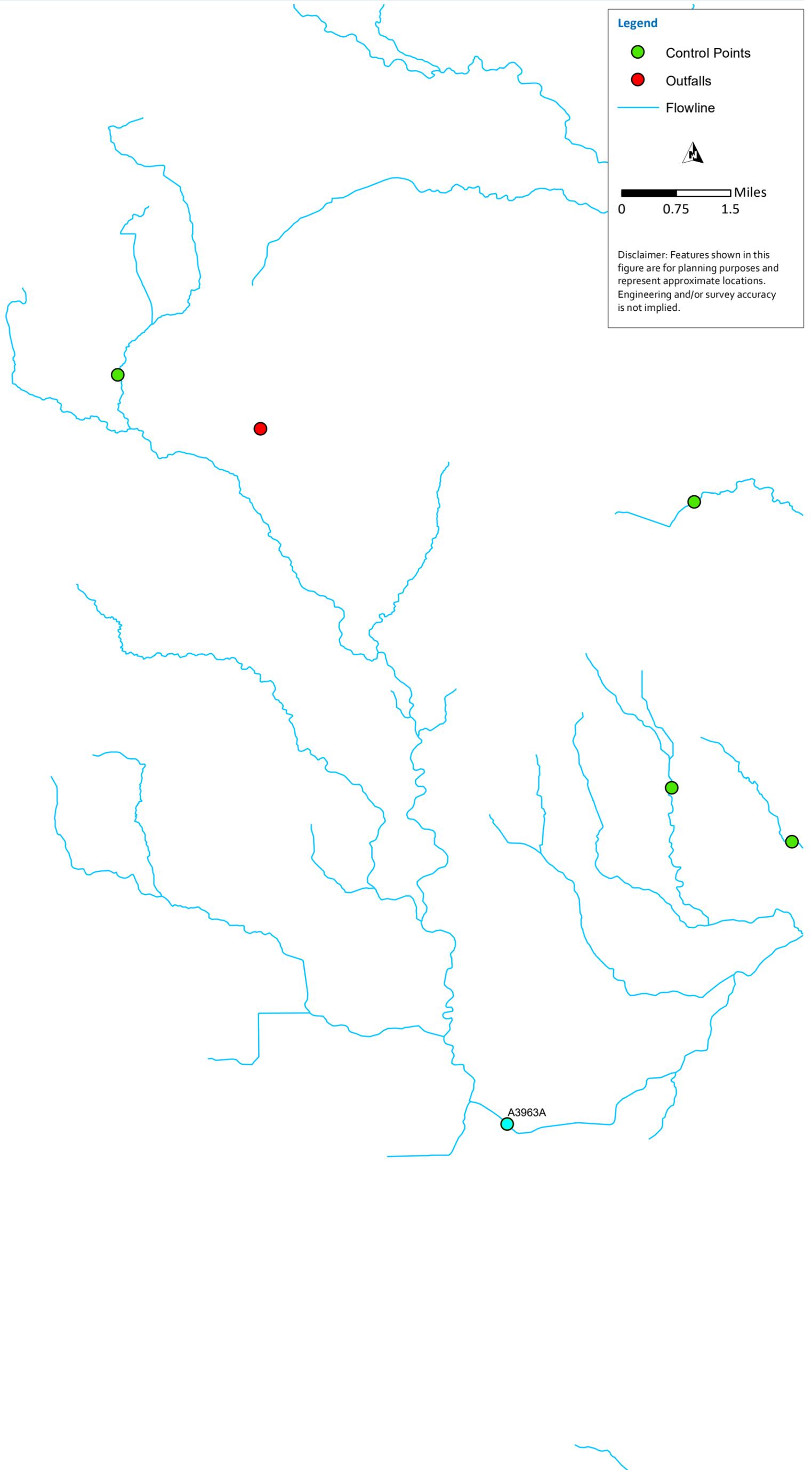
- Control Points
- Outfalls
- Flowline

▲ North Arrow

0 1 2 Miles

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.





**Legend**

- Control Points
- Outfalls
- Flowline



0 0.75 1.5 Miles

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.

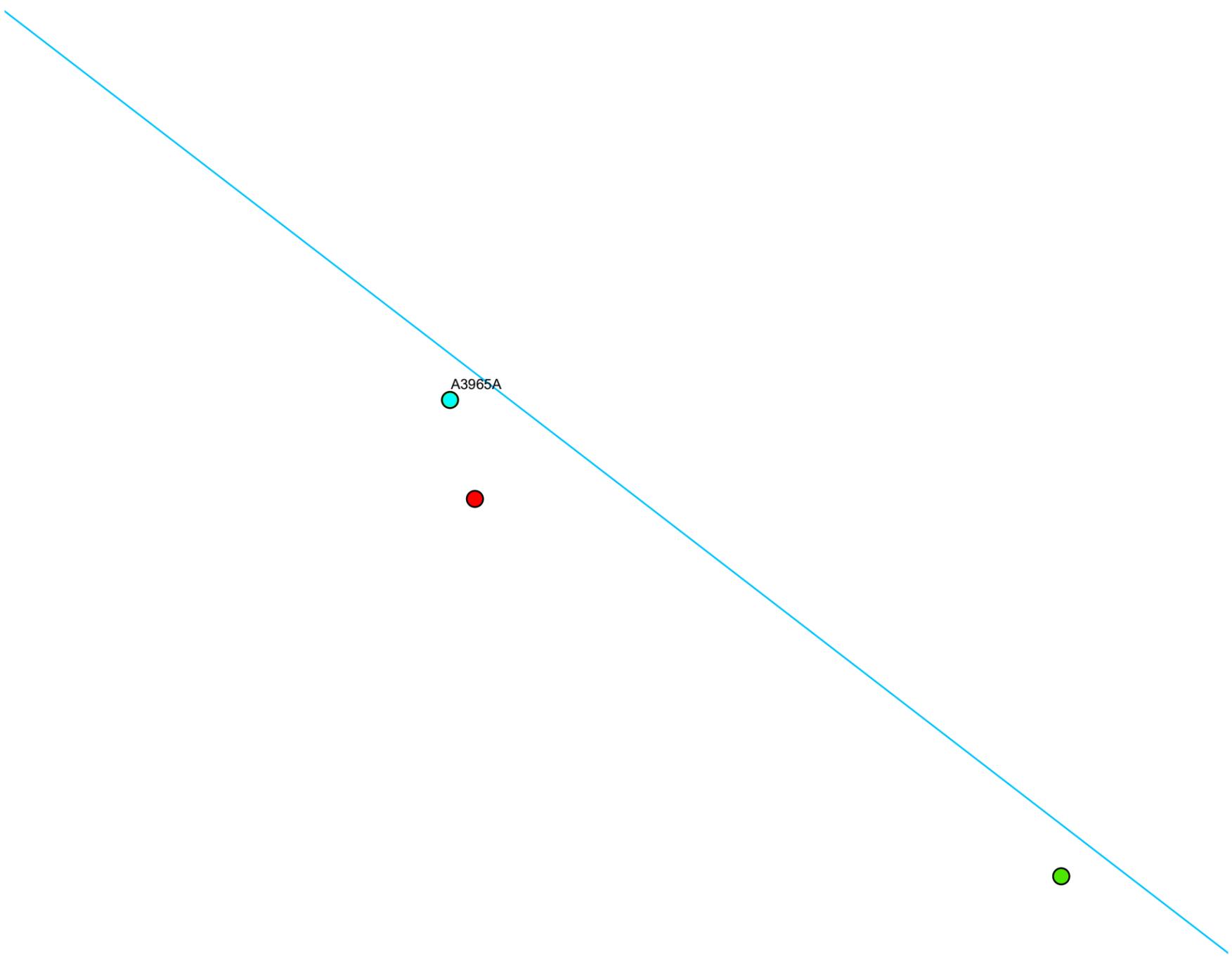
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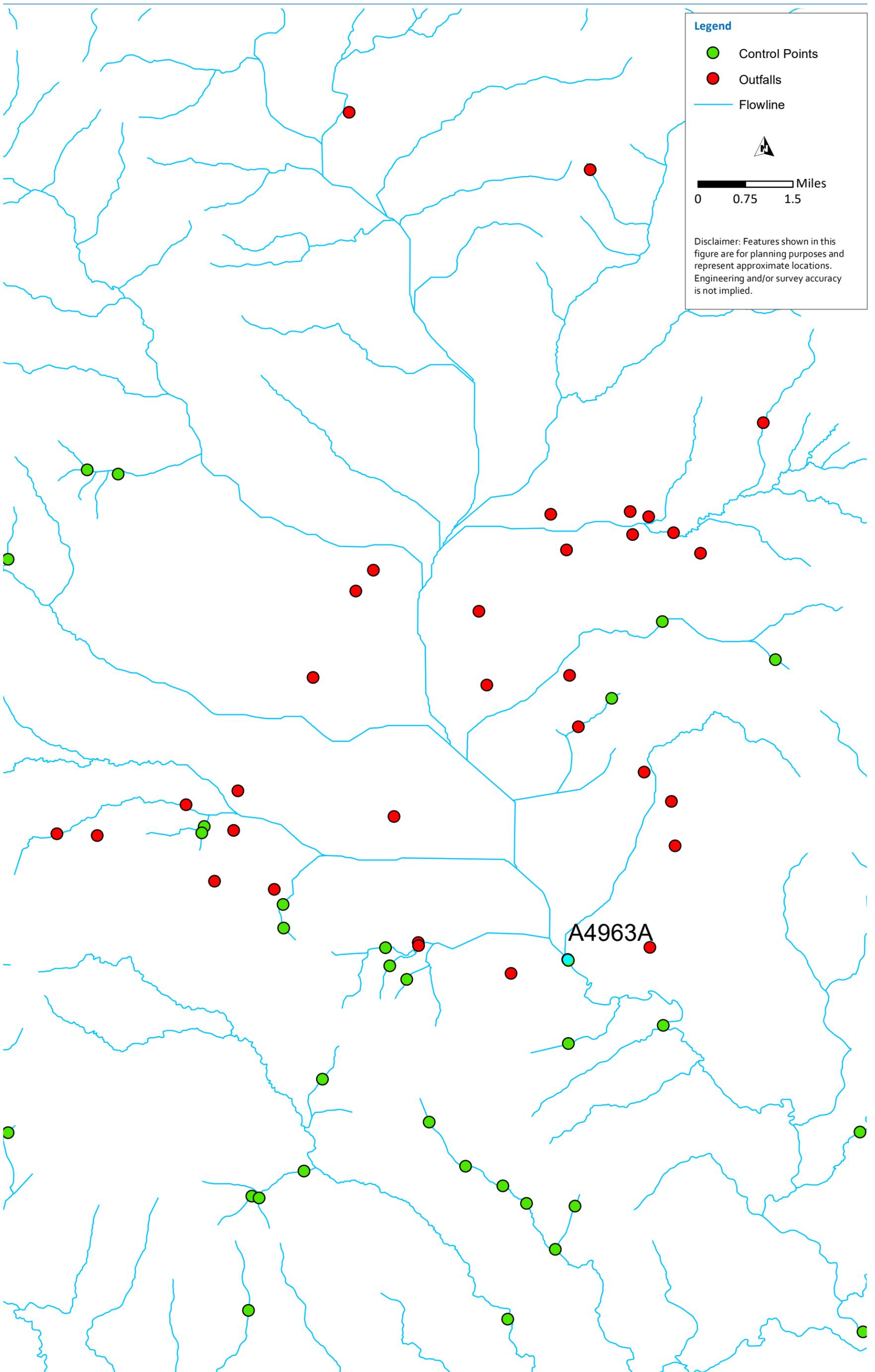
-  Control Points
-  Outfalls
-  Flowline



 Miles  
0 0.005 0.01

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.



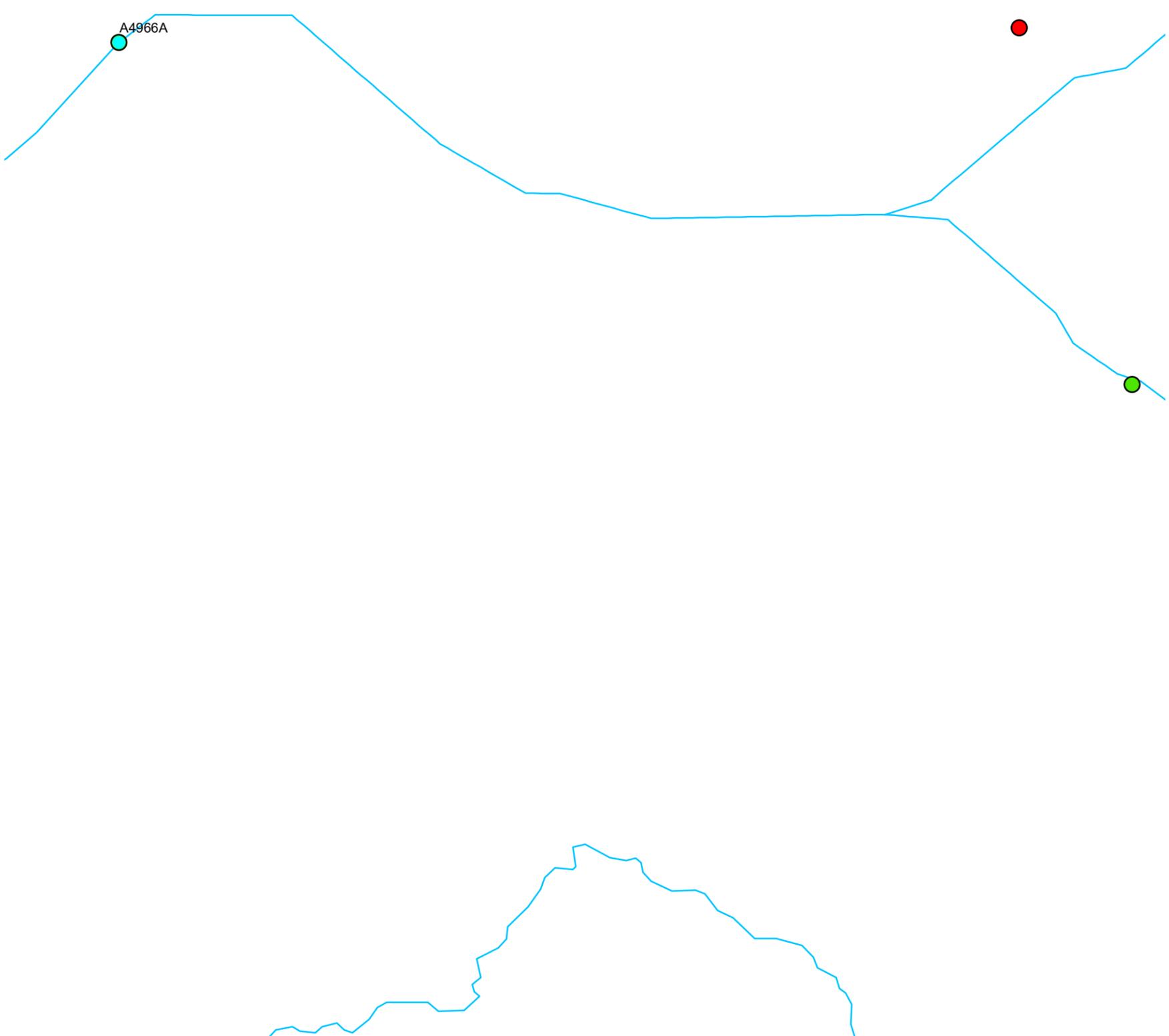
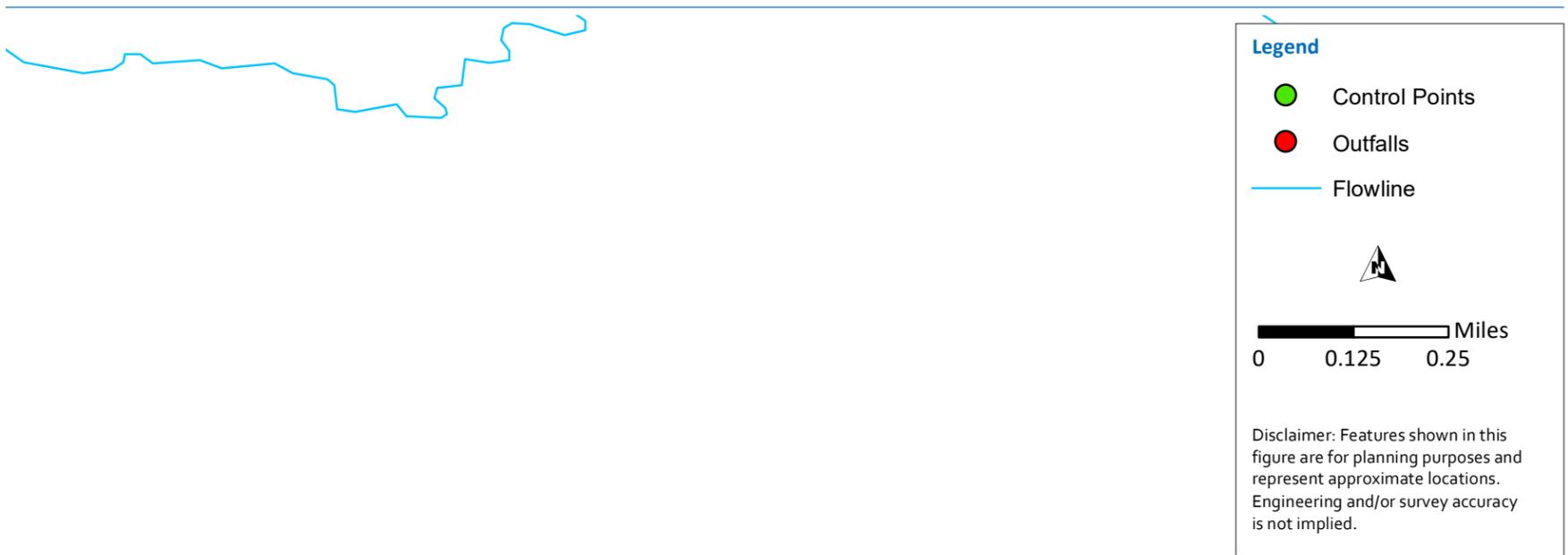


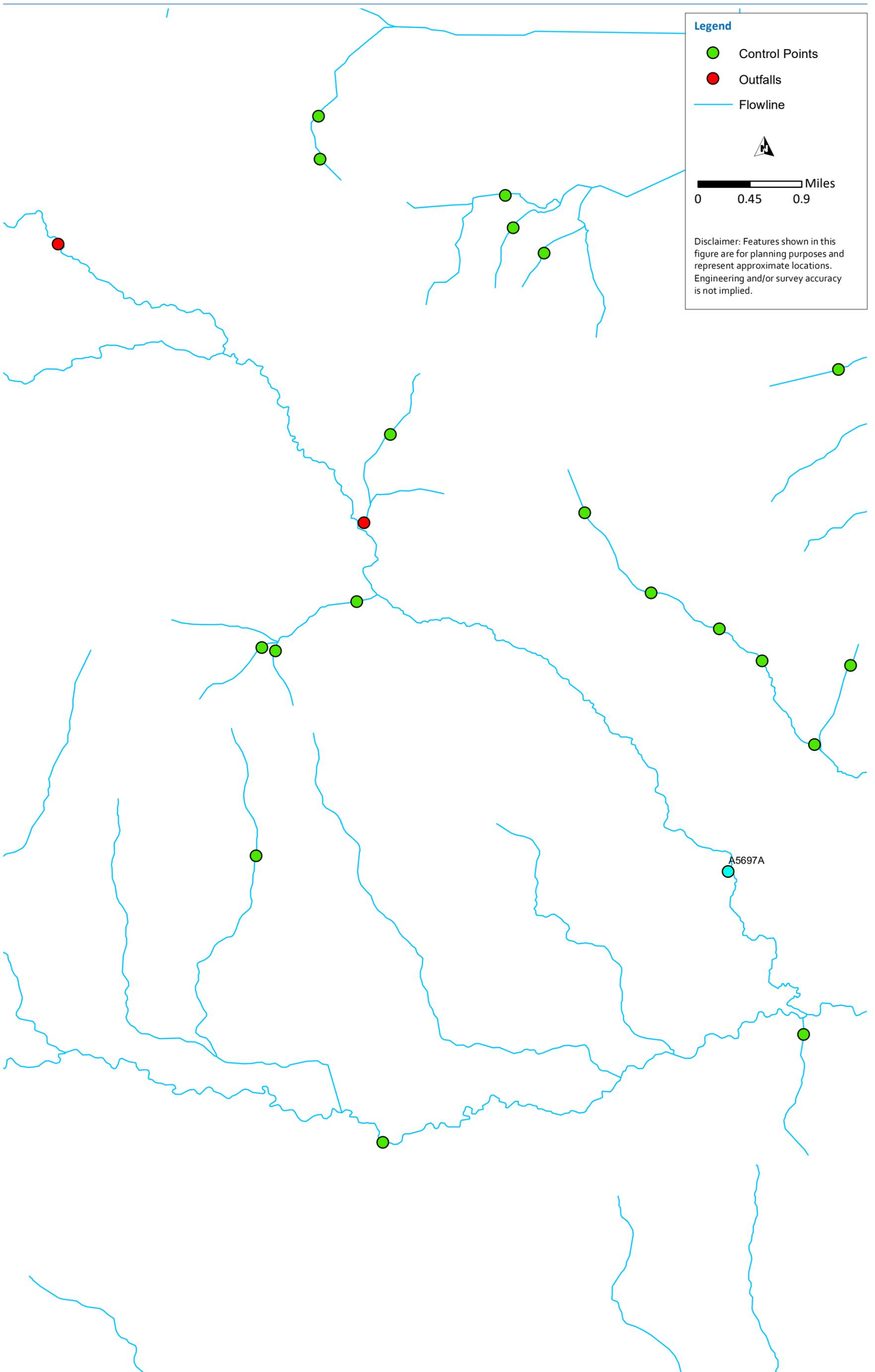
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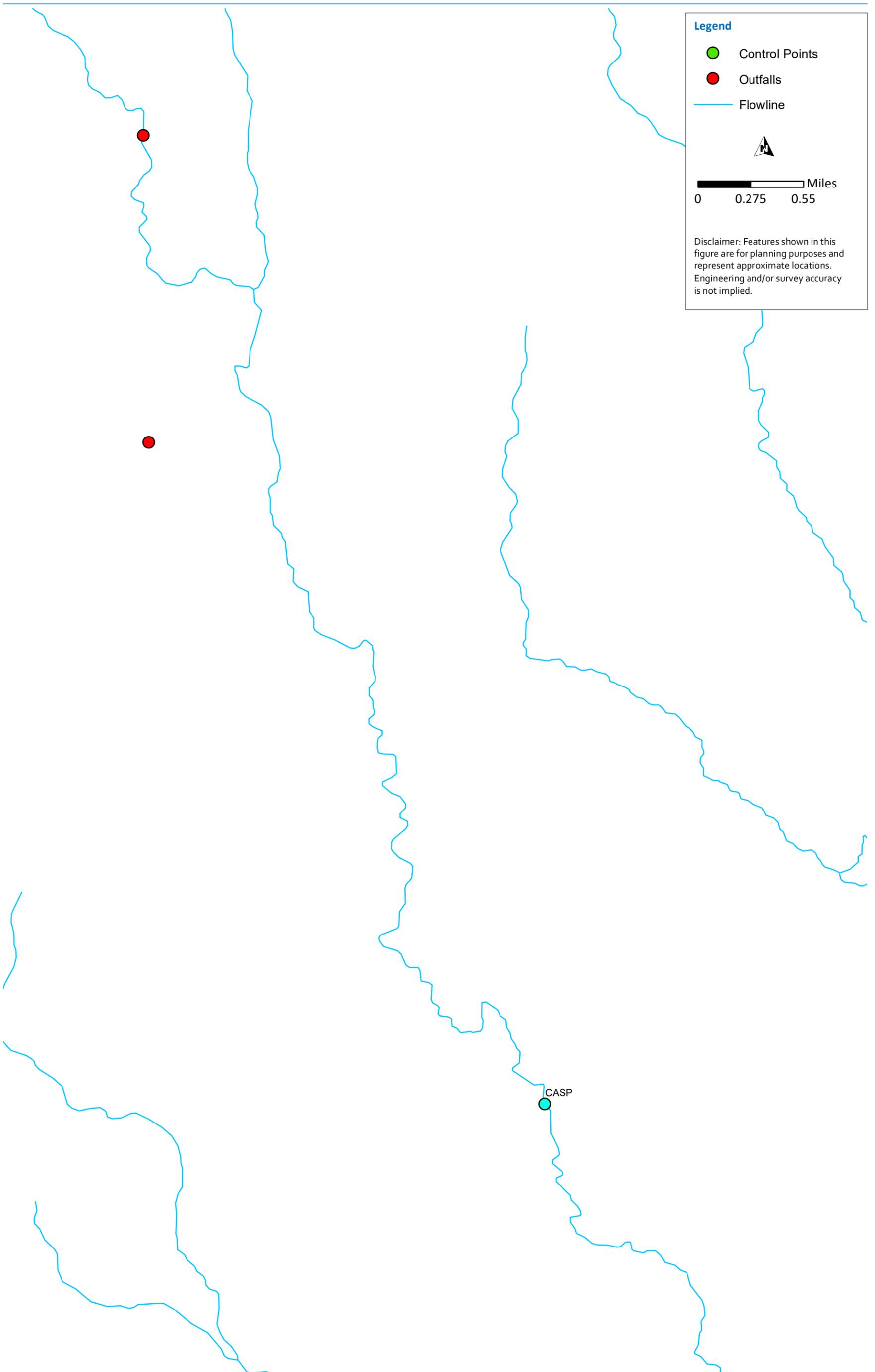
- Control Points
- Outfalls
- Flowline

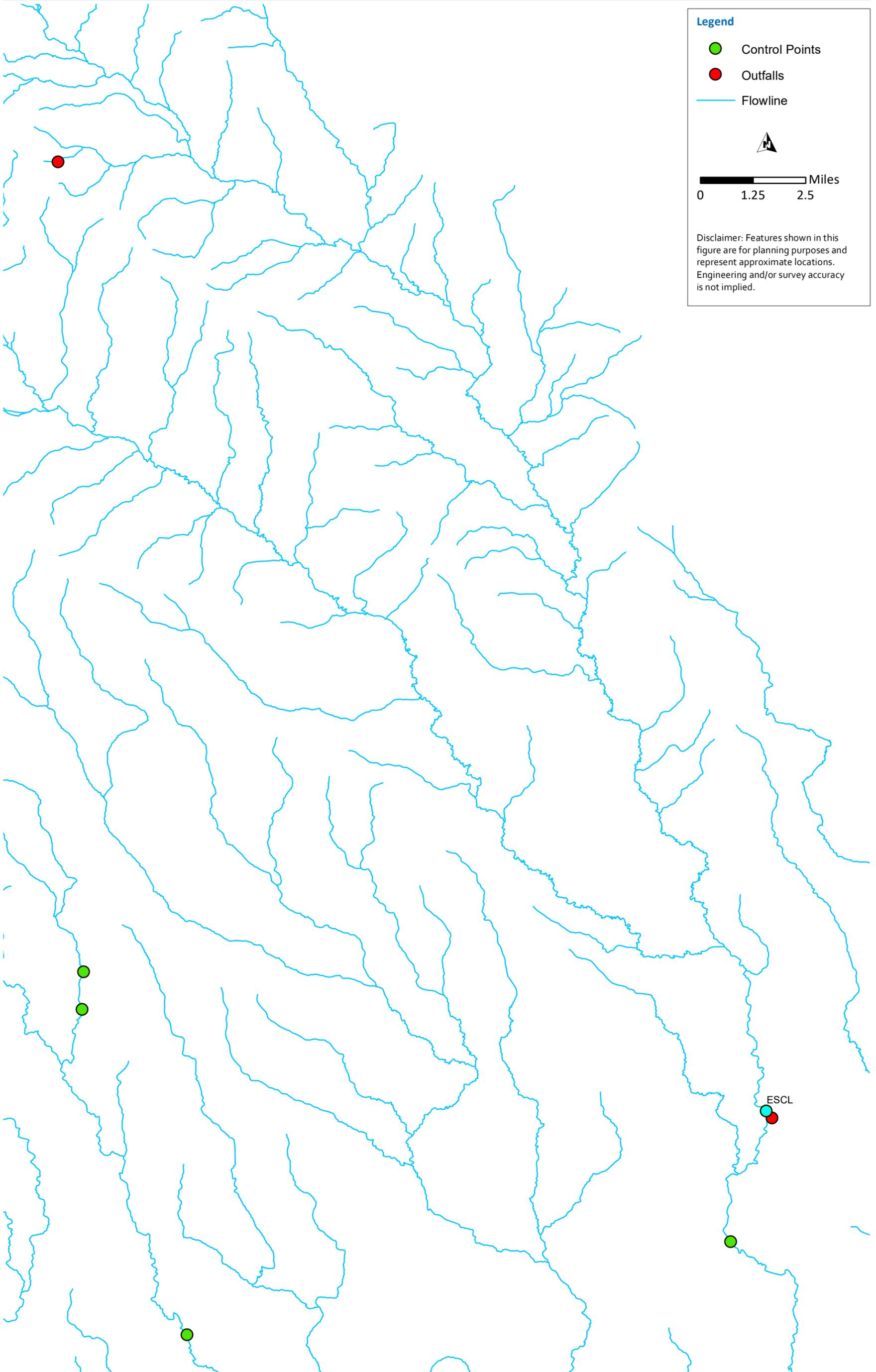
Miles  
0 0.75 1.5

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.









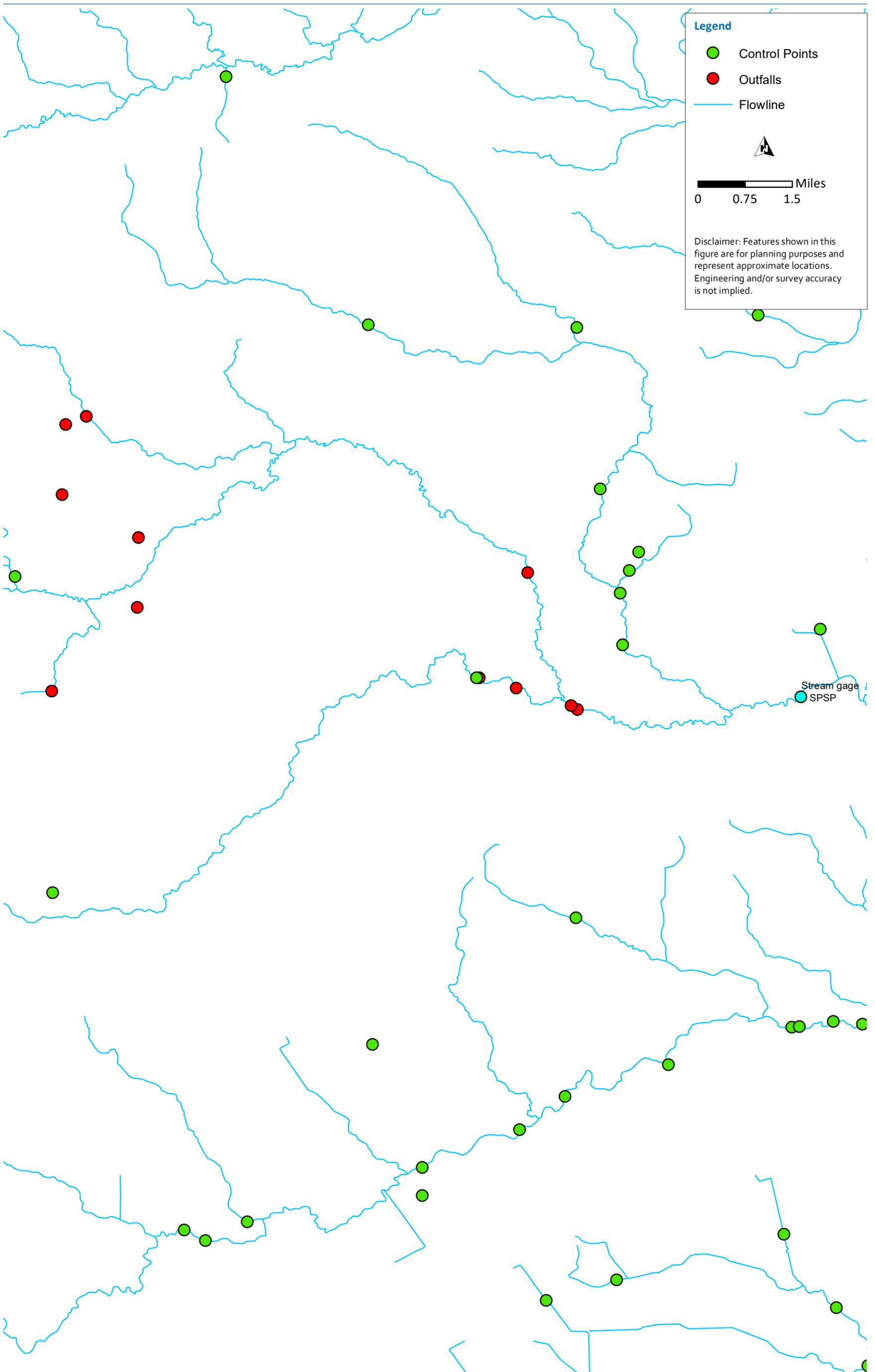
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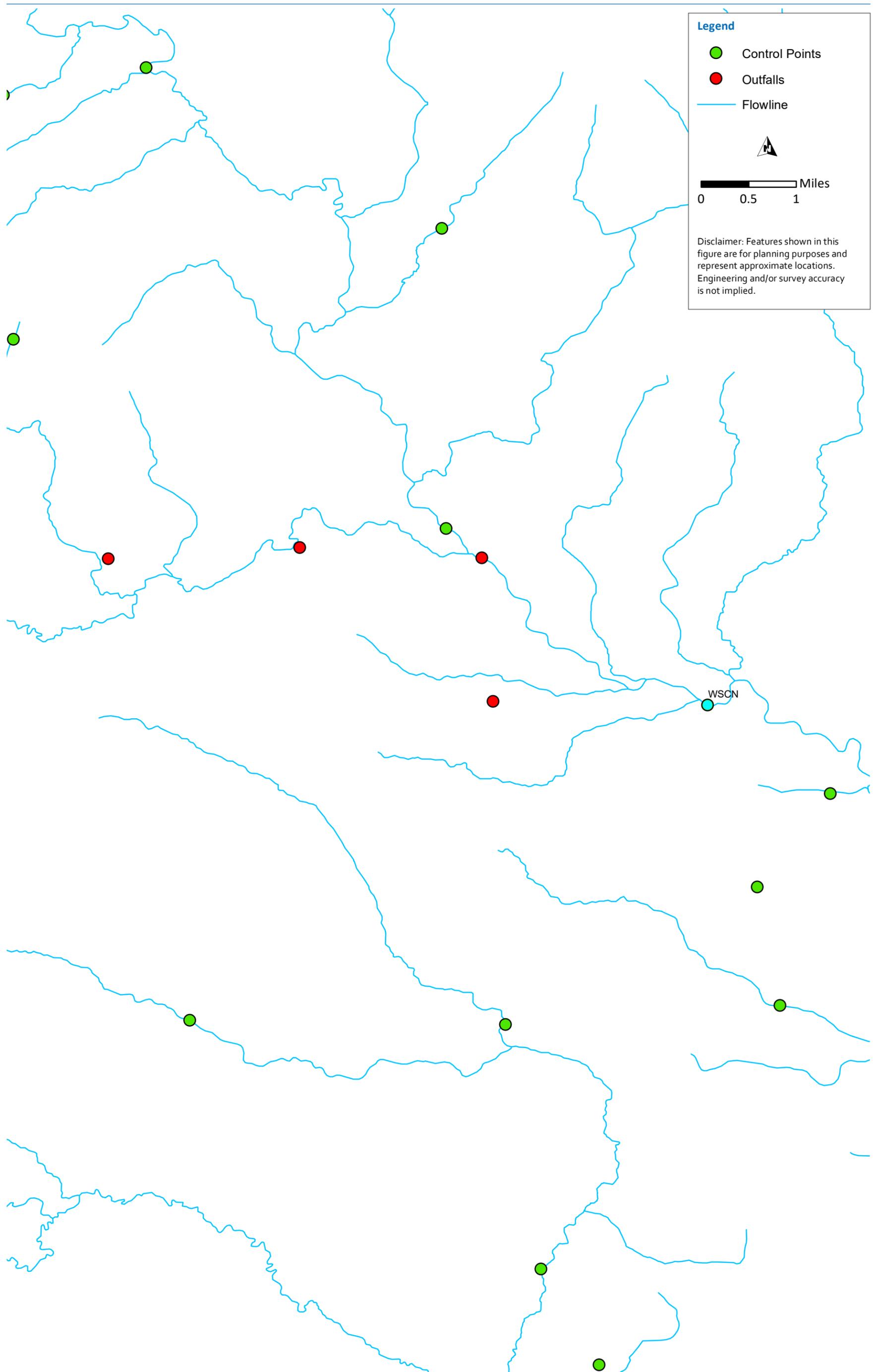
-  Control Points
-  Outfalls
-  Flowline



 Miles  
0 1.25 2.5

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.





PROJECT MEMORANDUM

Appendix B

# WAM MODIFICATIONS MODELING REUSE APPLICATION

PROJECT MEMORANDUM

\*\* Carollo Add City of Houston San Jacinto Reuse

UCCOHR1	0.085	0.074	0.082	0.082	0.089	0.084
UC	0.079	0.089	0.081	0.079	0.093	0.084

\*\*

\*\* Carollo added Groundwater Based Discharges for COH San Jacinto Basin Reuse Application

CIA3980A 1.12	2.06	1.73	1.79	1.46	1.4	1.19	1.08	1.24	1.31	0.94	1.3
CI CYWE 54.49	53.07	44.86	48.64	52.87	55.45	56.39	50.5	54.71	54.21	39.29	50.87
CIA3980A 1.92	1.85	1.63	1.54	1.96	2.17	2.22	2.36	2.52	2.27	1.85	1.77
CI CYWE 4.61	4.22	3.88	3.71	3.52	3.5	4.35	4.57	4.41	4.27	4.38	3.71
CI CYWE 3.52	3.73	3.4	3.01	2.91	3.5	3.39	3.3	3.18	3.3	3.69	3.91
CIA3980A 8.59	9.61	7.51	8.81	7.11	9.91	8.29	8.22	7.88	7.31	7.61	7.04
CIA5644P 0.59	0.46	0.41	0.46	0.44	0.46	0.44	0.46	0.51	0.35	0.59	0.58
CIA3980A 45.66	45.3	40.32	45.37	45.19	51.01	48.46	48.24	44.36	47.62	46.24	42.94
CI SPSP 40.95	40.74	35.51	39.47	37.35	41.44	38.06	39.49	41.78	40.19	39.58	38.3
CIA3976A 6.43	5.15	4.69	4.91	5.1	6.13	5.49	5.23	4.27	4.43	5.49	4.99
CIA3955B 36.34	32.86	30.75	34.84	29.41	32.96	29.04	27.23	33.43	25.06	29.71	33.84
CIA5055P 0	0	0	0	0.11	0.65	1.07	1.27	1.05	0.46	0.1	0
CIA5055P 14.66	14.5	11.39	15.01	18.58	21.75	21.73	22.49	28.47	22.47	16.89	14.83
CIA3980A 71.62	73.68	58.92	69.32	69.42	72.33	71.04	64.75	59.88	71.36	71.29	64.13
CIA3968A 1.59	1.48	1.27	1.33	1.38	1.56	1.31	1.43	1.47	1.4	1.36	1.63
CIA3949A 3.9	4.13	3.61	3.69	3.55	5.29	3.77	3.58	3.54	3.37	3.52	3.61
CIA3968A 44.26	42.4	37.48	42.22	46.06	45.12	43.92	43.5	45.4	40.22	39.96	38.21
CI ESCL 0.8	0.83	0.61	0.63	0.68	0.94	1.82	1.83	1.24	0.96	0.97	0.92
CIA5055P 53.28	50.02	44.22	50.02	50.07	54.02	54.16	55.13	56.83	53.99	53.59	51.33
CIA3968A 4.54	4.22	3.3	3.75	3.54	3.54	3.46	3.21	3.84	3.57	4.11	3.8
CI 1015 5.04	3.92	4.09	4.6	4.06	4.04	4.65	4.62	4.93	4.65	5.07	4.54
CI SPSP 13.94	10.66	9.45	10.89	10.21	12.31	9.8	11.22	11.06	11.05	15.24	12.78

PROJECT MEMORANDUM

CI SPSP 15.39	14.44	13.15	14.02	13.55	14.56	13.72	13.62	14.59	13.09	14.7	14.5
CI CYWE 3.43	0.21	0.4	0.32	0.28	0.51	0.55	0.48	0.46	0.77	0.64	0.51
CIA3976A 8.13	7.75	6.56	7.45	6.13	8.16	7.36	7.01	7.43	6.43	7.2	7.32
CIA3968A 0.22	0.26	0.25	0.29	0.31	0.24	0.34	0.22	0.21	0.29	0.22	0.26
CIA3940A 1.54	1.83	1.44	1.35	1.39	1.62	1.77	1.57	1.5	1.81	2.36	1.36
CIA3980A 88.84	91.13	69.59	87.36	77.4	101.55	84.52	70.98	80.87	74.69	68.91	72.62
CI CYWE 1.06	1.08	1.08	1.04	1.12	1.33	1.23	1.02	1.24	1.17	1.13	1.26
CIA3968A 57.06	55.11	48.38	53.41	52.33	56.89	54.23	53.41	58.49	52.85	54.16	51.72
CIA3980A 16.55	17.13	16.29	18.5	18.53	20.07	18.2	17.64	21.1	18.32	18.08	15.65
CI CASP 0.49	0.42	0.47	0.46	0.48	0.53	0.17	0	0.45	0.49	0.48	0.38
CIA3980A 0.24	0.23	0.35	0.42	0.37	0.41	0.06	0	0.25	0.4	0.4	0.3
CIA3980A 58.87	56.63	50.68	59.6	58.39	63.42	60.58	60.81	64.39	58.67	59.82	57.18
CI CYWE 0.71	0.67	0.53	0.8	0.88	0.78	0.74	0.61	0.72	0.7	0.71	0.69
CIA3980A 0.07	0.08	0.07	0.07	0.14	0.1	0.1	0.1	0.13	0.1	0.17	0.25
CIA3980A 15.59	15.91	14.44	16.52	15.77	16.56	16.85	16.6	19.6	16.52	16.14	14.7
CIA3980A 137.68	147.08	126.22	148.27	142.06	179.63	157.46	132.57	158.39	139.4	137.76	1128.31
CIA3968A 4.11	4.01	3.95	4.51	4.4	4.03	3.37	4.43	4.36	4.6	4.04	4.26
CIA3945A 0.25	0.23	0.37	0.28	0.31	0.39	0.39	0.22	0.22	0.28	0.26	0.22
CI SPSP 4.99	6.78	6.19	6.21	6.05	6.69	5.92	6.26	6.96	4.84	4.17	3.58
CIA3958A 0.87	0.81	0.52	0.86	0.66	0.8	0.65	0.43	0.75	0.57	0.68	0.65
CIA5498P 8.68	6.12	21.97	9.08	19.41	9.91	3.86	4.95	2.96	3.86	2.49	8.4
CIA3980A 18.93	24.01	16.31	17.41	18.14	20.86	19.3	17.32	20.65	18.01	18.65	17.38
CIA3968A 101.06	101.52	86.45	94.06	93.31	101.08	96.97	93.85	101.65	99.11	97.47	96.01
CI CYWE 15.86	15.75	14.65	16.3	15.94	16.84	16.75	15.92	16.06	16.22	17.83	15.63
CIA3980A 54.64	53.18	47.13	53.18	50.81	56.04	55.43	55.7	57.85	55.58	56.21	51.49

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CIA3980A 14.89	15.34	12.89	13.72	13	16.08	13.48	12.03	12.9	12.52	12.73	12.71
CIA3980A 0	0	0	0	0	0	0	0	0	0	0	0
CIA5055P 1.39	1.53	1.23	1.45	1.29	2.62	1.4	1.05	1.96	1.43	1.48	1.35
CIA3958A 8.59	8.33	7.58	8.94	8.77	5.98	9.13	9.4	11.77	7.95	7	7.62
CI CYWE 72.22	69.62	61.63	63.08	65.59	71.99	68.15	57.16	75.53	66.3	67.54	67.66
CIA3968A 62.6	61.98	55.07	61.24	65.33	67.44	64.71	62.93	69.43	62.41	59.11	54.97
CIA3968A 0.12	0.12	0.1	0.11	0.11	0.11	0.14	0.11	0.14	0.14	0.15	0.15
CIA3967A 13.39	13.68	11.88	12.73	14.29	13.07	12.25	11.44	14.88	12.43	12.75	11.62
CIA3980A 6.13	7.43	5.97	7.09	6.46	6.85	6.45	6.48	6.54	5.78	6.03	5.81
CIA3968A 37.8	39.07	34.79	39.92	39.72	41.69	40.07	38.48	45.15	37.92	38.63	36.28
CI SPSP 10.99	10.94	9.99	10.83	10.5	10.71	10.63	10.45	10.62	8.78	10.63	10.5
CIA3980A 21.36	20.49	17.21	19.05	19	21.94	20.2	19.2	23.33	20.97	20.45	20.18
CIA3958A 2.92	2.94	2.93	2.84	2.71	3	2.65	2.77	3.47	2.51	2.79	2.96
CIA3882P 1.93	1.7	1.85	2.02	1.76	1.99	1.72	1.86	1.82	1.55	1.38	1.77
CI SPSP 66.41	64.2	52.4	62.08	65	73.24	68.52	55	66.9	58.02	57.28	55.32
CI SPSP 92.26	92.39	79.8	91.77	92.04	100.12	97.98	89.97	105.62	85.51	90.23	82.83
CI SPSP 2.56	2.19	2.12	2.14	2.08	2.52	2.41	2.49	2.74	2.43	2.36	2.64
CI CYWE 41.05	52.9	45.39	37.64	29.59	23.23	53.97	21.75	11.46	47.55	29.64	26.68
CIA4964A 9.82	10.07	8.52	10.31	9.87	10.37	9.61	9.61	11.19	10.86	9.54	8.98
CIA3958A 2.97	3.02	2.66	3.09	3.06	3.85	3.82	3.95	4.38	3.43	2.78	2.6
CIA3980A 16.63	17.14	13.03	15.95	13.51	16.05	13.97	11.81	13.97	15.02	13.21	16.99
CI SPSP 12.11	13.51	10.48	12.22	14.97	15.7	12.87	13.24	13.26	12.17	12.73	15.33
CIA5615P 17.48	16.78	15.15	16.74	15.35	16.68	14.08	12.89	15.09	12.91	14.77	13.89
CIA3968A 26.69	26.39	22.77	24.77	25.47	24.98	23.55	22.78	24.28	21.99	21.67	22.44
CIA3980A 5.33	5.22	4.68	5.29	5.33	5.86	5.17	4.98	5.62	5.68	5.56	5.23

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CIA5055P 23.86	23.92	20.59	23.82	23.29	27	25.98	25.25	27	25.91	24.14	23.39
CIA3980A 6.41	5.25	4.25	4.32	3.86	4.55	5.62	5.54	4.03	5.28	5.4	5.43
CI SPSP 4.02	3.54	3.25	3.69	3.61	4.21	4.07	4.17	4.41	4.36	3.73	3.73
CIA3955B 4.97	4.95	4.64	4.91	4.57	5.3	4.86	4.85	4.66	4.14	4.61	4.45
CI CYWE 36.8	37.39	32.98	37.22	36.72	39.73	37.82	36.92	39.88	37.42	36.8	34.32
CIA3968A 125.83	116.07	99.34	106.56	106.07	117.21	109.01	106.75	118.55	113.43	114.65	114.17
CI CYWE 0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CIA3956A 0.22	0.29	0.25	0.19	0.52	0.37	0.24	0.09	0.31	0.14	0.08	0.12
CI PESP 9.82	11.28	8.92	8.95	9.53	10.09	9.24	8.66	8.96	10.15	8.92	8.63
CIA3958A 1.73	2.11	1.8	1.66	1.42	1.93	1.99	2.11	1.89	1.49	1.55	1.34
CIA3968A 0.6	0.56	0.41	0.52	0.7	0.62	0.59	0.59	0.61	0.74	0.68	0.48
CIA3963A 47.5	37.71	35.76	40.03	42.74	52.79	37.44	27.22	39.6	29.87	33.57	35.22
CIA3980A 42.22	46.12	40.84	44.65	43.03	44.83	43.66	39.46	42.83	39.52	48.12	40.79
CIA5644P 0.19	0.17	0.15	0.13	0.14	0.15	0.18	0.17	0.16	0.16	0.15	0.18
CI SPSP 9.82	9.1	8.95	9.11	9.56	11.36	11.38	11.36	10.9	11.31	9.42	9.18
CIA3980A 16.15	16.61	14.33	15.89	16.32	17.94	16.96	16.61	17.98	16.74	16.48	15.01
CIA3941A 0.12	0.2	0.11	0.14	0.13	0.31	0.06	0.1	0.05	0.17	0.06	0.25
CIA3972A 0.26	0.28	0.19	0.74	0.26	0.35	0.27	0.3	0.35	0.24	0.26	0.32
CI SPSP 2.73	2.62	2.73	2.87	3.01	3.7	3.32	3.28	3.66	3.2	2.46	2.79
CIA5055P 23.88	21.6	19.51	23.31	23.4	25.1	23.32	23.64	25.28	23.44	24.44	21.61
CIA3958A 21.15	19.73	16.45	18.89	17.85	19.49	17.51	17.15	18.85	16.36	17.93	19.49
CIA3968A 0.19	0.21	0.18	0.3	0.29	0.28	0.3	0.27	0.28	0.28	0.24	0.22
CIA3980A 37.99	37.6	30.11	31.68	30.37	32.23	30.88	30.45	33.51	31.05	33.23	33.4
CIA3980A 8.36	21.88	7.59	8.62	9.6	8.62	8.26	8.07	7.99	7.97	8.86	7.86
CIA5055P 0.39	0.38	0.29	0.35	0.36	0.4	0.48	0.39	0.41	0.37	0.35	0.37

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CI SPSP 5.09	5.39	4.97	5.56	5.98	5.82	6.22	6.3	5.16	4.68	4.76	4.37
CIA3949A 33.61	34.18	30.15	33.11	31.71	37.6	32.98	31.78	37.58	31.78	31.47	31.74
CI SPSP 37.39	35.77	28.26	33.57	35.95	43.07	38.03	37.7	44.41	36.42	36.58	29.65
CIA3980A 88.06	87.09	77.28	85.76	91.92	97.33	92.69	89.9	94.69	88.29	87.82	83.6
CIA3968A 69.07	66.83	60.77	66.31	64.14	68.35	67.47	68.43	77.24	72.85	70.83	65.12
CIA3941A 0	0	0	0	0	0	0	0	0	0	0	0
CIA5055P 9.04	9.34	7.84	8.83	9.91	9.89	9.3	7.54	8.98	9.23	7.66	7.71
CI SPSP 4.36	4.13	3.77	3.99	3.89	4.12	3.94	3.59	4.26	3.84	3.74	4.07
CIA3968A 0.63	0.43	0.42	0.53	0.49	0.55	0.53	0.61	0.59	0.59	0.56	0.5
CIA3980A 0	0	0	0	0	0	0	0	0	0	0	0
CIA3980A 34.1	37.54	33.06	38.17	33.59	41.38	35.06	27.27	42.58	35.93	39.7	32.07
CIA3980A 6.54	6.51	5.45	6.34	6.22	6.77	7.2	6.43	6.72	7.62	6.4	5.34
CIA3980A 58.72	59.1	51.92	55.06	52.44	60.61	56.05	55.89	60.95	56.58	56.58	56.05
CIA3980A 2.68	2.37	1.81	2.2	1.87	2	3.58	2.96	3.21	2.77	1.68	1.71
CIA3980A 0	0	0	0	0	0	0	0	0	0	0	0
CIA3980A 0.02	0.03	0.02	0.05	0.03	0.03	0.09	0.02	0.03	0.03	0.02	0.03
CIA3980A 0.35	0.36	0.33	0.37	0.35	0.34	0.37	0.48	0.49	0.26	0.31	0.29
CIA3968A 0.13	0.13	0.6	0.64	0.16	0.11	0.15	0.17	0.29	0.21	0.11	0.11
CIA3958A 0.39	0.85	0.53	0.32	0.57	0.4	0.38	1	0.48	0.39	0.37	0.54
CI SPSP 23.12	22.32	23.21	25.65	28.87	35.84	32.1	22.33	30.96	26.14	22.99	23.64
CIA3955B 4.68	4.57	3.97	4.56	5.25	5.04	4.33	4.14	4.7	4.23	4.49	4.1
CIA3968A 3.76	3.82	3.33	3.76	3.48	3.74	3.03	3.62	4.24	4.05	3.41	3.28
CIA3967A 0.33	0.54	0.41	0.48	0.41	0.46	0.46	0.45	0.64	0.66	0.39	0.27
CIA3968A 4.34	4.32	3.81	4.18	4.22	4.31	3.92	3.97	4.27	4.15	4.05	4.05
CIA3950A 5.99	5.49	4.9	4.7	6.4	6.01	3.34	3.31	4.71	7.07	3.62	4.16

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CI WSCN 2.48	2.71	2.24	3.17	3.28	3.9	3.59	4.06	4.73	9.18	5.61	3.19
CI CYWE 3.85	3.97	3.5	3.95	5.07	4.91	5.11	4.77	5.6	5.98	3.68	3.77
CIA3980A 1.69	16.78	1.48	7.99	7.98	10.84	10.32	9.99	10.41	2.09	1.38	1.44
CIA3980A 33.63	36.82	31.28	35.45	35.52	44.58	37.55	34.97	46.11	34.55	33.09	31.4
CI SPSP 58.2	60.93	56.18	63.39	62.72	69.82	59.68	56.06	61.8	61.61	52.7	54.71
CI CYWE 0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
CIA3968A 45.57	46.77	42.54	45.69	47.2	49.04	43.16	42.83	49.47	46.07	46	43.94
CIA3968A 23.17	25.21	21.74	24.72	24.49	24.91	20.18	20.02	28.52	20.29	20.6	21.55
CIA3968A 42.96	42.85	37.69	41.86	41.8	42.36	42.34	42.38	48.47	41.76	42.55	42.98
CIA3958A 2.84	2.65	2.6	3.45	3.3	3.08	3.19	2.85	3.1	2.49	2.47	2.58
CI CASP 1.72	2.18	1.81	2.68	2.14	2.86	3.32	2.36	2.82	2.16	1.26	1.34
CIA3980A 0.2	0.1	0.17	0.14	0.15	0.17	0.29	0.17	0.13	0.2	0.27	0.13
CI SPSP 2.57	2.47	1.03	1.86	1.98	2.43	2.35	2.52	2.62	2.76	2.09	2.03
CI SPSP 0	0	0	0	0	0	0	0	0	0	0	0
CIA3968A 3.19	3.45	3.07	3.43	3.34	3.71	3.68	3.61	4.35	3.8	3.58	3.84
CI SPSP 4.54	3.62	3.7	4.47	3.92	4.6	4.42	4.87	6.03	5.21	4.54	4.35
CIA3980A 4.19	4.31	3.95	4.15	4.82	6.69	7.15	7.61	8.69	8.1	4.06	3.5
CIA3980A 2.53	2.08	1.3	1.7	2.6	2.92	2.33	2.28	3	2.44	0.68	2.08
CIA3980A 91.34	91.01	80.8	90.27	89.29	97.63	95.39	94.61	101.35	93.62	93.79	87.31
CIA3980A 0.95	1.14	1.29	1.14	1.1	1.47	1.61	1.81	1.66	2.26	2.19	1.75
CIA3980A 0	0	0	0	0	0	0	0	0	0.6	0	0
CI SPSP 0	0	0	0	1.2	1.62	1.66	1.62	1.71	2.03	0	0
CIA3980A 0.24	0.21	0.23	0.22	0.24	0.26	0.34	0.31	0.33	0.3	0.28	0.26
CI SPSP 20.2	18.04	14.87	17.76	16.64	17.72	16.14	16.36	19.09	15.39	17.6	18.52
CIA3968A 7.39	7.44	8.13	8.65	5.5	6.23	7.36	8.22	8.49	8.29	8.74	8.42

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CIA3968A 12.12	11.27	10.07	11.72	13.72	12.89	10.99	10.59	11.26	11.63	10.4	10.64
CIA3945A 1.09	0.86	0.9	0.81	0.92	1.09	0.46	0.41	0.7	1.04	0.62	0.41
CIA3980A 0	0	0	0	0	0	0	0	0	0.64	0	0
CI CYWE 56.48	57.55	47.96	54.31	54.23	60.02	59.71	57.54	64.94	56.86	55.44	52.22
CIA3968A 7.04	7.07	5.81	6.78	9.36	7.93	7.05	6.25	10.51	8.05	6.71	6.47
CIA3968A 41.13	35.79	35.96	39.69	38.36	40.91	39.72	40.51	42.41	39.67	40.89	38.99
CI SPSP 65.89	57.22	50.29	55.28	62.17	65.17	58.1	59.44	70.02	66.4	65.41	61.83
CI SPSP 12.08	10.9	10.79	11.02	11.47	12.41	11.75	11.53	14.39	12.8	11.73	11.21
CIA3965A 9.89	22.53	15.67	23.8	19.17	19.73	14.25	6.77	23.4	2.67	4.16	4.03
CIA3980A 19.98	19.96	18.65	19.9	20.07	21.79	20.4	20.23	21.77	19.72	18.77	18.48
CI SPSP 0.07	0.05	0.03	0.04	0.06	0.06	0.04	0.06	0.06	0.03	0.04	0.05
CIA3949A 35.49	36.46	29.1	34.76	32.37	40.07	34.85	30.65	29.63	32.73	26.47	30.05
CIA5644P 0.22	0.27	0.29	0.35	0.31	0.35	0.37	0.38	0.35	0.37	0.29	0.28
CIA3964A 2.74	2.53	2.23	2.38	2.41	2.61	2.28	2.23	2.76	2.39	2.28	2.46
CIA3980A 15.71	16.72	15.52	15.69	14.88	15.18	16.69	16.06	17.69	16.71	16.92	16.04
CI 1015 1.04	0.6	1.29	1.52	1.94	1.47	0.49	0.25	0.66	0.49	0.63	0.13
CIA3980A 29.4	30.81	29.77	30.29	30.29	33.79	32.74	33.05	32.82	35.34	29.14	27.99
CIA3968A 14.65	17.26	16.71	18.94	21.16	20.86	21.62	20.34	19.37	17.03	18.08	16.09
CIA3980A 6.26	6.35	5.93	6.18	6.31	6.99	6.54	6.3	6.6	7.51	5.59	5.52
CI WSCN 28.41	26.82	24.4	26.71	25.18	28.76	26.29	28.37	34.63	25.28	25.56	25.92
CIA3980A 2.62	2.47	2.21	2.48	2.39	2.46	2.74	2.64	2.89	2.69	2.27	2.3
CI WSCN 17.03	16.16	14.18	15.51	15.84	17.17	15.94	16.42	17.88	16.66	15.85	15.69
CIA3980A 8.18	4.33	3.48	7.11	6.12	6.63	6.51	6.56	6.34	6.14	5.66	5.48
CIA3968A 0.07	0.06	0.05	0.06	0.06	0.06	0.18	0.52	0.5	0.14	0.1	0.11
CI CYWE 22.43	22.55	19.85	23.01	23.99	30.75	25.12	19.8	29.91	22.96	23.43	28.57

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CIA3980A 3.66	3.92	3.33	4.07	3.41	3.86	3.81	3.6	3.33	3.13	3.26	2.81
CIA4963A 1.76	1.43	1.29	1.29	1.29	1.43	1.32	1.27	1.44	1.31	1.32	1.83
CIA3980A 3.89	3.97	3.46	3.87	3.7	3.98	3.36	3.41	3.85	3.86	3.32	4.29
CI SPSP 0.5	0.44	0.53	0.42	0.42	0.53	0.35	0.38	1.47	0.46	0.57	0.53
CIA3954A 5.36	5.85	6.93	5.81	6.43	5.74	4.68	5.91	6.93	5.57	6.11	5.37
CIA3882P 26.4	24.96	22.63	25.85	24.74	28.07	25.31	26.57	27.99	24.72	25.27	24.38
CI CYWE 58.01	57.85	50.11	55.08	52.55	60.6	58.04	52.33	60.94	54.22	58.33	56.88
CIA3972A 4.66	4.45	3.15	2.67	3.06	20.84	2.66	1.77	2.55	1.66	1.22	2.74
CIA3972A 7.78	7.1	5.16	21.14	5.58	6.55	4.79	4.34	6.66	4.99	5.61	5.87
CIA5055P 10.25	10.47	8.95	10.2	12.91	11.09	13.7	11.78	11.97	10.64	10.32	9.28
CIA3980A 5.74	6.76	6.2	6.95	6.97	7.92	7.59	7.81	8.49	8.13	6.75	6.8
CIA3980A 10.25	9.3	10.12	10.9	9.1	8.84	10.7	11.38	11.63	10.94	11.08	11.03
CIA3980A 2.67	2.98	3.6	1.9	2.35	2.06	1.4	0.53	2.07	2.45	1.92	2.35
CIA3980A 23.52	21.95	19.71	21.72	22.55	25.67	24.03	23.04	26.08	23.74	21.43	21.05
CI CYWE 180.4	185.49	165.67	187.32	223.11	189.64	182.09	181.25	187.23	174.3	181.48	172.18
CIA3968A 115.79	117.5	102.06	116.13	126.25	125.74	119.25	116.53	127.11	113.43	117.41	103.17
CIA3980A 1.38	1.08	1.05	0.91	1.16	1.23	1.65	1.75	1.94	2.01	1.41	1.23
CIA3980A 0.27	0.28	0.16	0.19	0.16	0.37	0.24	0.27	0.41	0.26	0.19	0.26
CIA3968A 41.32	41.2	35.71	40.02	41.73	43.25	40.31	40.25	42.45	38.58	40.77	38.35
CIA3752P 23.88	23.82	19.95	22.93	21.01	23.67	21.77	20.4	21.58	19.57	19.46	20.12
CI CYWE 95.26	95.6	81.23	95.85	100.51	99.86	96.38	89.4	105.04	92.33	87.17	89.43
CIA5055Q 113.51	115.84	100.29	113.44	121.87	130.49	123.61	117.97	124.13	115.81	112.64	106.9
CI PESP 1.64	1.58	1.56	1.27	1.45	1.67	0.94	0.76	1.54	1.95	1.97	1.29
CIA4964A 20.93	23.08	16.64	19.93	14.37	19.42	18.84	11.34	18.98	17.78	18.15	16.72
CIA3980A 7.16	55.67	51.66	12.6	3	2.38	2.56	2.77	2.76	3.36	1.96	1.19

PROJECT MEMORANDUM

CIA3966A 5.68	4.97	4.57	5.52	5.82	6.68	7.22	7.15	7.71	6.37	6.07	5.25
CIA5698A 23.69	23.35	21.71	24.39	25.19	27.44	25.34	24.11	25.52	23.72	23.69	22.72
CIA3968A 10.36	10.92	9.46	9.83	10.27	10.6	9.91	10.96	11.13	8.79	9.8	9.7
CIA3968A 17.89	17.96	14.88	17.32	21.55	21.29	18.45	17.49	22.66	19.34	16.84	16.64
CI ESCL 31.11	35.58	25.61	28.69	24.71	34.39	28.7	20.78	28.22	27.41	25.28	22.71
CIA3979A 39.67	48.08	36.92	44.11	42.03	48.46	39.56	27.23	38.48	31.48	30.18	19.75
CIA5055P 15.03	13.83	11.57	12.94	13.68	14.56	16.04	14.18	16.11	13.6	13.34	13.49
CIA3980A 12.48	12.2	11.03	11.88	11.88	13.21	13.23	13.13	13.77	14.33	12.39	11.86
CIA3980A 3.45	3.76	3.41	2.43	2.41	2.99	2.65	3.5	4.25	4.33	3.33	3.29
CIA3967A 14.96	21.29	23.08	24.57	19.87	15.41	12.02	10.48	12.54	12.95	10.82	12.27

\*\*

\*\* Carollo added Surface Water Based Discharges for COH San Jacinto Basin Reuse Applicaiton

WRA3980A	0	XMONTH19400507	4						WWTX0046728		
TS ADD	1996	108.88	94.44	107.93	105.92	113.31	106.49	97.79	120.16	103.23	110.89
		102.66	107.06								
WR CYWE	0	XMONTH19400507	4						WWTX0076856		
TS ADD	1996	70.29	61.56	70.25	69.28	72.8	73.68	69.81	77.74	69.13	70.08
		68.42	72.18								
WRA3968A	0	XMONTH19400507	4						WWTX0134627		
TS ADD	1996	17.68	15.92	18.13	18.62	19.94	19.19	17.81	19.52	16.85	16.41
		15.35	18.2								
WRA3968A	0	XMONTH19400507	4						WWTX0072346		
TS ADD	1996	29.36	25.87	28.66	29.85	33.6	30.86	29.08	31.74	31.01	32.85
		30.18	36.51								
WR CYWE	0	XMONTH19400507	4						WWTX0072150		
TS ADD	1996	123.02	107.14	123.27	117.49	123.82	120.91	116.76	133.33	122.27	120.12
		117.39	125.63								
WRA3968A	0	XMONTH19400507	4						WWTX0128210		
TS ADD	1996	31.26	25.14	28.56	27.47	30.2	28.51	27.93	31.11	29.46	26.14
		25.53	35.35								
WR CYWE	0	XMONTH19400507	4						WWTX0077941		
TS ADD	1996	31.74	27.28	30.29	29.57	32.82	32.02	31.99	35.89	32.74	30.71
		29.92	32.66								
WR SPSP	0	XMONTH19400507	4						WWTX0078433		
TS ADD	1996	70.12	57.4	65.36	54.05	68.1	64.99	63.17	73.37	62.15	65.15
		62.45	71.48								
WR CYWE	0	XMONTH19400507	4						WWTX0074632		

PROJECT MEMORANDUM

TS ADD 1996 21.09 18.19 20.31 19.57 21.22 20.77 20.48 24 20.53 19.89  
19.87 21.14

WR CYWE 0 XMONTH19400507 4 WWTX0108120

TS ADD 1996 12.35 10.55 12.77 12.43 13.93 13.07 12.83 14.23 12.06 11.94  
11.74 12.58

WR CYWE 0 XMONTH19400507 4 WWTX0046817

TS ADD 1996 172.89 149.27 165.79 173.34 177.23 177.88 170.53 212.78 172.75 168.07  
158.8 176.56

WR CYWE 0 XMONTH19400507 4 WWTX0046744

TS ADD 1996 19.54 18.01 19.96 20.55 21.88 20.79 18.77 24.97 21.59 22.11  
21.34 20.99

WR CYWE 0 XMONTH19400507 4 WWTX0021211

TS ADD 1996 42.99 36.88 38.57 40.44 42.81 40.79 38.8 46.83 36.66 36.37  
36.23 40.44

WR CYWE 0 XMONTH19400507 4 WWTX0055166

TS ADD 1996 114.32 98.95 108.63 106.68 113.33 114.39 116.76 152.78 112.9 115.72  
109.91 114.84

\*\*

\*\* Carollo add proposed reuse diversion

WRA4964A 194684 COHRE120211201 1 61009999001

\*\*WSHOUSTN 160000

PX 3

\*\*

PROJECT MEMORANDUM

Appendix C

## COMPARISON OF WATER RIGHT RELIABILITIES

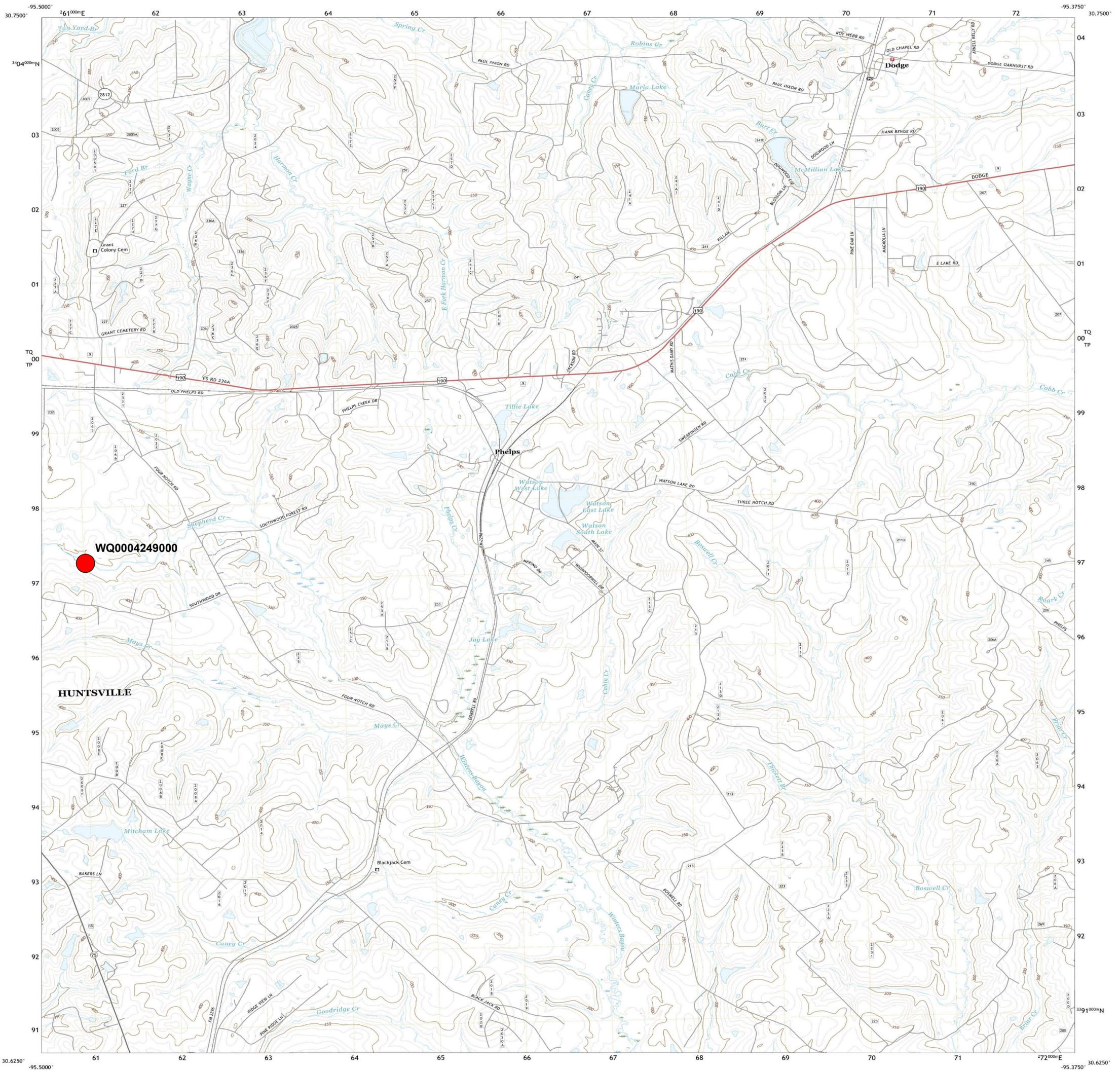
PROJECT MEMORANDUM

Appendix C-1: Comparison of Water Right Reliabilities

Water Right Identifier	TCEQ Baseline WAM			Proposed Diversion			Difference		
	Mean Shortage (Ac-ft/yr)	Period Reliability (%)	Volume Reliability (%)	Mean Shortage (Ac-ft/yr)	Period Reliability (%)	Volume Reliability (%)	Mean Shortage (Ac-ft/yr)	Period Reliability (%)	Volume Reliability (%)
61003983001	256.06	58.63	67.99	256.06	58.63	67.99	0	0	0
61004965001	0	100	100	0	100	100	0	0	0
61004965002	0	100	100	0	100	100	0	0	0
4964DIV	14784.53	69.74	73.12	8872.58	80.7	83.87	-5911.95	10.96	10.75
61003980001	209.55	82.16	86.9	103.17	89.77	93.55	-106.38	7.61	6.65
61003980401	208.72	82.31	86.96	102.77	89.91	93.58	-105.95	7.6	6.62
61004965003	0	100	100	0	100	100	0	0	0
61004964001	14719.27	70.03	73.24	8808.1	80.7	83.99	-5911.17	10.67	10.75
61003995001	0	100	100	0	100	100	0	0	0
61003995002	0	100	100	0	100	100	0	0	0
61003963401	68.34	78.65	86.36	38.17	84.8	92.38	-30.17	6.15	6.02
61003965101	409.77	79.97	86.07	269.77	86.26	90.83	-140	6.29	4.76
61003982001	0	100	100	0	100	100	0	0	0
61004963001	1120.68	98.25	98.3	550.61	99.12	99.17	-570.07	0.87	0.87
61004963002	596.49	98.25	98.25	264.66	98.98	99.22	-331.83	0.73	0.97
4963MUNCOH	734.72	98.25	98.33	358.4	99.12	99.19	-376.32	0.87	0.86
4963MUNSJRA1	128.65	98.25	98.25	64.07	99.12	99.13	-64.58	0.87	0.88
4963MUNSJRA2	257.32	98.25	98.25	128.14	99.12	99.13	-129.18	0.87	0.88
4963INDCOH	397.67	98.25	98.25	174.58	99.12	99.23	-223.09	0.87	0.98
4963INDSJRA1	111.11	98.25	98.25	48.78	99.12	99.23	-62.33	0.87	0.98
4963INDSJRA2	87.72	98.25	98.25	41.31	98.98	99.17	-46.41	0.73	0.92
61004966001	0	100	100	0	100	100	0	0	0
61003964002	0	100	100	0	100	100	0	0	0
61003970001	5.58	60.67	62.79	4.44	69.15	70.39	-1.14	8.48	7.6
61003967001	38.22	58.48	61.78	29.61	69.15	70.39	-8.61	10.67	8.61
61003984003	0.07	99.12	99.74	0.07	99.12	99.74	0	0	0
61003979001	1877.26	59.94	62.45	1509.7	67.84	69.8	-367.56	7.9	7.35
61003979401	1834.95	60.82	63.29	1467.46	68.71	70.64	-367.49	7.89	7.35
61003986001	0	100	100	0	100	100	0	0	0
61003995003	0	100	100	0	100	100	0	0	0
61003941001	32.9	85.67	89.03	16.98	91.52	94.34	-15.92	5.85	5.31
61003974001	0.42	98.54	98.95	0	100	100	-0.42	1.46	1.05
61003961001	9.44	60.23	62.24	7.64	68.27	69.43	-1.8	8.04	7.19
61003952001	5.51	79.24	82.78	5.14	79.82	83.93	-0.37	0.58	1.15
61003966001	0.42	97.08	98.33	0.3	97.95	98.79	-0.12	0.87	0.46
61003985001	20.81	87.28	95.48	20.81	87.28	95.48	0	0	0
61003930301	26.44	80.85	81.11	26.34	80.99	81.19	-0.1	0.14	0.08

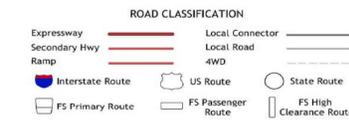
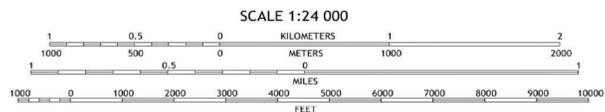
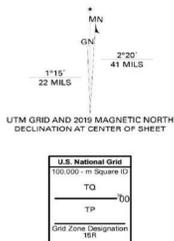
PROJECT MEMORANDUM

Water Right Identifier	TCEQ Baseline WAM			Proposed Diversion			Difference		
	Mean Shortage (Ac-ft/yr)	Period Reliability (%)	Volume Reliability (%)	Mean Shortage (Ac-ft/yr)	Period Reliability (%)	Volume Reliability (%)	Mean Shortage (Ac-ft/yr)	Period Reliability (%)	Volume Reliability (%)
11003779001	4.49	79.09	90.03	4.49	79.09	90.03	0	0	0
11003882001	16.7	95.76	96.66	5.15	98.25	98.97	-11.55	2.49	2.31
11003937001	7.96	91.52	93.13	2.51	96.05	97.84	-5.45	4.53	4.71
11003937401	7.96	91.23	93.13	2.51	95.47	97.84	-5.45	4.24	4.71
11003970001	0.46	91.23	92.34	0.17	95.91	97.22	-0.29	4.68	4.88
11003970002	0.05	99.12	99.48	0	100	100	-0.05	0.88	0.52
11004038001	0.55	99.71	99.76	0.55	99.71	99.76	0	0	0
11005209001	8	89.33	96.52	8	89.33	96.52	0	0	0
5257_0	14.1	88.45	91.94	14.1	88.45	91.94	0	0	0
11005311001	6	90.79	97	6	90.79	97	0	0	0
11005332001	42.15	84.8	88.85	42.15	84.8	88.85	0	0	0
11005336101	29.49	79.53	83.15	29.49	79.53	83.15	0	0	0
11005363001	308.18	67.98	68.13	308.18	67.98	68.13	0	0	0
5257_A	51.23	67.98	67.98	51.23	67.98	67.98	0	0	0
11005436001	12.68	88.3	90.81	5.33	93.57	96.14	-7.35	5.27	5.33
11005311002	0.98	90.35	95.12	0.98	90.35	95.12	0	0	0
11005498001	4.22	60.09	57.79	3.43	67.98	65.66	-0.79	7.89	7.87
11005505001	24.74	75.29	80.21	24.74	75.29	80.21	0	0	0
11005522001	12.38	76.32	88.65	12.38	76.32	88.65	0	0	0
11003752003	3.84	93.27	94.18	0.67	98.1	98.99	-3.17	4.83	4.81
11005565001	7.47	82.16	87.54	7.47	82.16	87.54	0	0	0
11005624001	129.31	67.69	67.83	129.31	67.69	67.83	0	0	0
P5644_1	1478.75	25.44	34.28	1466.08	25.73	34.84	-12.67	0.29	0.56
11005711001	38.13	78.8	84.75	38.13	78.8	84.75	0	0	0
5257_B	17.28	85.82	90.13	17.28	85.82	90.13	0	0	0
11005762001	31.36	80.99	82.96	31.36	80.99	82.96	0	0	0
11005807001	10.03	99.85	99.96	0	100	100	-10.03	0.15	0.04
11005808001	54231.39	44.64	54.3	53726.03	44.44	55.27	-505.36	-0.2	0.97
P5826_1	11013.54	46.05	55.95	11013.54	46.05	55.95	0	0	0
P5826_4	21425.9	49.42	57.15	21425.9	49.42	57.15	0	0	0
P5826_2	8919.04	44.74	55.4	8919.04	44.74	55.4	0	0	0
P5826_3	19737.18	36.4	43.61	19737.18	36.4	43.61	0	0	0

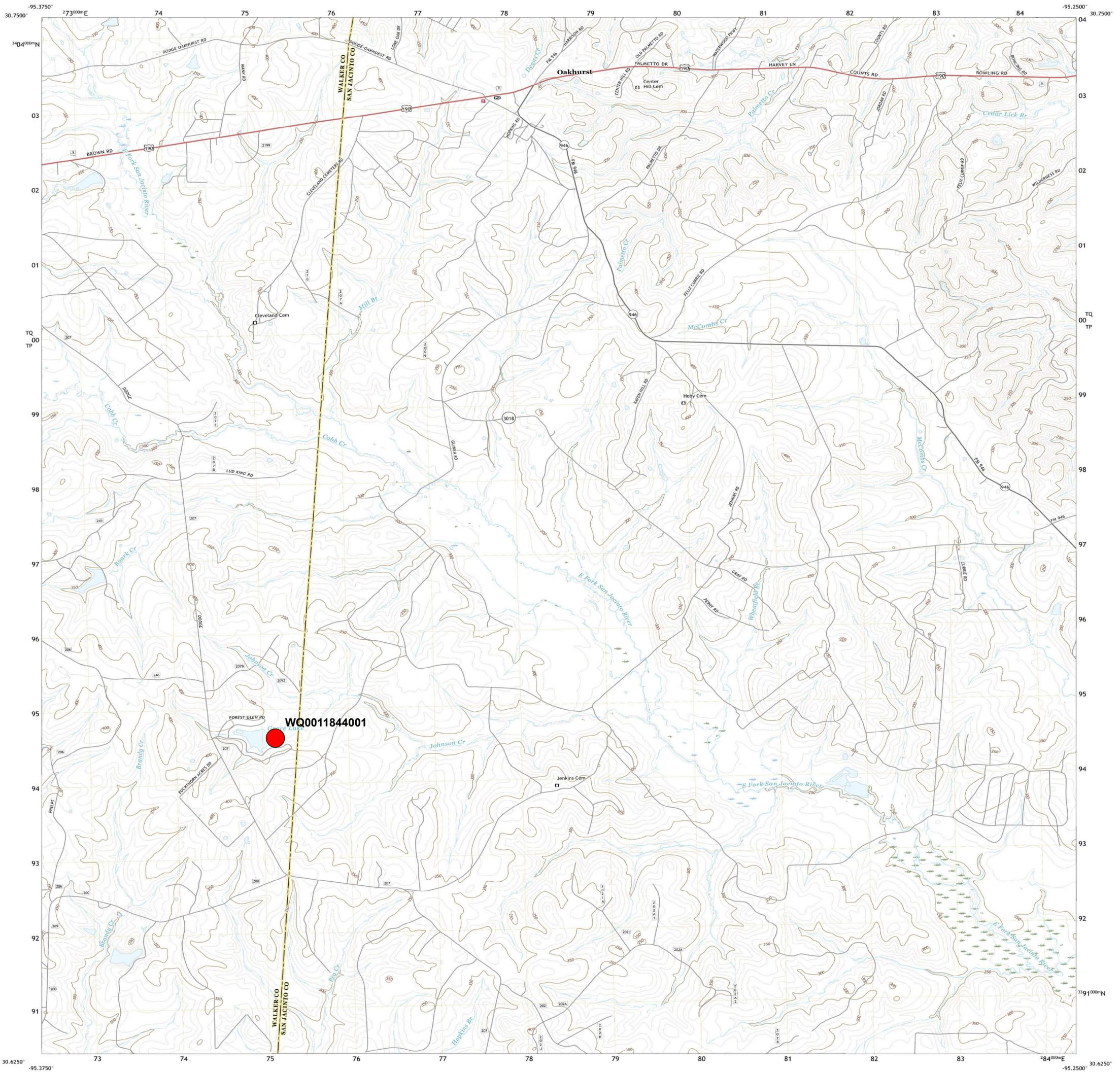


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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Roads within US Forest Service Lands.....FSTopo Data  
with limited Forest Service updates, 2012 - 2015  
Names.....GHS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2003 - 2018  
Boundaries.....Multiple sources: see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1982 - 1983

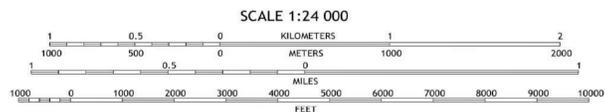
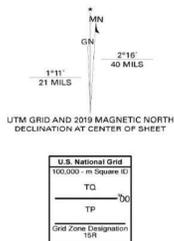


**PHELPS, TX**  
2019



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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Roads within US Forest Service Lands.....FSTopo  
Data with limited Forest Service updates, 2012 - 2015  
Names.....National Hydrography Dataset, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010 - 2018  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1982 - 1983



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
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QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES

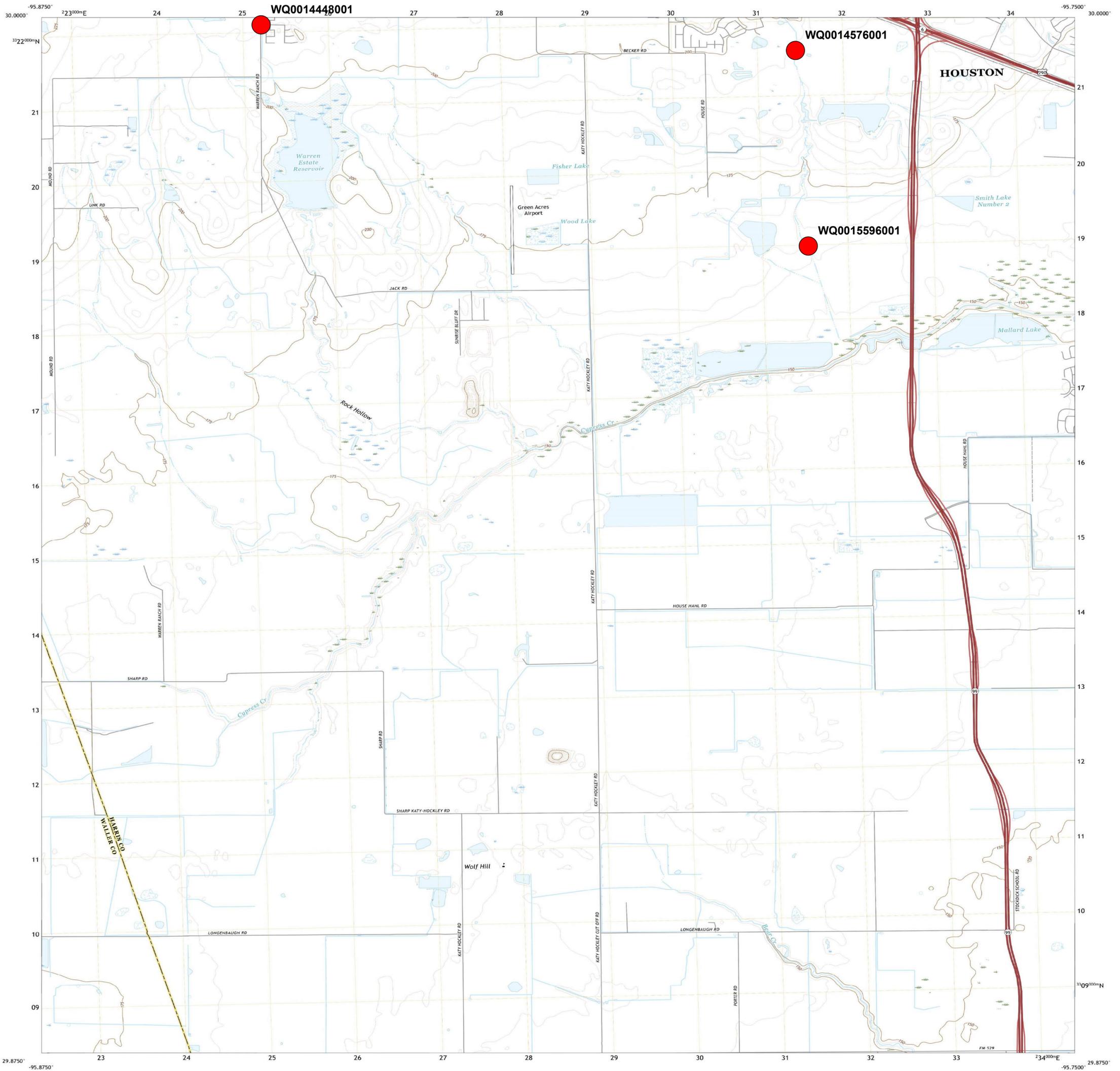
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- 2 Staley
- 3 Carlisle
- 4 Phelps
- 5 Stephen Creek
- 6 New Waverly
- 7 Maynard
- 8 Goldspring

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
FS Primary Route	FS Passenger Route
	State Route
	Clearance Route

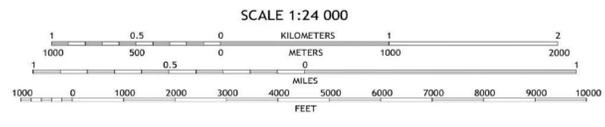
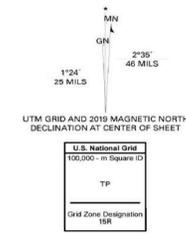
Check with local Forest Service unit for current travel conditions and restrictions.

OAKHURST, TX  
2019



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Imagery	.....NAIP, September 2016 - November 2016
Roads	.....U.S. Census Bureau, 2015
Names	.....GNS, 1979 - 2015
Hydrography	.....National Hydrography Dataset, 2002 - 2018
Contours	.....National Elevation Dataset, 2010
Boundaries	.....Multiple sources, see metadata file 2016 - 2017
Wetlands	.....FWS National Wetlands Inventory 1993



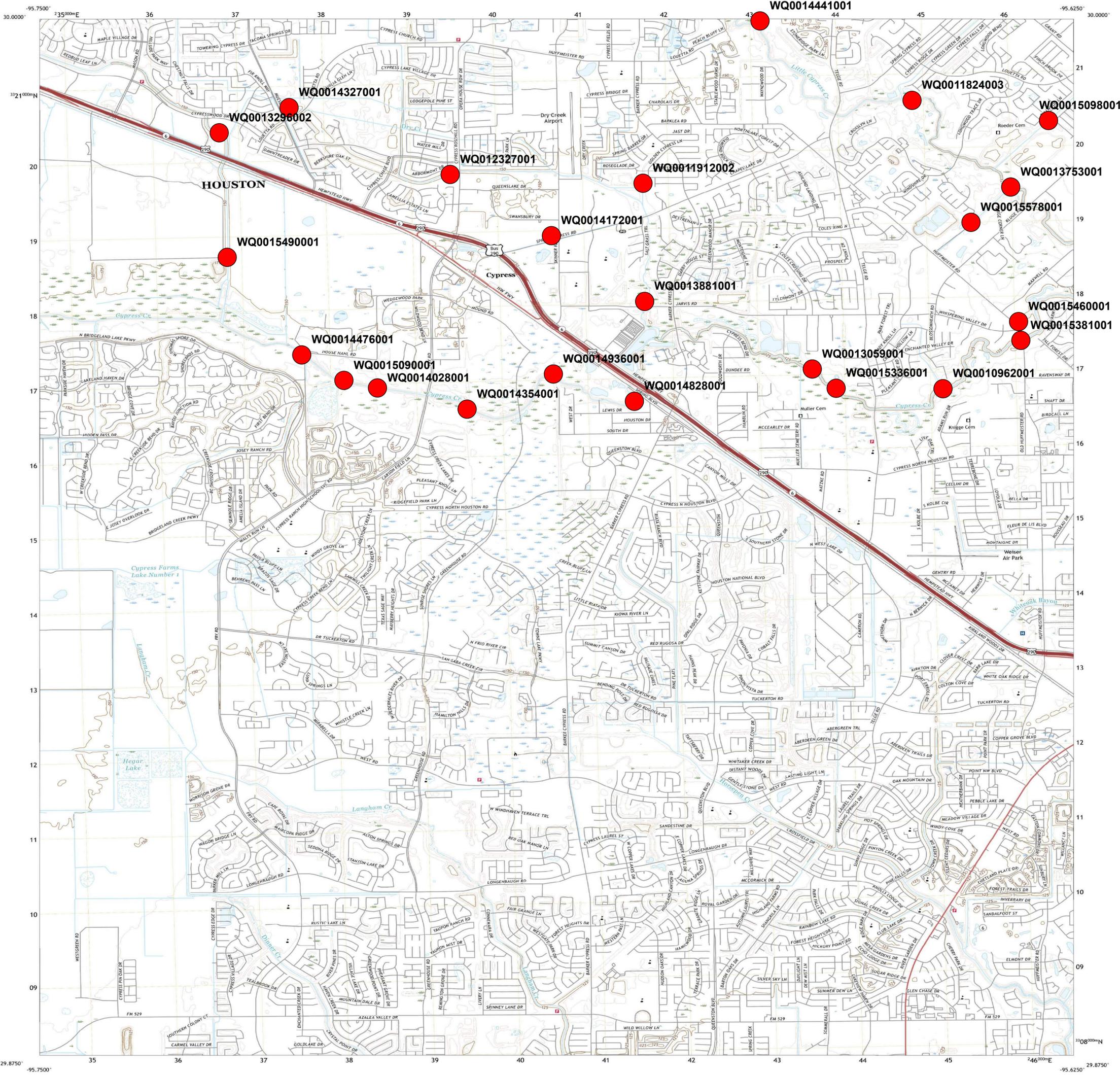
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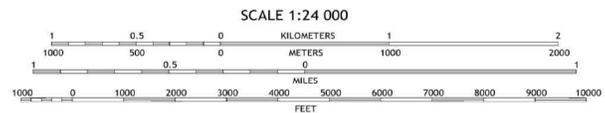
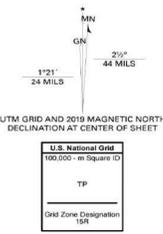
ADJOINING QUADRANGLES

1	2	3	1 Waller
4	5	6	2 Hockley
7	8	7	3 Rose Hill
		8	4 Hockley Mound
			5 Cypress
			6 Brookshire
			7 Katy
			8 Addicks





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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources, metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1992 - 1993



SCALE 1:24 000  
CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
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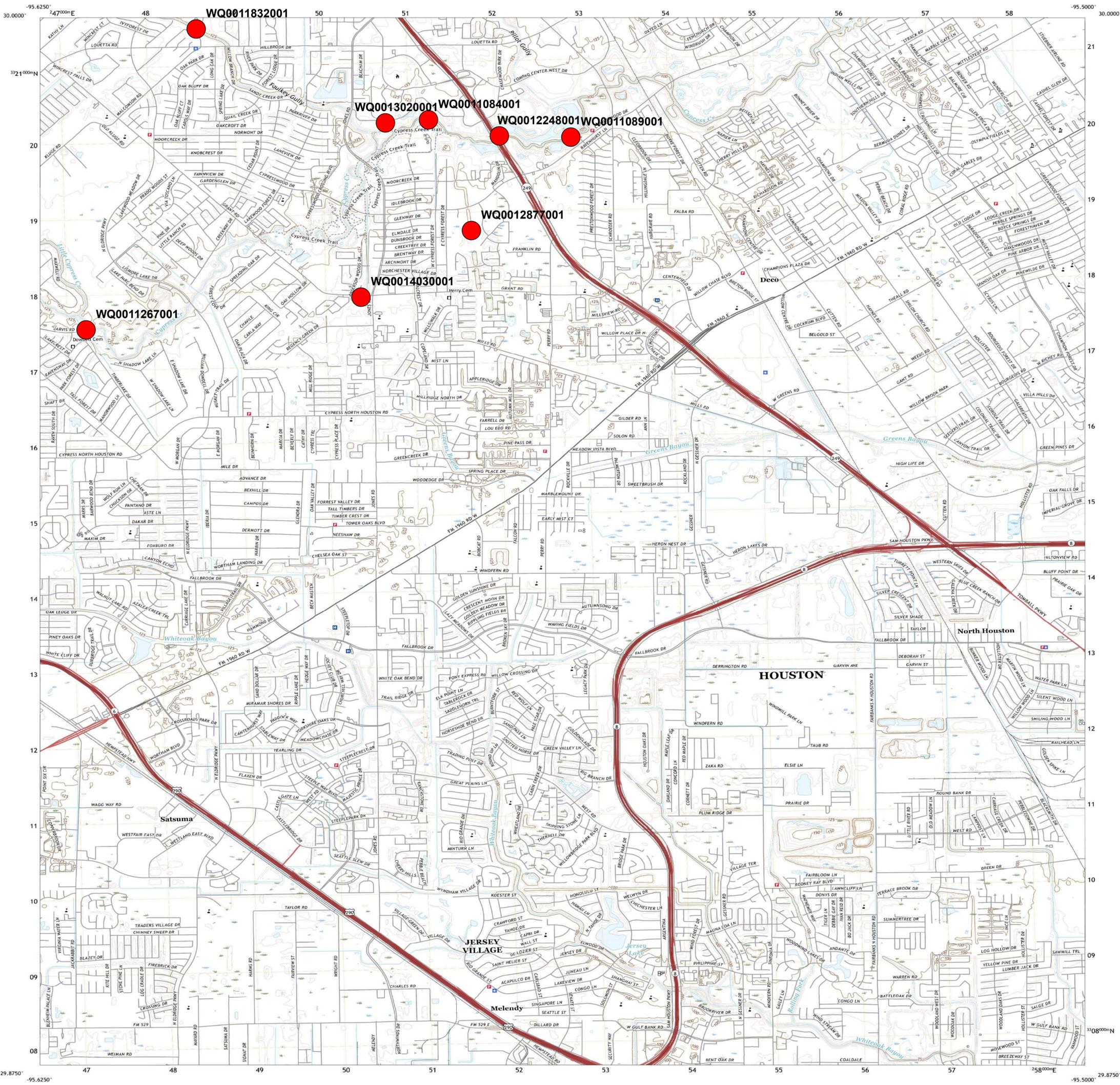


ADJOINING QUADRANGLES

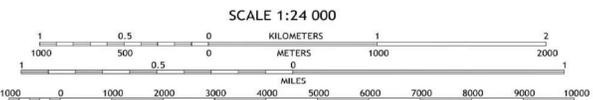
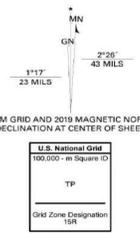
1	2	3
4	5	6
7	8	

1 Hockley  
2 Rose Hill  
3 Tomball  
4 Warren Lake  
5 Satsuma  
6 Katy  
7 Addicks  
8 Hedwig Village





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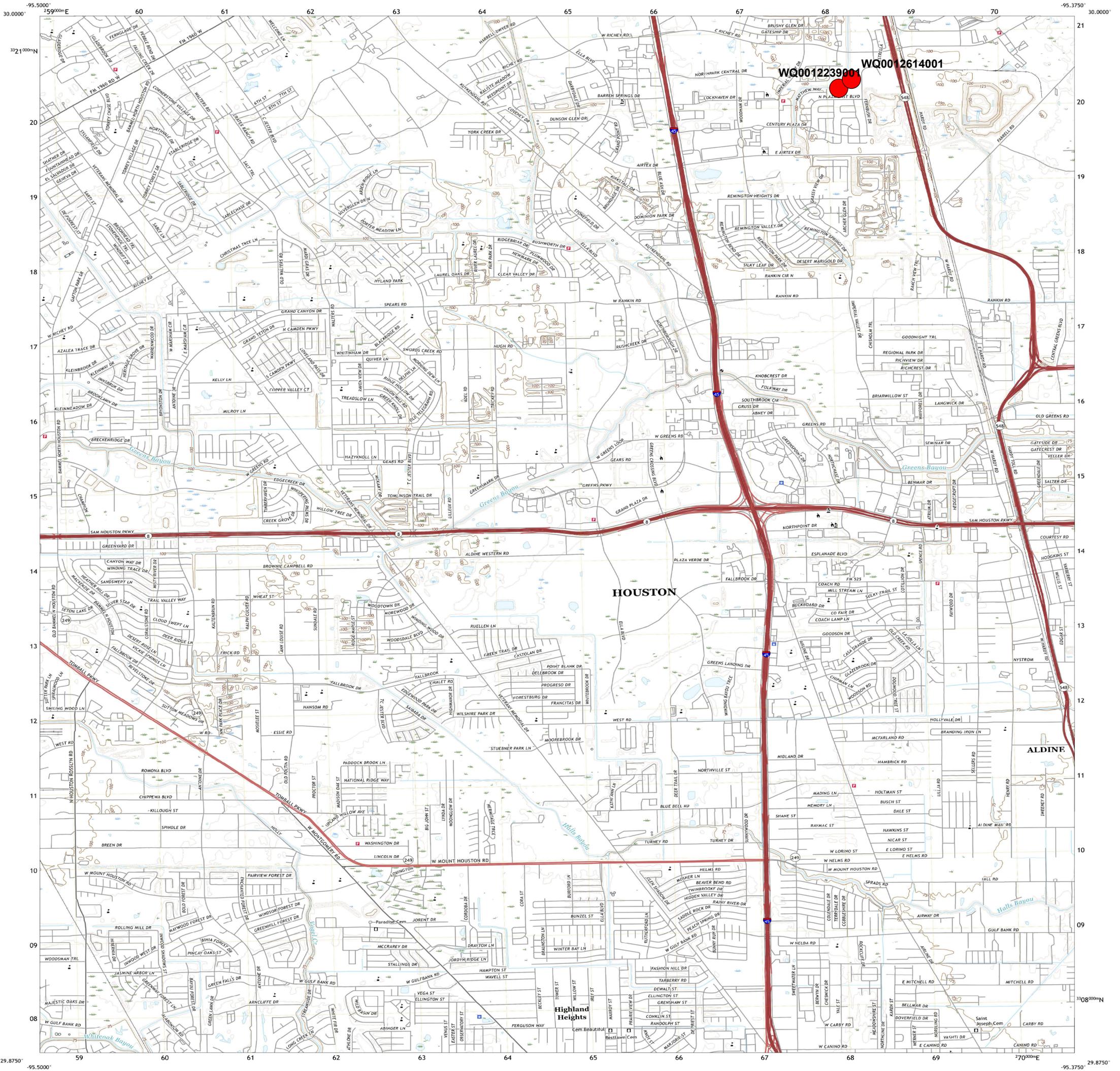


CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

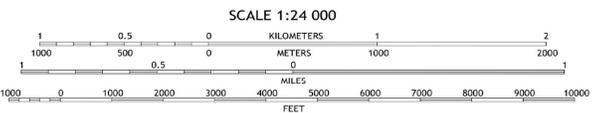


ADJOINING QUADRANGLES table with 3x3 grid of numbers 1-9 and corresponding place names: 1 Rose Hill, 2 Tomball, 3 Spring, 4 Cypress, 5 Aldine, 6 Addicks, 7 Hedwig Village, 8 Houston Heights.

ROAD CLASSIFICATION table with symbols for Expressway, Secondary Hwy, Ramp, Interstate Route, Local Connector, Local Road, 4WD, US Route, and State Route.



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CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

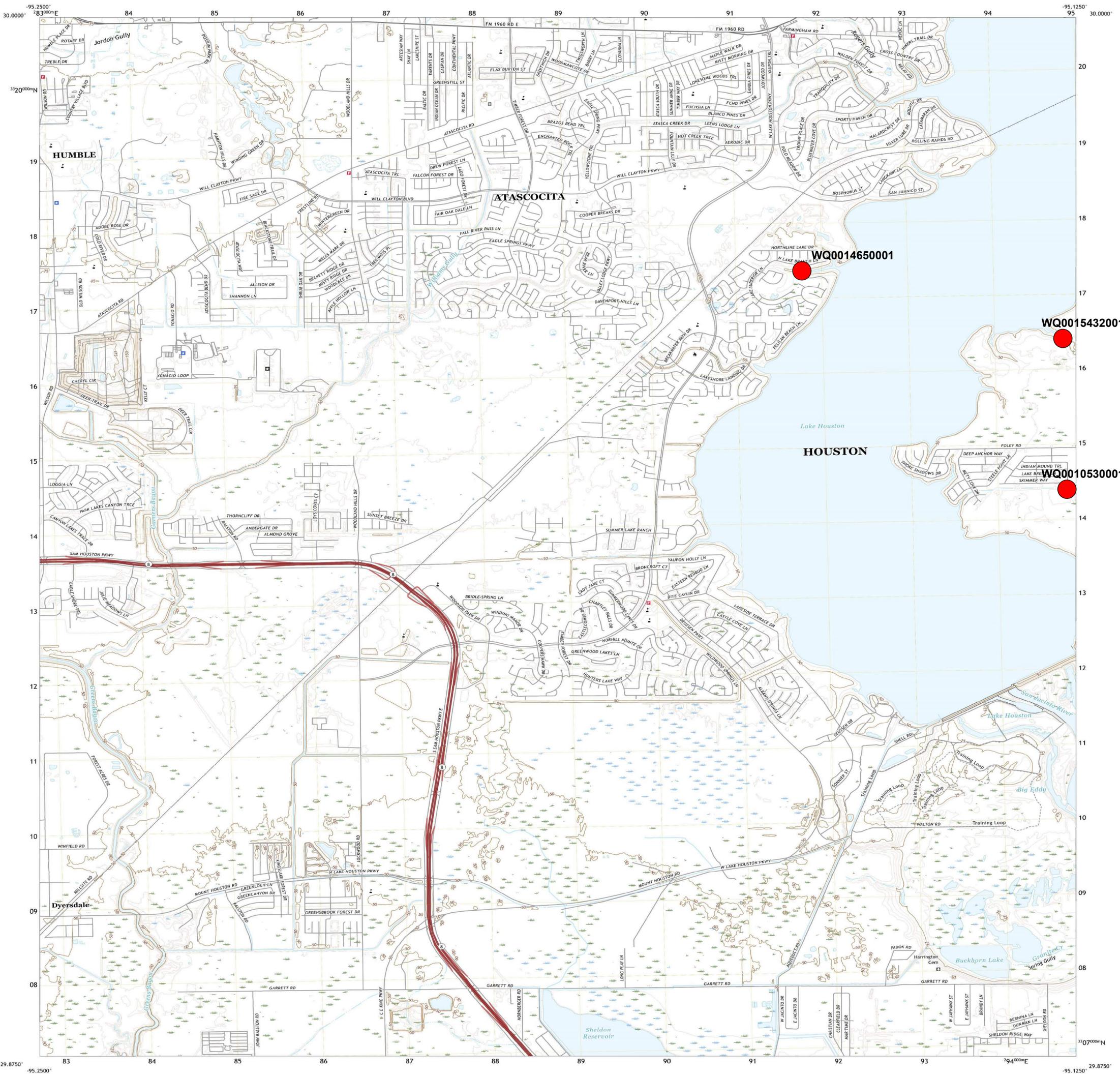


ROAD CLASSIFICATION

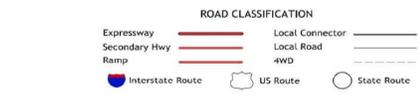
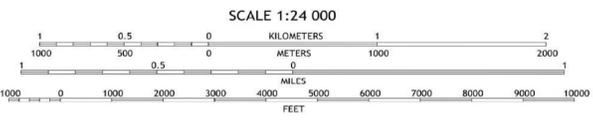
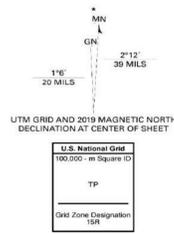
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

ADJOINING QUADRANGLES

1	2	3	1 Tomball
4	5	6	2 Spring
6	7	8	3 Maedan
			4 Sattsuma
			5 Humble
			6 Hedwig Village
			7 Houston Heights
			8 Settegast



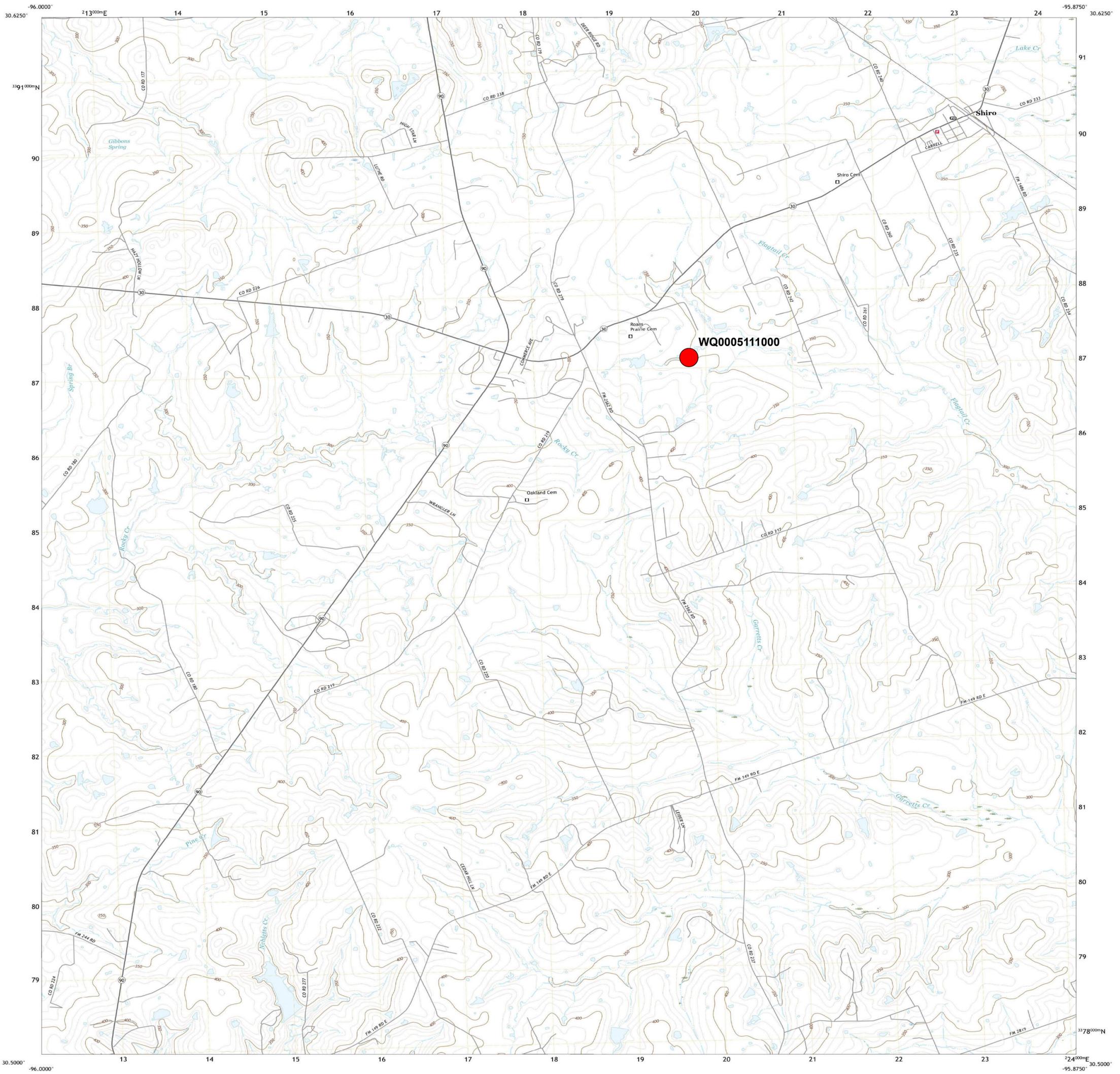
Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1:250,000 scale Universal Transverse Mercator, Zone 15R. This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.



ADJOINING QUADRANGLES

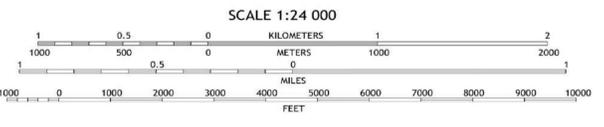
1	2	3
4	5	6
7	8	

- 1 Maedan
- 2 Moonshine Hill
- 3 Huffman
- 4 Humble
- 5 Crosby
- 6 Settegast
- 7 Jacinto City
- 8 Highlands



**Produced by the United States Geological Survey**  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1,000-meter grid: Universal Transverse Mercator, Zone 14R15R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2003 - 2008  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1981 - 1993



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

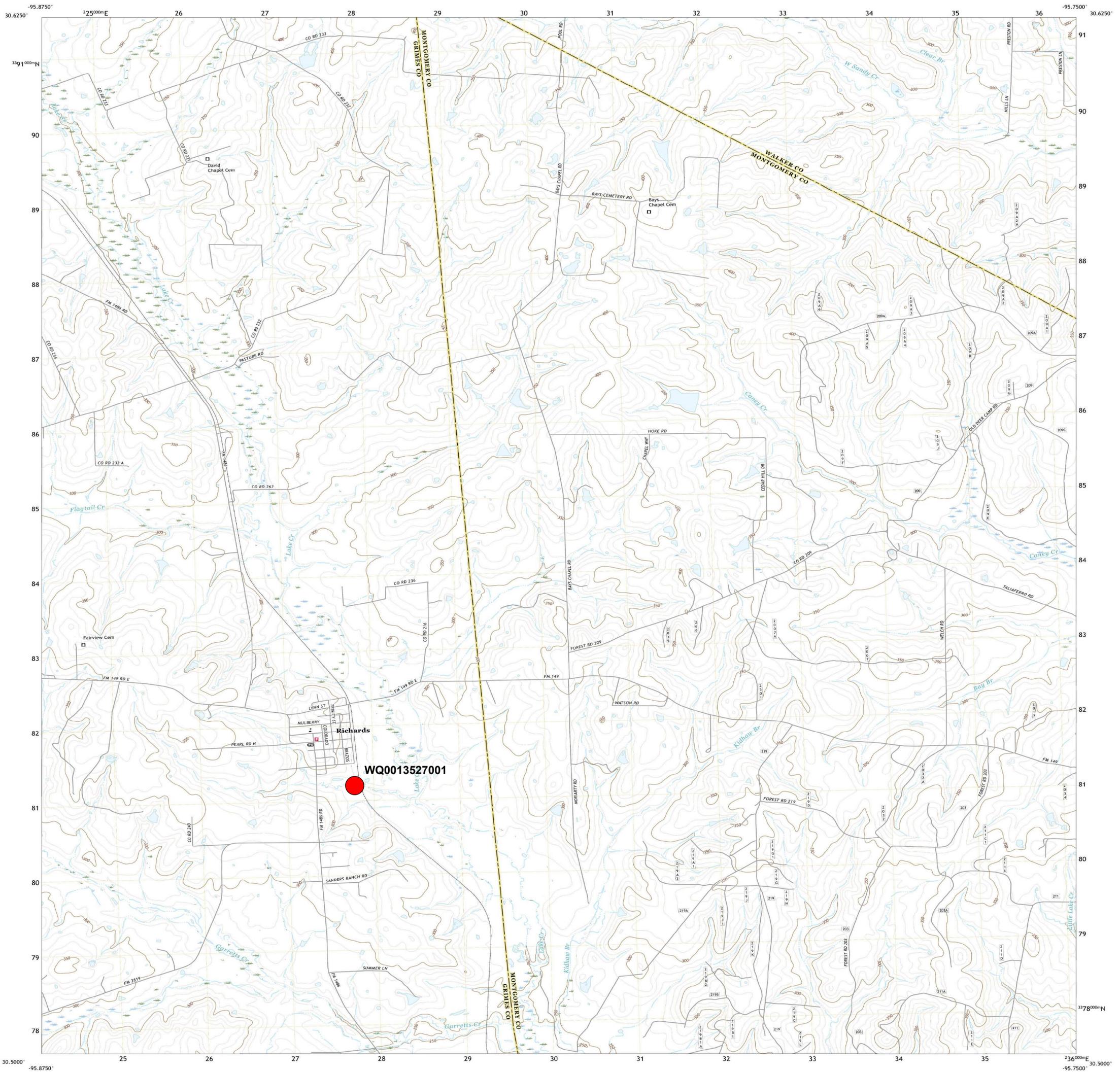
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



1	2	3	1 Keith
2	3	4	2 Singleton
3	4	5	3 Loma
4	5	6	4 Carlos
5	6	7	5 Richards
6	7	8	6 Navasota
7	8		7 Anderson
8			8 Dacus

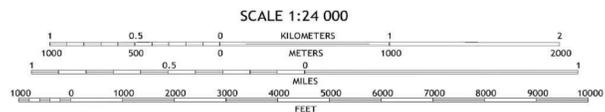
ADJOINING QUADRANGLES





Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84), Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery: NAIP, September 2016 - November 2016  
Roads: U.S. Census Bureau, 2015 Data with limited Forest Service updates, 2012 - 2018  
Names: National Hydrography Dataset, 2003 - 2018  
Contours: National Elevation Dataset, 2003 - 2015  
Boundaries: Multiple sources; see metadata file  
Wetlands: FWS National Wetlands Inventory 1982 - 1993



CONTOUR INTERVAL 10 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18



ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	

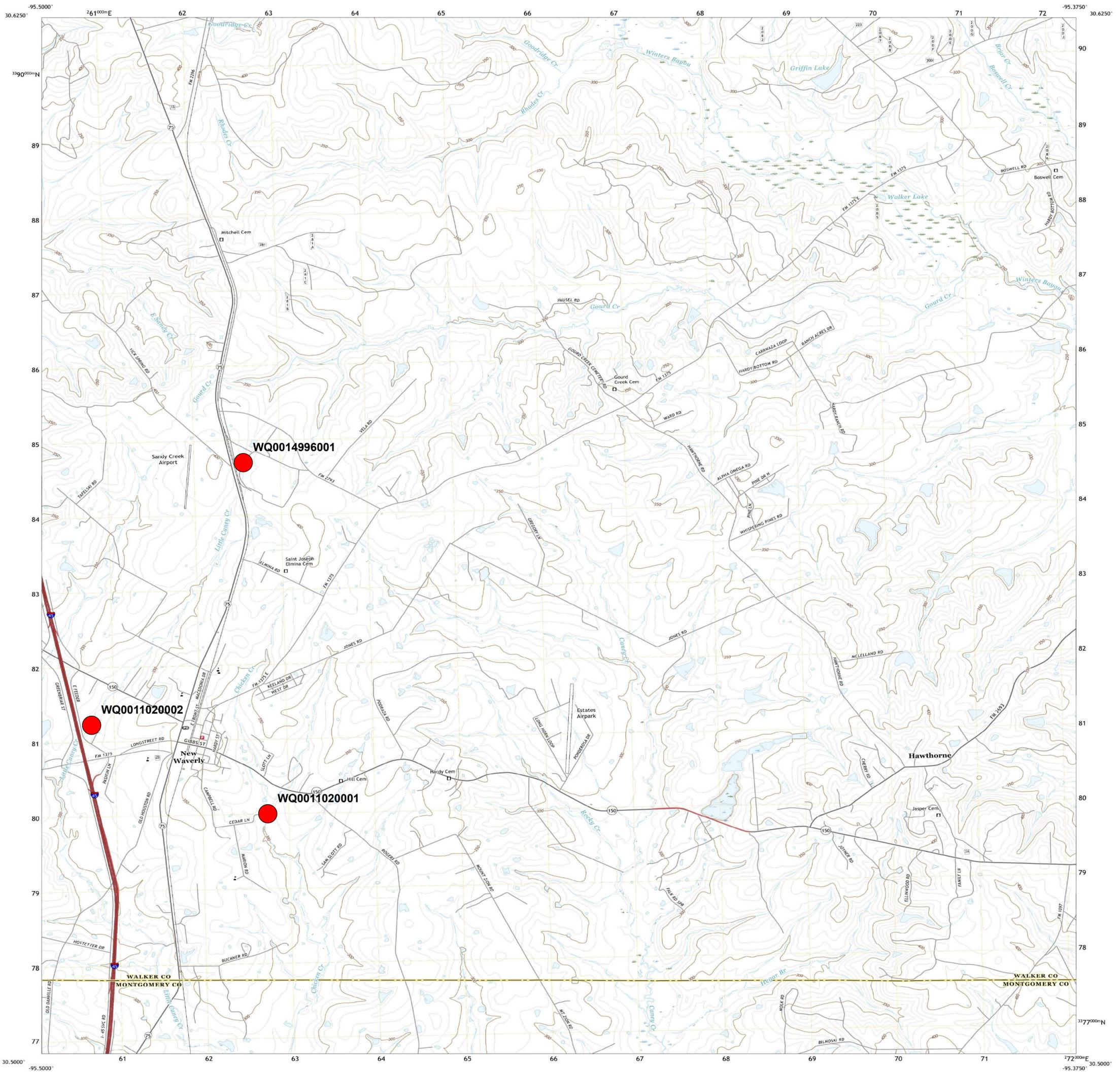
1 Singleton  
2 Loma  
3 Galliee  
4 Roars Prairie  
5 San Jacinto  
6 Anderson  
7 Dacus  
8 Montgomery

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
FS Primary Route	FS Passenger Route
	FS High Clearance Route

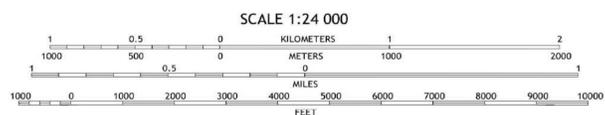
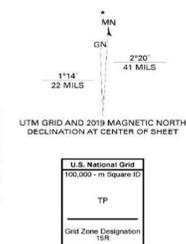
Check with local Forest Service unit for current travel conditions and restrictions.

RICHARDS, TX 2019



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84) Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
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entering private lands.

Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Roads within US forest service Lands.....FSTopo Data  
with limited Forest Service updates, 2012 - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2003 - 2018  
Boundaries.....Multiple sources see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1982 - 1993



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	

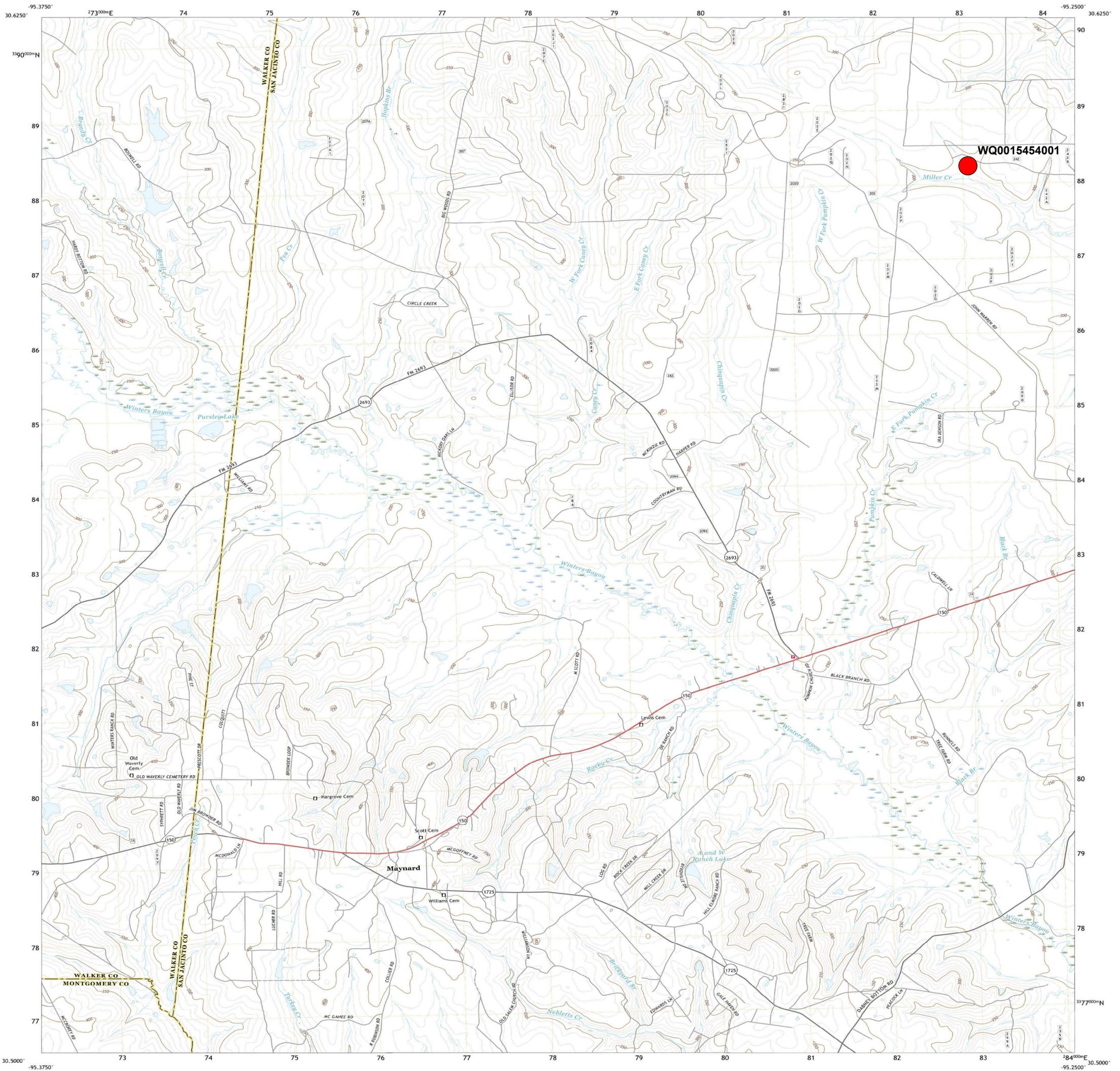
1 Huntsville  
2 Pheasant  
3 Oakhurst  
4 Moore Grove  
5 Maynard  
6 Sheppard Hill  
7 Willis  
8 Conroe NE

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
FS Primary Route	State Route
	FS Passenger Route
	FS High Clearance Route

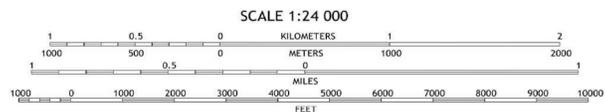
Check with local Forest Service unit for current travel conditions and restrictions.

**NEW WAVERLY, TX**  
2019



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84), Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Metadata table listing sources for Imagery, Roads, Names, Contours, Boundaries, and Wetlands, including dates and organizations like NAIP, U.S. Census Bureau, and FWS.



CONTOUR INTERVAL 10 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

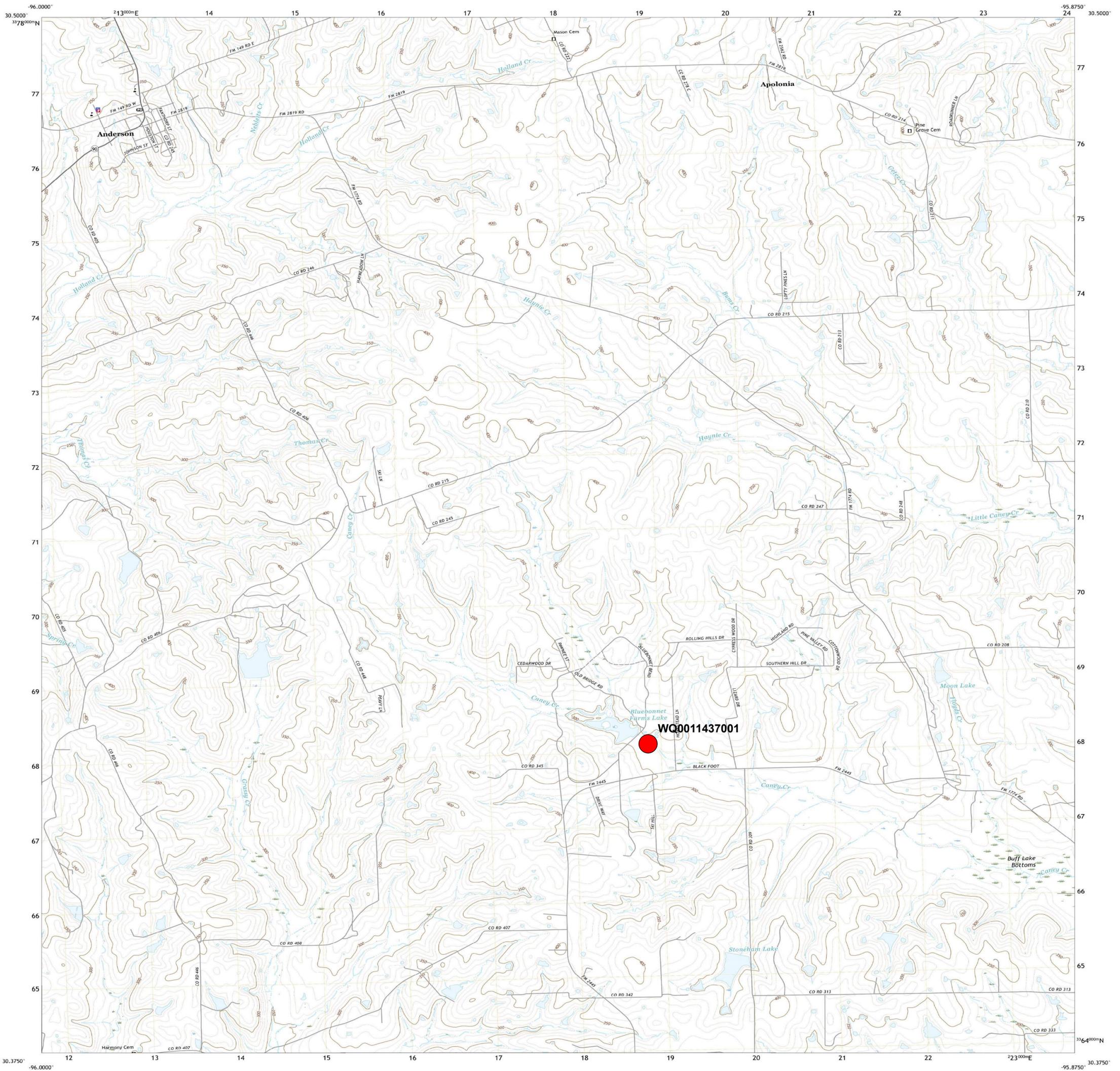


Table of adjoining quadrangles with a grid of numbers 1-8 and corresponding names like Phelis, Oakhurst, Stephen Creek, etc.

ROAD CLASSIFICATION legend showing symbols for Expressway, Secondary Hwy, Ramp, Interstate Route, FS Primary Route, Local Connector, Local Road, 4WD, US Route, FS Passenger Route, State Route, and Clearance Route.

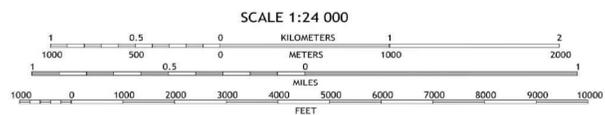
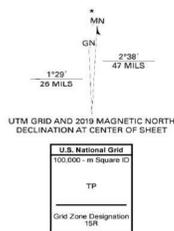
Check with local Forest Service unit for current travel conditions and restrictions.

MAYNARD, TX 2019



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 14R15R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

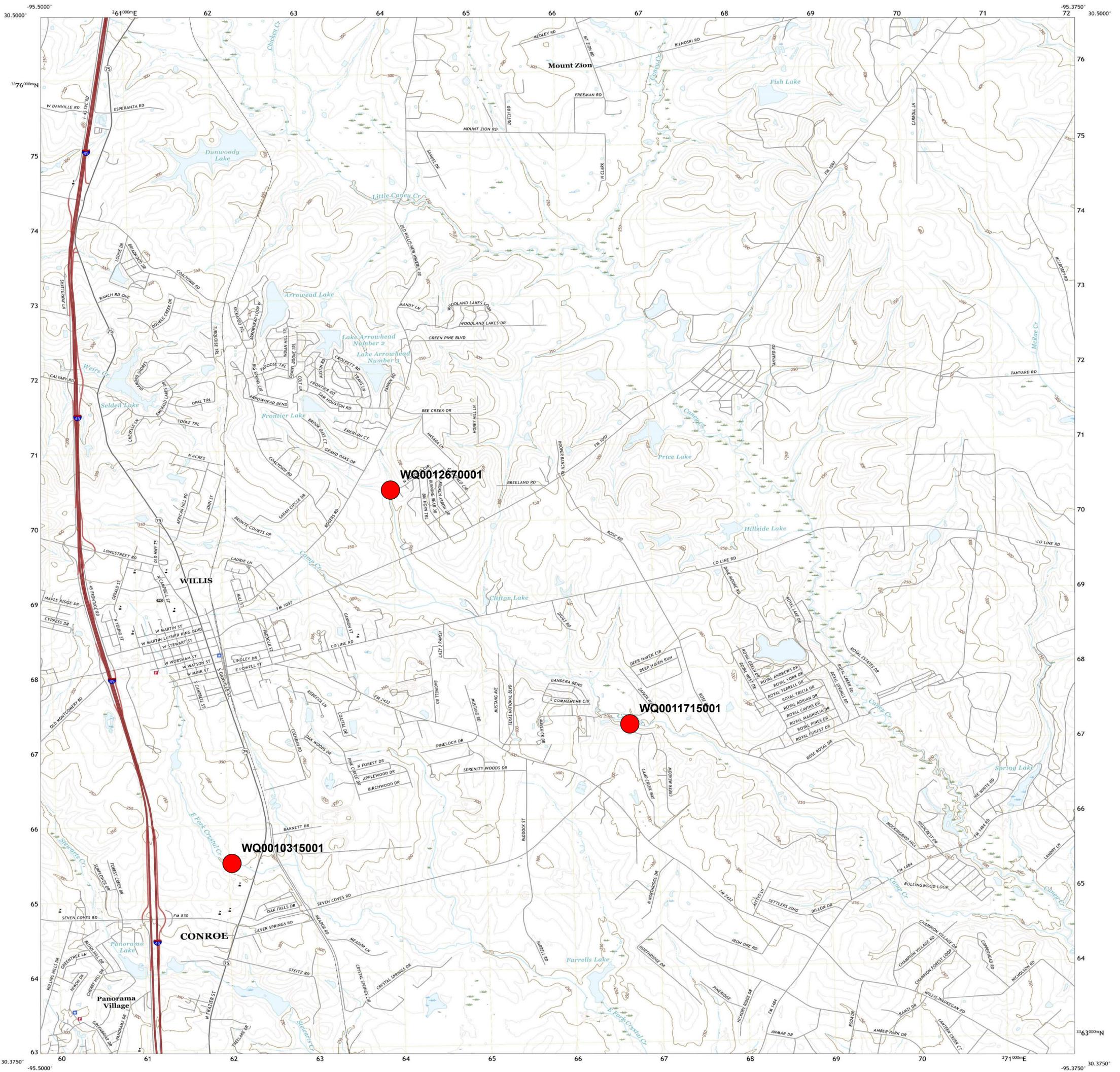
Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2003  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1982 - 1993



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

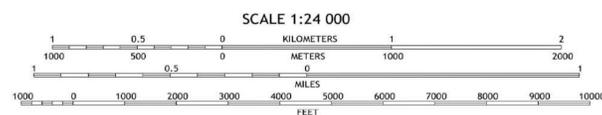
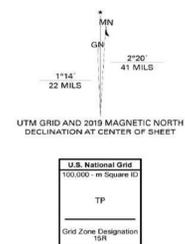
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18





**Produced by the United States Geological Survey**  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84), Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
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entering private lands.

Imagery:.....NAIP, September 2016 - November 2016  
Roads:.....US Census Bureau, 2015  
Roads within US Forest Service Lands:.....FSTopo  
Data with limited Forest Service updates, 2012 - 2015  
Names:.....GNIS, 1979 - 2018  
Hydrography:.....National Hydrography Dataset, 2003 - 2018  
Contours:.....National Elevation Dataset, 2010 - 2018  
Boundaries:.....Multiple sources; see metadata file 2016 - 2017  
Wetlands:.....FWS National Wetlands Inventory 1983 - 1993



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	

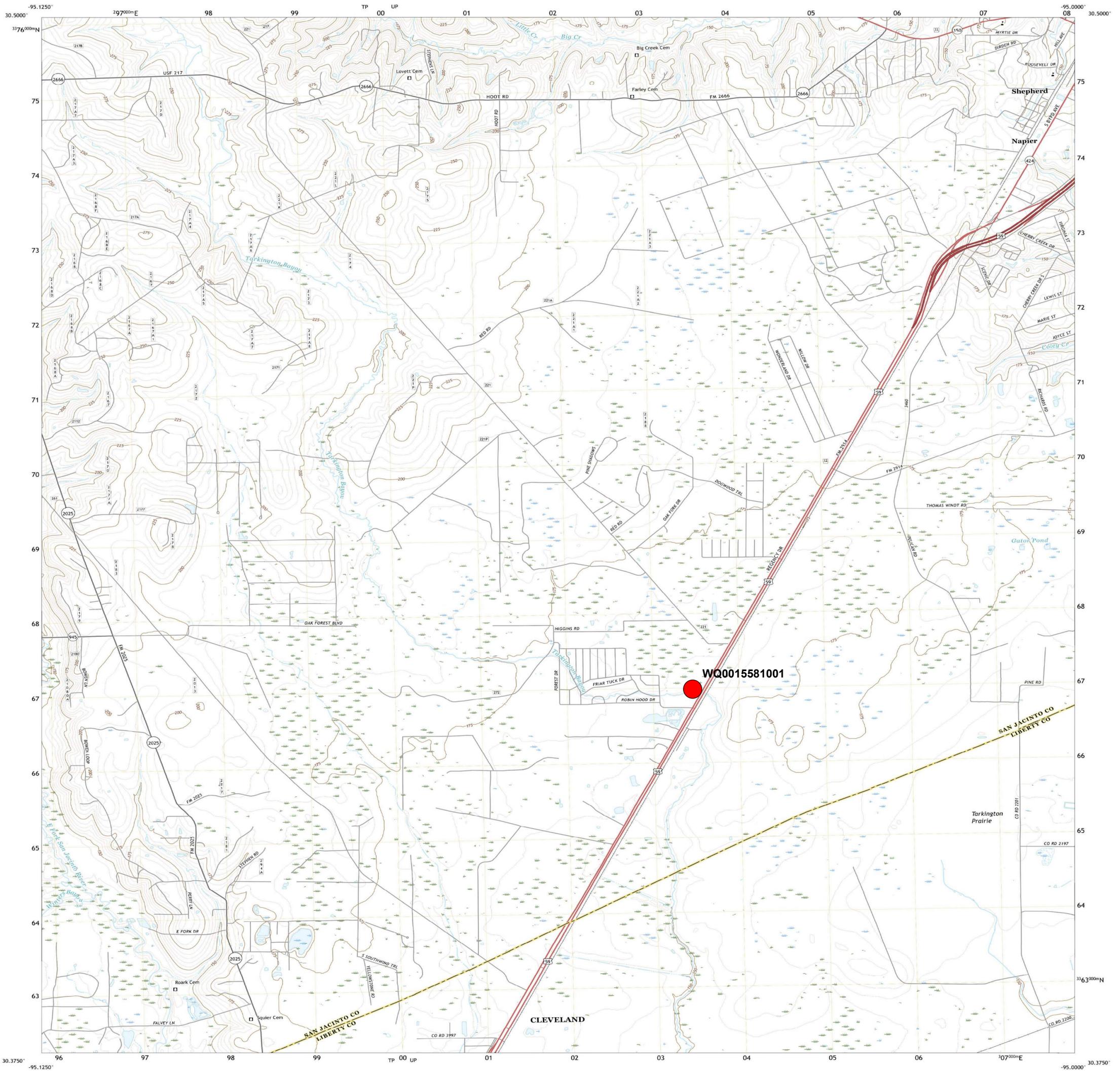
ADJOINING QUADRANGLES

**ROAD CLASSIFICATION**

Expressway	Local Connector	State Route
Secondary Hwy	Local Road	US Route
Ramp	4WD	FS High Clearance Route
Interstate Route	US Route	FS Passenger Route
FS Primary Route	FS Passenger Route	FS High Clearance Route

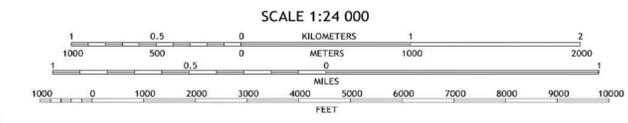
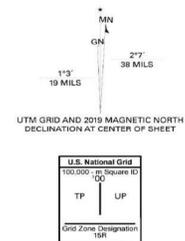
Check with local Forest Service unit for current travel conditions and restrictions.

**WILLIS, TX**  
2019



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84) Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15R

Imagery: NIP, September 2016 - November 2016 Roads: U.S. Census Bureau, 2015 Data with limited Forest Service updates, 2012 - 2018 Names: National Hydrography Dataset, 2003 - 2018 Contours: National Elevation Dataset, 2018 Boundaries: Multiple sources, 2016 - 2017 Wetlands: FWS National Wetlands Inventory 1983 - 1993



CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18



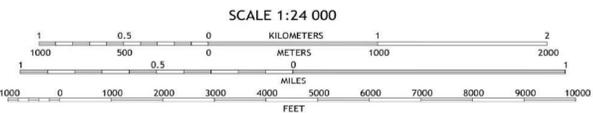
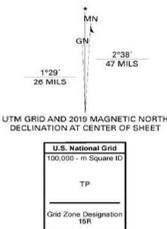
Table with 3 columns and 3 rows showing adjacent quadrangles and their names: 1 Cold Spring, 2 Camilla, 3 Goodrich, 4 Bear Creek, 5 Rayburn, 6 Fostoria, 7 Cleveland, 8 Tarkington Prairie

ROAD CLASSIFICATION legend table with symbols for Expressway, Secondary Hwy, Ramp, Interstate Route, FS Primary Route, Local Connector, Local Road, 4WD, US Route, FS Passenger Route, State Route, FS High Clearance Route

Check with local Forest Service unit for current travel conditions and restrictions.



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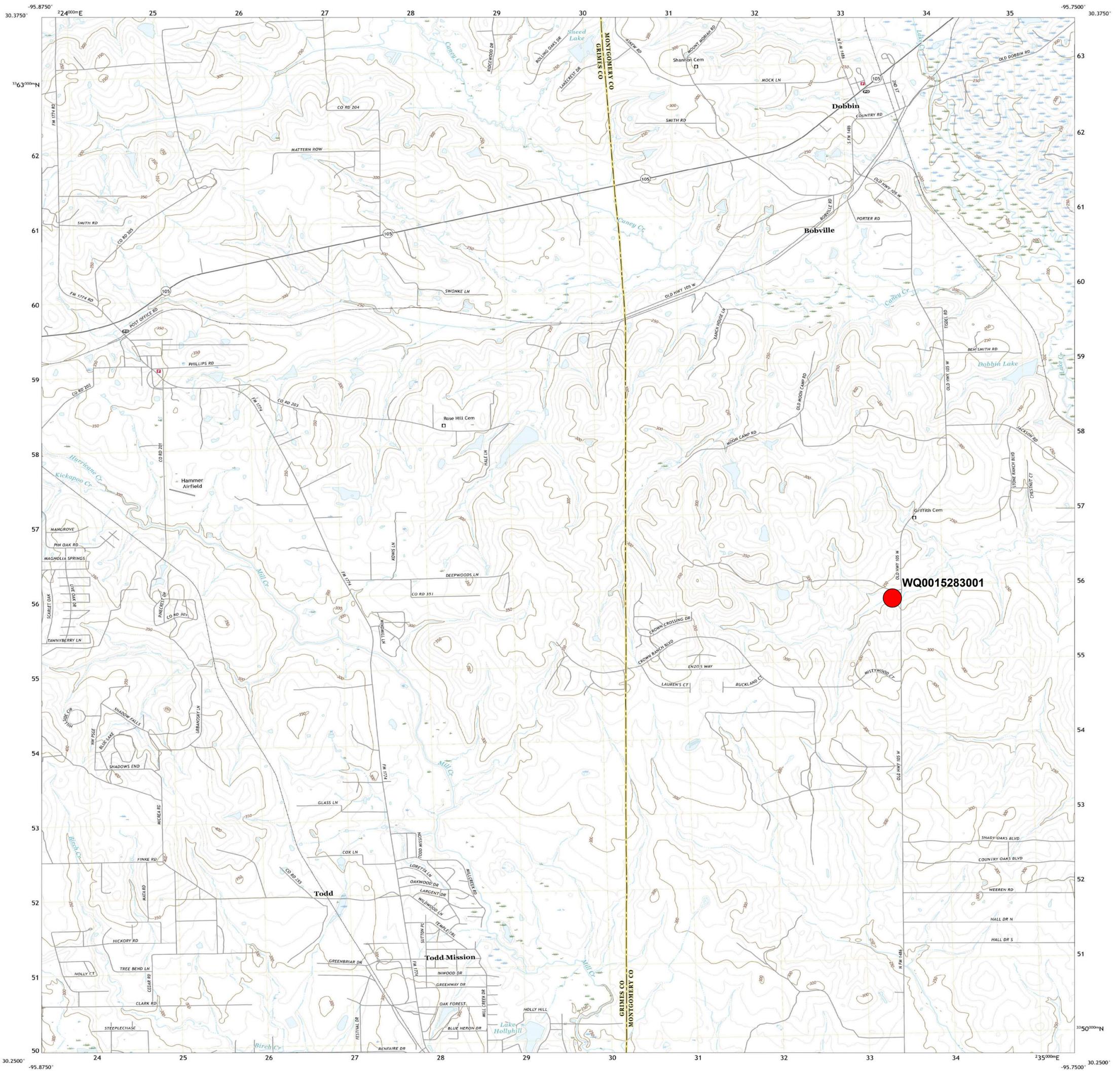
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

ADJOINING QUADRANGLES

1	2	3	1 Navasota
4	5		2 Anderson
6	7	8	3 Dacus
			4 Courtney
			5 Plantersville
			6 Howth
			7 Waller NW
			8 Magnolia West

CONTOUR INTERVAL 10 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

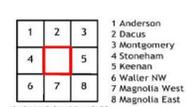


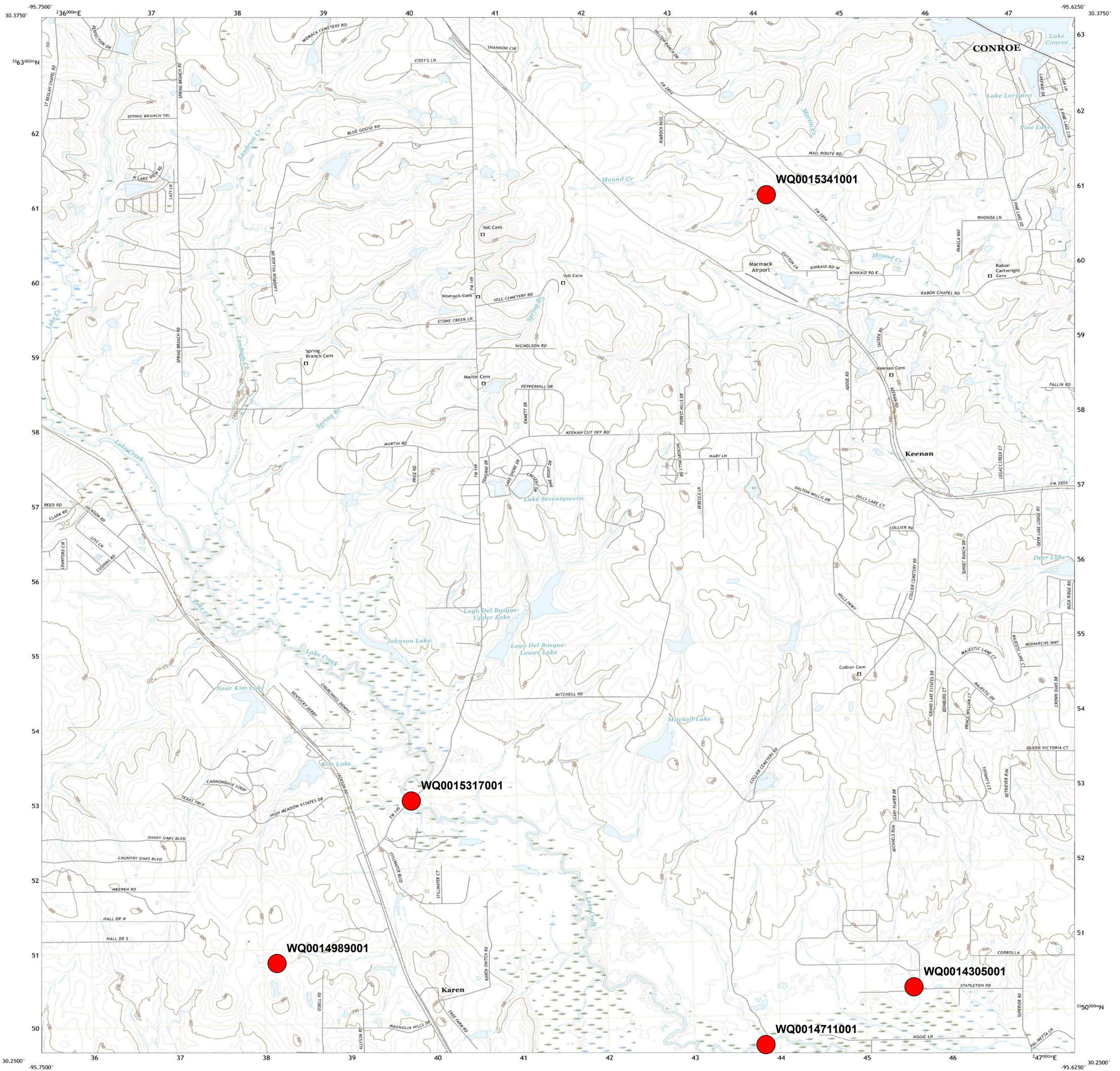
Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
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entering private lands.

Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS - 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2003 - 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



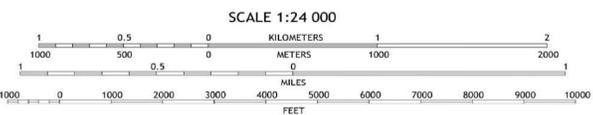
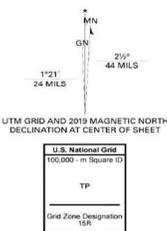
SCALE 1:24 000  
CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18





Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
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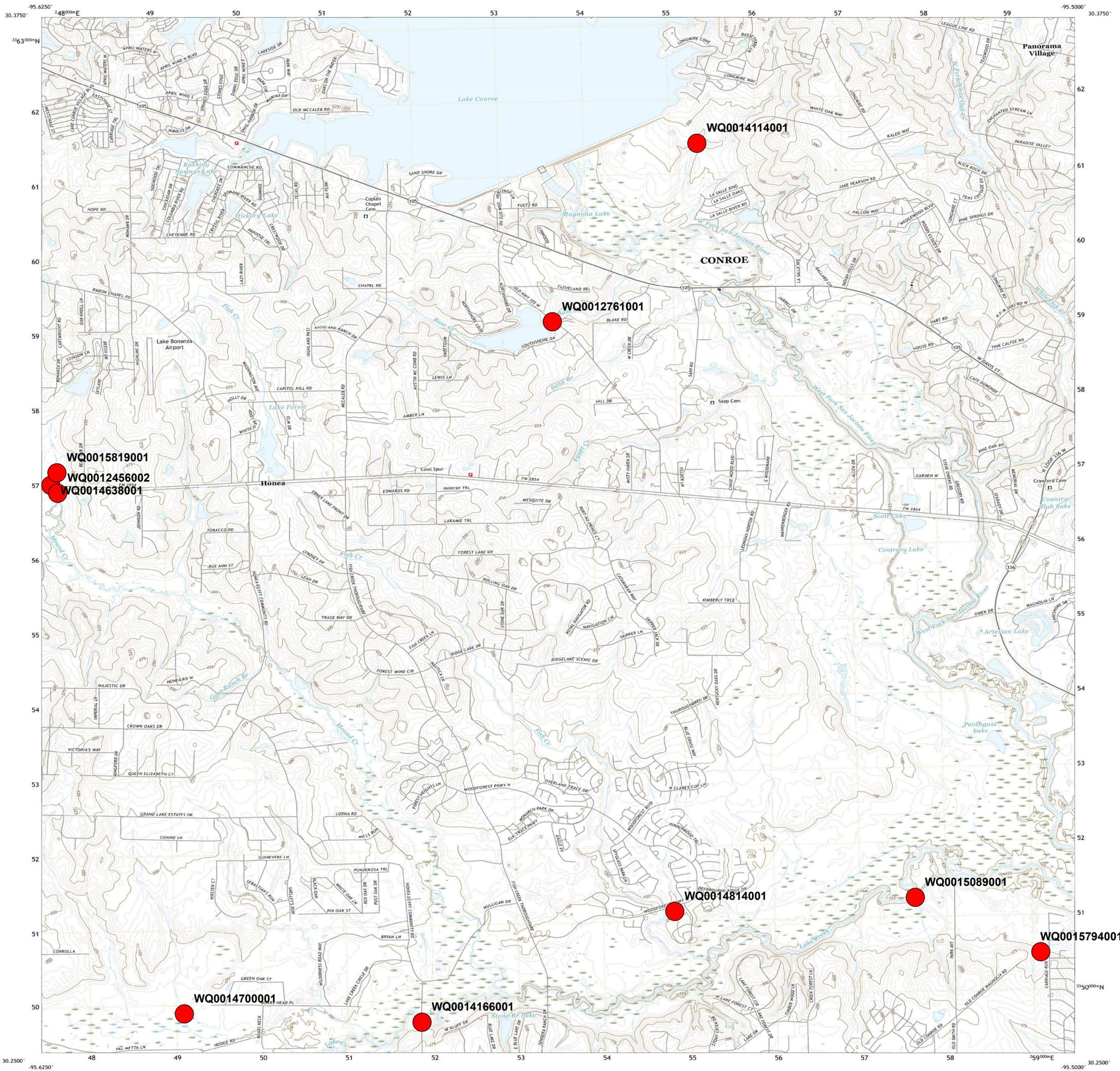
Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2003 - 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

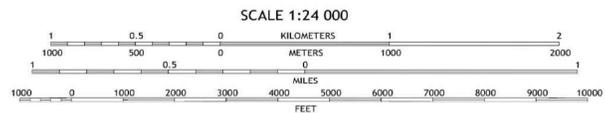
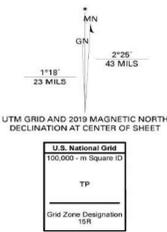
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18





Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



SCALE INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



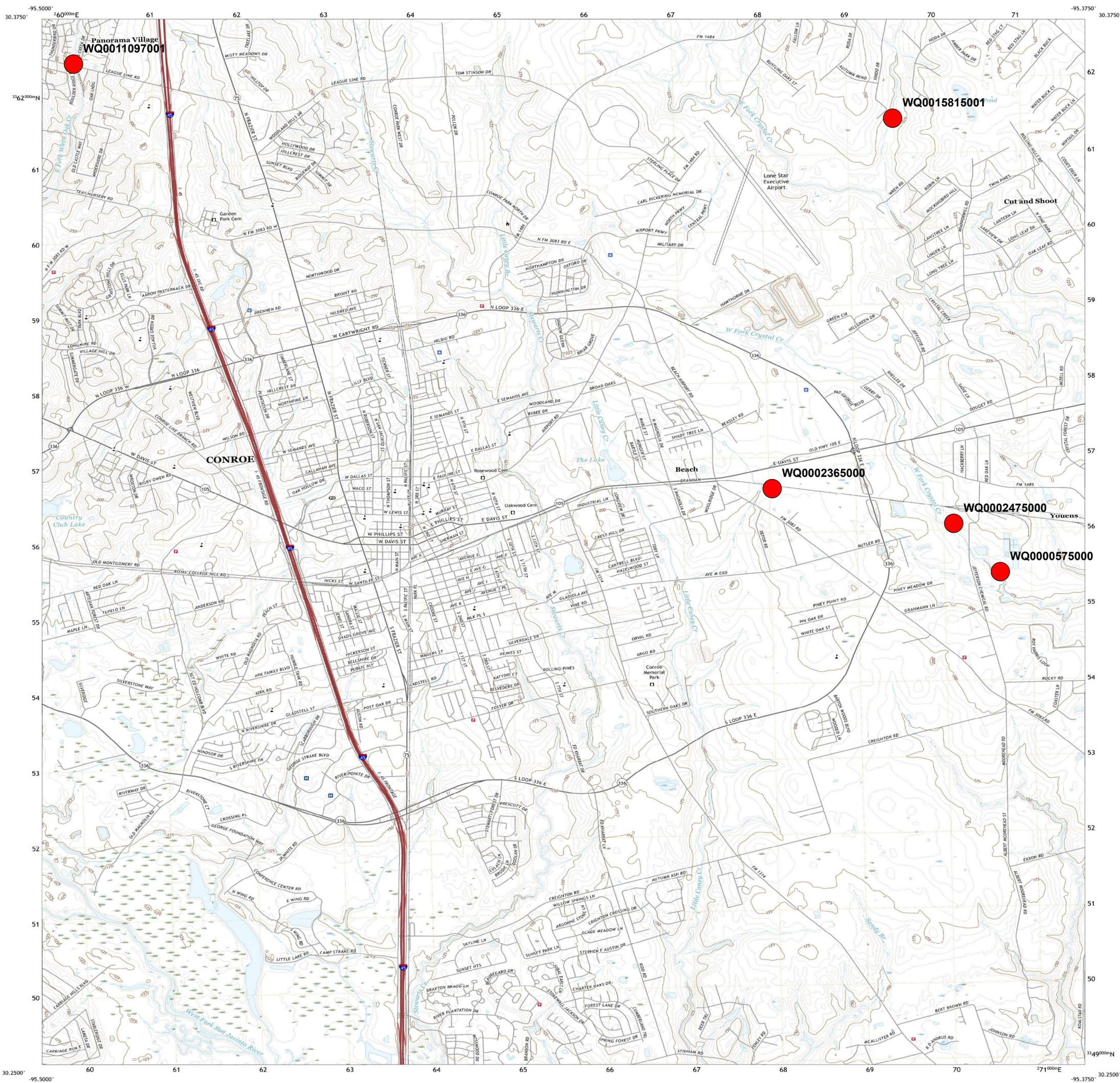
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

ADJOINING QUADRANGLES

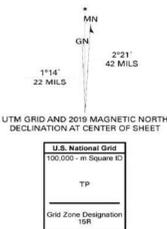
1	2	3
4	5	6
7	8	

1 Montgomery  
2 Shepard Hill  
3 Willis  
4 Keenan  
5 Conroe  
6 Magnolia East  
7 Oklahoma  
8 Tamina



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS - 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010 - 2018  
Boundaries.....Multiple sources: see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



SCALE 1:24 000

1 000 500 0 500 1000 2000  
METERS

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000  
FEET

CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



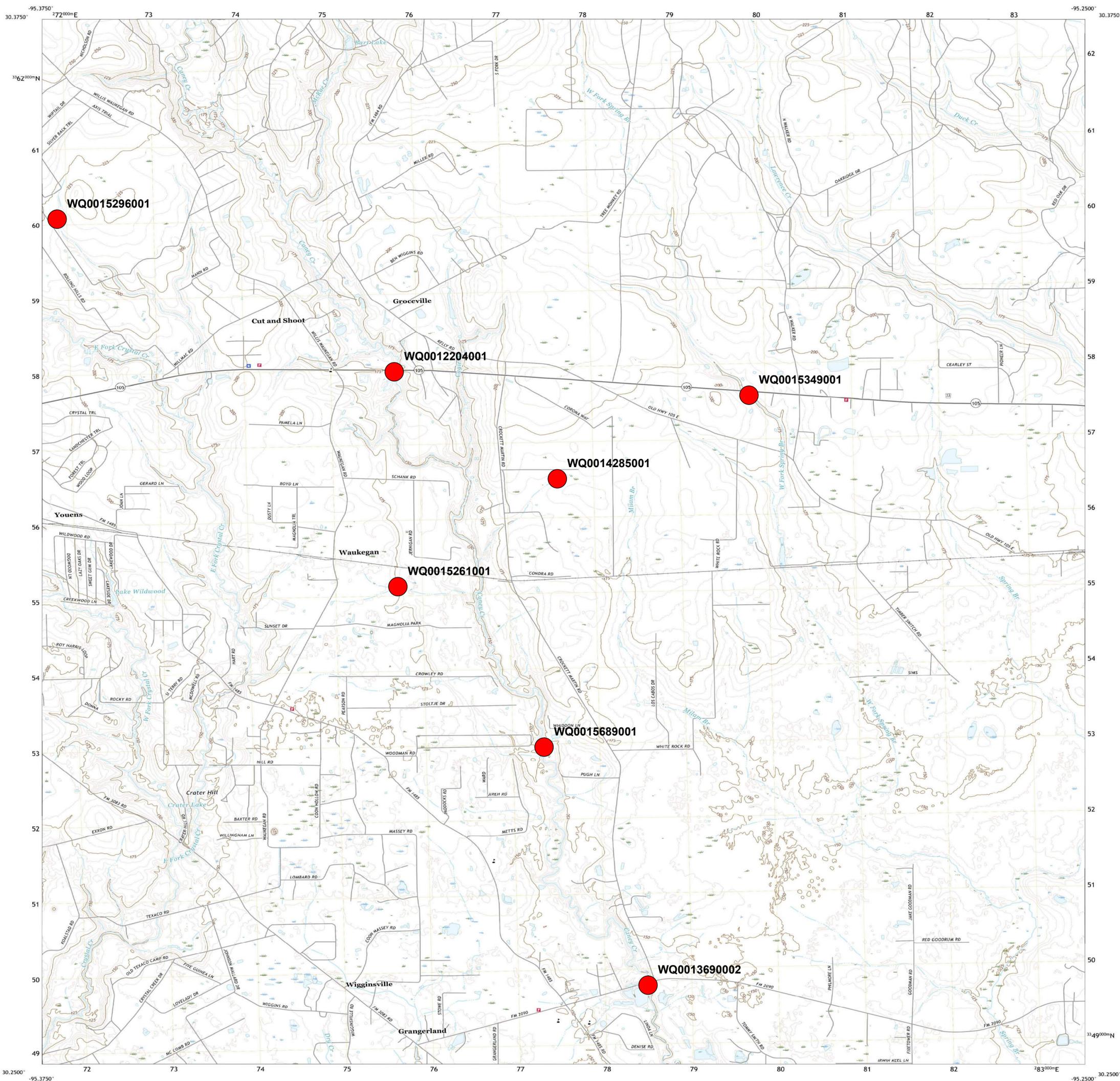
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

1	2	3
4	5	6
7	8	

ADJACENT QUADRANGLES

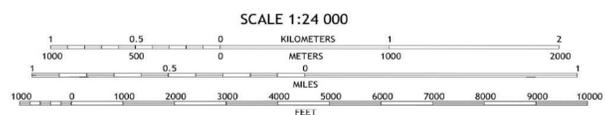
- Shepard Hill
- Willis
- Conroe NE
- Cowl Spur
- Cut And Shoot
- Oklahoma
- Tamina
- Outlaw Pond



**Produced by the United States Geological Survey**

North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84), Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
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reservations may not be shown. Obtain permission before  
entering private lands.

Imagery: NAIP, September 2016 - November 2016  
Roads: US Forest Service Lands Data  
with limited Forest Service updates, 2012  
2015  
2018  
Names: GNS, 1979 -  
Hydrography: National Hydrography Dataset, 2003 -  
2018  
Contours: National Elevation Dataset, 2010 -  
2018  
Boundaries: Multiple sources see metadata file -  
2016 -  
2017  
Wetlands: FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



QUADRANGLE LOCATION

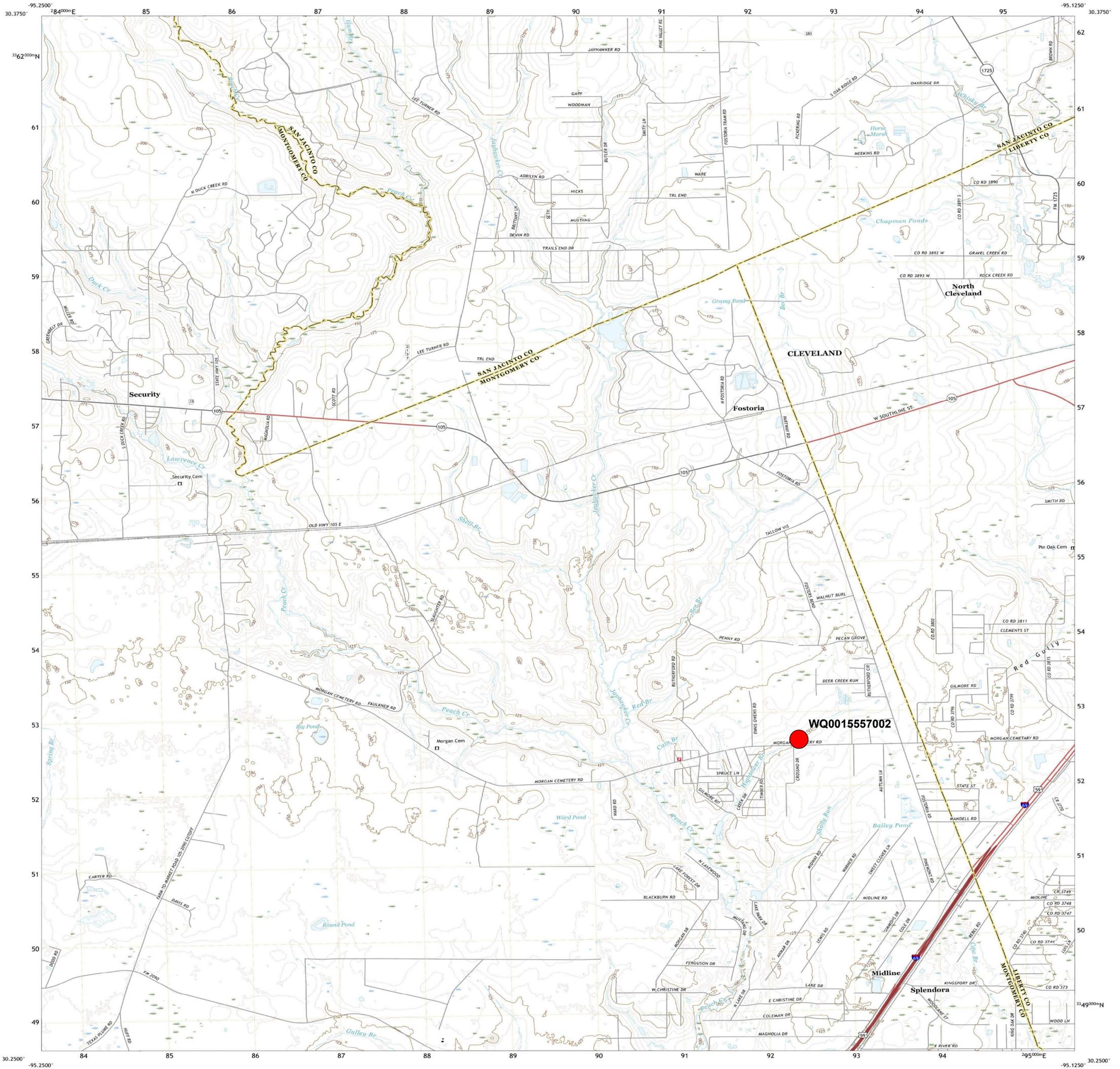
1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES

**ROAD CLASSIFICATION**

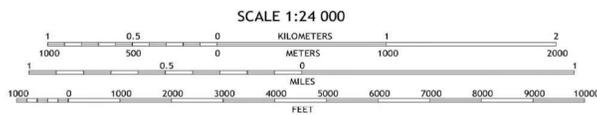
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
FS Primary Route	FS Passenger Route
	FS High Clearance Route

Check with local Forest Service unit  
for current travel conditions and restrictions.



**Produced by the United States Geological Survey**  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84), Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Data.....US Forest Service Lands, 2015  
with limited Forest Service updates, 2012 - 2018  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010 - 2018  
Boundaries.....Multiple sources, see metadata file, 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory, 1993



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES

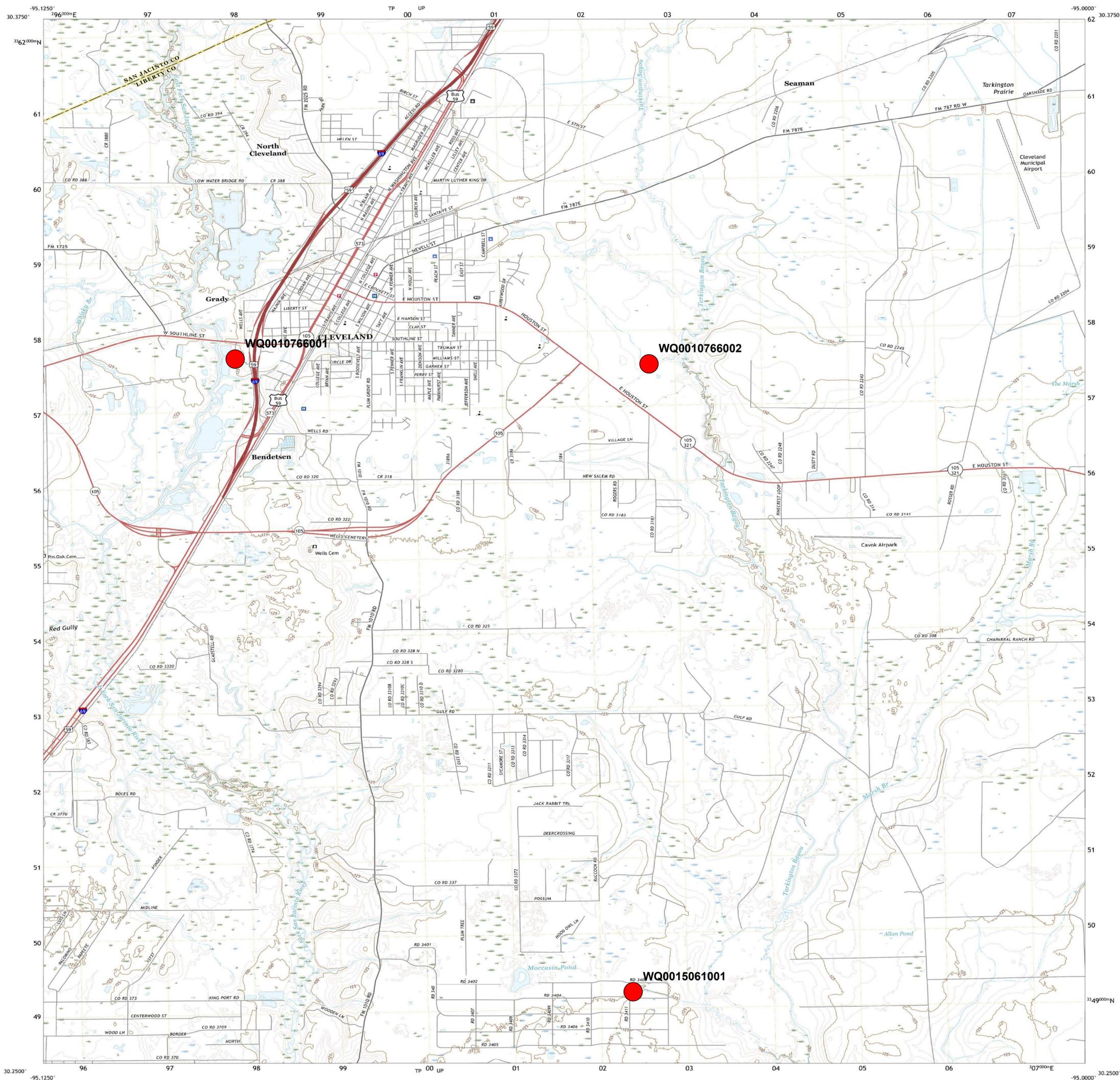
- 1 Conroe NE
- 2 Bear Creek
- 3 Westcott
- 4 Cut And Shoot
- 5 Cleveland
- 6 Outlaw Pond
- 7 Splendora
- 8 Plum Grove

**ROAD CLASSIFICATION**

Expressway	Local Connector	US Route	State Route
Secondary Hwy	Local Road	FS Primary Route	FS High Route
Ramp	4WD	FS Passenger Route	Clearance Route

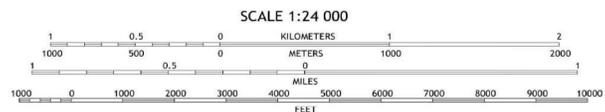
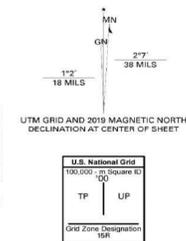
Check with local Forest Service unit for current travel conditions and restrictions.

**FOSTORIA, TX**  
2019



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84), Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15R

Imagery: NADIP, September 2016 - November 2016 Roads: US Forest Service Lands, 2015 Data with limited Forest Service updates, 2012 - 2015 Names: National Hydrography Dataset, 2003 - 2018 Contours: National Elevation Dataset, 2010 - 2018 Wetlands: FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18



ADJOINING QUADRANGLES

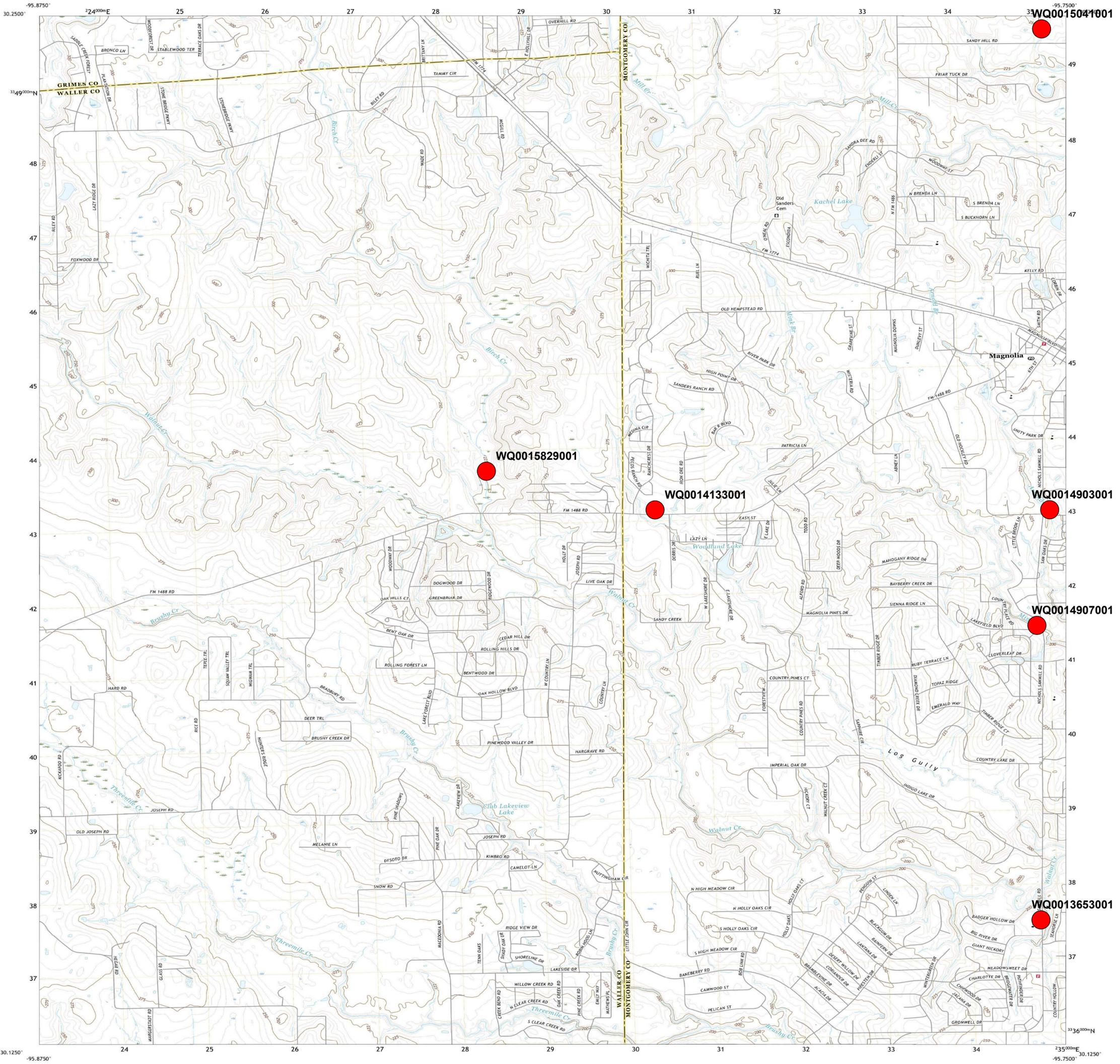
1	2	3
4	5	6
7	8	

1 Bear Creek  
2 Westcott  
3 Rayburn  
4 Fosterla  
5 Tarkington Prairie  
6 Splendorra  
7 Plum Grove  
8 Simmers Bottom

ROAD CLASSIFICATION

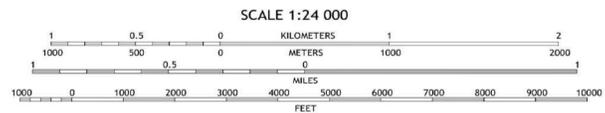
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
FS Primary Route	FS Passenger Route
	State Route
	FS High Clearance Route

Check with local Forest Service unit for current travel conditions and restrictions.



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 15R  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources: see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18

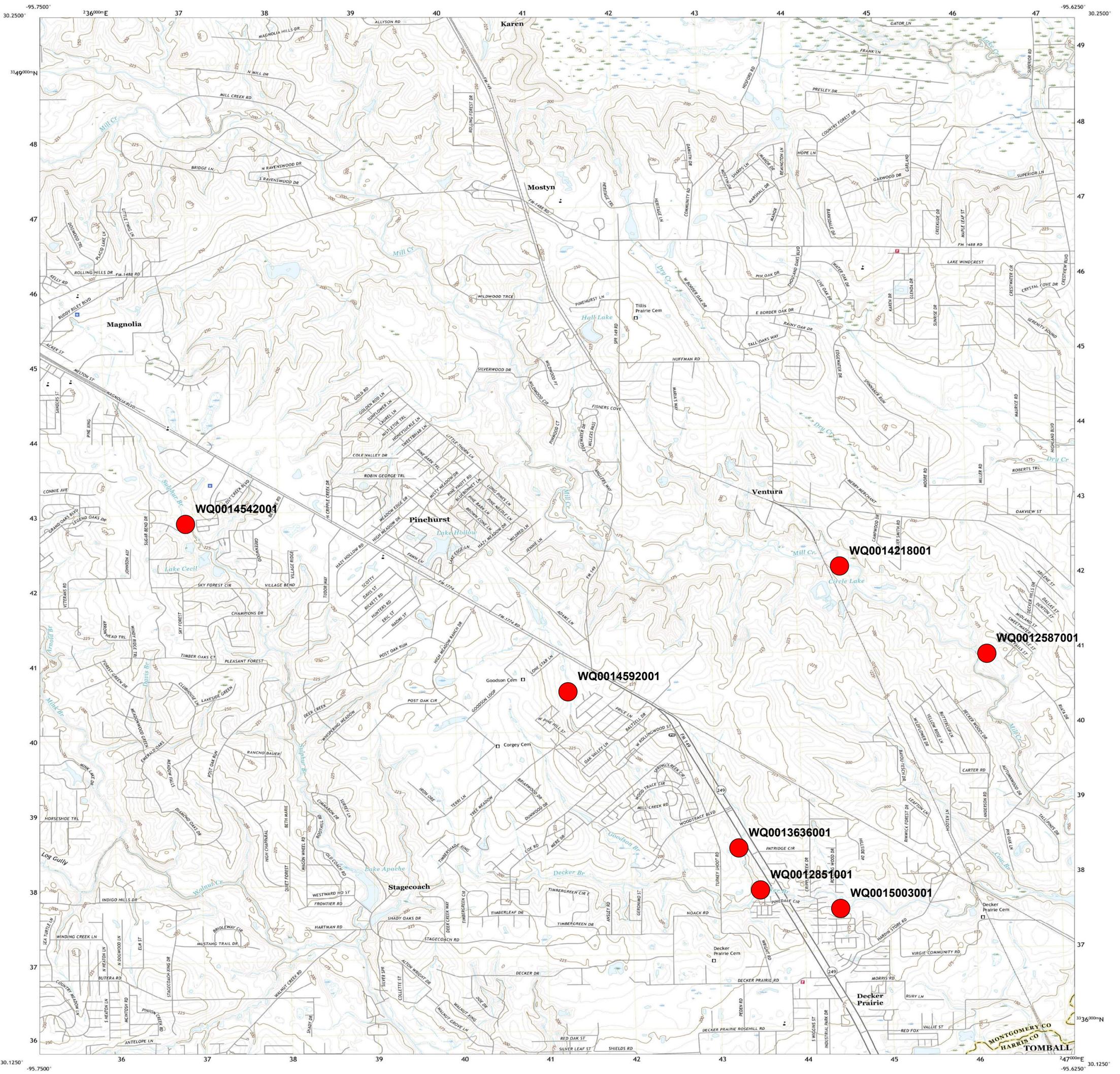


ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	9

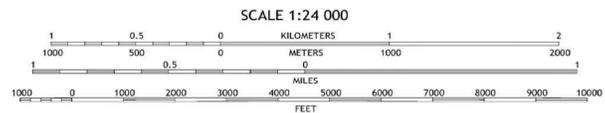
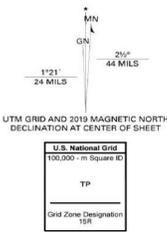
1 Stoneham  
2 Plantersville  
3 Keenan  
4 Waller NW  
5 Magnolia East  
6 Waller  
7 Hockley  
8 Rose Hill





Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



QUADRANGLE LOCATION

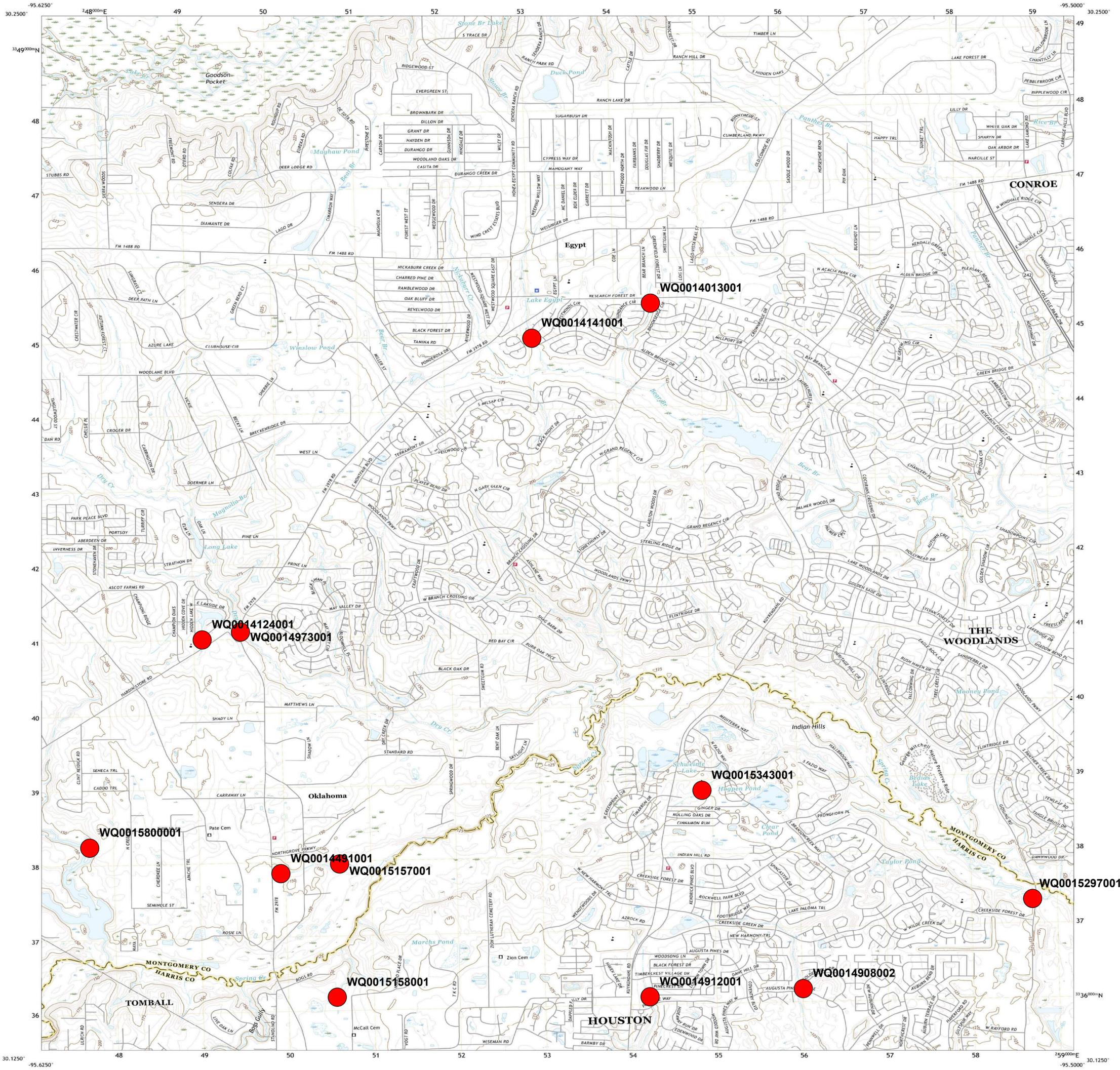
1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES

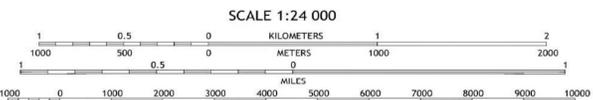
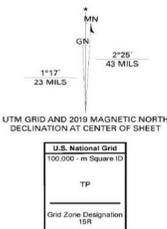
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

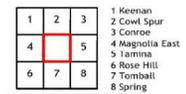
- 1 Plantersville
- 2 Keenan
- 3 Cowi Spur
- 4 Magnolia West
- 5 Oklahoma
- 6 Hockley
- 7 Rose Hill
- 8 Tomball

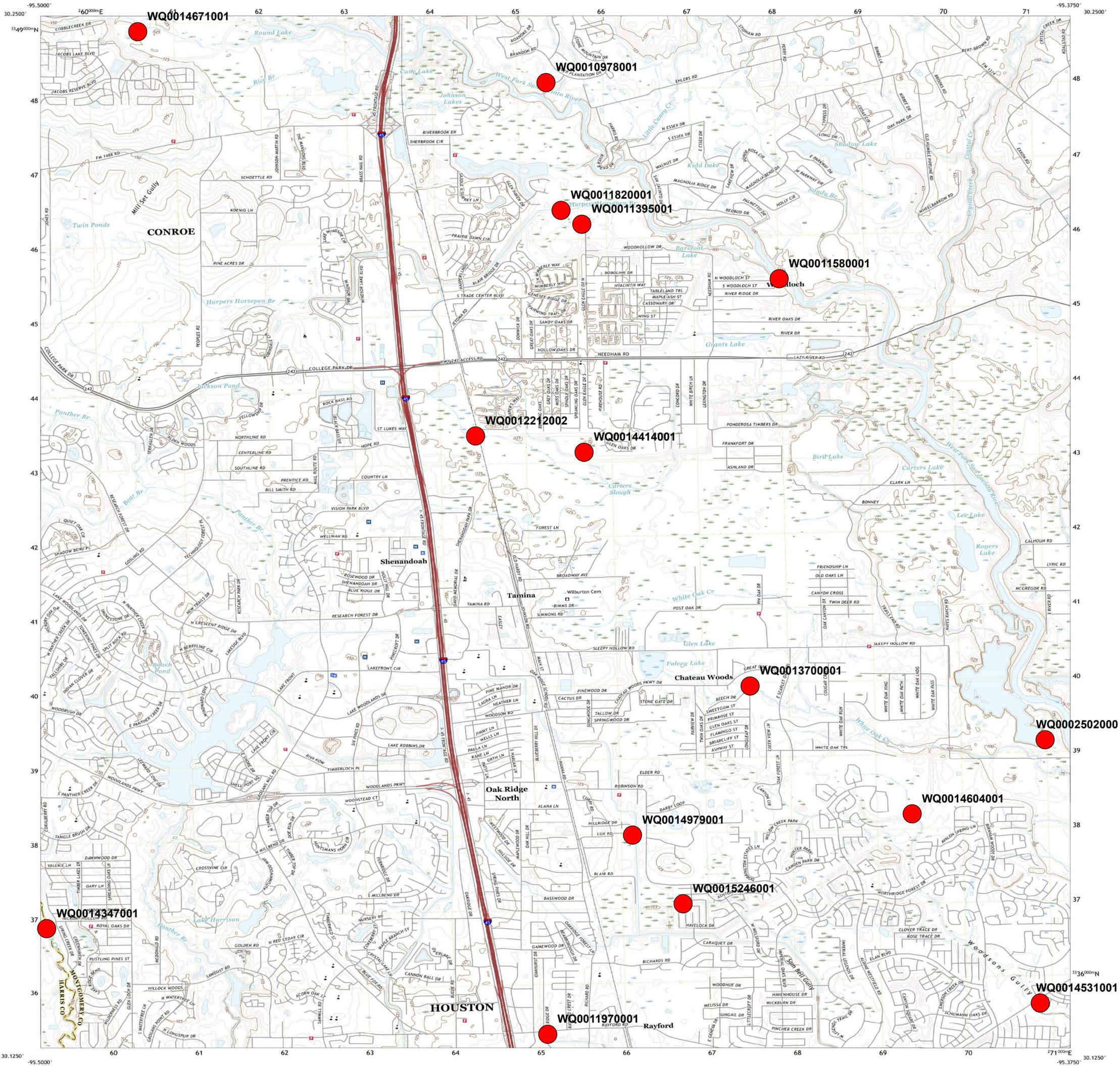


Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1000-meter grid: Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

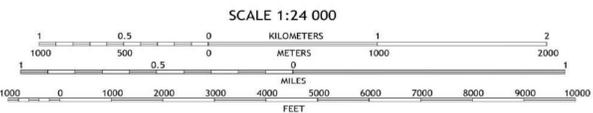
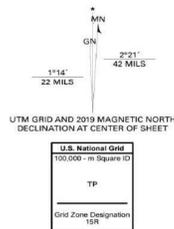


CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18





Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid/Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

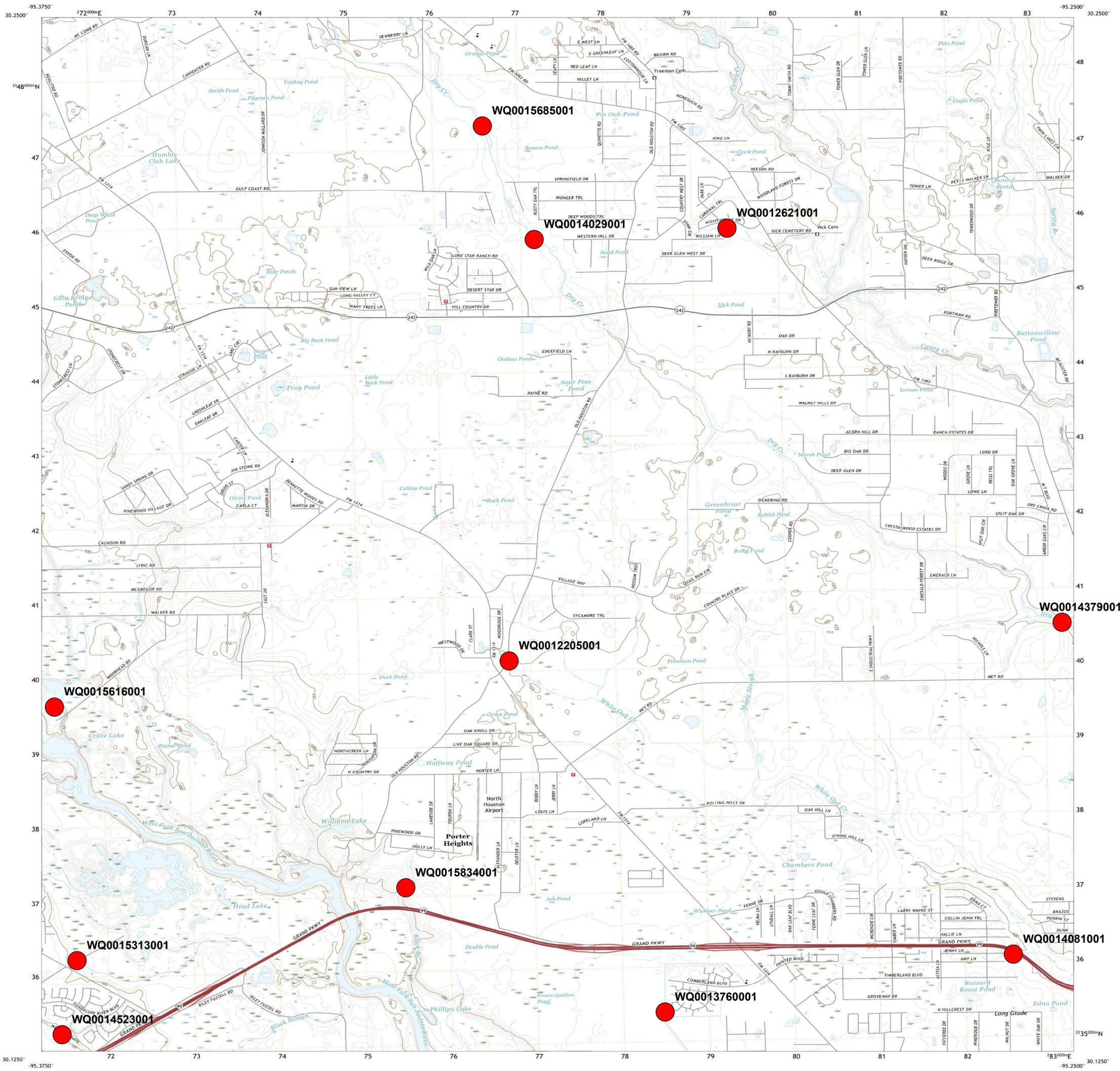


CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18



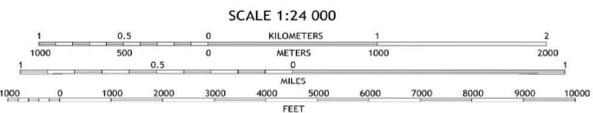
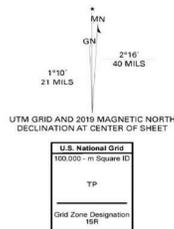
QUADRANGLE LOCATION map of Texas with a red square indicating the location. ADJOINING QUADRANGLES grid with numbers 1-8.

- 1 Cowl Spur
2 Conroe
3 Cut And Shoot
4 Oklahoma
5 Outlaw Pond
6 Tomball
7 Spring
8 Maedan



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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15R  
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Imagery:.....NAIP, September 2016 - November 2016  
Roads:.....U.S. Census Bureau - 2015  
Names:.....GNIS, 1979 - 2018  
Hydrography:.....National Hydrography Dataset, 2003 - 2018  
Contours:.....National Elevation Dataset, 2010 - 2018  
Boundaries:.....Multiple sources, see metadata file - 2016 - 2017  
Wetlands:.....FWS National Wetlands Inventory 1993

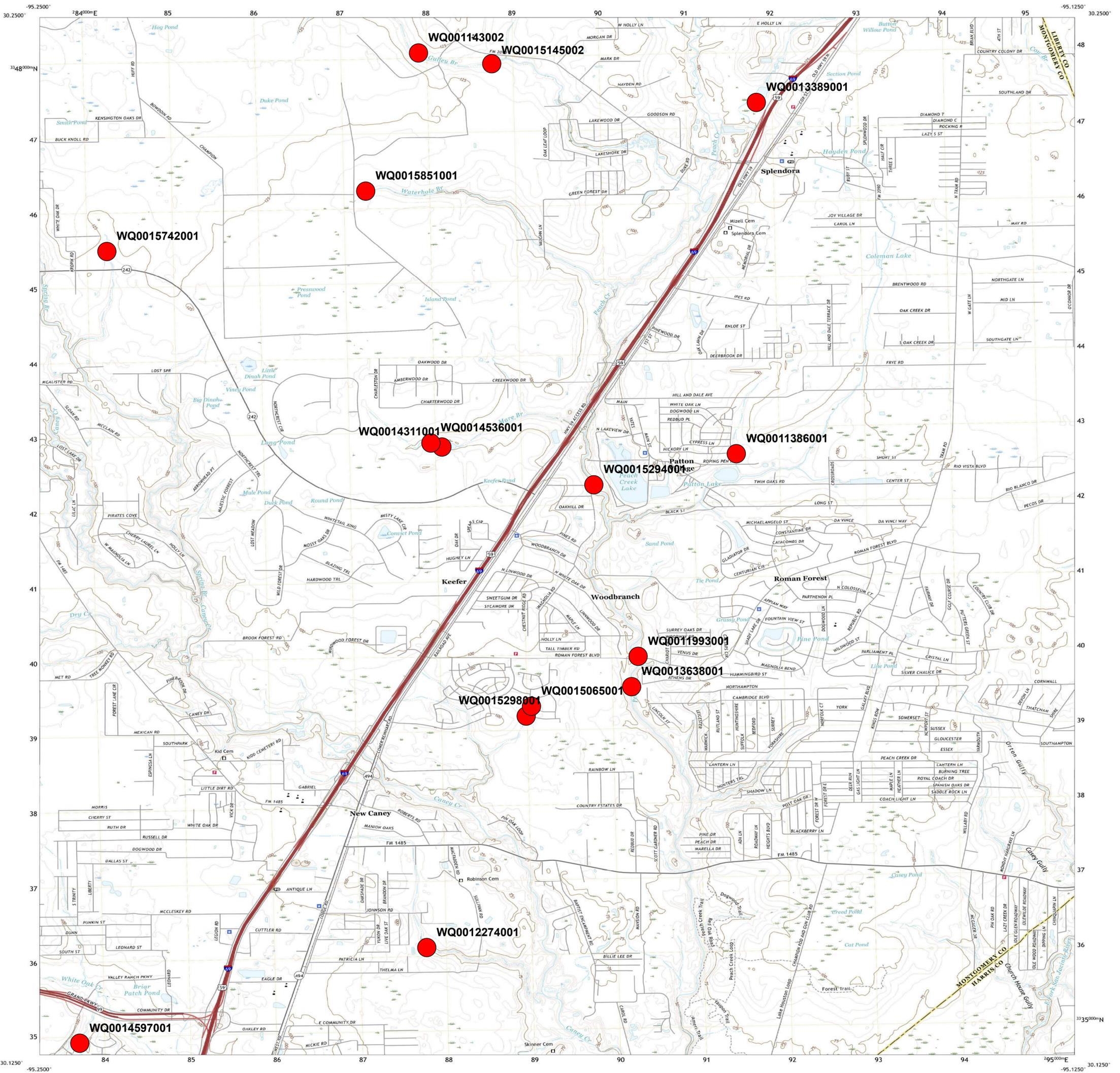


SCALE 1:24 000  
CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



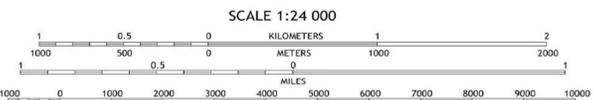
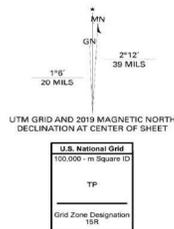
1	2	3	1 Conroe
2	3	4	2 Cut And Shoot
3	4	5	3 Fostoria
4	5	6	4 Tamina
5	6	7	5 Splendor
6	7	8	6 Spring
7	8		7 Maecan
8			8 Moonshine Hill

ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route



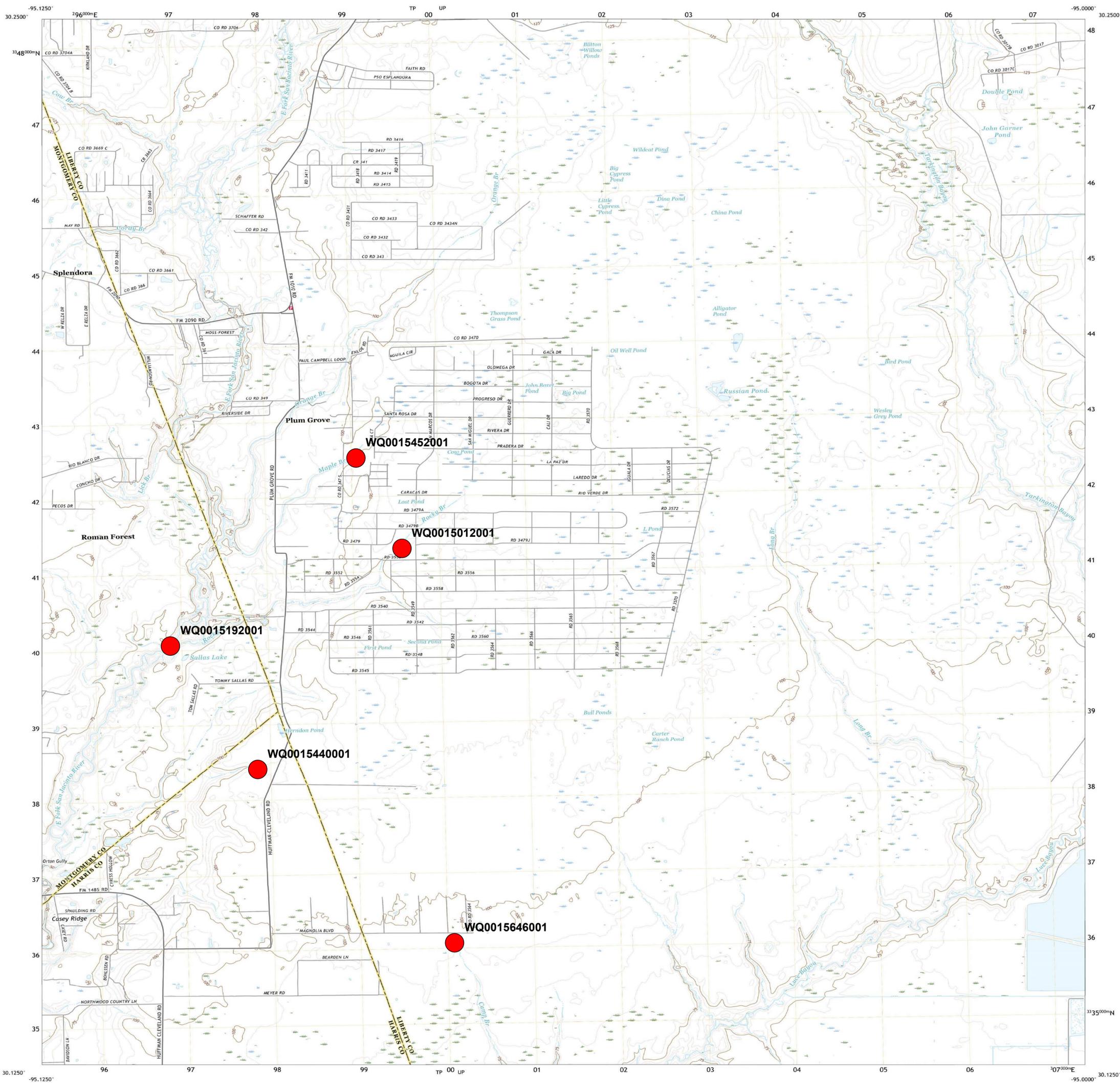
Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1000-meter grid-Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010 - 2018  
Boundaries.....Multiple sources: see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



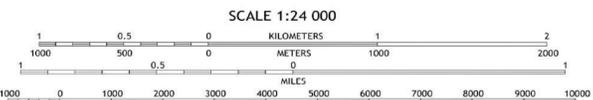
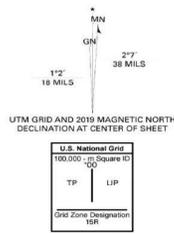
QUADRANGLE LOCATION grid showing a 3x3 grid with the center cell (4,4) highlighted in red.

- 1 Cut And Shoot
- 2 Fostoria
- 3 Cleveland
- 4 Outlaw Pond
- 5 Plum Grove
- 6 Maedan
- 7 Moonshine Hill
- 8 Huffman



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1000-meter grid: Universal Transverse Mercator, Zone 15R  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources: see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18

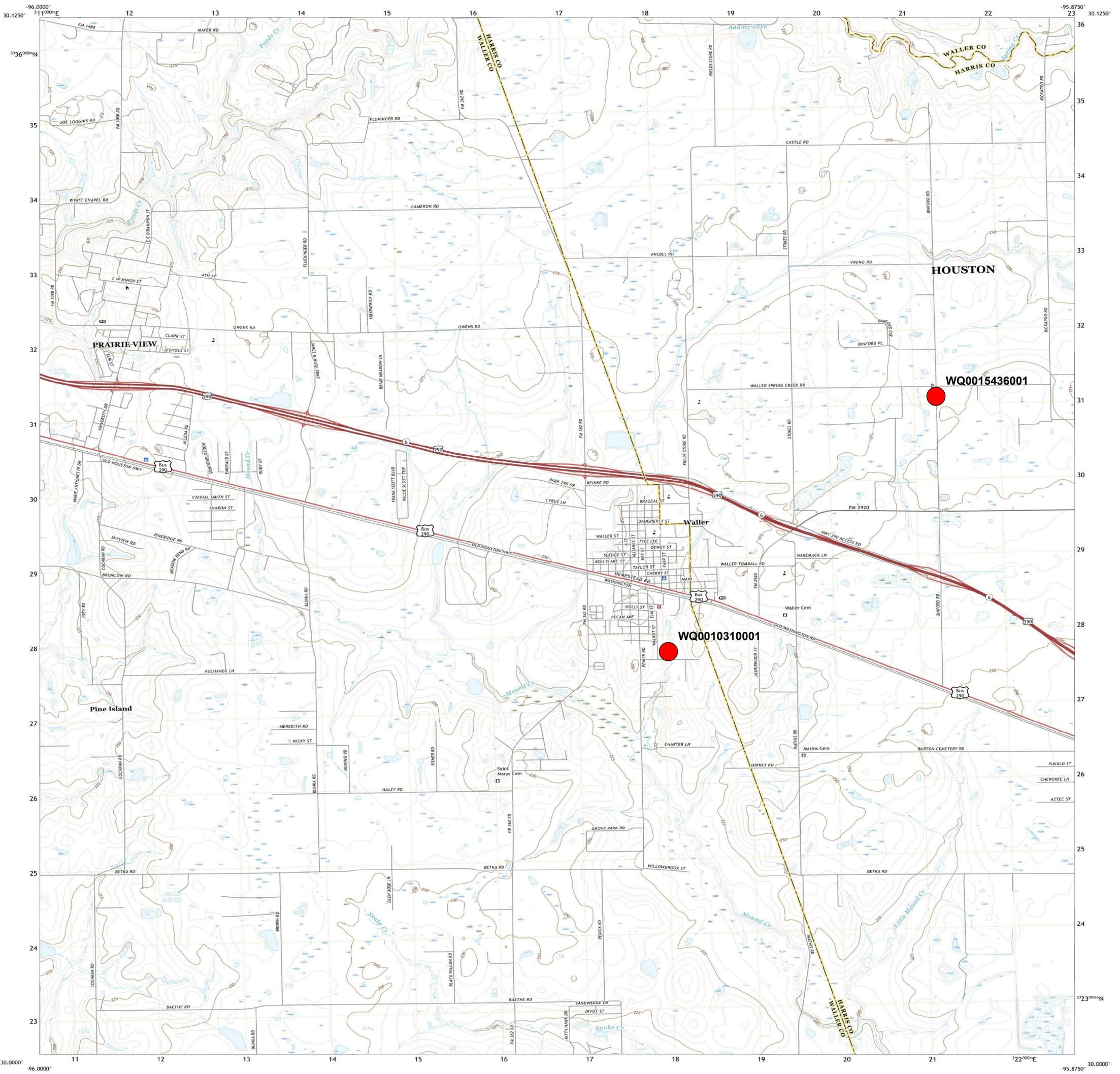


**ROAD CLASSIFICATION**

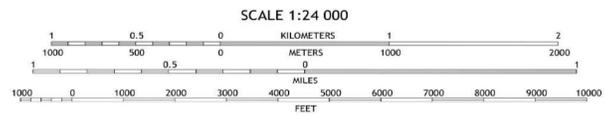
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

ADJOINING QUADRANGLES

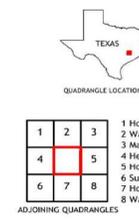
1	2	3	1 Fostoria
4	5	6	2 Cleveland
7	8	7	3 Tarkington Prairie
		8	4 Splendora
			5 Simmons Bottom
			6 Moonshine Hill
			7 Huffman
			8 Dayton



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1,000-meter grid/Universal Transverse Mercator, Zone 14R/15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.



CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18



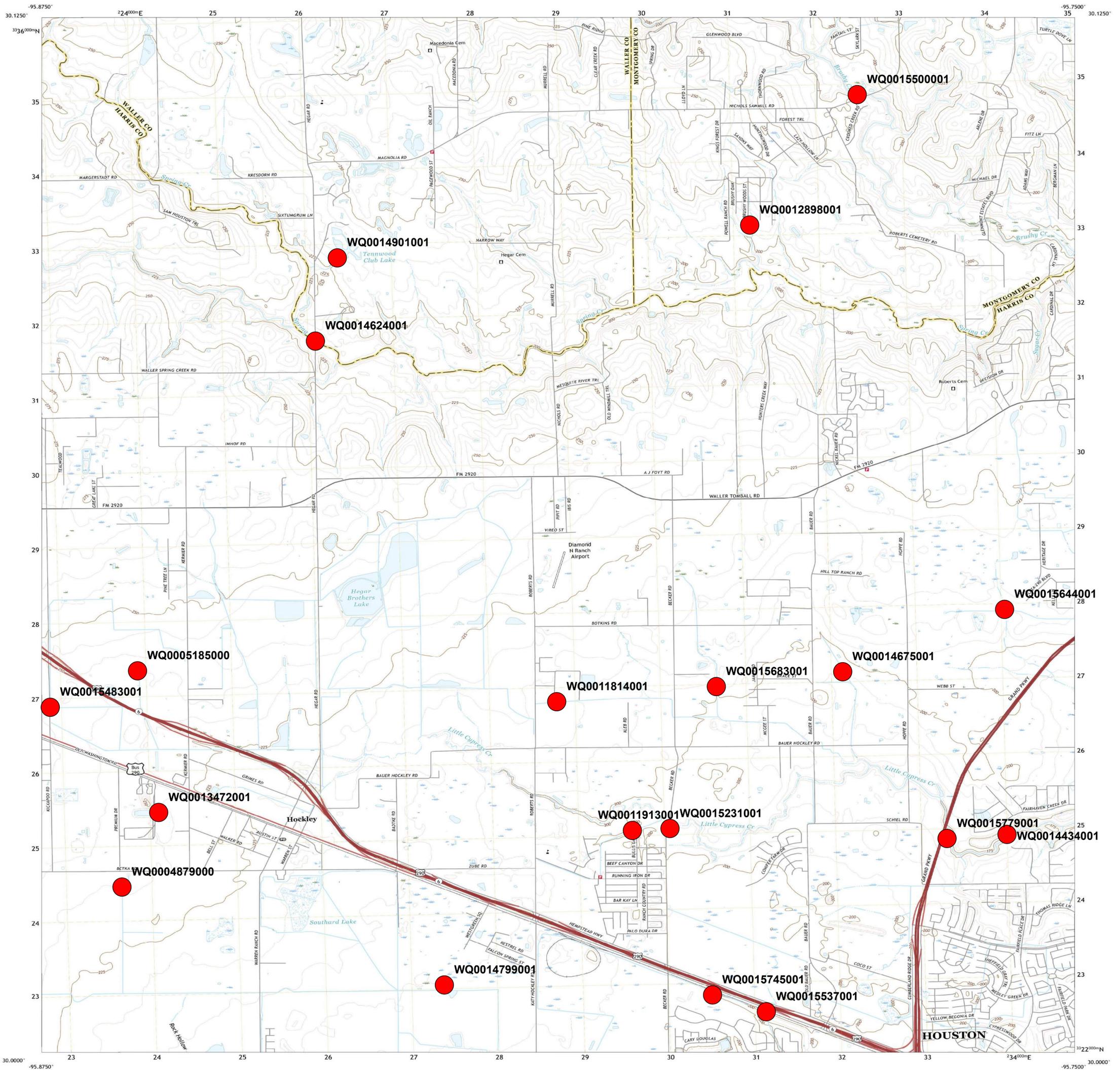
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WP
Interstate Route	US Route
	State Route

ADJOINING QUADRANGLES

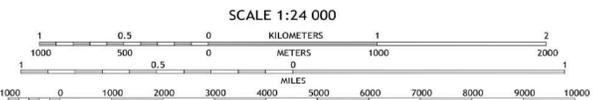
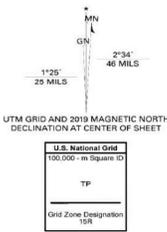
1	2	3
4	5	6
7	8	

1 Howth  
2 Waller NW  
3 Magnolia West  
4 Hempstead  
5 Hockley  
6 Sunny Side  
7 Hockey Mound  
8 Warren Lake



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid/Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources, see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

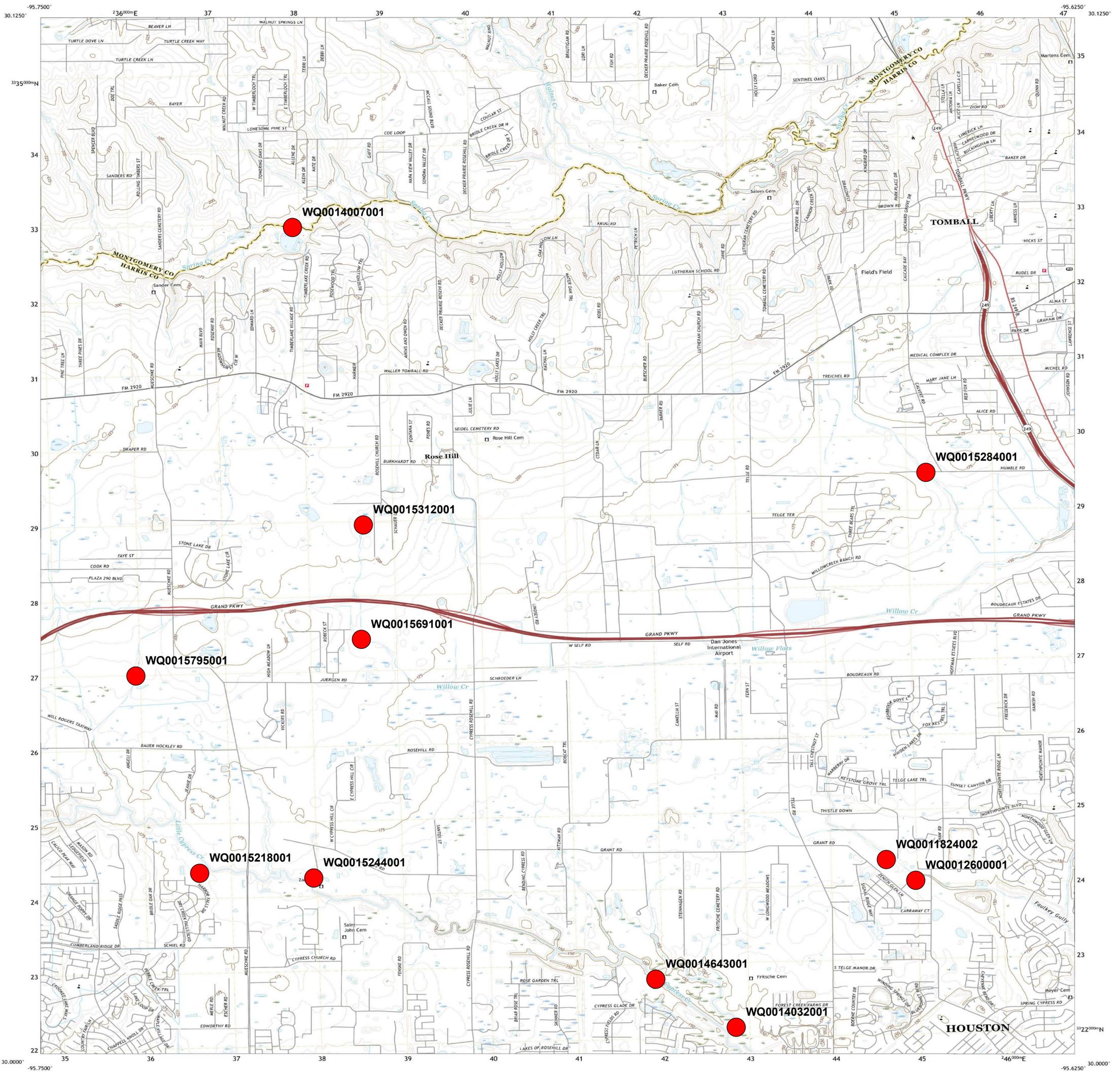


ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	

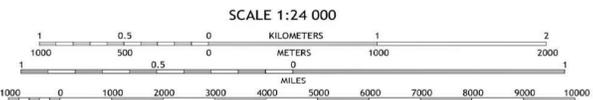
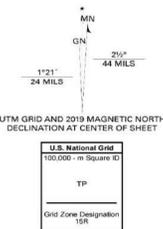
1 Waller NW  
2 Magnolia West  
3 Magnolia East  
4 Waller  
5 Rose Hill  
6 Hockley Mound  
7 Warren Lake  
8 Cypress





Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 15R  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau - 2015  
Names.....GNIS - 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2003 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



SCALE 1:24 000  
CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18

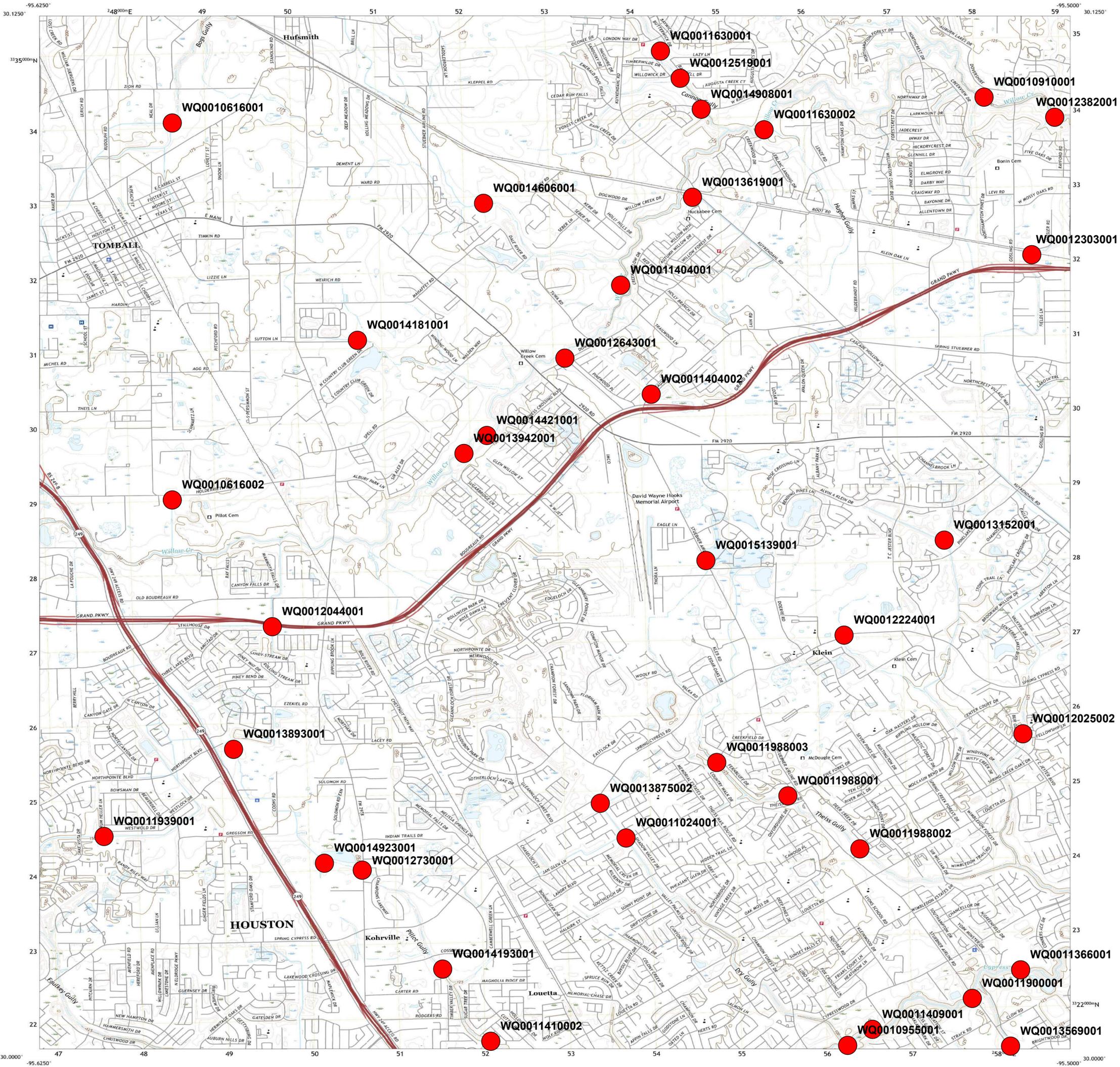


ADJOINING QUADRANGLES

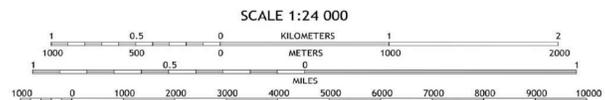
1	2	3	1 Magnolia West
2	3	4	2 Magnolia East
3	4	5	3 Oklahoma
4	5	6	4 Hockley
5	6	7	5 Tomball
6	7	8	6 Warren Lake
7	8		7 Cypress
8			8 Satsuma

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route



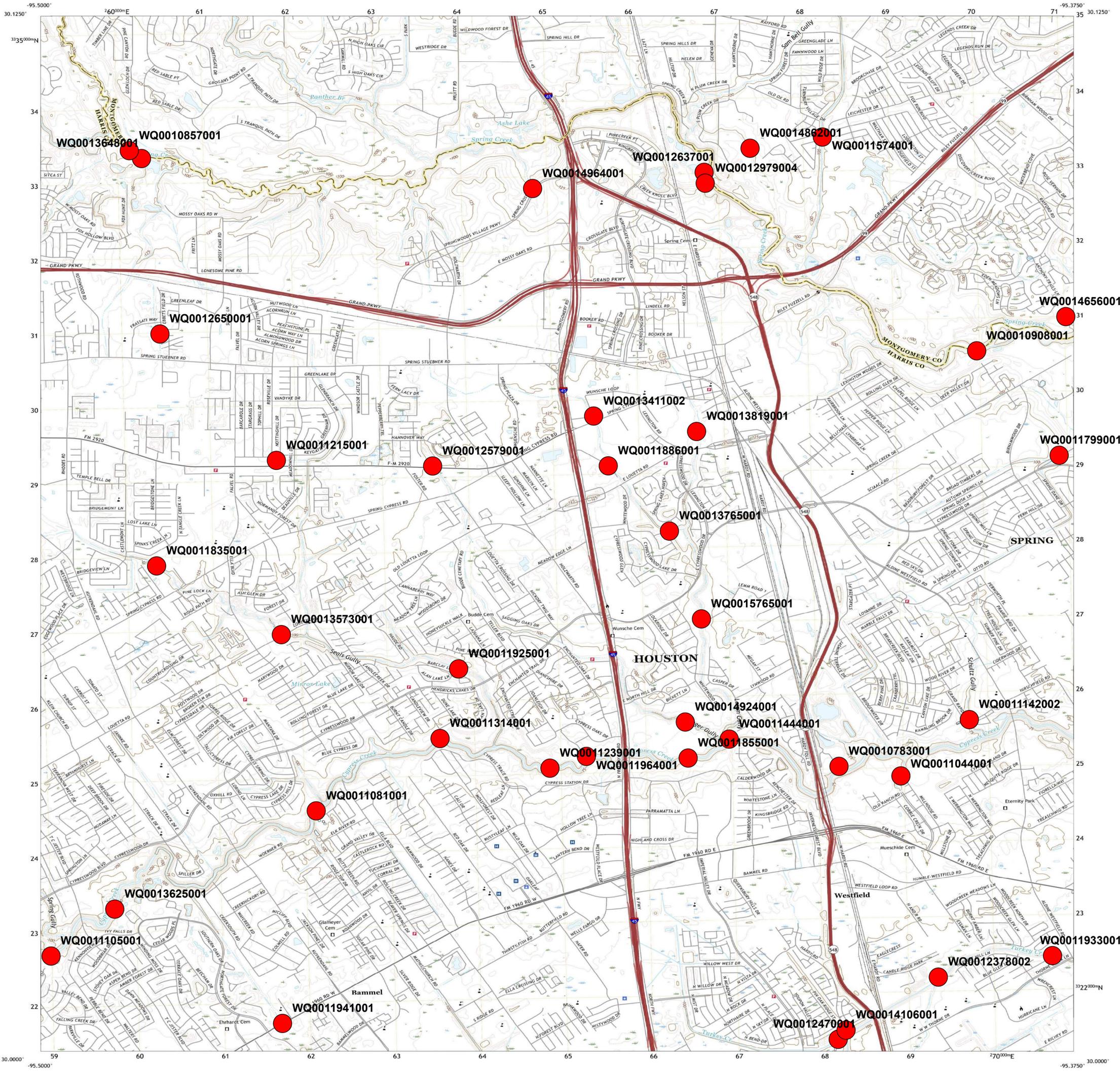
Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid/Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.



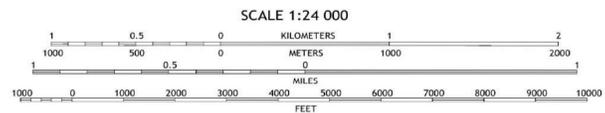
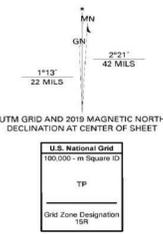
ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	

- 1 Magnolia East
- 2 Oklahoma
- 3 Tamina
- 4 Rose Hill
- 5 Spring
- 6 Cypress
- 7 Sattsuma
- 8 Alkline



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid/Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.



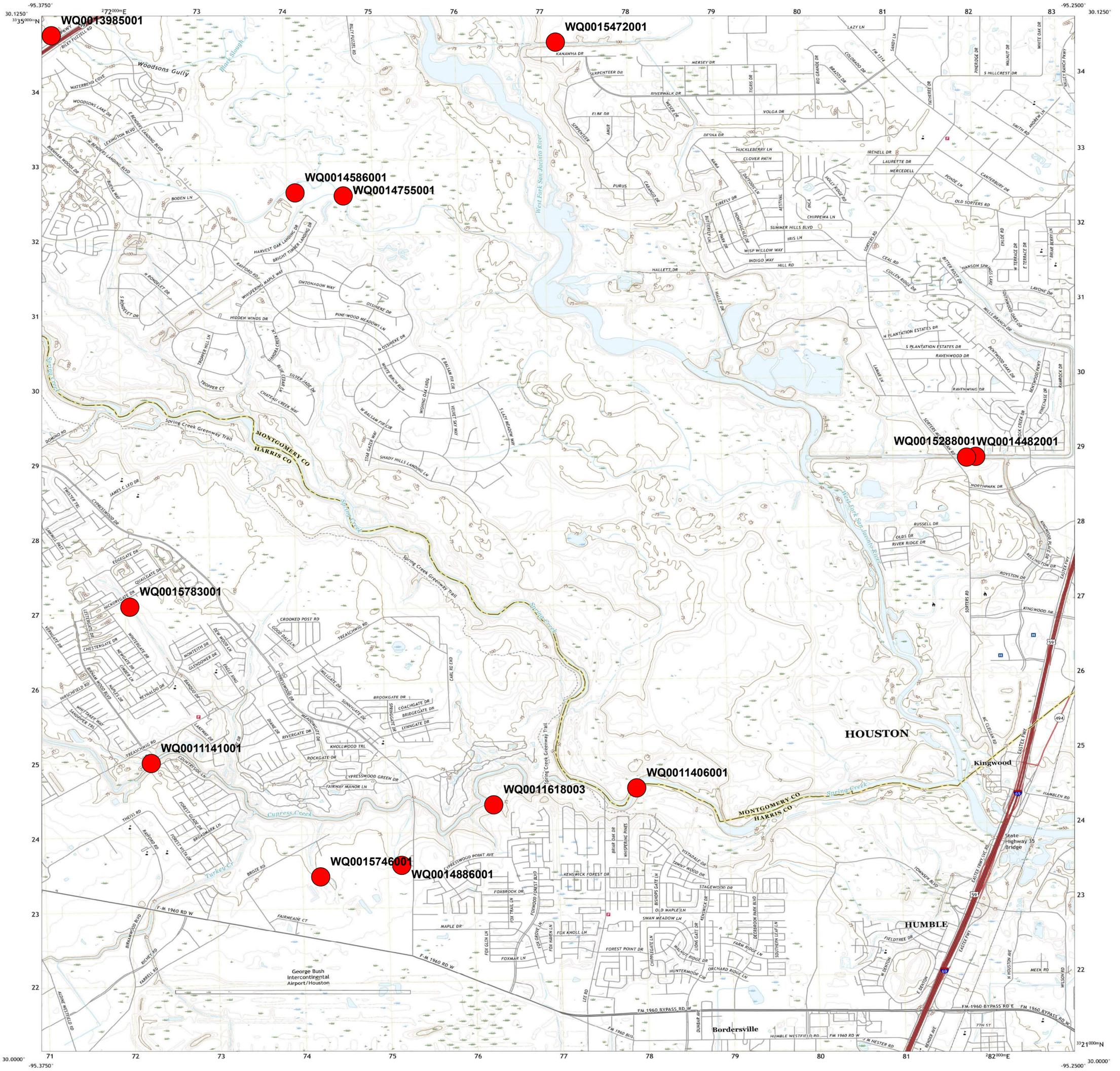
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

ADJOINING QUADRANGLES

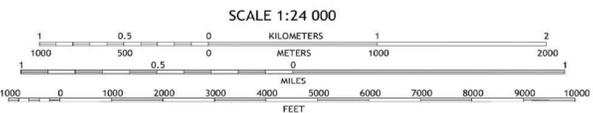
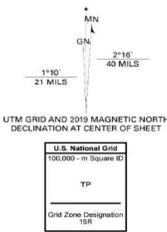
1	2	3
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1 Oklahoma  
2 Tamina  
3 Outlaw Pond  
4 Tomball  
5 Maecan  
6 Satsuma  
7 Auldine  
8 Humble



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 15R  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau 2015  
Names.....GNIS, 1989 - 2015  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1993



CONTOUR INTERVAL 5 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
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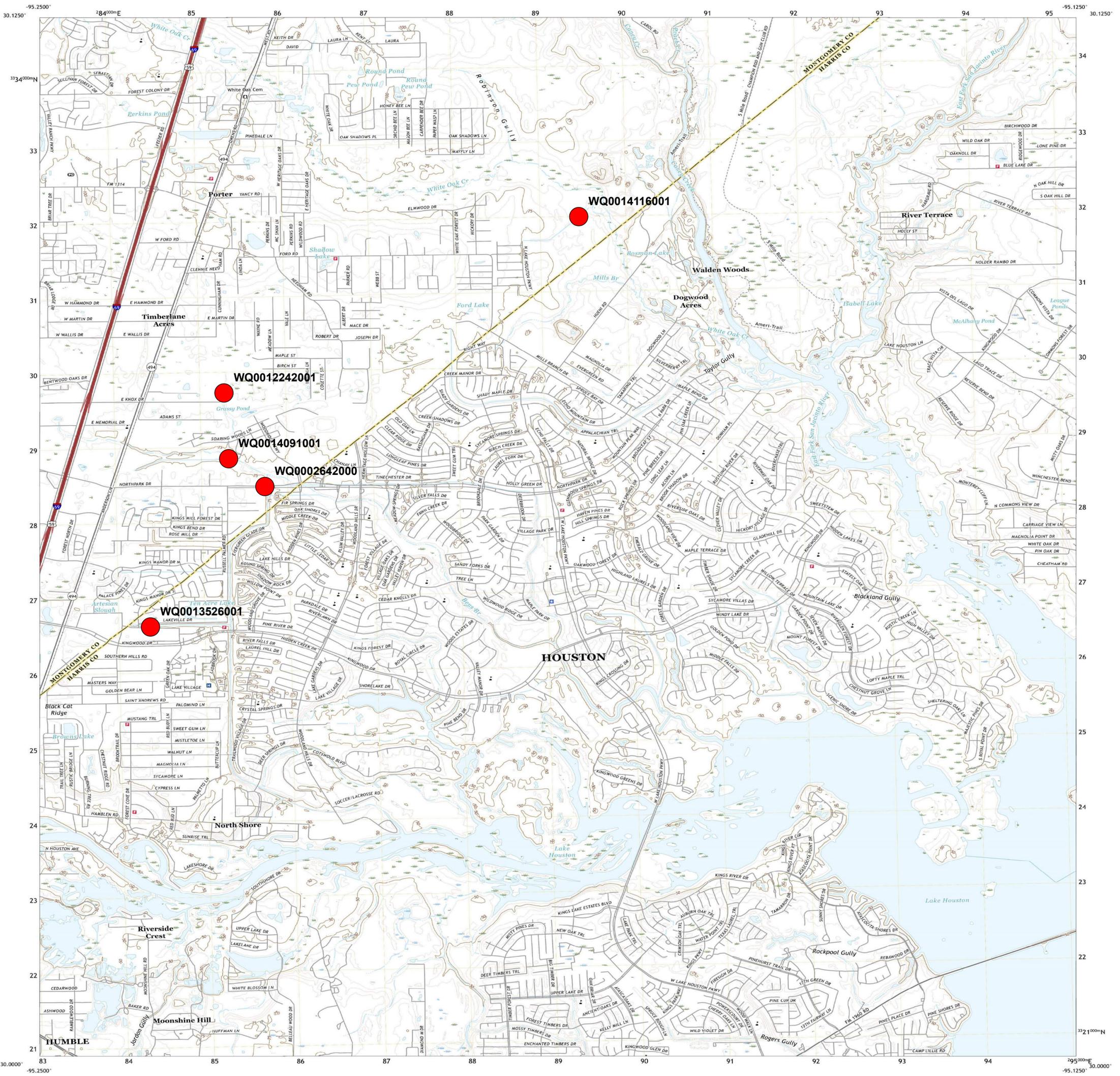


ADJOINING QUADRANGLES

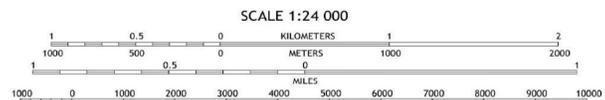
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1 Tamina  
2 Outlaw Pond  
3 Splendor  
4 Spring  
5 Moonshine Hill  
6 Aldine  
7 Humble  
8 Harmaston





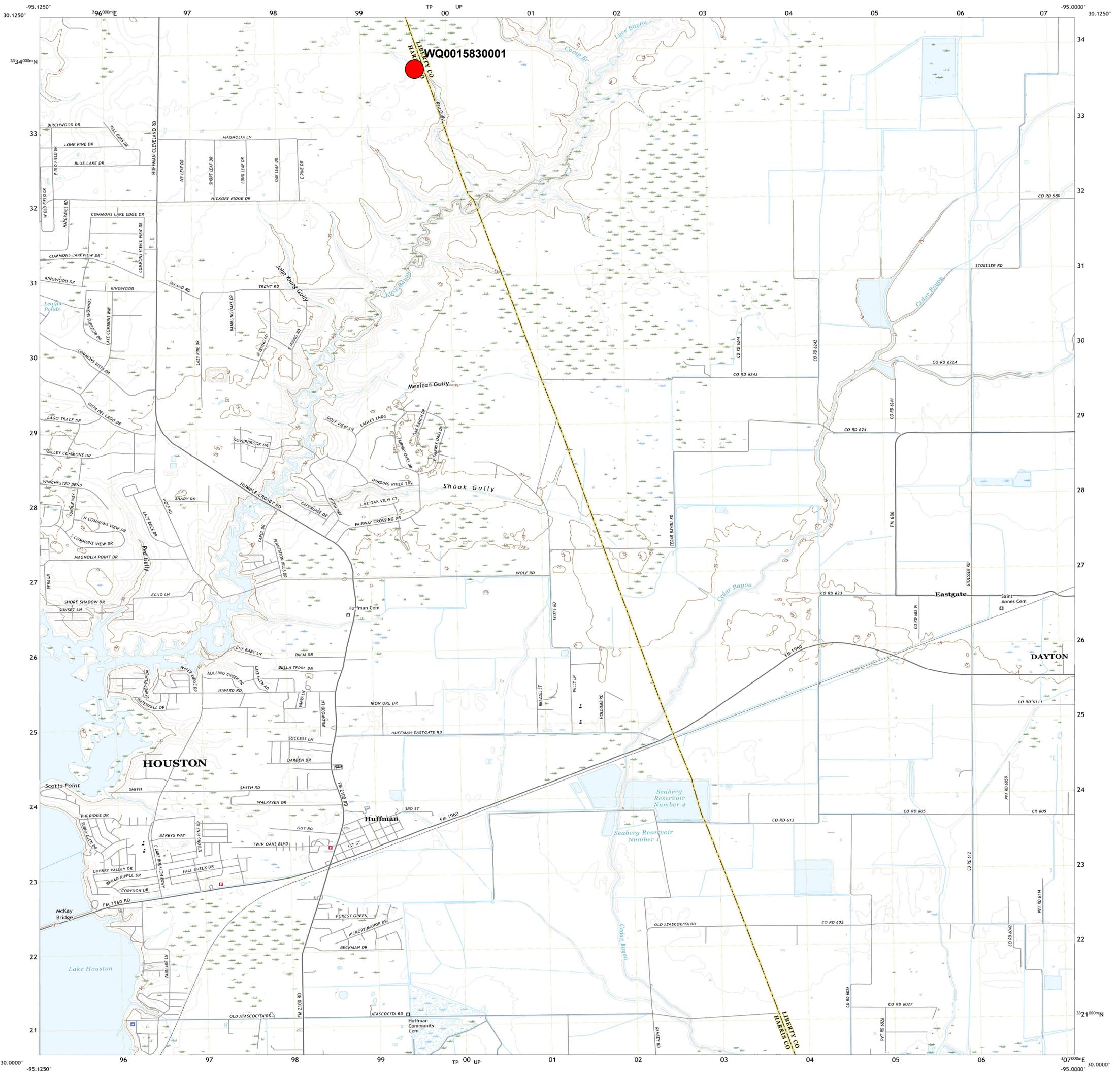
Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1000-meter grid-Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.



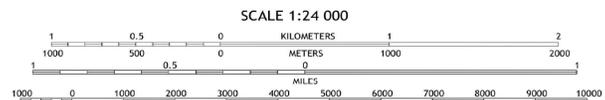
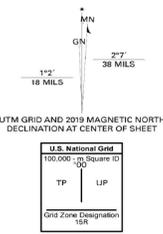
ADJOINING QUADRANGLES

1	2	3
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7	8	

- 1 Outlaw Pond
- 2 Splendoria
- 3 Plum Grove
- 4 Maedan
- 5 Hurffman
- 6 Humble
- 7 Hartmaston
- 8 Crosby



Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid-Universal Transverse Mercator, Zone 15R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.



SCALE 1:24 000 CONTOUR INTERVAL 5 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18



ROAD CLASSIFICATION Expressway Secondary Hwy Ramp Interstate Route Local Connector Local Road 4WD US Route State Route

ADJOINING QUADRANGLES table with 8 cells and corresponding quadrangle names: 1 Splendora, 2 Plum Grove, 3 Simmons Bottom, 4 Moonshine Hill, 5 Dayton, 6 Harmaston, 7 Crosby, 8 Sheeks



# HOUSTON PUBLIC WORKS

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## WATER CONSERVATION PLAN

Effective Jul 1, 2019 – Jun 30, 2024



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## INTRODUCTION

The Texas Water Development Board and the Texas Commission on Environmental Quality require utilities that provide treated water service to 3,300 or more connections to adopt a water conservation plan that meets the minimum requirements set forth in Title 30, Chapter 288 of the Texas Administrative Code, and to adopt an updated water conservation plan every five years. The 2019 City of Houston Water Conservation Plan (Plan) is the required five-year update to the 2014 City of Houston Water Conservation Plan and describes the City of Houston (Houston) water system and customer base, explains Houston's current conservation goals and targets, and discusses current and future programs to meet those goals and targets.

Houston provides water and wastewater service to its customers through the Houston Water service line of Houston Public Works. Houston Water strives to protect public health and the environment and provide superior customer service. Houston Water's goal is to provide all customers with drinking water that meets the State of Texas "superior" rating at pressures required to meet their daily needs. Houston is a large regional water supplier that provides both retail and wholesale service. Houston operates three water supply reservoirs, three water purification plants, 92 groundwater pumping stations, 142 ground water wells and over 7,000 linear miles of distribution pipeline across a four-county area consisting of more than 600 square miles, making Houston's water system one of the most complex water systems in the nation.

As of 2019, Houston provides treated water to approximately 2.4 million retail and wholesale customers and serves a total population of approximately 4.7 million. By 2070, this number is expected to reach 6.2 million.<sup>1</sup> To ensure that Houston can continue to provide treated water to this rapidly-growing region, customers must use water efficiently and conserve water when possible. The Texas Water Development Board emphasizes that water conservation is increasingly recognized as an integral part of water resource

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<sup>1</sup>[http://www2.twdb.texas.gov/ReportServerExt/Pages/ReportViewer.aspx?%2fProjections%2f2022+Reports%2fpop\\_County&rs:Command=Render](http://www2.twdb.texas.gov/ReportServerExt/Pages/ReportViewer.aspx?%2fProjections%2f2022+Reports%2fpop_County&rs:Command=Render)

planning and management and plays an important role in meeting current and future water supply, utility infrastructure, and environmental needs.<sup>2</sup>

The State Water Plan, which details how Texas will address our state's growing water needs, calls for serious statewide conservation efforts to meet a quarter of Texas' future water needs.<sup>3</sup> Region H, the fast growing, mainly urbanized region in which Houston is located, has specific conservation goals articulated in the region's plan. The 2016 Region H Water Conservation Plan calls for 9.6% of future additional supplies to be met through municipal conservation and 15.7% to be met through irrigation (agricultural) conservation.<sup>4</sup> In an effort to meet these aggressive goals, Houston has implemented, and will continue to develop, a wide range of water conservation programs to educate and engage customers about the importance of water and what they can do to protect and preserve this essential resource.

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<sup>2</sup><http://www.twdb.texas.gov/conservation/doc/StatewideWaterConservationQuantificationProject.pdf>

<sup>3</sup><http://www.twdb.texas.gov/waterplanning/swp/2017/doc/SWP17-Water-for-Texas.pdf>

<sup>4</sup>[http://regionhwater.org/Reg\\_H\\_2016\\_RWP\\_20151116.pdf](http://regionhwater.org/Reg_H_2016_RWP_20151116.pdf)

## **REQUIRED WATER CONSERVATION PLAN CONTENT**

### **A. Water System, Wastewater System, and Customer Use Characteristics**

*The water conservation plan must include evaluation of the water and wastewater system and customer use characteristics to identify water conservation opportunities and potential targets and goals. Completion of the Water Conservation Utility Profile, TWDB – 1965 as part of the evaluation is required and should be submitted with the Plan. The utility profile should include water sales and use for the following classifications: residential (both for single-family and multi-family), commercial, institutional, industrial, agricultural, and wholesale; as appropriate.*

#### **1. Houston Drinking Water System**

Houston is a regional water supplier. Houston operates three water supply reservoirs, three water purification plants, 142 groundwater wells, 49 groundwater plants, 8 re-pressurization plants, and over 7,000 linear miles of distribution pipeline across a four-county area consisting of more than 600 square miles, making Houston's water system one of the most complex water systems in the nation. Eighty-five percent of Houston's municipal water supply is derived from Houston's three water purification plants, which have a combined production capacity of up to 640 MGD. These plants are the Northeast Water Purification Plant (rated at 80 MGD), which is located at Lake Houston and serves the northern region of Houston's service area; the East Water Purification Plant (rated at 360 MGD), which is located east of I-610 and west of Greens Bayou and serves the central region of Houston's service area; and the Southeast Water Purification Plant (rated at 200 MGD), which is located north of Clear Lake and serves the southeastern region of Houston's service area. These plants meter all water produced and pressurize water at between 80 and 90 psi. The remaining 15% of Houston's municipal water supply is provided by 142 groundwater wells, which have a combined production capacity of up to 200 MGD. Three of the wells are permitted by the Lone Star Groundwater Conservation

District, two of the wells are permitted by the Fort Bend Subsidence District, and the remaining 137 wells are permitted by the Harris-Galveston Subsidence District.

In 2018, Houston produced a total of 169.5 billion gallons of treated water, averaging 464 MGD daily. Total usage, by both retail and wholesale customers, was 143 billion gallons, averaging 392 MGD daily. A small portion of the total water produced, 439 million gallons, was used by Houston's water system for routine maintenance activities, such as line flushing. Non-revenue water totaled 17% of the overall production.

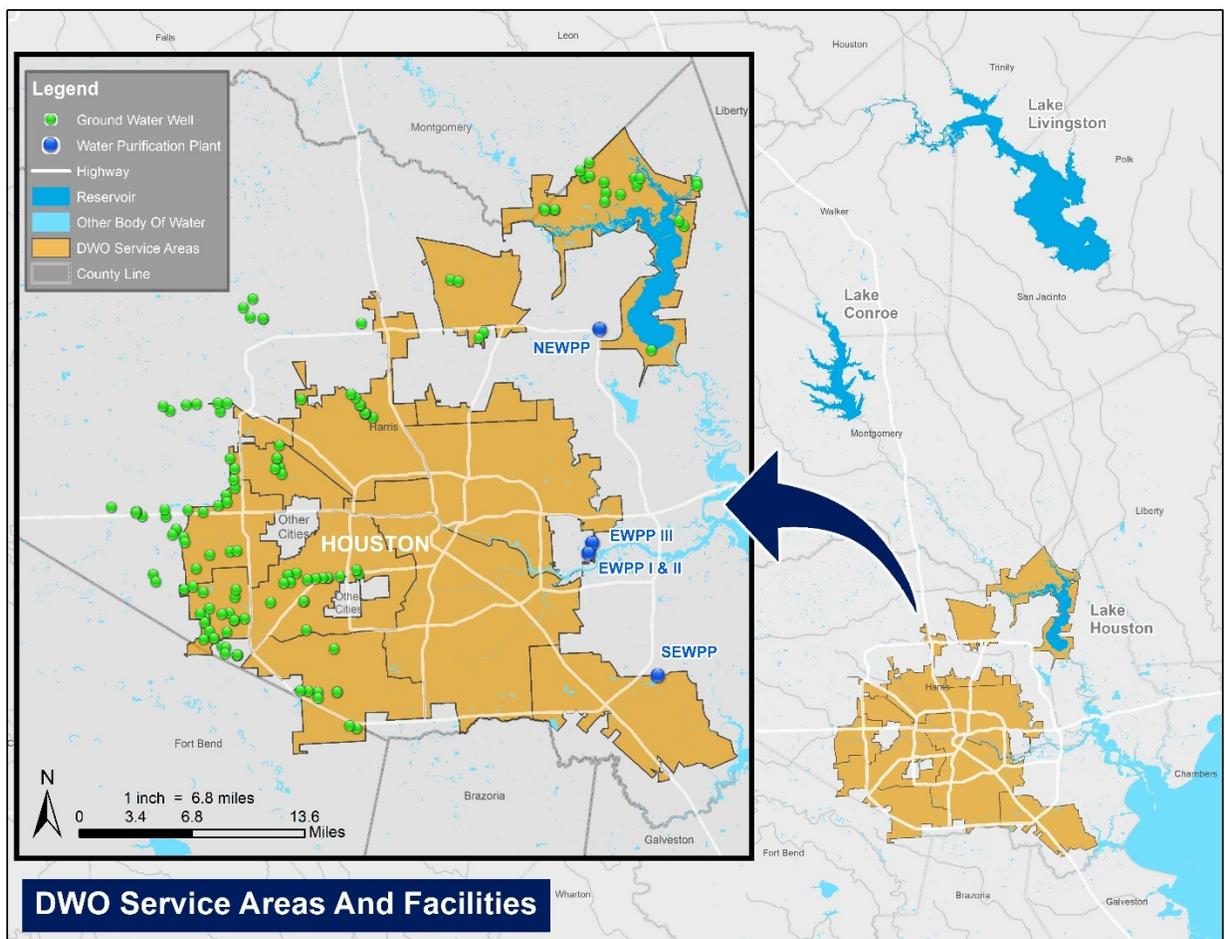


Figure 1. Map of Houston Water System Key Features.

## 2. Houston Wastewater System

Houston provides wastewater collection and treatment services to customers located inside Houston’s service area. Houston also provides wastewater treatment services to municipal utility districts under contracts referred to as “wastewater subscriber agreements.” Houston operates 39 wastewater treatment plants with a total permitted capacity of 564 MGD, 384 lift stations, and over 6,000 linear miles of collection pipeline. In 2018, Houston treated an average of 250 MGD of wastewater daily, which means there is capacity available to treat additional wastewater – and produce additional water for reuse.

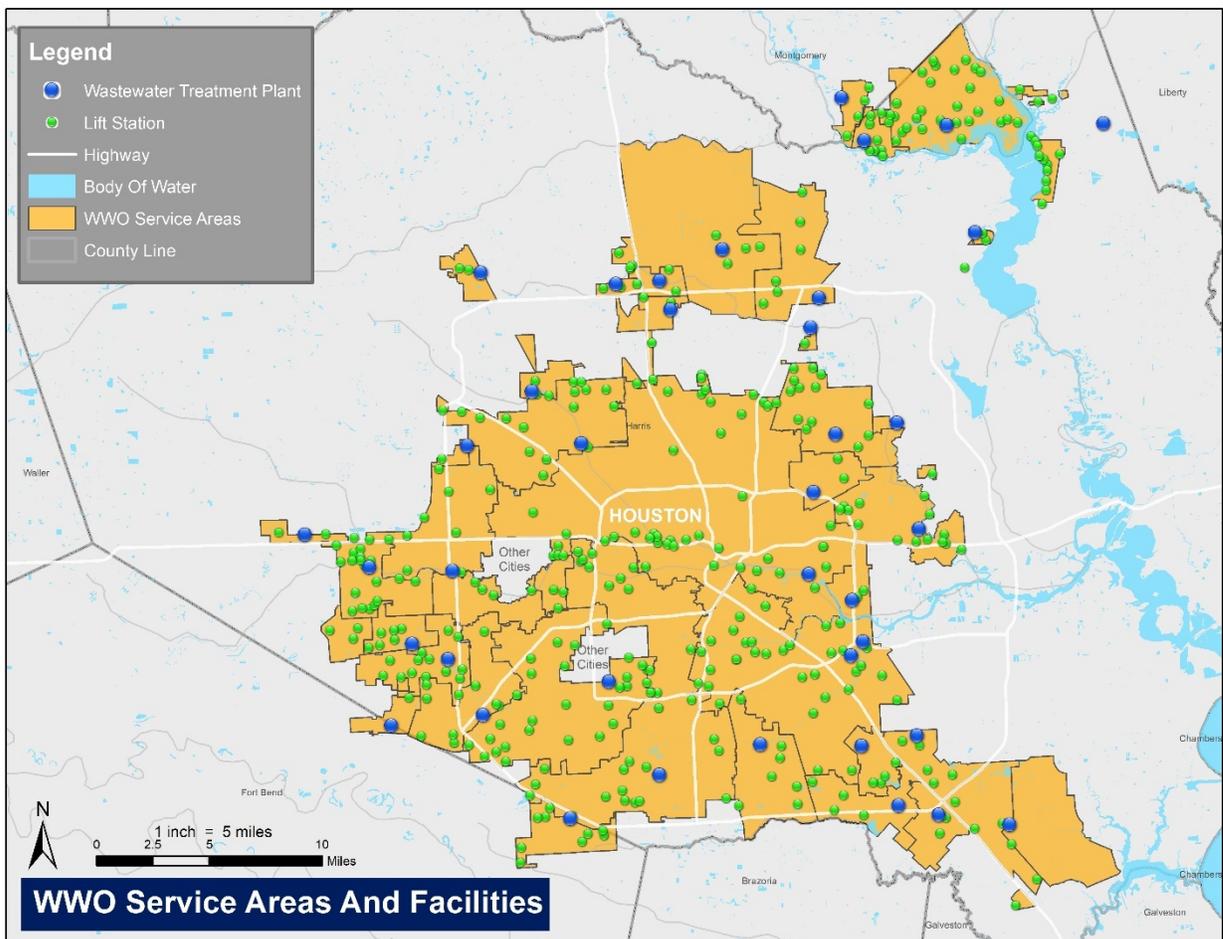


Figure 2. Map of Houston Wastewater System Key Features.

### 3. Houston Water Customer Use Characteristics

#### a. Wholesale Customers

Houston provides untreated, treated, and reclaimed water to wholesale customers by contract. As of 2019, Houston has 274 wholesale contracts, 68 of which are with cities, municipal utility districts, and regional water authorities for treated water service. In 2018, these treated water contract customers used a total of 53.7 billion gallons, averaging 147 MDG.

#### b. Retail Customers

As of 2019, Houston provides treated water to almost 480,000 retail customers within its municipal boundaries. In 2018, these customers used a total of 89.3 billion gallons, averaging 245 MGD. Retail usage is roughly divided in three equal parts between Single Family, Multi Family, and Industrial-Commercial-Institutional (ICI) customer classes.

<b>Customer Class</b>	<b>Number of Connections</b>	<b>Total Annual Usage (in billion gallons)</b>	<b>Average MGD</b>
Single Family	415,228	26.0	71.2
Multi Family	15,759	29.3	80.2
ICI	47,701	34.0	93.1
<b>TOTAL</b>	<b>478,688</b>	<b>89.3</b>	<b>244.5</b>

Table 1. Houston Retail Customer Usage by Customer Class, 2018

The remaining retail usage consists of irrigation meter accounts, use by City of Houston facilities, and other small-volume uses (emergency water, construction water, and unmetered esplanade irrigation).

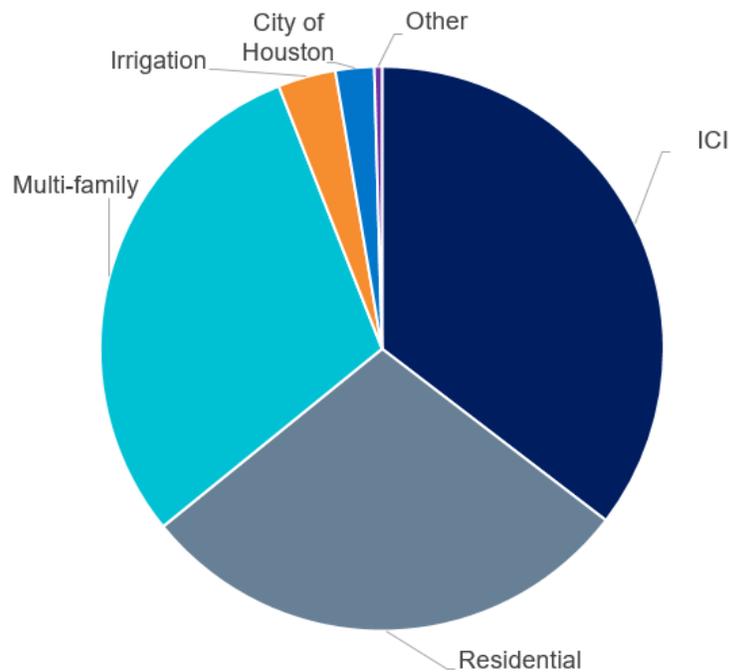


Figure 3. Houston Retail Customer Demand Shares, 2018

In 2018, the total gallons per capita per day (GPCD) among all retail classes was 136, with a five-year average (2014 – 2018) of 129. This GPCD is based on pumpage volumes and includes all water that leaves Houston’s water purification plants, including water loss. Evaluated separately, in 2018 the residential GPCD was 66, with a five-year average (2014 – 2018) of 62. The previous five-year average (2009 – 2013) was 68. This continues the downward trend seen over the last decade during which the residential GPCD has significantly decreased, reducing the total GPCD. Houston considers its five-year historic average of 129 to be healthy, as it falls well below the 140 total GPCD mark recommended by the 2004 Water Conservation Task Force Report<sup>5</sup> and is very close to the 125 total GPCD mark adopted by the Texas Living Waters Project in the 2016 Texas Water Conservation Scorecard.<sup>6</sup>

<sup>5</sup> [http://www.twdb.texas.gov/conservation/resources/doc/WCITF\\_Leg\\_Report.pdf](http://www.twdb.texas.gov/conservation/resources/doc/WCITF_Leg_Report.pdf)

<sup>6</sup> <http://www.texaswaterconservationscorecard.org/>

## **B. Five-Year and Ten-Year Water Savings Targets**

*The water conservation plan must include five-year and ten-year targets that are specific and quantified for water savings and include goals for water loss programs in gallons per capita per day, and goals for municipal use and residential use, in gallons per capita per day. A base use figure should be included to be able to calculate your savings. Consider state and regional targets and goals, local climate, and demographics. Consider the anticipated savings that can be achieved by utilizing appropriate best management practices and other conservation techniques.*

Houston's 2014 Water Conservation Plan stated a total GPCD baseline of 144, with the goal of reducing this number by 1.6% every five years, thereby establishing a total GPCD five-year target of 141.7 by 2019, and a ten-year target of 139.4 by 2024.

As of 2019, Houston's total GPCD (and new baseline) is 129, based on the five-year historical average. This exceeds both the five and ten-year targets and is lower than expected. While water efficient fixtures and increasing conservation and water awareness among Houston's customers can be credited for some of this reduction, Houston also experienced higher than average rainfalls during this same time. From 2014 to 2018, Houston averaged over 62 inches of rain – well above the 30-year annual average of 50 inches. During this same period, Houston's residential GPCD averaged 62. Although local climate may have played a role in this rapid reduction of Houston's total GPCD, Houston also experienced a net population growth of 95,109 people during the same time. Because of this, Houston will continue implementing a water reduction target of 1.6% every five years, which is also consistent with the water use reduction target adopted by the Region H Water Planning Group.

To reduce its total and residential GPCDs further, Houston must reduce its water loss. Based on the last five years' average, Houston's water loss is approximately 19%. Houston plans to reduce water loss by 1% every year with the long-term target of 10% or less of water loss. This goal is reasonable given Houston's water loss trends in the last

decade, and the target is consistent with the water loss target adopted by the Region H Water Planning Group in the 2016 Region H Water Conservation Plan.<sup>7</sup>

	Historic 5-year average	2019 Baseline	5-Year Reduction Goal	10-Year Reduction Goal
Total GPCD	129	129	127	125
Residential GPCD	62	62	61	60
Water Loss GPCD	24	24	23	22
Water Loss Percentage	19	19	18	17

Table 3. Five-Year and Ten-Year Targets for GPCD and Water Loss Reduction

### C. Implementation Plan

*The water conservation plan must include a schedule for implementing the plan to achieve the utility’s targets and goals.*

Houston will continue, expand, and implement the following programs to achieve a 1.6% reduction in total GPCD and residential GPCD over the next five years.

#### 1. Water Main Replacement Program

Aging water mains are a common problem and can lead to regulatory compliance issues, customer service issues, and water loss. Houston continues to invest in a comprehensive water main replacement program to address these issues. Work ranges from emergency repair or replacement of failing infrastructure to scheduled repair or replacement of aging infrastructure. The program relies on a water system needs assessment that considers each asset’s design service life, by asset type, and the remaining service life of the asset since its installation, replacement, or last rehabilitation date. For treated water

<sup>7</sup> [http://regionhwater.org/Reg\\_H\\_2016\\_RWP\\_20151116.pdf](http://regionhwater.org/Reg_H_2016_RWP_20151116.pdf)

distribution, pipe material is an important factor in determining service life. For example, based on Houston's experience with line breaks, small diameter asbestos-cement waterlines that were installed in the 1970s have a 40-year service life, whereas PVC waterlines have a 50-year service life.

Houston's water main replacement program is divided into two categories for purposes of capital improvement project programming: the water transmission system, and the water distribution system.

The water transmission system includes large diameter pipelines (16 inches and larger) and valves that move high volumes of treated water throughout Houston's service area, and large diameter pipelines that move untreated surface water to the three water purification plants. Houston's water transmission system has approximately 4.55 million linear feet of large diameter pipelines ranging from 16 inches to 120 inches in diameter. The water transmission system also includes seven major repump stations that re-pressurize the transmission system, and 156 storage tanks that provide water volume to meet average and peak day demands. Projects undertaken by Houston in the transmission system portion of the water main replacement program include the rehabilitation and replacement of large diameter water lines, valves, pumps, and storage tanks. Over the next five years, Houston plans to spend approximately \$890,000,000 on capital improvement projects for the water transmission system.

The water distribution system includes the small diameter pipelines (less than 16 inches) that deliver treated water to homes and businesses. The water distribution system also includes customer meters and the fire hydrants for fire protection. Houston's water distribution system has approximately 32.6 million linear feet (6,170 miles) of small diameter pipeline, approximately 460,000 water meters, and over 61,000 fire hydrants. Projects undertaken by Houston in the distribution system portion of the water main replacement program include repair and replacement of small diameter lines to help improve water quality fire and protection within neighborhoods. Over the next five years, Houston plans to spend approximately \$107,000,000 on capital improvement projects for

the water distribution system (referred to as the “Neighborhood Main Replacement Program”).

More information on Houston’s capital improvement program is available on Houston’s website at: <http://www.houstontx.gov/cip/>.

## **2. Water Loss Program**

Houston has implemented and continues to develop cost-effective strategies for reducing water loss. These include the following:

- Reducing water loss by using the Advanced Metering Infrastructure (AMI) network to detect leaks.
- Reducing water usage by City of Houston facilities other non-revenue users.
- Reducing water theft (e.g., disconnecting bypasses and direct connects).
- Expediting shutoff of water meters where there is no account owner.

In 2016, Houston engaged the consulting firm of Black & Veatch to conduct a water loss audit and develop a revenue enhancement strategy. Black & Veatch conducted a desktop water audit that analyzed water distribution system data for 2015 using the AWWA M36 standard methodology and conducted a field review that included staff interviews. Black & Veatch concluded that, in 2015, Houston lost approximately 111 gallons per connection per day, with approximately 87 gallons in real losses (due to infrastructure issues, such as leakage), and 24 gallons in apparent losses (due to metering and billing issues). These levels are within the range of losses reported and published by peer utilities.

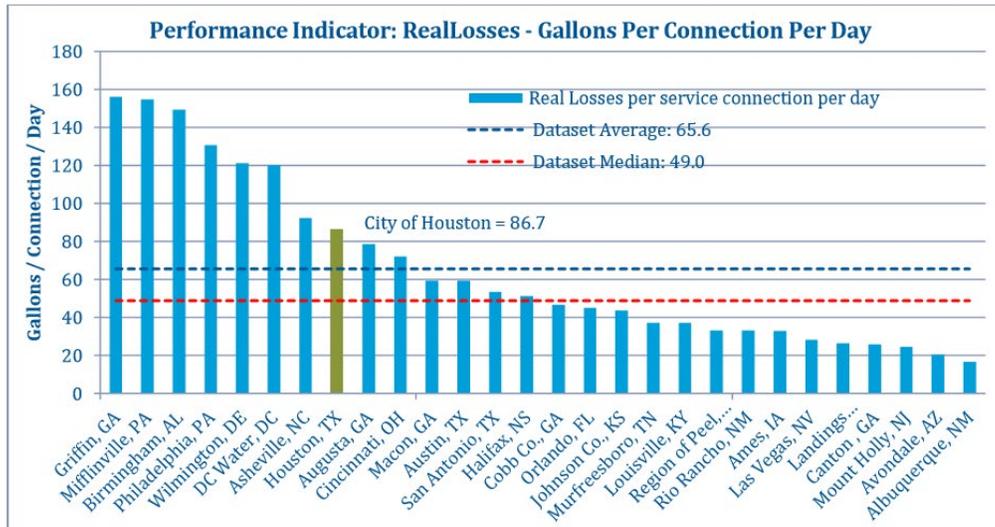


Figure 4. Real Losses: Houston and North American Benchmark Data (AWWA)

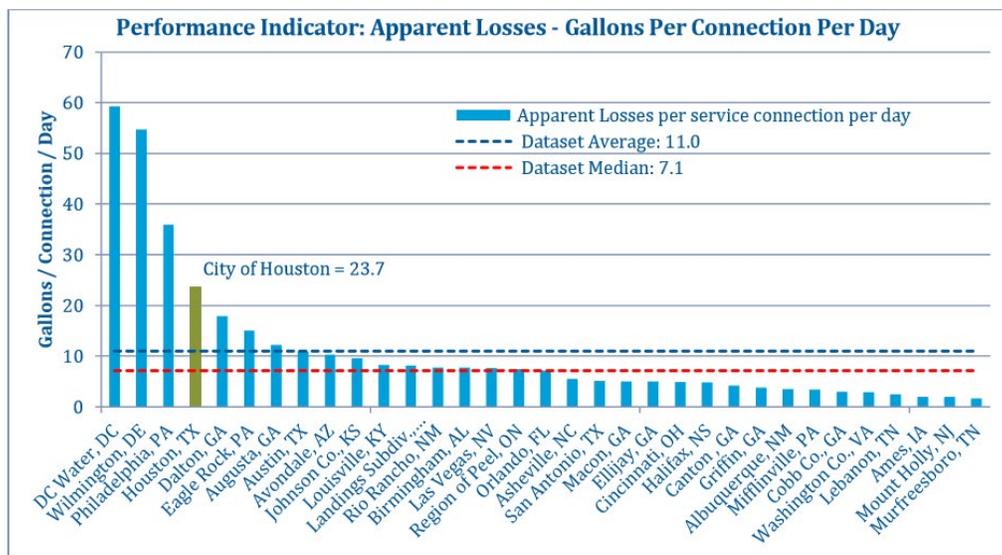


Figure 5. Apparent Losses: Houston and North American Benchmark Data (AWWA)

With the assistance of Black & Veatch, Houston identified ways to reduce non-revenue water through more accurate metering practices, improved record-keeping standards, and improved infrastructure. Houston has added dedicated staff to assist with data management and analysis, is undertaking an asset management project at key sites, and is investigating leak detection systems to be more proactive. Houston is also seeking to upgrade the existing AML network, discussed below.

### **3. Consumption Awareness Program**

Houston measures water consumption through an automated system that transmits water usage data via radio waves, also referred to as the AMI network. An attachment on the water meter sends a wireless signal that is picked up by one of the collecting devices located throughout the city, most often on utility poles. This information is transmitted to a central computer where the data can be accessed by Houston staff to generate alerts and create bills.

Using the AMI network, Houston developed the Consumption Awareness Program to provide customers with real-time usage information across multiple communication platforms. The Consumption Awareness Program allows customers to access their water consumption daily and to set alarms for high water usage and leak alerts. Customers can use the Consumption Awareness Program to identify uses and leaks that may result in water waste and bill increases, and to address those issues in real-time.

As of 2019, Houston has completed the first phase of Consumption Awareness Program implementation, which included the following activities:

- Converting 45% of retail customers to the AMI network as of February 2019.
- Creating a web portal for single family residential customers to access real-time water usage.
- Sending out more than 10,000 alerts since April 2018.
- Registering with the program a total of 14,254 accounts, 13,552 of which are single family residential.

Houston is now undertaking the second phase of implementation, which will include the following activities:

- Developing a web portal for multi-family and non-residential retail customers.
- Developing and implementing an information dissemination campaign to increase retail customer participation to 80%.
- Developing a more informative and user-friendly web portal for single family residential customers.

The second phase of the Consumption Awareness Program is currently tied to the strategic replacement of Houston's more than 20-year old Automatic Meter Reading (AMR) system with an AMI network (See AMI Network section below).

More information on the Consumption Awareness Program is attached at Appendix B and on Houston's website at: <https://www.houstonwaterbills.houstontx.gov>.

#### **4. AMI Network**

Ideally, Houston would read all retail customer meters by use of the AMI network. This would allow for more frequent readings (every 15 minutes) to assist Houston staff and customers with identifying usage trends in real time as compared to other meter reading methods (e.g., every month for billing purposes). Unfortunately, the AMI network capacity has been declining over the last five years, primarily due to aging infrastructure and lack of resources. As of 2019, the AMI network reads between 45 – 50% of all retail meters throughout the city.

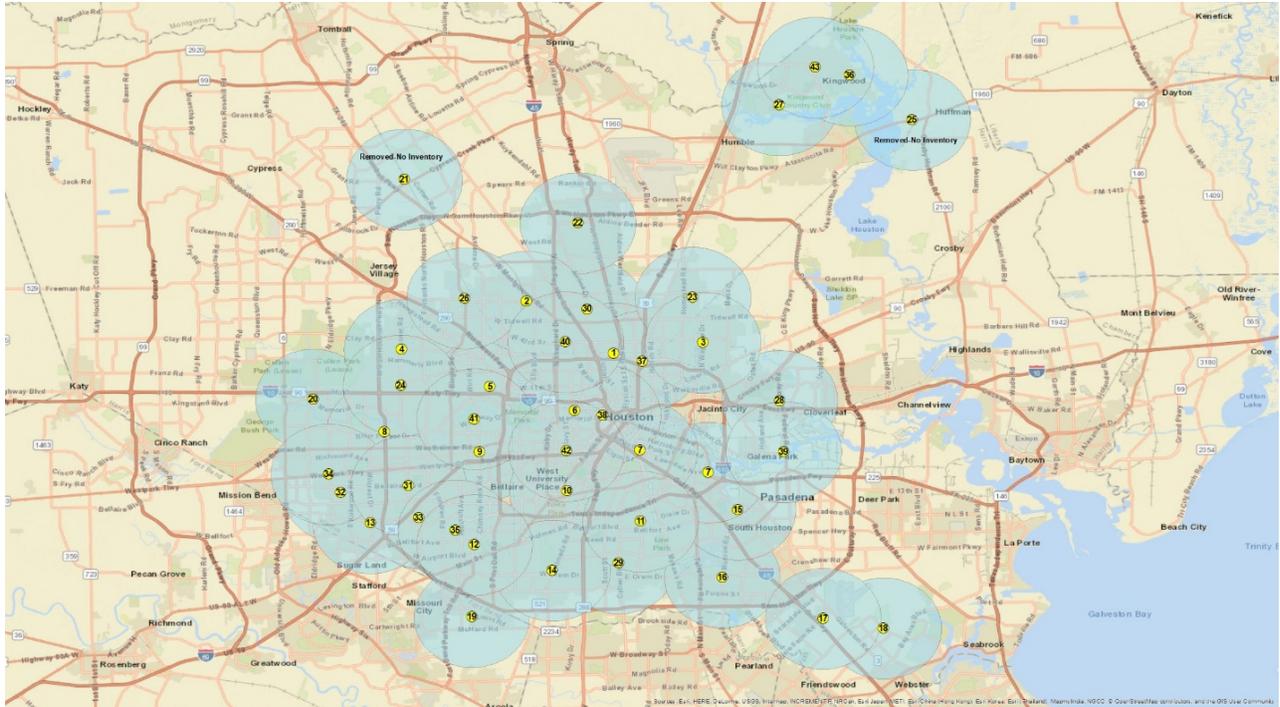


Figure 6. Current AMI Network Coverage 2019

Of the meters that cannot be read by use of the AMI network, roughly 90% are read by vehicle-mounted automated meter reading equipment and 10% are read manually.

Houston is currently planning to replace more than 95% of the existing automated meter reading system. As of today, the budget for replacement of the system is estimated at \$50 million. The implementation of the AMI meter replacement project will phase in over 10-years and is tentatively scheduled to begin in late 2020. The replacement project will also include funding for establishing interconnectivity with Houston’s current web portal, thereby facilitating utilization by all customers (residential multifamily, non-residential, etc.).

The AMI infrastructure will also provide the City and its customers with enhanced ability to monitor near real time water usage, forecast water consumption, and identify leaks earlier. Marketing of the conservation tools will be strategically aligned to coincide with

implementation of the AMI system. The marketing will be performed through direct mail, online advertisements, and social media posts from the City of Houston.

## **5. Mainline Leak Detection Program**

Houston plans to enhance its mainline leak detection program using the AMI network. Future applications are under development with manufacturers. Functionalities will include pressure sensing, hydrant flow monitoring, and water quality sensing, among others. The key to long-term viability of this plan is interoperable end-point functionality and open architecture protocols.

## **6. Water Wise Building Standards**

In 2011, Houston revised its plumbing and building codes. These revisions contributed to a gradual reduction in Houston's residential GPCD from a five-year average (2009 – 2013) of 68 to a five-year average (2014 – 2018) of 62, despite a net population increase of 95,109 people during this same period. Houston also added a section on low impact development to Houston's Infrastructure Design Manual. Low impact development can reduce the amount of treated water used for irrigation by utilizing stored rainwater and slowing runoff through use of green storm water infrastructure improvements. Houston will continue to rigorously enforce its plumbing and building codes and encourage the use of low impact development practices.

A copy of Houston's plumbing and building codes is available on Houston's website at: <https://www.houstonpermittingcenter.org/building-code-enforcement.html>.

A copy of Houston's Infrastructure Design Manual is available on Houston's website at: [https://edocs.publicworks.houstontx.gov/documents/design\\_manuals/idm.pdf](https://edocs.publicworks.houstontx.gov/documents/design_manuals/idm.pdf).

In 2004, Houston adopted Resolution No. 2004-15 establishing the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) Green Building Rating System™ as a standard for new or replacement city-owned facilities and for major

renovation of city-owned buildings and facilities with over 10,000 square feet of occupied space. LEED™ provides a complete framework for assessing building performance and meeting sustainability goals. Based on well-founded scientific standards, LEED™ emphasizes state of the art strategies for various energy and environmental aspects of a building, including water savings.

An example of past, present and future LEED™ projects for city owned facilities can be found at <https://www.houstontx.gov/generalservices/leed.html>.

More information about the LEED™ standard is available on Houston's website at: <https://www.houstontx.gov/generalservices/leed.html>.

## **7. Houston PACE Program**

Houston's Property Assessed Clean Energy (PACE) program is a proven financial tool that incentivizes Houston's commercial, industrial, and multifamily property owners to upgrade facility infrastructure with little or no capital outlay. The PACE program enables owners to lower their operating costs and use the savings to pay for eligible water conservation, energy efficiency, resiliency, and distributed generation projects. Owners gain access to private, affordable, long-term (typically 10-20 years) financing that is not available through traditional funding avenues.

The State of Texas authorized municipal and county PACE programs in 2013. Houston City Council adopted an ordinance establishing Houston's PACE program on November 4, 2015. To learn more about Houston's PACE program and cases to date, please visit <https://www.texaspaceauthority.org/houston-pace/>.

## **D. Method for Tracking Plan Implementation and Effectiveness**

*The water conservation plan must include a method for tracking the implementation and effectiveness of the plan. The method should track annual water use and provide*

*information sufficient to evaluate the implementation of conservation measures. The plan should measure progress annually and evaluate the progress towards meeting the goals.*

## **1. Water Conservation Annual Report, Water Loss Audit Annual Report, Utility Benchmarking Tool**

Historically, Houston has tracked the implementation and effectiveness of this Plan through the Water Conservation Annual Report and the Water Loss Audit Report, which are submitted to the Texas Water Development Board every year. In 2019, Houston began using the American Water Works Association Utility Benchmarking Tool as an additional tracking method. The Utility Benchmarking Tool tracks utility performance data and calculates performance indicators in areas such as organizational development, business operations, customer service, and water and wastewater operations. Per the American Water Works Association, these indicators are designed to help utilities improve their operational and managerial effectiveness. Benchmarking utility performance indicators will allow Houston to track its performance and compare its results to peers to identify areas for improvement.

## **2. Water Conservation Division**

In 2019, Houston established a Water Conservation Division with Houston Water. This new division is directed by a Water Conservation Manager, who is responsible for implementing this Plan and developing programming that produces measurable outputs to help Houston reach its GPCD and water loss five-year and ten-year targets. In addition, the Water Conservation Manager is responsible for implementing Houston's Drought Contingency Plan, managing Houston Water's education and outreach team, working with drinking water operations staff to improve Houston's Water Loss Program, and coordinating efficiency efforts with other Houston city departments, such as the Houston Sustainability Office.

### **3. Dashboard Software Platform**

Houston is negotiating a contract to pilot conservation software developed by a third-party vendor. This software platform will allow Houston and its wholesale customers to visualize and quantify the impacts of specific conservation and efficiency programming on retail and wholesale customer consumption behavior. With this information, Houston and its wholesale customers can make informed decisions regarding what programming to invest in, and more easily communicate the value of these programs to their ratepayers and elected officials. This comprehensive approach to conservation is critical to a large regional water supplier like Houston, which will be evaluating the software platform for the following benefits:

- Creation of a single data and communication hub for information on conservation activities throughout the retail and wholesale system.
- Regional reduction of peak-day, peak-season, and long-term demand on Houston's water system using highly advanced conservation analytics.
- Avoidance of transmission, treatment, distribution, and wastewater costs due to coordinated conservation programming across the retail and wholesale system.
- Deferment of plant expansion costs due to coordinated conservation programming across the retail and wholesale system.

Houston plans to license this software platform for up to three years beginning in 2019.

### **E. Master Meter**

*The water conservation plan must include a master meter to measure and account for the amount of water diverted from the source of supply.*

Houston relies on several sources of water for its water supply: two surface water reservoirs in the San Jacinto River basin, Lake Houston and Lake Conroe; one surface water reservoir in the Trinity River basin, Lake Livingston; 142 groundwater wells; and wastewater effluent reuse. All water leaving Lake Houston and flowing into Houston's Northeast Water Purification Plant is measured and accounted for through an inflow meter. Houston's water stored in Lake Conroe is measured and accounted for by the San Jacinto River Authority, which manages Lake Conroe for the benefit of Houston pursuant to an operating agreement. Likewise, Houston's water stored in Lake Livingston is measured and accounted for by the Trinity River Authority, which manages Lake Livingston for the benefit of Houston pursuant to an operating agreement. All groundwater wells operated by Houston are metered. Any treated wastewater effluent sold to contract customers for reuse is metered at the customer's point of delivery.

## **F. Universal Metering and Meter Testing**

*The water conservation plan must include a program of universal metering of both customer and public uses of water, for meter testing, repair and for periodic replacement.*

Section 47-4 of the City of Houston Code of Ordinances requires all water furnished and delivered through the Houston water distribution system to be metered. Meters must be maintained at an accuracy rate of 98-102% in accordance with the American Water Works Association benchmark.

In 2000, Houston began replacing small meters (5/8-inch to 2-inch meters) throughout the water distribution system. Houston monitors the accuracy and performance of small meters by analyzing data gathered through meter testing (performance-driven and through an annual sampling program) and reviewing consumption at various flow ranges to understand whether accuracy is affected by volume of water consumed within each range. Based on this information, small meters are mapped for replacement.

For large meters (3-inch meters and larger), Houston has a preventive maintenance program that schedules meter testing and calibration based on meter type and the volume of water that passes through the meter. Large meters are replaced as needed based on maintenance costs and manufacturer standards.

## **G. Measures to Determine and Control Water Loss**

*The water conservation plan must include measures to determine and control water loss (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections, abandoned services, etc.).*

Houston uses a system of data analytics (run daily and monthly) coupled with field inspections to identify and control water loss and potential theft or water waste. In addition, Houston provides citizens with a direct telephone line to report perceived water theft or waste and enforces its ordinances prohibiting water theft and waste as necessary.

## **H. Water Loss Program**

*The water conservation plan must include a continuous program of leak detection, repair, and water loss accounting for the transmission, delivery, and distribution system in order to control water loss.*

Houston has developed a data network based on meter readings that delivers a more robust Supervisory Control and Data Acquisition (“SCADA”) view of the entire water distribution system. This data network was piloted in Houston’s wastewater system to monitor for sanitary sewer overflows and has since been used to detect water main leaks in Houston’s water system. Additional applications of the data network are being developed, including pressure sensing, hydrant flow monitoring, and water quality sensing. The key to the success of this data network is interoperable end-point

functionality and open architecture protocols. Houston is working with the American Water Works Association Research Foundation to develop industry specifications involving these data networks to ensure these features.

In addition, Houston is assisting with efforts to standardize water loss reporting to ensure that what is reported as water loss is consistent across municipal and wholesale providers throughout the State of Texas. Houston is reviewing how water is accounted for in uses such as community fire response, dead end line flushing, new line flushing, and general city uses, and has an active transient program that monitors uses by contractors.

## **I. Education and Information Programs**

*The water conservation plan must include a program of continuing education and information regarding water conservation. This should include providing water conservation information directly to each residential, industrial, and commercial customer at least annually, and providing water conservation literature to new customer when they apply for service.*

### **1. Consumption Awareness Program**

For customers to reduce their water use long term, they first need to understand how they use water. Houston developed the Consumption Awareness Program to provide customers with access to real-time usage information across multiple communication platforms. The Consumption Awareness Program helps customers see how they're using water, identify ways to save water (and money), and find leaks and stop water waste faster.

The Consumption Awareness Program communicates with customers through the Internet, email, text, and phone. Customers can access account billing information (such as current balance, due date, last payment received, and projected next bill) as well as usage information (such as current usage, meter read date, what they paid for their usage,

and neighborhood average usage). Hourly and daily usage data is available for 60 days, and monthly usage data is available for up to 18 months. In addition, customers can set alerts, including leak alerts, and choose how to be alerted: by email, text, or phone call.

More information on the Consumption Awareness Program and a description of the dashboard is attached at Appendix B.

## **2. Water Education and Outreach Team**

Houston maintains a dedicated staff for water education and outreach programs within the Water Conservation Division of Houston Water. This education and outreach team is responsible for staffing the WaterWorks Education Center, presenting the annual WaterWorks Festival, and providing Project WET educator training and school and community outreach programs that support Houston's conservation goals.

## **3. WaterWorks Education Center**

Opened in 2010, the WaterWorks Education Center hosts numerous school field trips and tours. Located near the shores of Lake Houston at the City of Houston's Northeast Water Purification Plant, the WaterWorks Education Center is a one-of-a-kind water destination whose mission is to promote water education, conservation and stewardship. The City of Houston's WaterWorks Education Center welcomes all educational groups to explore the wonders of water during a field trip designed to immerse them with a sense of wonderment and discovery about one of earth's most precious resources. The Center offers visitors an innovative environment for creative learning with interactive exhibits, demonstrations and tour. Visitors are not only able to tour the Education Center but also learn from experts, and education activities and take home flyers, activity books and general information regarding water conservation and education. The WaterWorks Education Center has had over 31,000 visitors from 2014 to 2018 and over 55,000 visitors since its inception.

Early Childhood	Elementary School	Middle School	High School	Higher Education	Adults	Total
2,302	19,600	1,399	1,688	365	5,689	<b>31,043</b>

Table 6. WaterWorks Education Center Attendance from 2014 to 2018.

More information is available on Houston’s website at:

<https://www.publicworks.houstontx.gov/waterworks>.

**4. Annual WaterWorks Festival**

For 25 years, Houston has hosted this annual event to showcase Houston’s water conservation message. The event is geared toward school-aged children and young adults and has more than 50 sponsors and exhibitors reflecting a variety of careers in the public and private water and wastewater sectors. The event educates the community regarding Houston’s high-quality drinking water, drinking water supply and wastewater treatment systems, water conservation and efficiency initiatives. Over the last five years, 9,247 elementary students and 1,217 adults attended this event.

**5. Project WET**

The WaterWorks Education Center is a host institution for Project WET (Water Education for Teachers), a curriculum taught in 8-hour workshops to help educators teach all grade levels on diverse water-related topics with objective, experiential, science-based water education. Project WET is a world leader in developing interdisciplinary, hands-on activities that integrate knowledge of water resources and issues into K-12 classrooms using simulations and critical thinking skills at the core of Next Generation Science Standards.

As a host institution, the WaterWorks Education Center has certified over 300 educators on Project WET.

## **6. School and Community Outreach Program**

Houston Water's education and outreach team gives presentations to Houston area students throughout the school year. The team is available to present to all grade levels, in individual classrooms or assemblies, and tailors its message to include age appropriate activities and content. Educators can request a topic and activity from a wide variety of content from the Project WET curriculum. Students can participate in hands-on activities that support the *Texas Essential Knowledge and Skills* standards. On average, the education and outreach team gives presentations at more than 25 schools and school-related events each year.

## **7. Community Rain Barrel Sale**

For several years now, Houston has offered a biannual rain barrel sale with rain barrels at a discounted rate. The goal of this program is to provide area residents (especially gardeners) with efficient tools to collect rainwater throughout the year, particularly during heavy rainfall events, so that they can conserve water (and money) during drier times. More than 2,000 rain barrels have been sold to date through the Green Building Resource Center (GBRC). Houston Water and GBRC are planning to join efforts to further expand and promote this event to make it more successful every year. For more information please visit <http://greenhoustontx.gov/compostbinssale.html>.

## **8. Native Plants Propagation Program**

The Houston Parks and Recreation Department's (HPARD) Natural Resources Management Program began its native plant propagation program in May 2016 to produce locally-collected native grasses and wildflowers for installation into Houston's prairie restoration sites. Seeds are hand-collected from remnant and restored prairies around the Houston area and propagated by staff and volunteers in Houston's greenhouse. After one to two years of growing, the plants are installed in one of HPARD's five prairie restoration sites throughout the city during community volunteer events. The

program currently produces over 10,000 one-gallon pots per year of over 90 different species that are available for use in habitat restoration projects.

### **9. Native Plants Annual Sale**

Since 2019, HPARD has partnered with the Houston Arboretum and Houston Audubon to offer an annual Spring native plant sale. Most plants available at nurseries are not native to the Houston area. The annual plant sale gives citizens the opportunity to purchase native plants that are adapted to the region's climate, which means they can tolerate Houston's weather extremes that can range from prolonged periods of heavy rainfall to dry spells. In addition, many of these plants attract birds, butterflies, bees, and other pollinators. The sale includes native grasses, shrubs, trees, and flowers (including milkweed). For more information visit <https://houstonarboretum.org/events/>.

### **10. Gulf Coast Water Conservation Symposium**

Houston is an active participant in the annual Gulf Coast Water Conservation Symposium, a one-day regional event that presents information to water utilities and customers about water conservation legislation, planning, education, smart conservation investment, implementation strategies, and industry best practices. Houston Water employees serve on the Symposium's Steering Committee, help plan the Symposium, and help raise awareness of the event.

In 2019, the Symposium was titled "Water Efficient Future: Planning, Tools & Best Practices" and focused on new and improved tools currently available to water utilities to meet their water conservation goals. The Symposium also featured case studies that highlighted planning, redevelopment, and water conservation implementation efforts from cities large to small.

## **J. Water Rate Structure**

*The water conservation plan must include a water rate structure which is not “promotional,” i.e., a rate structure which is cost-based and which does not encourage the excessive use of water. Include a copy of the rate structure.*

Houston’s water rate structure is cost-based and is not promotional. Water rates are based on an inclining block structure, and wastewater rates are based on total water use. Houston’s objectives in rate structure design are that rates be based on the costs to serve, provide adequate and stable revenues, be equitable across customer classes and volume users, and be easy to implement and administer. Houston performs a cost-of-service study every ten years, and a study is underway in 2019.

A copy of Houston’s current rates is attached at Appendix C. Current rates for 2019 and beyond are published on Houston’s website at [https://cohweb.houstontx.gov/FIN\\_FeeSchedule/default.aspx](https://cohweb.houstontx.gov/FIN_FeeSchedule/default.aspx).

## **K. Implementation and Enforcement**

*The water conservation plan must include a means of implementation and enforcement, evidenced by adoption of the plan: (1) a copy of the ordinance, resolution, or tariff indicating official adoption of the water conservation plan by the utility; and (2) a description of the authority by which the utility will implement and enforce the conservation plan.*

A copy of the Houston City Council ordinance adopting this Plan is attached at Appendix D.

Houston implements and enforces the regulatory aspects of this Plan through existing codes and ordinances. These include:

- Building and Plumbing Codes: [www.houstonpermittingcenter.org/code-enforcement](http://www.houstonpermittingcenter.org/code-enforcement)
- Chapter 47 – Water and Sewers, of the City of Houston Code of Ordinances: <http://www.houstontx.gov/codes/index.html>
- LEED Certification of City of Houston owned facilities (Resolution No. 2004-15): <http://www.usgbc.org/Docs/Archive/General/Docs1981.pdf>

## **L. Contract Customer Requirements**

*If the utility will utilize a project financed by the TWDB to furnish water or wastewater services to another supplying entity that in turn will furnish the water or wastewater services to the ultimate consumer, the requirements for the water conservation plan also pertain to these supplier entities. To comply with this requirement the utility shall: (1) submit its own water conservation plan; (2) submit the other entity's (or entities') water conservation plan; (3) require, by contract, that the other entity (or entities) adopt a water conservation plan that conforms to the TWDB's requirement and submit it to the TWDB. If the requirement is to be included in an existing water or wastewater service contract, it may be included, at the earliest of the renewal or substantial amendment of the contract, or by other appropriate measures.*

All water supply contracts entered into after this Plan was first adopted require the customer (and its customers, if the entity is a wholesale provider) to adopt and implement a water conservation plan meeting the requirements of state law and that is at least as stringent as this Plan.

## **M. Region H Notification**

*The water conservation plan must include documentation that the regional water planning group for the service area of the utility has been notified of the utility's water conservation plan.*

A copy of Houston's letter notifying Region H of Houston's 2019 Water Conservation Plan is attached at Appendix E.

## **N. Drought Contingency Plan**

*The water conservation plan must include a copy of the utility's drought conservation plan that meets the requirements of the TWDB's Water Conservation Plan Guidance Checklist, Form TWDB-1968 (Rev. 1/08/2013).*

A copy of Houston's 2019 Drought Contingency Plan is attached at Appendix F.

## **O. Adoption**

*The water conservation plan must be formally adopted by the governing body of the entity. For a municipal water system, adoption would be by the city council as an ordinance, or a resolution by the utility's board of directors.*

A copy of the Houston City Council ordinance adopting this Plan is attached at Appendix D.

## **P. Reporting Requirement**

*The water conservation plan must identify who will be responsible for preparing the annual report on the utility profile form TWDB-1965. Loan/grant recipients must maintain an approved water conservation program in effect until all financial obligations to the state have been discharged and shall report annually to the executive administrator of the TWDB on the progress in implementing each of the minimum requirements in its water conservation plan and the status of any of its customers' water conservation plan required by contract. The content and format for the annual reporting is included in the forms: Water Conservation Plan Annual Report; TWDB-1966 for retail water suppliers; TWDB-1967 for non-water suppliers; and TWDB-1969 for wholesale water suppliers.*

Houston Water, through its Water Conservation Manager, will be responsible for preparing the Water Conservation Plan Annual Report, TWDB-1966 for retail water suppliers and TWDB 1969 for wholesale water supplies.

**Appendix A**  
**Water Utility Profile**

A copy of the 2019 Utility Profile and Water Conservation Requirements for Municipal Water Use by Retail and Wholesale Public Water Suppliers, required by Texas Commission on Environmental Quality, is enclosed.



## 563 Texas Commission on Environmental Quality

Water Availability Division

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

Telephone (512) 239-4691, FAX (512) 239-2214

### Utility Profile and Water Conservation Plan Requirements for Wholesale Public Water Suppliers

This form is provided to assist wholesale public water suppliers in water conservation plan development. If you need assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

*Water users can find best management practices (BMPs) at the Texas Water Development Board's website <http://www.twdb.texas.gov/conservation/BMPs/index.asp>. The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.*

#### Contact Information

Name: City of Houston

Address: 611 Walker St., Houston, TX 77002

Telephone Number: (832) 395-2198 Fax: (832) 395-2704

Water Right No.(s): 4261, 4277, 4963, 4965, 5807, 5808, 5827, 2925, 5762, 5826

Regional Water Planning Group: Region H Water Planning Group

Water Conservation Division Manager: Paula Paciorek Phone: (832) 395-2198

Form Completed By: Christopher Varela; Mitchell Ramon, P.E.

Title: Management Analyst IV; Water Planning Engineer

Signature:  Date: 06/7/2019

**A water conservation plan for wholesale public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.5). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.**

## Utility Profile

### I. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

#### A. Population and Service Area Data:

1. Service area size (in square miles):

(Please attach a copy of service-area map)

1,536

2. Current population of service area:

2,529,487

3. Current population served for:

- a. Water 2,529,487

- b. Wastewater 115,270

4. Population served for previous five years:

<i>Year</i>	<i>Population</i>
2014	2,316,478
2015	2,359,080
2016	2,401,681
2017	2,444,283
2018	2,486,885

5. Projected population for service area in the following decades:

<i>Year</i>	<i>Population</i>
2020	2,572,088
2030	2,742,677
2040	2,875,206
2050	2,993,806
2060	3,101,898

6. List source or method for the calculation of current and projected population size.

- Historical and future population by TWDB State Water Planning Data
- Future water demand projections developed by TWDB, HGSD and City of Houston Water Planning
- Service area of 635 square miles includes retail service area
- Historical and projected populations are based on TWDB Region H planning data

#### B. Customer Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of annual use for each customer for the previous year: **See attachment**

<i>Wholesale Customer</i>	<i>Contracted Amount (Acre-feet)</i>	<i>Previous Year Amount of Water Delivered (acre-feet)</i>
	<i>See attachment</i>	

**II. WATER USE DATA FOR SERVICE AREA**

*A. Water Delivery*

Indicate if the water provided under wholesale contracts is treated or raw water and the annual amounts for the previous five years (in acre feet):

<i>Year</i>	<i>Treated Water</i>	<i>Raw Water</i>
<b>2014</b>	<b>167,606</b>	<b>237,666</b>
<b>2015</b>	<b>167,218</b>	<b>249,975</b>
<b>2016</b>	<b>177,033</b>	<b>245,272</b>
<b>2017</b>	<b>164,333</b>	<b>239,421</b>
<b>2018</b>	<b>167,014</b>	<b>249,259</b>
<b>Totals</b>	<b>843,204</b>	<b>1,221,592</b>

*B. Water Accounting Data*

- Total amount of water diverted at the point of diversion(s) for the previous five years (in acre-feet) for all water uses:

<i>Year</i>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<i>Month</i>					
January	<b>31,207</b>	<b>31,532</b>	<b>32,029</b>	<b>33,120</b>	<b>33,254</b>
February	<b>27,387</b>	<b>29,497</b>	<b>31,515</b>	<b>29,987</b>	<b>29,823</b>
March	<b>31,263</b>	<b>31,093</b>	<b>34,750</b>	<b>33,592</b>	<b>33,405</b>
April	<b>33,634</b>	<b>35,738</b>	<b>33,724</b>	<b>34,782</b>	<b>34,304</b>
May	<b>35,576</b>	<b>33,011</b>	<b>35,862</b>	<b>37,678</b>	<b>39,030</b>
June	<b>35,483</b>	<b>34,476</b>	<b>34,908</b>	<b>24,270</b>	<b>38,836</b>
July	<b>38,485</b>	<b>40,007</b>	<b>40,469</b>	<b>38,752</b>	<b>40,388</b>

August	38,887	42,476	38,603	34,510	40,156
September	34,563	38,050	36,523	34,508	33,425
October	34,520	38,110	37,011	36,293	32,521
November	32,676	30,731	34,235	33,881	30,711
December	31,593	32,471	32,675	32,382	30,419
<b>Totals</b>	<b>405,275</b>	<b>417,192</b>	<b>422,301</b>	<b>403,754</b>	<b>416,273</b>

2. Wholesale population served and total amount of water diverted for **municipal use** for the previous five years (in acre-feet):

<i>Year</i>	<i>Total Population Served</i>	<i>Total Annual Water Diverted for Municipal Use</i>
2014	2,316,478	167,606.23
2015	2,359,080	167,217.83
2016	2,401,681	177,033.06
2017	2,444,283	164,333.17
2018	2,486,885	167,014.10

*C. Projected Water Demands*

If applicable, project and attach water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

**III. WATER SUPPLY SYSTEM DATA**

*A. Projected Water Demands*

List all current water supply sources and the amounts authorized (in acre feet) with each.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
Surface Water	Lake Livingston, Southern Canal, Lake Houston, Lake Conroe, San Jacinto River, multiple bayous	1,657,029
Groundwater	Evangeline Aquifer and Chicot Aquifer	167,467
Other		

**B. Treatment and Distribution System (if providing treated water)**

1. Design daily capacity of system (MGD):

905

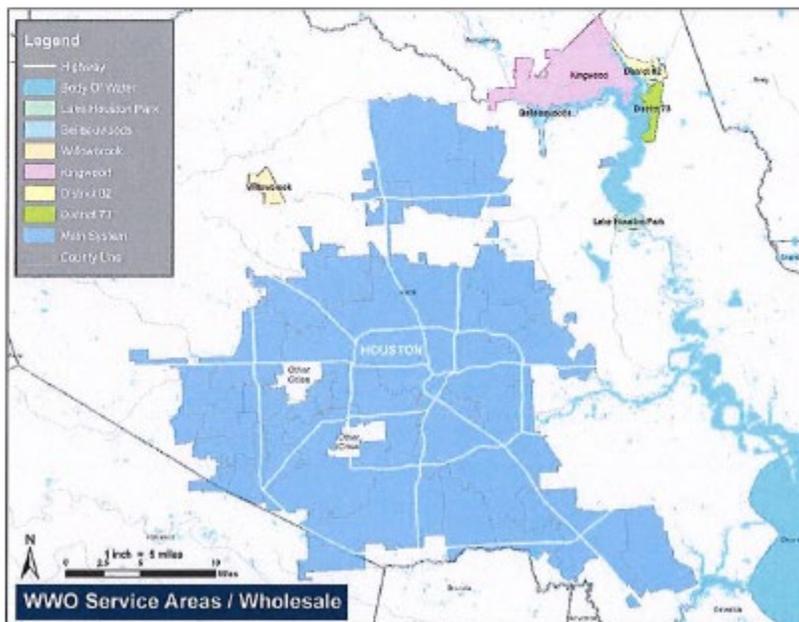
2. Storage capacity (MGD):

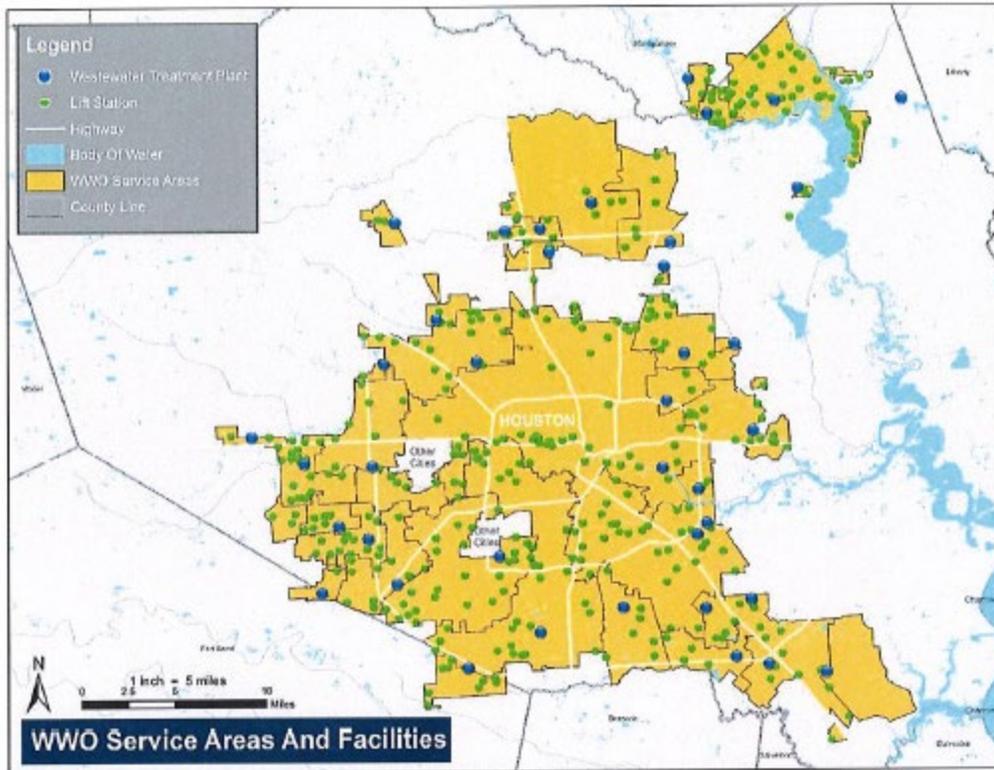
a. Elevated 19.8

b. Ground 192.9

3. Please attach a description of the water system. Include the number of treatment plants, wells, and storage tanks

Number of Facilities	Surface Water Treatment Plants	Groundwater Treatment Plants	Groundwater Wells	Ground Storage Tanks	Elevated Storage Tanks	Hydro Storage Tanks
TX1010013 - Main System	3	41	103	69	18	6
TX1011902 - WILLOW CHASE	-	4	5	7	1	5
TX1010348 - UD 5 - KINGWOOD	-	6	16	11	5	2
TX1011585 - DISTRICT 73	-	2	2	3	1	2
TX1011593 - DISTRICT 82 - Plantation Hills	-	1	2	2	-	1
TX1011594 - BELLEAU WOODS	-	2	1	2	-	2
TX1011587 - LAKE HOUSTON PARKS	-	1	1	-	-	2
<b>Total</b>	<b>3</b>	<b>57</b>	<b>130</b>	<b>94</b>	<b>25</b>	<b>20</b>





In areas with City of Houston wastewater service, wastewater is treated in one of 39 wastewater treatment plants using activated sludge processes. Treated effluent is disinfected with chlorination or UV light prior to being discharged to a water body - typically a bayou or ditch. The following facilities are owned and operated by the City of Houston (\*operated by Inframark).

69th Street WQ0010495090 Houston Ship Channel/Buffalo Bayou Tidal in 1007  
 Almeda Sims WQ0010495003 Sims Bayou Above Tidal in 1007  
 Beltway WQ0010495111 HCFCF ditch D124-00-00 in 1007  
 \*Cedar Bayou WQ0010495112 HCFCF ditch Q136-00-00 in 0902  
 Chocolate Bayou WQ0010495009 Sims Bayou Above Tidal in 1007  
 Clinton Park WQ0010495010 Houston Ship Channel/Buffalo Bayou Tidal in 1007  
 Easthaven WQ0010495065 Berry Creek in 1007  
 \*Forest Cove WQ0010495149 unnamed ditch, thence to HCFCF ditch G-103-45-00 in 1002  
 FWSD 23 WQ0010495016 Halls Bayou in 1006

Greenridge WQ0010495110 unnamed drainage ditch, thence to HCFCD ditch C147-00-00 in 1007

Homestead WQ0010495023 Hunting Bayou in 1007

Imperial Valley WQ0010495101 HCFCD ditch P144-01-00 in 1016

Intercontinental Airport WQ0010495078 HCFCD ditch P140-00-00 in 1016

Keegans Bayou WQ0010495119 Keegans Bayou in 1017

\*Kingwood Central WQ0010495146 unnamed ditch, thence to Ben's Branch in 1002

\*Kingwood West WQ0010495142 unnamed ditch, thence to Evans Gully in 1004

Metro Central WQ0010495152 HCFCD ditch, thence to Horsepen Bayou in 1113

MUD 203 WQ0010495133 Greens Bayou Above Tidal in 1016

Northbelt WQ0010495122 HCFCD ditch P133-00-00 in 1016

Northeast WQ0010495077 Greens Bayou Tidal in 1006

Northgate WQ0010495100 Greens Bayou Above Tidal in 1016

Northwest WQ0010495076 Cole Creek in 1017

Park Ten WQ0010495135 HCFCD W487-0C-NW-01 in 1014

Sagemont WQ0010495075 Turkey Creek in 1102

Sims North WQ0010495002/TX0062201 Sims Bayou in 1007

Sims South WQ0010495002/TX0105058 Sims Bayou in 1007

Southeast WQ0010495079 HCFCD ditch A120-00-00 in 1102

Southwest WQ0010495037 Brays Bayou Above Tidal in 1007

Tidwell Timbers WQ0010495148 Greens Bayou Above Tidal in 1016

Turkey Creek WQ0010495109 Buffalo Bayou Above Tidal in 1014

Upper Brays WQ0010495116 Brays Bayou in 1007

WCID 47 WQ0010495050 Berry Bayou in 1007

WCID 76 WQ0010495150 Greens Bayou Above Tidal in 1016

WCID 111 WQ0010495095 Keegans Bayou in 1007

West District WQ0010495030 Buffalo Bayou Above Tidal in 1014

\*West Lake Houston WQ0014650001 South Fork Harmon Bayou in 1002

Westway WQ0010495139 Brickhouse Gully in 1017

White Oak WQ0010495099 Whiteoak Bayou Above Tidal in 1017

Willowbrook WQ0010495126 HCFCD ditch P150-00-00

*B. Wastewater Data for Service Area (if applicable)*

1. Percent of water service area served by wastewater system: 5 %
2. Monthly volume treated for previous five years (in 1,000 gallons):

<i>Year</i>	2018	2017	2016	2015	2014
<i>Month</i>					
January	<u>7787510</u>	<u>9130120</u>	<u>7594049</u>	<u>8130587</u>	<u>5717516</u>
February	<u>8587740</u>	<u>7351400</u>	<u>6298742</u>	<u>5729080</u>	<u>6047860</u>
March	<u>7688310</u>	<u>8556310</u>	<u>7808680</u>	<u>8870061</u>	<u>7199564</u>
April	<u>7076790</u>	<u>6454200</u>	<u>8734200</u>	<u>8909160</u>	<u>6081570</u>
May	<u>7185676</u>	<u>6897500</u>	<u>9233629</u>	<u>10853503</u>	<u>8237196</u>
June	<u>7376010</u>	<u>7583700</u>	<u>9779635</u>	<u>8806440</u>	<u>6663240</u>
July	<u>7965698</u>	<u>6850070</u>	<u>7299474</u>	<u>7247304</u>	<u>6946232</u>
August	<u>6818047</u>	<u>10351210</u>	<u>10018890</u>	<u>7127520</u>	<u>6888758</u>
September	<u>8874510</u>	<u>7747500</u>	<u>8112000</u>	<u>6918240</u>	<u>7614720</u>
October	<u>8696895</u>	<u>7048160</u>	<u>6663450</u>	<u>8221039</u>	<u>6723404</u>
November	<u>7678470</u>	<u>6581700</u>	<u>6264600</u>	<u>7599585</u>	<u>6512130</u>
December	<u>9298140</u>	<u>7484640</u>	<u>7110160</u>	<u>7825899</u>	<u>7830972</u>
<b>Totals</b>	<u>95033796</u>	<u>92036510</u>	<u>94917509</u>	<u>96238418</u>	<u>82463162</u>

## Water Conservation Plan

In addition to the description of the wholesaler's service area (profile from above), a water conservation plan for a wholesale public water supplier must include, at a minimum, additional information as required by Title 30, Texas Administrative Code, Chapter 288.5. Note: If the water conservation plan does not provide information for each requirement an explanation must be included as to why the requirement is not applicable.

### *A. Specific, Quantified 5 & 10-Year Targets*

The water conservation plan must include specific, quantified 5-year and 10-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler's service area, maximum acceptable water loss, and the basis for the development of these goals. Note that the goals established by a wholesale water supplier under this subparagraph are not enforceable. These goals must be updated during the 5-year review and submittal.

### *B. Measuring and Accounting for Diversions*

The water conservation plan must include a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply.

### *C. Record Management Program*

The water conservation plan must include a monitoring and record management program for determining water deliveries, sales, and losses.

### *D. Metering/Leak-Detection and Repair Program*

The water conservation plan must include a program of metering and leak detection and repair for the wholesaler's water storage, delivery, and distribution system.

### *E. Contract Requirements for Successive Customer Conservation*

The water conservation plan must include a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of Title 30 TAC Chapter 288. If the customer intends to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.

### *F. Reservoir Systems Operations Plan*

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin. The reservoir systems operations plan shall include optimization of water supplies as one of the significant goals of the plan.

### *G. Enforcement Procedure and Official Adoption*

The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

*H. Coordination with the Regional Water Planning Group(s)*

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

Example statement to be included within the water conservation plan:

*The service area of the \_\_\_\_\_ (name of water supplier) is located within the \_\_\_\_\_ (name of regional water planning area or areas) and \_\_\_\_\_ (name of water supplier) has provided a copy of this water conservation plan to the \_\_\_\_\_ (name of regional water planning group or groups).*

*I. Plan Review and Update*

A wholesale water supplier shall review and update its water conservation plan, as appropriate based on an assessment of previous 5-year and 10-year targets and any other new or updated information. A wholesale water supplier shall review and update the next revision of its water conservation plan no later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

**V. ADDITIONAL CONSERVATION STRATEGIES**

Any combination of the following strategies shall be selected by the water wholesaler, in addition to the minimum requirements of 30 TAC §288.5(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. Conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;
2. A program to assist agricultural customers in the development of conservation, pollution prevention and abatement plans;
3. A program for reuse and/or recycling of wastewater and/or graywater;
4. Any other water conservation practice, method, or technique which the wholesaler shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

**VI. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER**

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:

1. support the applicant's proposed use of water with consideration of the water conservation goals of the water conservation plan;
2. evaluates conservation as an alternative to the proposed appropriation; and
3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.

Type Name	Company Name	Contract Maximum	Contract Maximum Type	2018 Consumption
PDS - Anheuser Busch	Anheuser-Busch	78.19	MGM	1,020,004,000
PDS - GRP Taking City Water	City of Spring Valley	N/A		76,166,000
PDS - GRP Taking City Water	HCMUD 148	7	MGM	104,945,000
PDS - GRP Taking City Water	HCMUD 182	0.85	MGM	9,923,000
PDS - GRP Taking City Water	HCMUD 278	8		118,823,000
PDS - GRP Taking City Water	HCMUD 344 (Summerwood)	10		119,476,000
PDS - GRP Taking City Water	HCMUD 49	8.305		115,369,000
PDS - GRP Taking City Water	Pine Village Public Utility Dist	2.5		44,294,000
PDS - Non-Potable Water	Air Liquide America Corp.	23	MGD	6,521,079,000
PDS - Non-Potable Water	Air Products and Chemicals Inc	0.6	MGD	50,465,000
PDS - Non-Potable Water	American Acryl, L.P.	2	MGD	228,293,000
PDS - Non-Potable Water	Arco Chemical - CH 11	0.088	MGD	32,280,000
PDS - Non-Potable Water	Baker Petrolite Corp.	0.345	MGD	128,430,000
PDS - Non-Potable Water	Battleground Oil Specialty Terminal Company (BOSTCO)	0.009	MGD	28,635,000
PDS - Non-Potable Water	Battleground Water Company (INEOS)	27	MGD	6,210,275,000
PDS - Non-Potable Water	Bayer Material Science(Baychem - Mobay)	4	MGD	1,858,823,000
PDS - Non-Potable Water	Baytown Area Water Authority	20	MGD	5,230,382,000
PDS - Non-Potable Water	Bealine Service Co.	N/A		921,000
PDS - Non-Potable Water	Braskem American, Inc. (Aristech)	2	MGD	269,088,000
PDS - Non-Potable Water	Calpine Contruction Finance Co.	6	MGD	1,703,087,000
PDS - Non-Potable Water	Carpenter Chemical	0.0033	MGD	2,339,000
PDS - Non-Potable Water	Chem-Sep	0.003	MGD	1,231,000
PDS - Non-Potable Water	Chevron Phillips Chemical Co,	22.2	MGD	5,160,029,000
PDS - Non-Potable Water	City of Deer Park	7	MGD	1,556,202,000

PDS - Non-Potable Water	Clean Harbors Environmental	3.6	MGD	568,150,000
PDS - Non-Potable Water	D.B. Western - Texas - December 2010	0.72	MGD	141,548,000
PDS - Non-Potable Water	Deer Park Energy Center	8.5	MGD	2,068,844,000
PDS - Non-Potable Water	Dianal America			-
PDS - Non-Potable Water	Dixie Chemical	0.017	MGD	220,000
PDS - Non-Potable Water	Enterprise Prod. Operating (former Diamond Shamrock)	6.736	MGD	6,615,000
PDS - Non-Potable Water	Enterprise Products	7.9	MGD	1,169,027,000
PDS - Non-Potable Water	Enterprise Products - Valero Refining -Texas, LP (EOTT)	1.88	MGD	236,285,000
PDS - Non-Potable Water	Equilon Enterprises, LLC (Oiltanking)	1.6	MGD	6,355,000
PDS - Non-Potable Water	Equistar Chemicals (formerly Zeneca) CH 11	2.75	MGD	754,681,000
PDS - Non-Potable Water	Equistar Chemicals LP - CH 11 (Lyondell Chemical)	0.105	MGD	2,527,493,000
PDS - Non-Potable Water	Equistar Chemicals LP - CH 11 (Lyondell Chemical)	31.8	MGD	2,527,493,000
PDS - Non-Potable Water	Equistar Chemicals LP -CH 11 (1)	13	MGD	754,681,000
PDS - Non-Potable Water	Exxon Chemical Americas	4	MGD	1,256,452,000
PDS - Non-Potable Water	Exxon Pipeline	0.03	MGD	451,000
PDS - Non-Potable Water	Flint Hills Resources	4.3	MGD	1,177,495,000
PDS - Non-Potable Water	FMC Corporation	1	MGD	277,263,000
PDS - Non-Potable Water	G E O Specialty Chemicals (Hampshire)	0.373	MGD	84,579,000
PDS - Non-Potable Water	Gulf Coast Fractionators	2.022	MGD	672,370,000
PDS - Non-Potable Water	Gulf Coast Limestone	N/A		3,377,000
PDS - Non-Potable Water	Gulf Coast Waste Disposal Authority	0.24	MGD	44,375,000
PDS - Non-Potable Water	Haldor Topsoe	0.025	MGD	15,045,000
PDS - Non-Potable Water	Haltermann, LTD, Johann	0.25	MGD	88,320,000
PDS - Non-Potable Water	Harris County, Texas	0.1	MGD	260,000
PDS - Non-Potable Water	Hoescht Celanese	15.1	MGD	3,267,958,000
PDS - Non-Potable Water	Houston Fuel Oil Company	0.09	MGD	28,075,000

PDS - Non-Potable Water	Houston Refining, LP (Lyondell -Citgo) CH 11	20.9	MGD	5,092,004,000
PDS - Non-Potable Water	Industrial Terminals, L.P.	0.07	MGD	4,843,000
PDS - Non-Potable Water	IP INVESTMENTS, LLC	0.025	MGD	5,757,000
PDS - Non-Potable Water	Jindal United States Corp.	1.71	MGD	20,049,000
PDS - Non-Potable Water	Kaneka	N/A		5,000
PDS - Non-Potable Water	Kinder Morgan Liquid Terminal	0.26	MGD	4,797,000
PDS - Non-Potable Water	Lone Star NGL Mont Belvieu LP - L Dreyfuss (TX Eastern)(Conoco)	8.64	MGD	1,218,303,000
PDS - Non-Potable Water	Lone Star NGL Mont Belvieu LP - Louis Dreyfuss (TX Eastern)	0.358	MGD	21,822,000
PDS - Non-Potable Water	Lubrizol Corporation	1.46	MGD	576,283,000
PDS - Non-Potable Water	McKenzie Tank Lines	N/A		7,000
PDS - Non-Potable Water	Noltex, L.L.C.	0.72	MGD	2,053,000
PDS - Non-Potable Water	NRG Texas LP (Texas Genco, Inc)	1	MGD	133,920,000
PDS - Non-Potable Water	Occidental Chemical	12.6	MGD	2,788,717,000
PDS - Non-Potable Water	Odfjell Terminals (Houston) ( Baytank)	0.2	MGD	40,000
PDS - Non-Potable Water	Oiltanking Houston Inc.	0.01	MGD	60,000
PDS - Non-Potable Water	ONEOK Hydrocarbon L.P.	10	MGD	490,419,000
PDS - Non-Potable Water	Industries (Eisai)	0.288	MGD	1,264,000
PDS - Non-Potable Water	Inc Pasadena Refining System,	26.91	MGD	2,517,000
PDS - Non-Potable Water	Inc (Crown)	5.2	MGD	1,165,397,000
PDS - Non-Potable Water	Petrounited	0.015	MGD	27,783,000
PDS - Non-Potable Water	Pol-Tex International	0.05	MGD	6,902,000
PDS - Non-Potable Water	Poly-One Corporation	0.055	MGD	22,592,000
PDS - Non-Potable Water	Port of Houston Authority	0.033	MGD	30,683,000
PDS - Non-Potable Water	Praxair, Inc.	0.64	MGD	198,085,000
PDS - Non-Potable Water	Reagans USA, Inc. (Calgon)	0.04	MGD	20,000
PDS - Non-Potable Water	Rentech Nitrogen Pasadena, formerly Agrifos Fertilizer LP	2.2	MGD	675,020,000
PDS - Non-Potable Water	Rohm & Haas	0.304	MGD	93,168,000
PDS - Non-Potable Water	Shell Oil	32.5	MGD	6,846,092,000
PDS - Non-Potable Water	SSI Chusei USA	0.08	MGD	59,822,000

PDS - Non-Potable Water	Stolthaven Houston, Inc.	0.01	MGD	3,140,000
PDS - Non-Potable Water	Styrolution America LLC (name changed)	4.4	MGD	1,048,418,000
PDS - Non-Potable Water	Targa Midstream Services LP (Dynergy)	6	MGD	603,520,000
PDS - Non-Potable Water	Texas Brine Company	2	MGD	734,131,000
PDS - Non-Potable Water	Texas Molecular LLC	0.33	MGD	15,497,000
PDS - Non-Potable Water	Total Petrochemicals USA (FINA)	2	MGD	676,566,000
PDS - Non-Potable Water	TPC Group, LLC (formerly Texas Petrochemical)	10.6	MGD	2,333,572,000
PDS - Non-Potable Water	Trimac - DSI Transports, Inc. / Trimac	0.05	MGD	4,097,000
PDS - Non-Potable Water	Valero Refining Company- Texas	5.6	MGD	1,368,130,000
PDS - Non-Potable Water	Vulcan Construction Materials	0.0411	MGD	6,600,000
PDS - Non-Potable Water	W. Canning, Inc			36,000
PDS - Non-Potable Water	Zeon Chemical	0.025	MGD	245,000
PDS - Treated Water	Baybrook MUD 1	80	MGD	91,853,000
PDS - Treated Water	Central Harris County Regional Water Authority	2.12	MGD	600,767,000
PDS - Treated Water	Chimney Hill MUD	13.86	MGM	156,155,000
PDS - Treated Water	City of Bellaire	42	MGM	638,435,000
PDS - Treated Water	City of Bunker Hill Village	14.75	MGM	226,527,000
PDS - Treated Water	City of Friendswood	80	MGD	1,877,479,000
PDS - Treated Water	City of Galena Park	25.9	MGM	280,220,000
PDS - Treated Water	City of Hilshire Vlg.	3.138	MGM	45,723,000
PDS - Treated Water	City of Humble	0.7	MGD	332,648,000
PDS - Treated Water	City of Jacinto City	25	MGM	262,140,000
PDS - Treated Water	City of Jersey Village	22.5	MGM	458,787,000
PDS - Treated Water	City of Pasadena - East Plant	180	MGM	5,959,222,000
PDS - Treated Water	City of Pearland	40	MGM	1,012,282,000
PDS - Treated Water	City of South Houston	80	MGD	564,648,000
PDS - Treated Water	City of Southside Place	7.2	MGM	72,368,000
PDS - Treated Water	City of Webster	5	MGD	570,392,000
PDS - Treated Water	City of West University	32.75	MGM	465,374,000
PDS - Treated Water	Clear Brook City MUD	60.4	MGM	645,742,000
PDS - Treated Water	Clear Lake City	348.7	MGM	3,383,024,000

PDS - Treated Water	Emerald Forest Utility District -NHCRWA	0.3	MGM	14,056,000
PDS - Treated Water	Greenwood Utility District	24	MGM	331,590,000
PDS - Treated Water	Gulf Coast Water Authority (Galveston)	499.1	MGM	5,249,555,000
PDS - Treated Water	HCMUD 148 (NEW CUSTOMER)	7	MGM	104,945,000
PDS - Treated Water	HCMUD 158	15	MGM	185,004,000
PDS - Treated Water	HCMUD 220	1.45	MGM	11,683,000
PDS - Treated Water	HCMUD 23 (Consortium)	4.538	MGM	66,592,000
PDS - Treated Water	HCMUD 261 & Winfern Forest UD	8.038	MGM	94,615,000
PDS - Treated Water	HCMUD 372	10	MGM	189,938,000
PDS - Treated Water	HCMUD 402	1	MGM	81,671,000
PDS - Treated Water	HCMUD 406	1.2	MGM	127,948,000
PDS - Treated Water	HCMUD 420	3.6	MGM	40,009,000
PDS - Treated Water	HCMUD 421	2.625	MGM	87,857,000
PDS - Treated Water	HCMUD 461	0.399	MGM	8,346,000
PDS - Treated Water	HCMUD 5	10	MGM	52,250,000
PDS - Treated Water	HCMUD 55	1.3	MGD	459,090,000
PDS - Treated Water	HCMUD 6 (Consortium 5)	5.646	MGM	67,619,000
PDS - Treated Water	HCMUD 8	11.25	MGM	143,790,000
PDS - Treated Water	HCMUD 96	12	MGM	198,569,000
PDS - Treated Water	HCWCID 89	13.029	MGM	231,845,000
PDS - Treated Water	HCWCID 96 (Treated Water)	18.347	MGM	344,648,000
PDS - Treated Water	HCWICD - Fondren Road	7.47	MGM	91,345,000
PDS - Treated Water	La Porte Water Authority	130.1	MGM	1,483,335,000
PDS - Treated Water	Memorial Villages Water Authority	60	MGM	891,837,000
PDS - Treated Water	Montgomery County MUD 98	2	MGM	71,630,000
PDS - Treated Water	North Channel Water Auth	206	MGM	2,533,848,000
PDS - Treated Water	North Fort Bend County Water Authority	19.5	MGD	5,120,883,000
PDS - Treated Water	North Harris County Regional Water Authority	0.3	MGM	8,874,345,000
PDS - Treated Water	Regional Water Adv. Comm.	23	MGM	241,241,000

PDS - Treated Water	Rolling Fork Public Utility District	5.264	MGM	47,335,000
PDS - Treated Water	Sunbelt Fresh Water Supply District	8.166	MGM	135,632,000
PDS - Treated Water	Sunbelt Fresh Water Supply District -Northline	8.5	MGM	28,773,000
PDS - Treated Water	Sunbelt Fresh Water Supply District -Oakwilde	16.166	MGM	44,301,000
PDS - Treated Water	West Harris County Regional Water Authority	18.25	MGD	7,398,995,000
PDS - Treated Water	WHCMUD 16	0.21	MGM	2,179,000



## Texas Commission on Environmental Quality

Water Availability Division

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

Telephone (512) 239-4691, FAX (512) 239-2214

### Utility Profile and Water Conservation Plan Requirements for Municipal Water Use by Retail Public Water Suppliers

This form is provided to assist retail public water suppliers in water conservation plan development. If you need assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

*Water users can find best management practices (BMPs) at the Texas Water Development Board's website <http://www.twdb.texas.gov/conservation/BMPs/index.asp>. The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.*

#### Contact Information

Name of Water Supplier: City of Houston

Address: 611 Walker St, Houston, TX 77002

Telephone Number: (832) 395-2198 Fax: (832) 395-2704

Water Right No.(s): 4261, 4277, 4963, 4965, 5807, 5808, 5827, 2925, 5762, 5826

Regional Water Planning Group: Region H Water Planning Group

Water Conservation Division Manager: Paula Paciorek Phone: (832) 395-2198

Form Completed by: Trace Neighbors; Mitchell Ramon, P.E.

Title: Customer Representative; Water Planning Engineer

Signature:  Date: 06/10/2019

**A water conservation plan for municipal use by retail public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.2). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.**

## Utility Profile

### I. POPULATION AND CUSTOMER DATA

#### A. Population and Service Area Data

1. Attach a copy of your service-area map and, if applicable, a copy of your Certificate of Convenience and Necessity (CCN).

CCIN #: 9914

2. Service area size (in square miles): 635  
(Please attach a copy of service-area map): Attached
3. Current population of service area: 2,328,419 (Source: City of Houston's Planning and Development, available at <https://www.houstontx.gov/planning/Demographics/>)
4. Current population served for: (City of Houston's Planning and Development, available at <https://www.houstontx.gov/planning/Demographics/>)
  - a. Water 2,328,419
  - b. Wastewater 2,328,419

5. Population served for previous five years: (Source: City of Houston Planning and Development <https://www.houstontx.gov/planning/Demo/graphics/>)

<u>Year</u>	<u>Population</u>
<u>2014</u>	<u>2,233,310</u>
<u>2015</u>	<u>2,284,887</u>
<u>2016</u>	<u>2,319,603</u>
<u>2017</u>	<u>2,319,603</u>
<u>2018</u>	<u>2,328,419</u>

6. Projected population for service area in the following decades: (Source: Texas Water Development Board)

<u>Year</u>	<u>Population</u>
<u>2020</u>	<u>2,276,784</u>
<u>2030</u>	<u>2,485,827</u>
<u>2040</u>	<u>2,686,721</u>
<u>2050</u>	<u>2,886,800</u>
<u>2060</u>	<u>3,090,486</u>

7. List source or method for the calculation of current and projected population size.
  - 1) **Historical and projected population by City of Houston's Planning and Development**
  - 2) **Future water demand projections developed by TWDB, HGSD and City of Houston Water Planning**
  - 3) **Service Area of 635 sq. mi includes retail service area.**

*B. Customer Data*

Senate Bill 181 requires that uniform consistent methodologies for calculating water use and conservation be developed and available to retail water providers and certain other water use sectors as a guide for preparation of water use reports, water conservation plans, and reports on water conservation efforts. A water system must provide the most detailed level of customer and water use data available to it, however, any new billing system purchased must be capable of reporting data for each of the sectors listed below. More guidance can be found at: <http://www.twdb.texas.gov/conservation/doc/SB181Guidance.pdf>

1. Quantified 5-year and 10-year goals for water savings:

	<i>Historic 5-year Average</i>	<i>Baseline</i>	<i>5-year goal for year</i>	<i>10-year goal for year</i>
Total GPCD	129	129	127	125
Residential GPCD	62	62	61	60
Water Loss GPCD	24	24	23	22
Water Loss Percentage	19	19	18	17

**Notes:**

Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365

Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365

Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365

Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

2. Current number of active connections. Check whether multi-family service is counted as  Residential or  Commercial?

<i>Treated Water Users</i>	<i>Metered</i>	<i>Non-Metered</i>	<i>Totals</i>
Residential	430,987	-	430,987
Single-Family	415,228	-	415,228
Multi-Family	15,759	-	15,759
Commercial	47,701	-	47,701
Industrial/Mining	187	-	187
Institutional	-	-	-
Agriculture	-	-	-
Other/Wholesale	-	-	-

3. List the number of new connections per year for most recent three years.

\*Note: An error in the billing system in 2016 caused some discrepancies in the categorization of commercial, institutional and industrial accounts. Institutional accounts were omitted in this report due to data inconsistency.

\*\* Houston Water currently has 274 wholesale contract agreements. This number of contracts have remained the same since 2014.

Year	2016* (from 2015 to 2016)	2017 (from 2016 to 2017)	2018 (from 2017 to 2018)
<i>Treated Water Users</i>			
Residential	36,087	-8,530	4,347
Single-Family	33,097	-8,312	4,162
Multi-Family	2,990	-218	185
Commercial	-42,784	2,921	664
Industrial/Mining	-42	172	15
Institutional	0	0	0
Agriculture	0	0	0
Other/Wholesale**	0	0	0

4. List of annual water use for the five highest volume customers (last 5 years' average):

Customer	Use (1,000 gal/year)	Treated or Raw Water
City of Houston Wastewater - 1890 Kress St	681,920	Treated
Confidential - 1	453,310	Treated
Confidential - 2	325,386	Treated
University of Houston	275,734	Treated
United States Gypsum Co.	214,939	Treated

## II. WATER USE DATA FOR SERVICE AREA

### A. Water Accounting Data

1. List the amount of water use for the previous five years (in 1,000 gallons).

Indicate whether this is  diverted or  treated water.

<i>Year</i>	2014	2015	2016*	2017	2018
<i>Month</i>					
January	6,384,248	6,152,514	6,154,061	6,787,637	7,181,762
February	6,405,740	6,176,083	6,406,536	7,137,690	6,858,263
March	5,864,544	5,836,838	5,777,958	6,065,019	6,403,776
April	5,695,772	5,580,955	6,197,963	6,088,985	6,768,964
May	6,176,084	6,205,972	6,830,401	6,975,357	6,927,428
June	6,957,966	6,067,018	5,623,181	7,033,853	6,723,555
July	7,050,874	6,414,634	6,835,696	7,728,853	9,713,421
August	7,403,373	7,479,539	6,821,868	7,728,454	7,839,242
September	7,475,643	8,273,679	7,315,045	7,800,676	8,086,622
October	7,435,885	8,049,942	8,386,883	7,066,378	8,697,410
November	7,019,672	7,336,608	7,872,134	9,960,272	6,760,347
December	6,708,126	6,551,241	7,033,253	7,583,578	7,361,018
<b>Totals</b>	<b>80,577,963</b>	<b>80,124,978</b>	<b>81,254,979</b>	<b>87,956,752</b>	<b>89,321,808</b>

- Describe how the above figures were determined (e.g. from a master meter located at the point of a diversion from the source or located at a point where raw water enters the treatment plant, or from water sales).

Water use data for service area obtained from water sales.

\*Note: A change in the billing system in 2016 caused some discrepancies in the data.

3. Amount of water (in 1,000 gallons) delivered/sold as recorded by the following account types for the past five years.

\*Treated water only.

<i>Year</i>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<i>Account Types</i>					
Residential	49,669,922	49,632,952	50,578,985	52,398,140	55,749,599
Single-Family	24,257,032	24,077,579	25,043,534	25,504,557	25,981,331
Multi-Family	25,412,890	25,555,373	25,535,451	26,893,583	29,768,268
Commercial	30,676,271	30,477,345	31,292,662	28,815,864	33,325,846
Industrial	648,414	633,486	636,655	616,445	644,828
Institutional	-	-	-	-	-
Agriculture	-	-	-	-	-
Other/Wholesale*	54,660,821	54,642,127	57,806,391	57,688,560	53,725,548

4. List the previous records for water loss for the past five years (the difference between water diverted or treated and water delivered or sold).

<i>Year</i>	<i>Amount (gallons)</i>	<i>Percent %</i>
2014	21,504,587,897	20.00
2015	21,573,036,492	20.00
2016	18,992,885,144	18.34
2017	20,542,352,727	18.80
2018	19,567,399,391	16.87

**B. Projected Water Demands**

1. If applicable, attach or cite projected water supply demands from the applicable Regional Water Planning Group for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

<b>Retail Projected Demand</b>												
<i>Year</i>	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
Population	2,230,387	2,248,414	2,266,441	2,284,467	2,302,494	2,320,520	2,338,547	2,356,574	2,374,600	2,392,627	2,410,653	
Demand (in 1,000 gallons)	126,808,300	128,275,600	129,783,050	130,925,500	132,071,600	133,250,550	134,495,200	135,750,800	137,002,750	138,254,700	139,510,300	
Demand (MGD)	347	351	356	359	362	365	368	372	375	379	382	

**Source: Projected retail population and demand determined by TWDB, HGAC and City of Houston Water Planning.**

**III. WATER SUPPLY SYSTEM DATA**

A. *Water Supply Sources*

1. List all current water supply sources and the amounts authorized (in acre feet) with each.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
Surface Water	Lake Livingston, Southern Canal, Lake Houston, Lake Conroe, San Jacinto River, Multiple Bayous	1,657,029
Groundwater	Evangeline Aquifer and Chicot Aquifer	167,467
Other	-	-

B. *Treatment and Distribution System (if providing treated water)*

1. Design daily capacity of system (MGD): 905 (Source: **Drinking Water Operations 2018 Inventory**)
2. Storage capacity (MGD): (Source: **Drinking Water Operations 2018 Inventory (elev. & hydro)**)
  - a. Elevated 19.8
  - b. Ground 192.9
3. If surface water, do you recycle filter backwash to the head of the plant?
 

Yes     No    If yes, approximate amount (MGD): 12.26

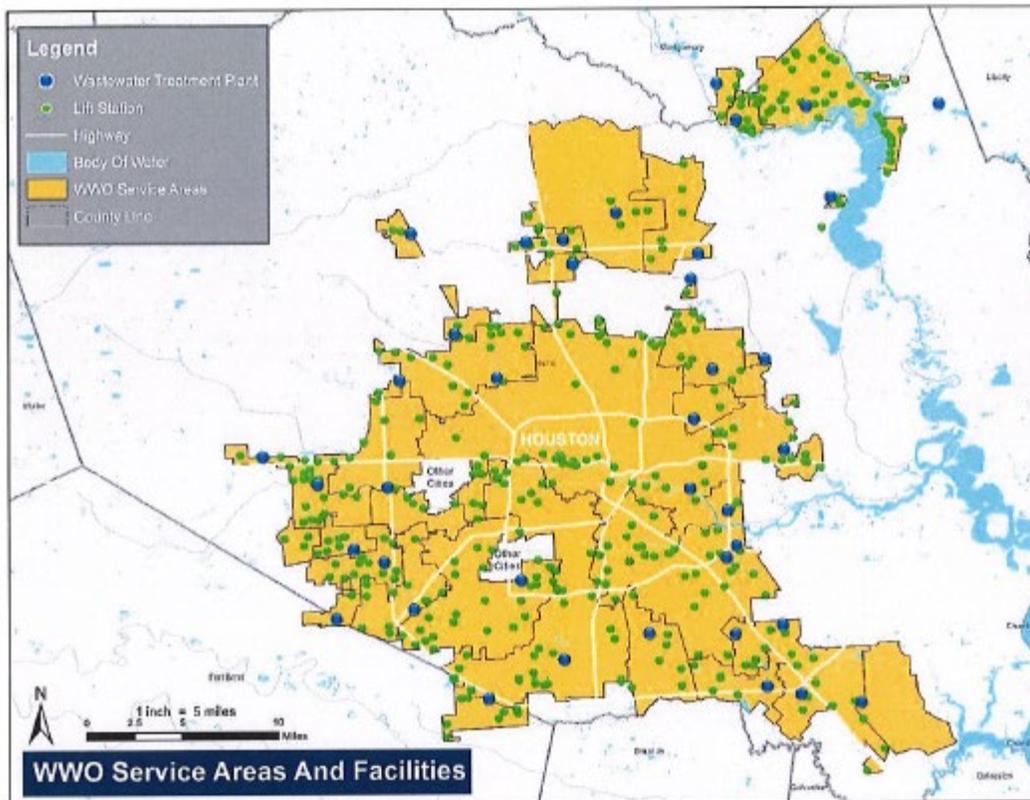
IV. WASTEWATER SYSTEM DATA

A. *Wastewater System Data (if applicable)*

1. Design capacity of wastewater treatment plant(s) (MGD): 563.713
2. Treated effluent is used for  on-site irrigation,  off-site irrigation, for  plant wash-down, and/or for  chlorination/dechlorination.
 

If yes, approximate amount (in gallons per month): 1,764,210,000
3. Briefly describe the wastewater system(s) of the area serviced by the water utility. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.

## Wastewater Operations Service Area and Facilities Map



In areas with City of Houston wastewater service, wastewater is treated in one of 39 wastewater treatment plants using activated sludge processes. Treated effluent is disinfected with chlorination or UV light prior to being discharged to a water body - typically a bayou or ditch. The following facilities are owned and operated by the City of Houston (\*operated by Inframark).

- 69th Street WQ0010495090 Houston Ship Channel/Buffalo Bayou Tidal in 1007
- Almeda Sims WQ0010495003 Sims Bayou Above Tidal in 1007
- Beltway WQ0010495111 HCFCD ditch D124-00-00 in 1007
- \*Cedar Bayou WQ0010495112 HCFCD ditch Q136-00-00 in 0902
- Chocolate Bayou WQ0010495009 Sims Bayou Above Tidal in 1007
- Clinton Park WQ0010495010 Houston Ship Channel/Buffalo Bayou Tidal in 1007
- Easthaven WQ0010495065 Berry Creek in 1007
- \*Forest Cove WQ0010495149 unnamed ditch, thence to HCFCD ditch G-103-45-00 in 1002
- FWSD 23 WQ0010495016 Halls Bayou in 1006

Greenridge WQ0010495110 unnamed drainage ditch, thence to HCFCF ditch C147-00-00 in 1007

Homestead WQ0010495023 Hunting Bayou in 1007

Imperial Valley WQ0010495101 HCFCF ditch P144-01-00 in 1016

Intercontinental Airport WQ0010495078 HCFCF ditch P140-00-00 in 1016

Keegans Bayou WQ0010495119 Keegans Bayou in 1017

\*Kingwood Central WQ0010495146 unnamed ditch, thence to Ben's Branch in 1002

\*Kingwood West WQ0010495142 unnamed ditch, thence to Evans Gully in 1004

Metro Central WQ0010495152 HCFCF ditch, thence to Horsepen Bayou in 1113

MUD 203 WQ0010495133 Greens Bayou Above Tidal in 1016

Northbelt WQ0010495122 HCFCF ditch P133-00-00 in 1016

Northeast WQ0010495077 Greens Bayou Tidal in 1006

Northgate WQ0010495100 Greens Bayou Above Tidal in 1016

Northwest WQ0010495076 Cole Creek in 1017

Park Ten WQ0010495135 HCFCF W487-0C-NW-01 in 1014

Sagemont WQ0010495075 Turkey Creek in 1102

Sims North WQ0010495002/TX0062201 Sims Bayou in 1007

Sims South WQ0010495002/TX0105058 Sims Bayou in 1007

Southeast WQ0010495079 HCFCF ditch A120-00-00 in 1102

Southwest WQ0010495037 Brays Bayou Above Tidal in 1007

Tidwell Timbers WQ0010495148 Greens Bayou Above Tidal in 1016

Turkey Creek WQ0010495109 Buffalo Bayou Above Tidal in 1014

Upper Brays WQ0010495116 Brays Bayou in 1007

WCID 47 WQ0010495050 Berry Bayou in 1007

WCID 76 WQ0010495150 Greens Bayou Above Tidal in 1016

WCID 111 WQ0010495095 Keegans Bayou in 1007

West District WQ0010495030 Buffalo Bayou Above Tidal in 1014

\*West Lake Houston WQ0014650001 South Fork Harmon Bayou in 1002

Westway WQ0010495139 Brickhouse Gully in 1017

White Oak WQ0010495099 Whiteoak Bayou Above Tidal in 1017

*B. Wastewater Data for Service Area (if applicable)*

1. Percent of water service area served by wastewater system: 100%
2. Monthly volume treated for previous five years (in 1,000 gallons):

<i>Year</i>	2014	2015	2016	2017	2018
<i>Month</i>					
January	5,717,516	8,130,587	7,594,049	9,130,120	7,787,510
February	6,047,860	5,729,080	6,298,742	7,351,400	8,587,740
March	7,199,564	8,870,061	7,808,680	8,556,310	7,688,310
April	6,081,570	8,909,160	8,734,200	6,454,200	7,076,790
May	8,237,196	10,853,503	9,233,629	6,897,500	7,185,676
June	6,663,240	8,806,440	9,779,635	7,583,700	7,376,010
July	6,946,232	7,247,304	7,299,474	6,850,070	7,965,698
August	6,888,758	7,127,520	10,018,890	10,351,210	6,818,047
September	7,614,720	6,918,240	8,112,000	7,747,500	8,874,510
October	6,723,404	8,221,039	6,663,450	7,048,160	8,696,895
November	6,512,130	7,599,585	6,264,600	6,581,700	7,678,470
December	7,830,972	7,825,899	7,110,160	7,484,640	9,298,140
<b>Totals</b>	<b>82,463,162</b>	<b>96,238,418</b>	<b>94,917,509</b>	<b>92,036,510</b>	<b>95,033,796</b>

## Water Conservation Plan

In addition to the utility profile, please attach the following as required by Title 30, Texas Administrative Code, §288.2. Note: If the water conservation plan does not provide information for each requirement, an explanation must be included as to why the requirement is not applicable.

### A. *Record Management System*

The water conservation plan must include a record management system which allows for the classification of water sales and uses in to the most detailed level of water use data currently available to it, including if possible, the following sectors: residential (single and multi-family), commercial.

### B. *Specific, Quantified 5 & 10-Year Targets*

The water conservation plan must include specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use in gallons per capita per day. Note that the goals established by a public water supplier under this subparagraph are not enforceable. These goals must be updated during the five-year review and submittal.

### C. *Measuring and Accounting for Diversions*

The water conservation plan must include a statement about the water suppliers metering device(s), within an accuracy of plus or minus 5.0% in order to measure and account for the amount of water diverted from the source of supply.

### D. *Universal Metering*

The water conservation plan must include and a program for universal metering of both customer and public uses of water, for meter testing and repair, and for periodic meter replacement.

### E. *Measures to Determine and Control Water Loss*

The water conservation plan must include measures to determine and control water loss (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections; abandoned services; etc.).

### F. *Continuing Public Education & Information*

The water conservation plan must include a description of the program of continuing public education and information regarding water conservation by the water supplier.

### G. *Non-Promotional Water Rate Structure*

The water supplier must have a water rate structure which is not "promotional," i.e., a rate structure which is cost-based and which does not encourage the excessive use of water. This rate structure must be listed in the water conservation plan.

### H. *Reservoir Systems Operations Plan*

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin in order to optimize available water supplies.

*I. Enforcement Procedure and Plan Adoption*

The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

*J. Coordination with the Regional Water Planning Group(s)*

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the public water supplier in order to ensure consistency with the appropriate approved regional water plans.

*K. Plan Review and Update*

A public water supplier for municipal use shall review and update its water conservation plan, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated information. The public water supplier for municipal use shall review and update the next revision of its water conservation plan not later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

**VI. ADDITIONAL REQUIREMENTS FOR LARGE SUPPLIERS**

Required of suppliers serving population of 5,000 or more or a projected population of 5,000 or more within the next ten years:

*A. Leak Detection and Repair*

The plan must include a description of the program of leak detection, repair, and water loss accounting for the water transmission, delivery, and distribution system in order to control unaccounted for uses of water.

*B. Contract Requirements*

A requirement in every wholesale water supply contract entered into or renewed after official adoption of the plan (by either ordinance, resolution, or tariff), and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements in this chapter. If the customer intends to resell the water, the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.

**VII. ADDITIONAL CONSERVATION STRATEGIES**

Any combination of the following strategies shall be selected by the water supplier, in addition to the minimum requirements of 30 TAC §288.2(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. Conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;
2. Adoption of ordinances, plumbing codes, and/or rules requiring water conserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition;
3. A program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;
4. A program for reuse and/or recycling of wastewater and/or graywater;
5. A program for pressure control and/or reduction in the distribution system and/or for customer connections;
6. A program and/or ordinance(s) for landscape water management;
7. A method for monitoring the effectiveness and efficiency of the water conservation plan; and
8. Any other water conservation practice, method, or technique which the water supplier shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

#### **VIII. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER**

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:

1. support the applicant's proposed use of water with consideration of the water conservation goals of the water conservation plan;
2. evaluates conservation as an alternative to the proposed appropriation; and
3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.

## **Appendix B**

### **Consumption Awareness Program Dashboard Features**

#### **Features of Usage Calculator:**

- USAGE SUMMARY - provides you with a dashboard of information about your water usage including reading status, actual usage, project usage for next bill, and usage comparison information.
  
- MONTHLY USAGE HISTORY - provides you with a chart and table of monthly usage and billed history for up to the past 18 months. This information is useful for reviewing your usage and charge trends across seasons as well as from month to month.
  
- DAILY USAGE HISTORY - provides you with up to 90 days of daily usage history useful for comparing usage by day of week or from week to week. The daily usage is also a good tool for quickly identifying when unexpected high usage began.
  
- HOURLY USAGE HISTORY - provides you with hourly usage for any selected day up to the past 90 days. This tool is helpful for associating usage to specific events in your home or business (i.e., irrigation use, bathroom use, appliance use, etc.).
  
- USAGE ALERT HISTORY - provides you with a history of usage alert notifications sent for your account.
  
- USAGE ALERT SETTINGS - provides you with options for custom daily, monthly, and leak threshold alert settings that can be delivered to your mobile phone as a text or app notification, email, or phone call.

## USAGE SUMMARY

CAP Usage Manager

Summary | Monthly | Daily | Hourly | Alerts | Settings

**1 HOURLY METER READING SERVICE**

Service Available	ACTIVE: GOOD COMMUNICATION SERVICE
Service Address	TX 77051
Rate Class	RESIDENTIAL

**2 USAGE ALERTS**

There are 14 usage alerts within the last 30 days.

**3 ACTIVE BILLING CYCLE**

Usage ?	420 GALS
Usage Days	6
Usage Charge	\$ 16.42

**PROJECTED NEXT BILL**

Usage ?	2710 GALS
Charge ?	\$ 23.25

**ACTIVE READINGS**

Start Reading	180000
Active Reading	181030
Active Reading Date	05/12/2013

**4 MONTHLY USAGE HISTORY FOR PERIOD 11/01/2011 to 05/06/2013**

	Usage	Cost
Highest	9000 GALS	\$ 105.15
Average	4000 GALS	\$ 48.09
Lowest	3000 GALS	\$ 23.89
Neighborhood Average ?	4713 GALS	\$ 48.09

**5 METER INFORMATION**

Meter Number	09307748
Meter Make	BADGER
Meter Size	1

**1 HOURLY METER READING SERVICE** provides you with the current status of the hourly meter reading service, the service address of the account, and the rate class assigned to the account. See [Hourly Reading Communication](#) Status for more information on your status, possible reasons, and possible corrective actions.

**2 USAGE ALERTS** provides you with a summary count of the number of usage alert notifications that have been triggered for the account in the past 30 days.

**3 ACTIVE BILLING CYCLE USAGE** reports your actual water usage since your last billed reading (i.e., current billing cycle or usage for your next bill). The information includes the usage in gallons, the days of usage, and the approximate charge for this usage.

Note that the usage includes unbilled usage from the previous cycle and actual usage for the usage days as of the last meter reading. You can view the last meter reading date and time by logging on to your account.

**PROJECTED NEXT BILL** estimates what your bill could be if the current pattern of usage continues. The projection is based on actual usage plus an estimated daily usage over the remaining days in the billing month.

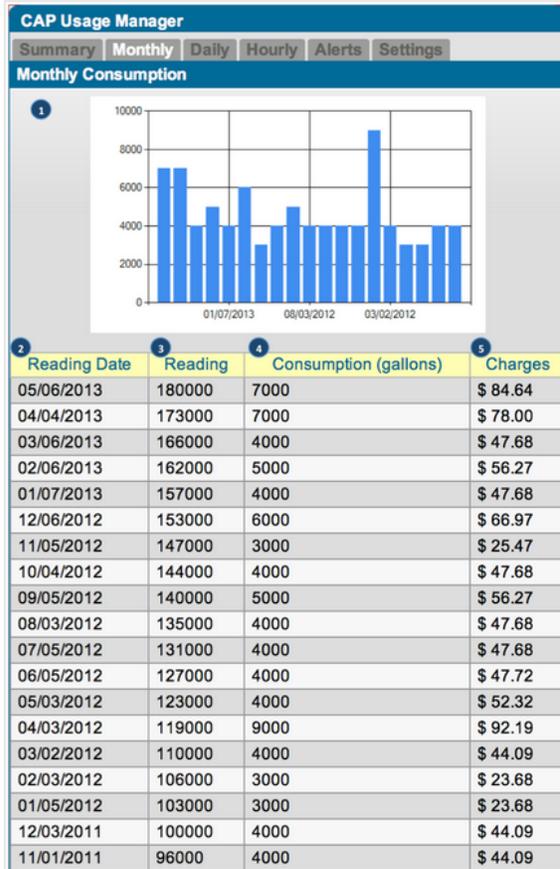
If you have an unexpected high projection, you can take action to avoid this charge if you are early in the cycle. If not, you can still take action to avoid these charges on your future bills.

**4 USAGE HISTORY FOR PERIOD** provides you with a basis for comparing your usage to your past usage history to determine if it is normal or unusually high. Your average usage over the past 18-months shows you what's normal, the highest usage could reflect a month when you had a leak, and the lowest usage could reflect a month when you were away from home.

**Neighborhood Average** provides you with a basis for comparing your usage to homes in your surrounding area. The average is based on active single family residential customers with meter sizes of 1-inch or smaller. The number of homes included in the average is reported below the comparison table.

**5 METER INFORMATION** provides you with useful information that can help when investigating possible meter reading issues.

## MONTHLY USAGE HISTORY



**1 MONTHLY USAGE HISTOGRAM CHART** provides you with graphical representation of the distribution usage by month.

**2 READING DATE** provides you with meter reading date that was used for the corresponding billing period.  
You can click the column heading title to sort the table. Click twice to reverse the order.

**3 READING** provides you with the meter reading (in thousands of gallons) recorded on the specified reading date. Your usage is charged in thousands of gallons and any usage in excess of a factor of one thousand will be charged in the next billing cycle.

You can click the column heading title to sort the table. Click twice to reverse the order.

**4 CONSUMPTION** provides you the billed usage for the corresponding billing month.

You can click the column heading title to sort the table. Click twice to reverse the order.

**5 CHARGES** provides you with the amount that was actually billed for corresponding billing month.

You can click the column heading title to sort the table. Click twice to reverse the order.

## USAGE ALERT SETTINGS

**Calculator**

**Daily**

Turn On  Turn Off

Current Daily Average: 133 Gallons

Alert Threshold: 200 Gallons

**Monthly**

Turn On  Turn Off

Current Monthly Average: 4000 Gallons

Alert Threshold: 4000 Gallons

**Leak Alert (Continuous flow over 24 hours)**

Turn On  Turn Off

**Notification Preference**

Method: Text

Email: somayya\_scott@yahoo

Cell Phone: (713)492-3482

Telephone:

SAVE

**CALCULATOR** provides you with a tool that can be used to determine what your daily and monthly water usage should be based on key factors impacting your household such as: the total number of people in your household, bathroom usage, number of loads typically washed or the frequency for yard watering, etc.

This tool will effectively estimate the expected daily, monthly and annual water consumption for your household and compare it to the average of similar households across the City of Houston.

**DAILY USAGE THRESHOLD SETTING** provides you with tool that monitors your daily water usage.

The Daily Alert feature includes the average daily consumption based on a rolling 12-month period. You can set the alert threshold by entering the consumption amount that you believe is unusually high for a given day. Review your daily consumption history to help determine an effective high consumption threshold.

1. Click the 'Turn On' option to turn on the notification.
2. Review the daily average for the past 12 months.
3. Select a usage alert threshold based on your desired notification needs.
  - Set the threshold at twice your average if you want to be notified of unusually high usage or...
  - Set the threshold to 10 if you have a vacant property where you want to be notified of any use.

**MONTHLY USAGE THRESHOLD SETTING** provides you with a tool that can be used to notify you when your projected month charge exceeds your monthly budget threshold.

The Monthly Alert feature includes the average monthly consumption based on a rolling 12-month period. You can set the alert threshold by entering the consumption amount that you believe is unusually high for a given month. Review your daily consumption history to help determine an effective high consumption threshold.

**LEAK ALERT SETTING** provides you with a tool that detects a continuous flow of water through your meter for 1 to 7 days (depending on meter type). This scenario typically indicates a leak for residential single family accounts but may not be an effective indicator for multi-family or commercial accounts.

**Notification Preference** allows you to choose a preferred method of notification (i.e., text, mobile app, email, or phone).

## **Appendix C**

### **2018 WATER & SEWER RATES**

A copy of the 2018 water and wastewater rates is enclosed. Current rates will be posted on Houston's website at: [www.houstonwater.org](http://www.houstonwater.org)

**2018 WATER & SEWER RATES Effective date April 1, 2018**

The basic service charge for both water and sewer is affected by the water meter size. For all classes that include sewer, the water consumption is used to determine the appropriate sewer consumption charge.

**Single-Family Residential – TU 01, 02, & 03:**

The basic charge for each meter size is listed below. For simplicity, this table adds volume and base charges together for 1,000 to 6,000 gallons. From 7,000 to 12,000 gallons the rate is \$5.32 per 1,000 gallons, regardless of meter size. Starting at 13,000 gallons, the rate is \$8.76 per 1,000 gallons.

<b>Water Rates</b>				
	<b>5/8 or 3/4" meters</b>	<b>1 inch meter</b>	<b>1.5 inch meter</b>	<b>2 or 3 inch meter</b>
<b>Basic charge, per meter size</b>	\$ 5.39	\$ 6.67	\$ 10.11	\$11.91
The numbers below this line include both Base and Volume charges				
<b>1,000 gallons</b>	\$5.54	\$6.82	\$10.26	\$12.05
<b>2,000 gallons</b>	\$12.62	\$13.90	\$17.34	\$19.13
<b>3,000 gallons</b>	\$13.04	\$14.32	\$17.76	\$19.56
<b>4,000 gallons</b>	\$24.67	\$25.95	\$29.39	\$31.18
<b>5,000 gallons</b>	\$29.57	\$30.85	\$34.29	\$36.08
<b>6,000 gallons</b>	\$34.46	\$35.74	\$39.18	\$40.98
<b>7,000 to 12,000 gallons</b>	The total charge for 6,000 gallons + \$5.32 per 1,000 gallons			
<b>Over 12,000 gallons</b>	The total charge for 12,000 gallons + \$8.76 per 1,000 gallons			

<b>Sewer Rates</b>					
	<b>5/8 or 3/4" meters</b>	<b>1 inch meter</b>	<b>1.5 inch meter</b>	<b>2 inch meter</b>	<b>3 inch meter</b>
<b>Basic charge, per meter size</b>	\$11.45	\$12.04	\$13.94	\$14.53	\$26.02
The numbers below this line include both Base and Volume charges					
<b>1,000 gallons</b>	\$11.64	\$12.23	\$14.13	\$14.72	\$26.21
<b>2,000 gallons</b>	\$12.02	\$12.61	\$14.51	\$15.10	\$26.59
<b>3,000 gallons</b>	\$12.32	\$12.91	\$14.81	\$15.40	\$26.89
<b>4,000 gallons</b>	\$28.25	\$28.84	\$30.74	\$31.33	\$42.82
<b>5,000 gallons</b>	\$34.01	\$34.60	\$36.50	\$37.09	\$48.58
<b>6,000 gallons</b>	\$42.39	\$42.98	\$44.88	\$45.47	\$56.96
<b>Over 6,000 gallons</b>	The total charge for 6,000 gallons + \$8.38 per 1,000 gallons				

**EXAMPLES OF RESIDENTIAL BILLINGS:**

<p>1,000 gallons, 5/8" meter Total/Month</p>	<p>\$ 5.54 Water <u>\$ 11.64 Sewer</u> \$ 17.18</p>	<p>Water Charges</p> <hr/> <p>\$34.46 for 6,000 gallons plus 1,000 gallons at \$5.32 = \$39.78</p>	<p>Sewer Charges</p> <hr/> <p>\$42.39 for 6,000 gallons plus 1,000 gallons at \$8.38 = \$50.77</p>
<p>7,000 gallons, 5/8" meter Total/Month</p>	<p>\$ 39.78 Water <u>\$ 50.77 Sewer</u> \$ 90.55</p>	<p>\$34.46 for 6,000 gallons plus 6,000 gallons at \$5.32 plus 2,000 gallons at \$8.76 = \$83.90</p>	<p>\$42.39 for 6,000 gallons plus 8,000 gallons at \$8.38 = \$109.43</p>
<p>14,000 gallons, 5/8" meter Total/Month</p>	<p>\$ 83.90 Water <u>\$109.43 Sewer</u> \$193.33</p>		

**Multi-Family – TU 14-19:**

- 14 (duplex – 2 units)
- 15 (tri-plex – 3 units)
- 16 (quad-plex – 4 units)
- 17 (master-metered townhomes – any number of units)
- 18 (apartments — 5+ units)
- 19 (trailer parks)

Consumption is no longer included with the basic charge. The volume charges are applied to all usage.

Rate	Meter size (Inches)	Basic Water Charge	Basic Sewer Charge
Basic Charge (0 consumption)	5/8	\$5.60	\$9.85
	¾	\$5.77	\$9.85
	1	\$6.94	\$10.34
	1.5	\$10.51	\$12.00
	2	\$12.37	\$12.49
	3	\$32.74	\$22.38
	4	\$44.62	\$25.35
	6	\$76.47	\$36.22
	8	\$199.68	\$87.97
10	\$199.68	\$106.92	
Volume Charge	All	+ \$4.31 per 1,000 gallons	+ \$6.26 per 1,000 gallons

**Commercial – TU 21-60:**

Consumption is no longer included with the basic charge. The volume charges are applied to all usage.

Rate	Meter Size (Inches)	Basic Water Charge	Basic Sewer Charge
Basic Charge (0 consumption)	5/8	\$ 5.60	\$9.85
	3/4	\$ 5.77	\$9.85
	1	\$ 6.94	\$10.34
	1.5	\$ 10.51	\$12.00
	2	\$ 12.37	\$12.49
	3	\$ 32.74	\$22.38
	4	\$ 44.62	\$25.35
	6	\$ 76.47	\$36.22
	8	\$ 199.68	\$87.97
	10	\$ 199.68	\$106.92
Volume Charge	All	+ \$4.42 per 1,000 gallons	+ \$6.26 per 1,000 gallons

**Industrial, No Surcharge – (WSC 6) TU 21-60, 61, 62:**

Industrial rates include a monthly basic charge and volume charges for both water and sewer. No consumption is included with the basic charge for water or sewer. Some customers are billed for sewer only, based on readings from non-City of Houston water meters.

Rate	Meter Size (Inches)	Water Charge	Basic Sewer Charge
Basic Charge (0 consumption)	5/8	\$ 5.60	\$16.65
	3/4	\$ 5.77	\$16.65
	1	\$ 6.94	\$16.65
	1.5	\$ 10.51	\$16.65
	2	\$ 12.37	\$16.65
	3	\$ 32.74	\$22.18
	4	\$ 44.62	\$25.35
	6	\$ 76.47	\$36.22
	8	\$ 199.68	\$87.97
		10+	\$ 199.68
Volume Charge	All	+ \$4.42 per 1,000 gallons	Up to 2,000 gallons at \$3.85 per 1,000 gallons
			All over 2,000 gallons at \$6.85 per 1,000 gallons.

### Transient Meters – TU 71:

These accounts have rental fees, base charges and consumption charges.

Rate	Basic Water Charge		
	1"	2"	3"
Basic Charge/Rental Fee (0 consumption)	\$18.68	\$24.91	\$31.13
Volume Charges	+\$4.96 per 1,000 gallons		

Please refer questions to Krystal Jones at 832-395-6285, or fax to 713-371-1122.

### Lawn/Outdoor Meters – TU 72:

No consumption is included with the basic charge. Volume charges are applied to all usage, but there are two rate tiers. The "defined quantity" marks the point where the tier changes, which is different for each meter size. Volumes up to the defined quantity are charged at the lower rate tier; volumes in excess of the defined quantity are charged at the higher rate tier.

Rate	Meter Size (Inches)	Basic Water Charge	Defined Quantity (First Tier of Volume Charges)
Basic Rate, per meter size, (plus first tier of volume charges)	5/8	\$ 27.87	None – all consumption at 2 <sup>nd</sup> tier
	3/4	\$ 27.87	None – all consumption at 2 <sup>nd</sup> tier
	1	\$ 31.24	None – all consumption at 2 <sup>nd</sup> tier
	1.5	\$ 82.94	Up to 10,000: + \$3.24 per 1,000 gallons
	2	\$ 128.20	Up to 16,000: + \$3.24 per 1,000 gallons
	3	\$ 278.31	Up to 35,000: + \$3.24 per 1,000 gallons
	4	\$ 471.17	Up to 60,000: + \$3.24 per 1,000 gallons
	6	\$ 970.28	Up to 125,000: + \$3.24 per 1,000 gallons
	8	\$ 1403.13	Up to 180,000: + \$3.24 per 1,000 gallons
	10	\$ 1403.13	Up to 180,000: + \$3.24 per 1,000 gallons
<b>Volume Charges Second Tier (All meter sizes)</b>	All consumption over defined quantity: + \$7.46 per 1,000 gallons		

### **EXAMPLES OF LAWN BILLING:**

<u>5/8" Meter w/2,000 gallons</u>	<u>1" Meter w/12,000 gallons</u>	<u>3" meter w 60,000 gallons</u>	<u>6" meter w 60,000 gallons</u>
Basic: \$27.87	Basic: \$31.24	Basic: \$278.31	Basic: \$970.28
2nd tier: 2*7.26 \$14.52	2 <sup>nd</sup> tier: 12*7.46 <u>\$89.52</u>	1 <sup>st</sup> tier: 35*3.24 \$113.40 2 <sup>nd</sup> tier: 25*7.46 \$186.50	1 <sup>st</sup> tier: 60*3.24 \$194.40
TOTAL: \$42.39	TOTAL: \$120.76	TOTAL: \$578.21	TOTAL: \$1164.68

**Other Classes:**

**Industrial w/Surcharge – (WSC 9) TU 21-60, 61, 62, 63:**

Industrial rates include a monthly basic charge and volume charges for both water and sewer. Some customers are billed for sewer only, based on readings from non-City of Houston water meters. These customers take their water from non-City of Houston sources and may choose to install a water meter of the type and standard approved by the department for the purpose of measuring the amount of water taken into such facilities. The water consumption indicated by such meter shall be the basis of determining the sewer charge. Rates are the same as if the water is from City of Houston source.

No consumption is included with the basic charge for water or sewer. While the basic charge for water and sewer is determined by meter size, the volume charge for sewer may vary based on the results of effluent testing.

Rate	Meter Size (Inches)	Water Charge	Basic Sewer Charge
Basic Charge (0 consumption)	5/8	\$ 5.60	\$16.65
	3/4	\$ 5.77	\$16.65
	1	\$ 6.94	\$16.65
	1.5	\$ 10.51	\$16.65
	2	\$ 12.37	\$16.65
	3	\$ 32.74	\$22.18
	4	\$ 44.62	\$25.35
	6	\$ 76.47	\$36.22
	8	\$ 199.68	\$87.97
	10+	\$ 199.68	\$106.92
Volume Charge	All	+ \$4.61 per 1,000 gallons	See below

Additional surcharges for industrial sewer accounts are determined by application of a special formula to the results of effluent tests:

$$R = X + (BOD * 8.337 * Y/1000) + (SS * 8.337 * Z/1000)$$

Or R= Rate / TG as 47-122(b)(2)(b), whichever is greater

Where:

*X = \$4.61 per 1000 gallons, R= 8.337, Y= \$0.7932 / lb., Z = \$0.3131 / lb.*

*BOD = Five-day, 20 degrees Centigrade biochemical oxygen demand content of the waste delivered, in mg/l.*

*SS = Suspended solids content of the waste delivered, in mg/l.*

Any questions on how the surcharges are calculated, or regarding prohibited discharges, should be referred to the Wastewater Operations Branch by calling (832) 395-5779 or by emailing [allison.osborne@houston.tx.gov](mailto:allison.osborne@houston.tx.gov).

**Resale – TU 73:**

These customers purchase water from the City of Houston for resale.

<b>Rate</b>	<b>Meter Size (Inches)</b>	<b>Basic Water Charge</b>
Basic Charge, per meter size (0 consumption)	5/8	\$21.14
	3/4	\$21.14
	1	\$24.51
	1.5	\$60.48
	2	\$92.23
	3	\$199.65
	4	\$336.33
	6	\$689.36
8 and above	\$998.62	
Volume Charge (All meter sizes, all consumption)	\$5.30 per 1,000 gallons	

**Emergency Backup Service — TU 74:**

The Contact Center at 713-371-1400 can answer routine questions about these accounts. To notify UCS of EBS use, fax the report to 832-395-5255.

<b>Rate</b>	<b>Meter Size (Inches)</b>	<b>Basic Water Charge</b>
Basic Charge, per meter size (0 consumption)	5/8,3/4	\$ 8.03
	1	\$ 11.42
	1.5	\$ 16.85
	2	\$ 22.43
	3	\$ 46.98
	4	\$ 74.57
	6	\$ 144.05
	8	\$ 213.39
	10+	\$ 220.89
Volume Charge (All meter sizes, all consumption)	\$8.20 per 1,000 gallons	

### **Un-Metered Fire Line Charge – TU 21-60, 75:**

Un-metered fire lines are charged a flat fee every month, under the provisions of City of Houston Ordinance §47-64. These lines must be equipped with backflow prevention assemblies.

<b><i>Corresponding size of the diameter of service line</i></b>	<b>Monthly Charge for Basic Service</b>
<i>5/8 inch</i>	\$14.66
<i>3/4 inch</i>	\$14.66
<i>1.0 inch</i>	\$14.66
<i>1.5 inch</i>	\$58.39
<i>2.0 inch</i>	\$86.11
<i>3.0 inch</i>	\$86.11
<i>4.0 inch</i>	\$86.11
<i>6.0 inch</i>	\$95.92
<i>8.0 inch</i>	\$163.73
<i>10.0 inch</i>	\$220.88

### **Metered Fire Line Charge Only – TU 21-60:**

These customers have their fire service isolated from the remainder of the water supply, and served through an independent meter. Normally they will have zero consumption, but a consumption charge applies if consumption occurs.

<b>Rate</b>	<b>Meter Size (Inches)</b>	<b>Basic Water Charge</b>
Basic Charge, per meter size (0 consumption)	5/8	\$5.60
	¾	\$5.77
	1	\$6.94
	1.5	\$10.51
	2	\$12.37
	3	\$32.74
	4	\$44.62
	6	\$76.47
	8 and above	\$199.68
Volume Charge (All meter sizes, all consumption)	\$4.42 per 1,000 gallons	

**Un-Metered Sewer Only Customer – TU 81-82:**

Special rates apply to sewer customers without City of Houston water or effluent meters. These are monthly rates, but will continue to be billed on a bi-monthly basis.

Class	Monthly Fee
Single Family Residential	\$28.25
Duplex	\$59.92
Multi-family (3+ units)	\$35.04 per single family unit
Commercial	\$66.13 per unit (defined in §47-1002)
Industrial	\$66.10 per unit (defined in §47-1002)

**Contract, Untreated and Reclaimed Water (TU 91):**

Treated Water (TU 91) – contracted

	R1=	\$3.064	/ TG	R2=	\$3.739	/TG	N=	\$0.760	/ TG	N=	\$0.760	/TG
with airgap water: $p * R1 + (p-m) * N1$ without airgap = $p * R2 + (p - m) * N2$ (p: total water delivery in the month, M: minimum monthly water quantity in contract)												

Untreated Water (TU 91) – no contract

Consumption (/TG)	Per /TG
0 - 10,000	\$1.7544
11,000-20,000	\$1.5764
21,000-50,000	\$1.4867
51,000-150,000	\$1.3970
151,000 & up	\$1.3521

Reclaimed/ Untreated Water (TU 91) – contracted

Surcharge (\$)	Quantity Charge (/TG)
R= \$0.7013 /TG	\$0.7013

If  $(P - M) > 10\% M$ ,  $S = P * R * 5\%$  (M; Max. Qty in contract)

If you have further questions on these accounts, contact Monique Pichon in Contract Water at (832) 395-6304 or Maria Carrillo 832-395-6220.

**Contract Sewer:**

These rates vary, based on whether the contracting district has participated in capital outlays.

If you have further questions on these accounts, contact Monique Pichon in Contract Water at (832) 395-3604 or Maria Carrillo 832-395-6220.

**Agricultural and Rice Farmers (TU 91):**

Agricultural - General

<b>Quantity Charge (/MG)</b>	<b>\$143.11</b>
------------------------------	-----------------

Agricultural - Rice

<b>First Watering (/MG or /Acre)</b>	<b>\$143.11</b>
<b>Additional Watering (/MG or /Acre)</b>	<b>\$26.03</b>

If you have further questions on these accounts, contact Monique Pichon in Contract Water at (832) 395-3604 or Maria Carrillo 832-395-6220.

**Groundwater Reduction Plan (GRP) Participants:**

GRP:  $R * P * Q$  where

- R is the base rate for contract treated water customer receiving water through airgap
- P is the percentage reduction for groundwater production required for GRP participant
- Q is the quantity of groundwater produced by the GRP participant during the month.

<b>R1=</b>	\$3.064	<b>/ TG</b>	<b>R2=</b>	\$3.739	<b>/TG</b>	<b>N=</b>	\$0.760	<b>/ TG</b>	<b>N=</b>	\$0.760	<b>/TG</b>
with airgap water: $p * R1 + (p-m) * N1$ without airgap = $p * R2 + (p - m) * N2$ (p: total water delivery in the month, M: minimum monthly water quantity in contract)											

If you have further questions on these accounts, contact Veronica Osegueda at (832) 395-3080.

*For additional reference, see chart on next page.*

## Fee Schedule

Name	Description	Statutory Authority	Amount	As Of
Water Rates	Untreated Water Sales No Contract Standard Rate for volume from 1,000 to 10,000 gallons, per 1,000 gallons	47-84(d)(1)	\$1.7544	4/1/2018
Water Rates	Untreated Water Sales No Contract Standard Rate for volume from over 10,000 to 20,000 gallons, per 1,000 gallons (in addition to Volume Charge for the first increment of 10,000 gallons)	47-84(d)(2)	\$1.5764	4/1/2018
Water Rates	Untreated Water Sales No Contract Standard Rate for volume from over 21,000 to 50,000 gallons, per 1,000 gallons (in addition to Volume Charges for the first increment of 10,000 gallons and for the second increment of 10,000gallons)	47-84(d)(3)	\$1.4867	4/1/2018
Water Rates	Untreated Water Sales No Contract Standard Rate for volume from over 51,000 to 150,000 gallons, per 1,000 gallons (in addition to Volume Charges for the first increment of 10,000 gallons, the second increment of 10,000 gallons and the third increment of 30,000 gallons)	47-84(d)(4)	\$1.3970	4/1/2018
Water Rates	Untreated Water Sales No Contract Standard Rate for volume over 151,000 gallons, per 1,000 gallons (in addition to Volume Charges for the first 10,000 gallons, the second increment of 10,000 gallons, the third increment of 30,000 gallons and the fourth increment of 100,000 gallons)	47-84(d)(5)	\$1.3521	4/1/2018
Water Rates	Contract Untreated Water sold in excess of contract amount, per 1,000 gallons	47-85	\$0.7013	4/1/2018
Water Rates	Contract Untreated Water for agricultural use, general agriculture, per 1,000 gallons	47-89(b)(1)	\$143.11	4/1/2018
Water Rates	Contract Untreated Water for agricultural use, rice irrigation, rate for first watering, per acre of contracted land (if diverted through a meter on canal / conveyance system - per 1,000 gallons actually used)	47-89(b)(2)a	\$143.11	4/1/2018
Water Rates	Contract Untreated Water for agricultural use, rice irrigation, Rate for each additional watering, per acre of contracted land (if diverted through a meter on canal / conveyance system - per 1,000 gallons actually used)	47-89(b)(2)b	\$26.03	4/1/2018

## **Appendix D**

### **Ordinance Adopting the 2019 Water Conservation Plan**

A sample copy of the Houston City Council ordinance for the adoption of this Plan is enclosed in the next page. The sample copy will be replaced with the signed copy after the adoption of the Plan.

City of Houston, Texas Ordinance No. 2019-901

**AN ORDINANCE AMENDING ORDINANCE NO. 2019-572; APPROVING THE 2019 WATER CONSERVATION PLAN FOR MUNICIPAL USES AND THE 2019 DROUGHT CONTINGENCY PLAN FOR THE CITY OF HOUSTON; PROVIDING FOR SEVERABILITY; MAKING VARIOUS FINDINGS AND PROVISIONS RELATING TO THE SUBJECT MATTER; AND DECLARING AN EMERGENCY.**

\* \* \* \* \*

**WHEREAS**, on June 19, 2019 by Ordinance No. 2019-463, City Council approved the 2019 City of Houston Water Conservation Plan and 2019 City of Houston Drought Contingency Plan, which is a required attachment to the Water Conservation Plan;

**WHEREAS**, the version of the 2019 Water Conservation Plan attached to Ordinance No. 2019-463 was not the final version uploaded to Novus and did not include several paragraphs and appendices;

**WHEREAS**, the version presented to City Council on July 31, 2019 included all material in the Water Conservation Plan approved by City Council on June 19, 2019, plus the following: Utility profile reports required by the State of Texas; Public comments received by the City during the public comment period; and Information on the City's PACE Program, Community Rain Barrel Sale Program, and Native Plants Propagation Program and Sale.

**WHEREAS**, the version presented to City Council on July 31, 2019 made no changes to the 2019 City of Houston Drought Contingency Plan, which was and is attached to the Water Conservation Plan as Appendix F.

**WHEREAS**, Texas Water Code Section 11.1271 requires that each holder of an existing permit, certified filing, or certificate of adjudication for the appropriation of surface water in excess of 1,000 acre-feet per year for municipal, industrial and other purposes must develop, submit and implement a water conservation plan meeting the requirements of the Texas Water

Code as well as the criteria developed by the Texas Commission on Environmental Quality (the "TCEQ"); and

**WHEREAS**, Texas Water Development Board ("TWDB") requires that Houston's Water Conservation Plan include a copy of Houston's Drought Contingency Plan that meets the requirements set forth in TWDB's Water Conservation Plan Guidance Checklist, Form TWDB-1968; and

**WHEREAS**, the City of Houston finds it advantageous to provide identical approval dates for both its water conservation plan and its drought contingency plan; and

**WHEREAS**, the City of Houston intends to comply with the requirements of Texas Water Code, the Texas Administrative Code, the TWDB and the Texas Commission on Environmental Quality ("TCEQ") regarding its Water Conservation Plan and Drought Contingency Plan; and

**WHEREAS**, after reviewing the City of Houston 2019 Drought Contingency Plan, contained under the 2019 Water Conservation Plan Appendix F, the TCEQ requested that the City of Houston add-text to Pages 100, 101 and 103 of the 2019 Water Conservation Plan, referencing required provisions for contract customer to ensure that the Plan is in compliance with Title 30 Texas Administrative Code Chapter 288, changes the City of Houston has made and now brings forward for City Council review and approval of the amended text;

**NOW THEREFORE,**

\* \* \* \* \*

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF HOUSTON, TEXAS:**

Section 1. That the findings contained in the Preamble of this Ordinance are determined to be true and correct and are hereby adopted as part of this Ordinance.

Section 2. The City Council hereby approves the complete 2019 Water Conservation Plan for Municipal Uses, which is attached hereto as Exhibit "A," and incorporated herein by reference.

Section 3. The City Council hereby approves the 2019 Drought Contingency Plan for the City of Houston, which is attached hereto as Exhibit "B", and incorporated herein by reference.

Section 3. This ordinance amends Ordinance No. 2019-572 as specified herein.

Section 4. If any provision, section, subsection, sentence, clause, or phrase of this Ordinance, or the application of same to any person or set of circumstances is for any reason held to be unconstitutional, void or invalid, the validity of the remaining portions of this Ordinance or their application to other persons or sets of circumstances shall not be affected thereby, it being the intent of the City Council in adopting this Ordinance that no portion hereof or provision or regulation contained herein shall become inoperative or fail by reason of any unconstitutionality, voidness or invalidity of any other portion hereof, and all provisions of this Ordinance are declared to be severable for that purpose.

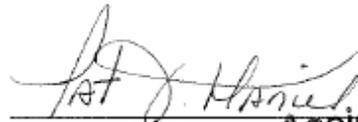
Section 5. There exists a public emergency requiring that this Ordinance be passed finally on the date of its introduction as requested in writing by the Mayor; therefore, this Ordinance shall be passed finally on such date and shall take effect immediately upon its passage and approval by the Mayor; however, in the event that the Mayor fails to sign this Ordinance within five days after its passage and adoption, it shall take effect in accordance with Article VI, Section 6, Houston City Charter.

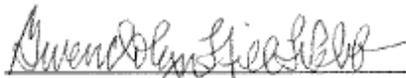
PASSED AND ADOPTED this 20th day of November, 2019.

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Mayor of the City of Houston, Texas

Pursuant to Article VI, Section 6, Houston City Charter, the effective date of the foregoing Ordinance is NOV 26 2019.

  
\_\_\_\_\_  
City Secretary Assistant

Prepared by Legal Dept.   
(GHW/dg 10/28/2019) Senior Assistant City Attorney  
(Requested by Carol Ellinger Haddock, P.E., Director, Houston Public Works)  
(L.D. File No. 0631900178002)

AYE	NO	
✓		MAYOR TURNER
....	....	COUNCIL MEMBERS
✓		STARDIG
✓		DAVIS
✓		COHEN
✓		BOYKINS
✓		MARTIN
✓		LE
✓		TRAVIS
✓		CISNEROS
✓		GALLEGOS
✓		LASTER
✓		MARTHA CASTEX-TATUM
✓		KNOX
✓		ROBINSON
✓		KUBOSH
✓		EDWARDS
✓		CHRISTIE
CAPTION	ADOPTED	

CAPTION PUBLISHED IN DAILY COURT  
REVIEW  
DATE: NOV 26 2019

**Appendix E**  
**Letter to Region H**

A sample copy of the notification letter to the Region H Water Planning Group is enclosed in the next page.



**CITY OF HOUSTON**  
Houston Public Works

**Sylvester Turner**

Mayor

Carol Ellinger Haddock, P.E.  
Director  
P.O. Box 1562  
Houston, Texas 77251-1562

832.395.2500  
[www.publicworks.houstontx.gov](http://www.publicworks.houstontx.gov)

July 28, 2019

Mr. Mark Evans  
Chair, Region H Water Planning Group  
3648 Cypress Creek Parkway #110  
Houston, TX 77068

**Re: 2019 City of Houston Water Conservation Plan**

Dear Mr. Evans,

Enclosed please find a copy of the 2019 City of Houston Water Conservation Plan, which is submitted to the Region H Water Planning Group in accordance with 30 T.A.C. Chapter 288. This plan, which includes the 2019 City of Houston Drought Contingency Plan, is the required 5-year update to the 2014 City of Houston Water Conservation Plan. Additional copies have been provided to the Texas Commission on Environmental Quality and the Texas Water Development Board.

Best regards,

A handwritten signature in blue ink that reads "Sharon Citino".

Sharon Citino  
Planning Director  
Houston Water

Cc: Yvonne Forrest, Deputy Director  
Paula Paciorek, Water Conservation Manager

Council Members: Brenda Stardig Jerry Davis Ellen R. Cohen Dwight A. Boykins Dave Martin Steve Le Greg Travis Karla Cisneros  
Robert Gallegos Mike Lastler Martha Castex-Tatum Mike Knox David W. Robinson Michael Kubosh Amanda K. Edwards Jack Christie

Controller: Chris B. Brown

**Appendix F**  
**2019 Drought Contingency Plan**

The 2019 Drought Contingency Plan is enclosed in the next page.

**DROUGHT CONTINGENCY PLAN  
CITY OF HOUSTON**

**CCN# 99144**

**PWS# 1010013**

**July 2019**

**Section 1 Declaration of Policy, Purpose, and Intent**

The purpose of the Drought Contingency Plan (the “Plan”) is to establish policies and procedures for the City of Houston to follow in case of a water shortage emergency. A water shortage emergency caused by drought or other uncontrollable circumstances that hinder the City of Houston’s ability to meet water demand can range from mild to critical and can disrupt the normal availability of water supplies. Therefore, it is important that the City of Houston establish this procedure so that guidelines exist in the event that a water shortage emergency occurs. The City of Houston Code of Ordinances at Chapter 47, Article VII contains the policy regarding the actions the City of Houston will take in the event of a water shortage or emergency. Definitions of terms used throughout the Plan can be found in Section 47-249 of Article VII.

**Section 2 Public Involvement**

Opportunity for the public to provide input into the preparation of the Plan was provided by:

(check at least one of the following)

- Scheduling and providing public notice of a public meeting to accept input on the Plan
- Mailed survey with summary of results (attach survey and results)
- Bill insert inviting comment (attach bill insert)
- Other method: Not applicable. The Plan has not changed since its adoption by the Houston City Council in 2014.

### **Section 3 Public Education**

The City of Houston will periodically provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage.

Drought plan information will be provided by:  
(check at least one of the following)

- public meeting
- press releases
- utility bill inserts
- The Plan will be available on the City of Houston’s websites.

### **Section 4 Coordination with Regional Water Planning Groups**

The service area of the City of Houston is located within the Region H Water Planning Group. The City of Houston will mail a copy of the Plan to Regional H on June 13, 2019.

## **Section 5 Notice Requirements**

Written notice will be provided to each customer **prior to implementation or termination of each stage of the water restriction program**. Mailed notice will be given to each customer 72 hours prior to the start of water restriction. If notice is hand delivered, the City of Houston understands it cannot enforce the provisions of the Plan for 24 hours after notice is provided. The written notice to customers will contain the following information:

1. the date restrictions will begin;
2. the circumstances that triggered the restrictions;
3. the stages of response and explanation of the restrictions to be implemented; and
4. an explanation of the consequences for violations.

**The City of Houston will notify the TCEQ by telephone at (512) 239-4714, or electronic mail at [watermon@tceq.state.tx.us](mailto:watermon@tceq.state.tx.us) prior to implementing Stage II and will notify in writing the Public Drinking Water Section at MC - 155, P.O. Box 13087, Austin, Texas 78711-3087 within five (5) working days of implementation including a copy of the City's restriction notice. The City of Houston will file a status report of its restriction program with the TCEQ at the initiation and termination of mandatory water use restrictions (i.e., Stages II through IV).**

## **Section 6 Violations**

With the exception of customers with water service contracts, in accordance with Section 54.001 of the Texas Local Government Code, any person who violates any provision of this article shall be guilty of an offense and upon conviction thereof, shall be punished by a fine of not less than \$100.00 nor more than \$2,000.00 for each violation. Each act of city water use in violation of this article shall constitute and be punishable as a separate offense. Each day that any violation continues shall constitute and be punishable as a separate offense. Unless another penalty is specifically provided by this Code or by state law, the penalty for violation of any provision of this article shall be as follows:

(1) **For violations of stage two water shortage**, the department may issue a written warning to a customer for a first-time violation. Any subsequent violations are subject to a fine of \$100.00 to \$2,000.00.

(2) **For violations of stage three water shortage**, the department may issue a written warning to a customer for a first-time violation. Any subsequent violations are subject to a fine of \$500.00 to \$2,000.00. Additionally, the director may monitor the water account of any customer who has been convicted of a violation of [section 47-253](#). Daily monitoring may continue through the end of the existing water shortage period. The director may turn off city water if a customer has violated the authorized water use during a stage three water shortage on three separate instances within a 30-day period. Water service may be reinstated to a customer after a termination only upon a) payment of all applicable fines and any outstanding water service charges; and b) agreeing to the maximum rate in existence, regardless of the customer's billing rate class, for all future water service provided during the 12 months immediately following the termination and filing such agreement in writing with the department.

(3) **Violations of stage four water shortage** are subject to fines of \$1,000.00 to \$2,000.00. Additionally, all customers exceeding the allowed water usage during a stage four water shortage by ten percent or more shall pay a 20 percent surcharge for the current and two subsequent billing periods. The director may also turn off city water if a customer has exceeded the authorized water use during a stage four water shortage on three separate instances within a 30-day period. Water service may be reinstated to a customer after termination only upon a) payment of all applicable fines and any outstanding water service charges; and b) agreeing to the maximum rate in existence, regardless of the customer's billing rate class, for all future water service provided during the 12 months immediately following the termination and filing such agreement in writing with the department.

In the event that a customer with a water service contract engages in the unauthorized use of city water, the city shall have the right to pursue any and all rights and remedies

allowed under existing contracts with customers, and any and all remedies allowed under Texas law.

## **Section 7 Exemptions or Variances**

The utility official may grant in writing a temporary variance for an otherwise prohibited water use if the utility official determines that:

- (1) Failure to grant the variance would cause an emergency condition immediately threatening the life, safety, welfare, or fire protection of the public, the person requesting the variance, or the environment; or
- (2) The applicant cannot comply with the prohibition for technical reasons; or
- (3) The applicant agrees to implement alternative methods that will achieve the same or a greater level of reduction in water use.

An application for a variance shall be made in writing with the utility official and shall include the following:

- (1) Name and address of the applicant;
- (2) Purpose of water use;
- (3) Specific provision(s) of this article from which the applicant is requesting relief;
- (4) A detailed statement as to how the specific provision(s) of this article adversely affects the applicant or what damage or harm will occur to the applicant or others if the applicant complies with this article;
- (5) Description of the relief requested;
- (6) Period of time for which the variance is sought;

(7) Alternative water use restrictions or other measures the applicant is taking or proposes to take to conform to the provisions of this article and the compliance date; and

(8) Other pertinent information reasonably required by the utility official to determine whether the criteria of subsection (a) have been met.

No variance shall be retroactive or otherwise justify any violation of the prohibitions hereunder occurring prior to the issuance of the variance. A variance is valid for only the declared water shortage period in existence at the time of issuance and shall expire at the conclusion of the existing water shortage period. If the conclusion of the existing water shortage period is immediately followed by a newly declared water shortage period, consisting of either more or less threatening conditions, a new application for a variance must be filed in accordance with subsection (b) of this section. Notwithstanding the foregoing, a variance may be applied retroactively if issued to a residential customer who is a member of a family consisting of five or more persons living in a single residential unit served by a single water meter.

## **Section 8 Response Stages**

### **STAGE I – ABNORMAL CONDITIONS (VOLUNATARY):**

**Target: Achieve a FIVE percent reduction in OVERALL water use.**

**Stage I will begin:**

When the director finds that the city's water supply system is under stress because of lower than average annual rainfall, temperatures that are higher or lower than normal, or other circumstances.

Stage I will end:

When the director finds that the abnormal conditions leading to the declaration either no longer exist, have been mitigated, or have been escalated, and the director files a written declaration to that effect with the city secretary.

Utility Measures:

The director's declaration, which may cover all or a portion of the city's water supply system, shall be in writing and filed with the city secretary. City departments' water use reduction plans shall be implemented immediately upon the declaration of a stage one water shortage period and shall remain in effect until the conclusion of the water shortage period.

Voluntary Water Use Restrictions:

Unless otherwise stated in the declaration, all customers are requested to take the following voluntary water use restriction measures:

- (1) Check for and repair all leaks, dripping faucets, and running toilets;
- (2) Check for and correct excessive irrigation or uncorrected leaks that result in city water leaving the customer's property by drainage onto adjacent properties or public or private roadways or streets or gutters; and
- (3) Irrigate between 7:00 p.m. and 5:00 a.m. of the following day on no more than two days per week in conformity with the following schedule:
  - a. Sundays and Thursdays for single-family residential customers with even-numbered street addresses; and

b. Saturdays and Wednesdays for single-family residential customers with odd-numbered street addresses; and

c. Tuesdays and Fridays for all other customers.

## **STAGE II - SEVERE CONDITIONS (MANDATORY):**

**Target: Achieve a TEN percent reduction in OVERALL water use.**

The City of Houston will implement Stage II when, upon the recommendation of the director of the Public Works and Engineering Department, the mayor declares a stage two water shortage upon finding that one or more of the following conditions exist that may impact all or a portion of the city's water supply system:

### **Triggers:**

- (1) Combined total storage of surface water supply is less than 24 months, based on a calculated projection of monthly production of city water that includes historic production and information provided by customers;
- (2) Combined total storage of surface water supply is less than 16 months, based on a calculated projection of current water production for the most recent 24-hour period;
- (3) Current water production is 80 percent of the available treatment capacity;
- (4) Loss of approximately 20 percent of available treatment capacity; or
- (5) Water pressure readings of 45 pounds per square inch or less throughout all or material portions of the city's treated water distribution system.

**Upon initiation and termination of Stage II, the City of Houston will mail a public announcement to its customers. Notice to TCEQ required.**

### **Requirements for Termination:**

A stage two water shortage ends when the mayor declares, based on the recommendation from the director that the severe conditions leading to the declaration either no longer exist, have been mitigated, or have been escalated, and the director files a written declaration to that effect with the city secretary.

Utility Measures:

City departments' water use reduction plans shall be implemented immediately upon the declaration of a stage four water shortage period and shall remain in effect until the conclusion of the water shortage period.

The second water source for City of Houston is: (check one)

- Inter-connection with other system
- Purchased water
- Other: Groundwater

Mandatory Water Use Restrictions:

During a stage two water shortage, unless otherwise stated in the declaration, all classes of customers are subject to mandatory restrictions of outdoor use. During a stage two water shortage, outdoor use shall be unlawful with the exception of the following time periods as specified in the declaration:

- (1) Between 7:00 p.m. and 5:00 a.m. of the following day on no more than two days per week in conformity with the following schedule:
  - a. Sundays and Thursdays for single-family residential customers with even-numbered street addresses; and
  - b. Saturdays and Wednesdays for single-family residential customers with odd-numbered street addresses; and
  - c. Tuesdays and Fridays for all other customers; or

- (2) Between 7:00 p.m. and 5:00 a.m. of the following day on no more than one day per week in conformity with the following schedule:
- a. Saturdays for single-family residential customers with odd-numbered addresses;
  - b. Sundays for single-family residential customers with even-numbered addresses; and
  - c. Tuesdays for all other customers.

Any outdoor water use that results in city water leaving the customer's property by drainage onto adjacent properties or public or private roadways or streets or gutters shall be unlawful.

### **STAGE III – EXTREME CONDITIONS (MANDATORY):**

**Target: Achieve a TWENTY percent reduction in OVERALL water use.**

Triggers:

The water utility will implement Stage III when any one of the selected triggers is reached that may impact all or a portion of the city's water supply system:

- (1) Combined total storage of surface water supply is less than 18 months based on a calculated projection of monthly production of city water that includes historic production and information provided by customers;
- (2) Combined total storage of surface water supply is less than 12 months, based on a calculated projection of current water production for the most recent 24-hour period;
- (3) Current water production is 85 percent of the available treatment capacity;
- (4) Loss of approximately 25 percent of available treatment capacity; or
- (5) Water pressure readings of 40 pounds per square inch or less throughout all or material portions of the city's treated water distribution system.

**Upon initiation and termination of Stage III, the City of Houston will mail a public announcement to its customers. Notice to TCEQ required.**

Requirements for Termination:

A stage three water shortage ends when, upon the recommendations of the director and the mayor, the city council finds that the extreme conditions leading to the declaration either no longer exist, have been mitigated, or have been escalated, and the city council files a written declaration to that effect with the city secretary.

Utility Measures:

City departments' water use reduction plans shall be implemented immediately upon the declaration of a stage four water shortage period and shall remain in effect until the conclusion of the water shortage period. The Director shall apply any necessary curtailments consistently between classes of customers in accordance with Section §11.039 of the Texas Water Code.

Mandatory Water Use Restrictions:

During a stage three water shortage, all outdoor use shall be unlawful except that customers may use city water to continue production and protect inventory of their primary business products.

**STAGE IV – EXCEPTIONAL CONDITIONS (MANDATORY):**

**Target: Achieve a THIRTY FIVE percent reduction in OVERALL water use.**

Triggers:

The water utility will implement Stage IV when any one of the selected triggers is reached that may impact all or a portion of the city's water supply system:

- (1) Combined total storage of surface water supply is less than 12 months, based on a calculated projection of monthly production of city water that includes historic production and information provided by customers;
- (2) Combined total storage of surface water supply is less than six months, based on a calculated projection of current water production for the most recent 24-hour period;
- (3) Current water production is 90 percent of the available treatment capacity;  
or
- (4) Water pressure readings of 35 pounds per square inch or less throughout all or material portions of the city's treated water distribution system.

**Upon initiation and termination of Stage IV, the City of Houston will mail a public announcement to its customers. Notice to TCEQ required.**

Requirements for Termination:

A stage four water shortage ends when, upon the recommendations of the director and the mayor, the city council finds that the exceptional conditions leading to the declaration either no longer exist or have been mitigated, and the city council files a written declaration to that effect with the city secretary.

Operational Measures:

City departments' water use reduction plans shall be implemented immediately upon the declaration of a stage four water shortage period and shall remain in effect until the conclusion of the water shortage period. The Director shall apply any necessary curtailments consistently between classes of customers in

accordance with Section §11.039 of the Texas Water Code.

Mandatory Water Use Restrictions:

During a stage four water shortage, the following acts or omissions shall be unlawful:

- (1) All outdoor use;
- (2) Use of more than 4,000 gallons of city water per month by single-family residential customers;
- (3) Use of more than 4,000 gallons of city water per month (used per unit, as provided in [section 47-71](#) of City of Houston Code of Ordinance) by multifamily residential customers; and
- (4) For all customers other than residential customers, failure to reduce use of city water by 15 percent of baseline usage, or any other percentage if recommended by the director and adopted by city council in the stage four water shortage declaration.

During a stage four water shortage, the director may authorize a ten percent rate reduction for water usage to customers for reductions of city water use by 20 percent or more than those restrictions set forth in subsection (d), except that the ten percent rate reduction shall not be available to customers whose average monthly usage during the preceding 12-month period was less than 4,000 gallons. The rate reduction for water usage shall be effective for the duration of the existing water shortage period.

Immediately upon the declaration of a stage four water shortage, the city may claim force majeure to all of its existing water service contracts consistent with the terms of such water service contracts and in accordance with applicable state law.

## **SYSTEM OUTAGE or SUPPLY CONTAMINATION**

The City of Houston will notify the TCEQ Regional Office as soon as communication can be established.

### **Section 10 Contract Provisions**

The City of Houston will include a provision in every wholesale water contract entered into or renewed after adoption of the plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code §11.039.

## Appendix G

### Public Comments on the 2019 Water Conservation Plan

Organization/ Citizen	Comment	Staff response
1. Citizen (anonymous) via Public Comment Period for the 2019 Water Conservation Plan Survey 5/28/2019 11:18 PM	A combination of marketing & communication and community outreach. Included in this would be a residential rebate program.	Thank you. We are currently evaluating a residential rebate program.
2. Citizen (anonymous) via Public Comment Period for the 2019 Water Conservation Plan Survey 5/23/2019 3:14 PM	Definitely need to consider educational materials in online site	Yes. We will be working on more visibility via a new Houston Public Works website with a Houston Water page that centralizes all the information about water in one place, including water conservation, quality, billing, regulation, drought contingency plan, tips, and more.
3. Citizen (anonymous) via Public Comment Period for the 2019 Water Conservation Plan Survey 5/21/2019 3:11 PM	Take action against consumers who do not fix their broken waterline after 36 hr. I have seen residents with water gushing down the street unrepaired for almost 10 days.	If you see a broken pipe, please notify Houston as soon as possible by calling Houston's Service Center at 3-1-1 or 713-837-0311. You can also report your request online at <a href="http://www.houston311.org">www.houston311.org</a> . Reporting concerns via 3-1-1 is the fastest way to address your issue and track resolutions.
4. Citizen (anonymous) via Public Comment Period for the 2019 Water Conservation Plan Survey 5/21/2019 3:02 PM	Fix the leaks! I see leaks last for weeks	If you see a broken pipe, please notify Houston as soon as possible by calling Houston's Service Center at 3-1-1 or 713-837-0311. You can also report your request online at <a href="http://www.houston311.org">www.houston311.org</a> . Reporting concerns via 3-1-1 is the fastest way to address your issue and track resolutions.
5. Citizen (anonymous) via Public Comment Period for the 2019 Water Conservation Plan Survey 5/21/2019 12:53 PM	Rainwater Harvesting rebates	Thank you. We are currently evaluating a residential rebate program.
6. Citizen (anonymous) via Public Comment Period for the 2019 Water Conservation Plan Survey 5/20/2019 10:55 PM	Reduced shared metered communities	Thank you for your suggestion.
7. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email	We understand that the state-required 2019 WCP has been prepared prior to the completion of the City's cost-of-service (water rate) study underway this year and that as a result of that timing, decisions about a major revamping of the WCP are being postponed until the results of that study are available and follow-up to the study is done. We also note that the City has hired a new Water Conservation Manager who now directs the Water	We appreciate your comments. We are currently evaluating water conservation programs that will best fit Houston and its current and future customers.

	<p>Conservation Division created within Houston Water this year. Therefore, we acknowledge that the City's water conservation program is in flux at this time and that changes are on the horizon. Our comments on the draft 2019 WCP are made in that context, including suggestions that might shape the City's water conservation efforts moving forward and that might be incorporated into a revised plan later.</p>	
<p>8. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>While we feel that there have been some improvements in the 2019 WCP from the previous 2014 Plan, and while we believe that several City of Houston activities and initiatives have the potential to enhance efficient water use and reduce per capita water consumption, we must note that Houston's water conservation efforts pale in comparison to that of many other major Texas cities, including Austin, Dallas, El Paso, and San Antonio. Houston is a great city, and it should be a leader – not a follower – in water efficiency and conservation.</p>	<p>We understand your concerns about Houston's water conservation programs not "matching up" to programs offered by other Texas cities. However, among the cities listed, Houston follows second to San Antonio with the lowest total (and residential) GPCD. Dallas, El Paso, Fort Worth, and even Austin currently have higher water use averages compared to Houston.</p> <p>Houston is currently working on improving its water conservation programs. Our goal is to become a leader in water conservation in the region, joining the efforts of other neighboring cities.</p>
<p>9. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>In the <b>Introduction</b> to the Plan, Houston Water notes the municipal water conservation goals set by the Region H water plan and predicates its water conservation programs on helping the region to meet these goals. We applaud the City for seeking to develop and implement its programs using the Region H water conservation goals because we believe that those goals reflect the Regional Water Planning Group's recommendations for best management practices for water conservation. We encourage Houston Water to consider incorporating all of those best management practices, including reasonable limitations on outdoor landscape water use, into its water conservation program to enhance the chances for meeting the regional goals.</p>	<p>Yes. Houston is evaluating all water management strategies available – not only those recommended by the Region H Water Planning Group, but also new strategies being developed at the national and international level.</p>
<p>10. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>On page 8, in the discussion of the Houston Wastewater System, the draft WCP notes the large "capacity available to treat additional wastewater – and produce additional water for reuse." Water reuse is one way, of course, for achieving greater water efficiency and reducing the demand for new water. <b>Are there any specific plans on the part of the City of Houston to implement additional reuse projects to take advantage of that capacity?</b> If so, the WCP should describe those plans and discuss how they might affect the City's water use.</p>	<p>Houston is currently evaluating future reuse projects (direct and indirect water reuse as well as gray water reuse) and has developed a Houston Water Reuse Task Force to assess water reuse opportunities. No details are currently available to add to the 2019 Water Conservation Plan.</p>
<p>11. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>On page 9, in the discussion of Houston water retail customers, the draft WCP presents a table showing water usage by customer class as of 2018, and single family total annual usage and average MGD is roughly 29% of the total. Some studies done in Texas indicate that outdoor landscape watering is the largest single component of single-family water use. <b>Has the City conducted any study of water use by single family retail customers – or any study of water use by its multi family or commercial-industrial-institutional retail customers – to analyze types or patterns of water use that would allow Houston Water to target its water conservation efforts to get the most "bang for its buck?"</b> If not, we would suggest that the</p>	<p>Yes, we agree. There are lots of opportunities in this area, and Houston Water plans to work closely with other service lines, such as Customer Accounts Services (in charge of the Customer Awareness Program) as well as our GIS team to understand our customer base consumer patterns and determine the best programs for each type of customer. In addition, Houston Water will utilize studies already developed in this area to best inform the implementation of new programs.</p>

	<p><b>City contract for such a study or encourage research by one of Houston’s academic institutions to generate the data that would allow more precise targeting of conservation efforts.</b> San Antonio Water System has been successful in using such targeting to focus conservation efforts on large outdoor water users. It is possible that a preliminary step for Houston in this regard would be to use the data generated by participants in the Consumer Awareness Program to suggest possible targeting.</p>	
<p>12. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>On pages 10-12, the draft WCP discusses the topic of Houston’s <b>gallons per capita per day (GPCD)</b> in terms of total GPCD, residential GPCD, and water loss GPCD – in addition to water loss percentage. We appreciate the candid discussion of the context for the noted reductions in residential GPCD from the previous version of the WCP – namely the higher than average rainfalls during 2014-2018 that played a role in that reduction.</p> <p>We also appreciate the fact that the 2019 WCP uses a much lower baseline GPCD than the 2014 plan and that the City is committing to continued residential water reductions. However, we feel that <b>the target reduction of 1.6% over a five-year period is well below what could be achieved with an aggressive water conservation program aimed at residential water use.</b> Elements of such a program would include an active rebate or retrofit program to replace existing low efficiency toilets, clothes washers, and other water-using equipment with high-efficiency options and to assist low-income residents in repairing leaking pipes. The current efforts to address damages to residential properties from Hurricane Harvey and other flooding may ironically result in more water conserving fixtures in operation by retail residential water <b>customers, which could help lower GPCD. Again, another component of lowering residential GPCD</b> – a cost-effective one – would be reasonable limitations on outdoor water use.</p>	<p>As described on page 10 of the 2019 City of Houston Water Conservation Plan, Houston’s current baselines (5-year historical averages) of 129 for the total GPCD and 62 for the residential GPCD fall into “the efficiency range,” per the 2004 Water Conservation Task Force, which utilizes a target goal of 140 or less for the total GPCD.</p> <p>Therefore, Houston plans to implement the percentage of target reduction proposed in the 2019 Water Conservation Plan. We will revisit this percentage of target reduction during the development of the 2024 Plan.</p>
<p>13. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>The GPCD and related discussion on pages 11-12 also covers the topic of water loss. <b>The draft notes that Houston’s water loss is approximately 19% based on the last five years. The comparable figure in the 2014 WCP for five years previous to that plan’s development was 14%, indicating that the City has lost ground in tackling this persistent issue.</b></p> <p><b>We believe that the 2019 WCP should explain why the City was not able to meet the 2014 WCP’s five-year water loss reduction goal of 11.2%, indeed why the water loss percentage for 2014-2018 was 19% (and was approximately 17% for the year in 2018). One reason this would be important would be to better understand how realistic the 2019 WCP is in trying to reverse this situation and actually achieve a one percent reduction each year (5% over five years), which is a more aggressive scenario than the 2% reduction</b></p>	<p>It is in Houston’s best interest to reduce water loss. Houston is aware that there is room for improvement in this area.</p> <p>The size and age of Houston’s transmission and distribution system make this system one of the most challenging and complex systems in the world.</p> <p>Houston Water has a team of experts in this field that determines Capital Improvement Projects on an annual basis (scheduled projects). Currently, 2% of Houston’s pipeline system is scheduled to be replaced and/or rehabilitated annually. This is 140 miles of pipeline per year - in addition to emergency repairs.</p> <p>Houston Water has created an internal Water Loss Task Force to identify opportunity areas and improve (reduce) water loss percentages over the next years, with the goal of achieving 10% or less water loss.</p>

	<p>over five years that was anticipated in the 2014 WCP.</p> <p><b>We realize and appreciate that on pages 12-15 of the draft 2019 WCP the efforts to address water loss through water main replacement (including the commitment of \$107 million for capital improvement projects in the water distribution system), the Advanced Metering Infrastructure (AMI) network, dedicating staff to assist with data management and analysis, and other means are discussed. Presumably these will help Houston to achieve a reduction in water loss.</b> We think that it would be instructive for the WCP to include some examples of where the deployment of these actions and practices have reduced or eliminated specific water loss incidents.</p> <p>We note that the 1% annual reduction in water loss until reaching a water loss goal of 10% is in keeping with the current Region H water plan. There is a possibility, however, that the revised Region H water plan that will be completed in late 2020/early 2021 will actually set a long-term water loss goal of 5% rather than 10%.</p> <p>Indeed, a water loss of 10% for a municipal water system producing the volume of water that Houston does represents a major issue. We grant that tackling the water loss problem in Houston is and will be a costly enterprise. However, we also note that Houston is spending tens of millions of dollars to develop new water supplies, and perhaps some of those dollars would have been better spent addressing water loss. If these new water supplies come online without the City having made significant fixes to water distribution lines, the full benefits of those new water supplies will be decreased by ongoing water loss.</p>	
<p>14. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>We applaud Houston for initiating its <b>Consumption Awareness Program</b>, and we note the progress in implementing the program. The draft WCP describes in general the next steps for what is termed “the second phase of implementation.” The 2019 Plan would benefit from more detail about the time frame and milestones for these various second phase implementation activities and how they will specifically enhance the City’s water conservation efforts. For example, what amount of dollars are budgeted for developing a web portal for multi-family and non-residential retail customers, what is the time frame for rolling out that web portal, and how will it be promoted to those categories of retail customers? The answers to these questions would provide the information to help evaluate how effective these efforts might potentially be in enhancing water use efficiency.</p> <p>The draft WCP discusses the potential for <b>the AMI network</b> to aid in gathering and disseminating information on retail customer water use but also notes the declining AMI network capacity due to “aging infrastructure and lack of resources.” <b>The draft Plan states that: “As funds become available, Houston intends to replace obsolete AMI network infrastructure with the goal of having between 85-95% of retail meters read by the AMI network.” That is</b></p>	<p>The second phase of the Consumption Awareness Program is currently tied to the strategic replacement of Houston’s 20+ year old AMR system with an AMI network. More than 95% of the existing automated meter reading system will be replaced. Procurement for the AMI is underway as the RFP should be released for prospective vendors to bid within the next 6 -12 months. Currently, the budget for replacement of the system is estimated at \$50M. The implementation will phase in over 10 years and is tentatively scheduled to begin in late 2020. The replacement project will also include funding for establishing interconnectivity with Houston’s current web portal thereby facilitating utilization by all customers (residential multifamily, non-residential etc.). The AMI infrastructure will also provide Houston and its customers with the enhanced ability to monitor near real time water usage, forecast water consumption, and identify leaks earlier. Marketing of the conservation tools will be strategically aligned to coincide with implementation of the AMI system. Marketing will be performed through direct mail, online advertisements, and social media posts from Houston.</p> <p>The proposed 10-year migration program to a new AMI network is a detailed plan that has been discussed with Houston’s executive leadership. The budget is approximately \$50M and is expected to go before City Council in Fiscal Year 2020 for approval.</p>

	<p><b>a laudable goal and intention, but what is the reality?</b> Is there a detailed plan that prioritizes the parts of the infrastructure that need to be replaced, the cost estimate for that replacement, the preferred time frame for implementation? We understand that tackling this project will no doubt require City Council action, including commitment of funds, but is there a replacement plan that would be the basis for initiating that discussion with the City leadership?</p>	<p>Additional details on cost and implementation will be available upon completion of the request for proposal process and approval by City Council.</p>
<p>15. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>We applaud Houston’s use of new plumbing and building codes, which apparently contributed to the gradual reduction in residential GPCD. We also commend specifically Houston’s addition of a section on <b>low impact development (LID)</b> to the City’s Infrastructure Design Manual and the stated commitment to “encourage the use of low impact development practices.” However, we believe that the WCP should include some detail about <b>how</b> – beyond the section in the Manual – the City will be encouraging LID.</p>	<p>Thank you for your suggestion.</p>
<p>16. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>We support the City’s commitment to establishing <b>LEED as the standard for new or replacement city-owned facilities and for major renovation of larger city-owned buildings and facilities</b>, which will directly and indirectly encourage water efficiency. We recommend that the 2019 WCP include some specific examples of the buildings that have been constructed or renovated since adoption of this standard and level of water savings from use of those standards over previous standards. In this and other sections of the WCP, the Plan will be enhanced by examples or metrics that make Houston Water’s water conservation and related efforts more “real” and raise the level of confidence that the Plan is truly something that is being implemented.</p>	<p>We have added a website link to the Plan containing information on past and future LEED projects for Houston’s facilities.</p>
<p>17. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>We are pleased that Houston is seeking to pilot conservation software from a third party to evaluate and quantify how specific conservation and efficiency programs for retail and wholesale customers may advance achievement of Houston’s conservation goals. We believe that there is substantial potential for the comprehensive approach possible through such software to dramatically affect water use and water demands in the region, for which Houston is a large wholesale supplier.</p> <p>We would be interested to know how within the City of Houston itself the new software will interact with the existing Consumer Awareness Program for retail customers so that the City may benefit from the data available from both these initiatives. The data enrichment from these and other sources certainly provide the foundation for better informed policy decisions at Houston Water, but all of this data need to be coordinated and processed in a way that aids both consumers and policy-makers, not just provide data for data’s sake.</p>	<p>Thank you for your comments.</p>
<p>18. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>With regard to the <b>water education and outreach</b> aspects of the Houston 2019 WCP, we recognize the significance of the City’s Water Works Education Center, especially its value in teaching school children about water and the need to conserve. We have heard discussion in</p>	<p>At this point, there is no intention to move the WaterWorks Education Center to a different location. As noted in the Plan, the WaterWorks Education Center has received more than 30,000 visitors in the last 5 years and has proven to be a productive venue, which demonstrates its accessibility to the community.</p>

	<p>past years about moving the Education Center to a more central location in order to make it accessible to a wider and more diverse group of students. We would appreciate any update on that prospect in the 2019 WCP.</p> <p>However, while we appreciate the City's outreach to school children, we believe that a much more active education and outreach effort for adults is advisable as well. Much more progress is needed in making Houston a leader in water conservation in the near term, and that requires helping to shape the attitudes and actions of adult residential customers, decision makers at CII (Commercial-Industrial-Institutional) operations, and wholesale water supply customers.</p> <p>There are a multitude of water conservation public awareness programs available – such as the state's Water IQ program (also used by North Texas Municipal Water District) and San Antonio's water education materials – which could be tapped by Houston Water and used to educate adults on water wise practices and the need for them, especially with regard to outdoor landscape watering. Granted some of these materials may need to be revamped somewhat for an audience for which flooding may be a more relevant concern at present than drought or saving water. Again, however, the long-term best interests of Houston and the region would be well-served by more aggressive promotion of water efficiency and conservation among the residents of the area. Moreover, there are many organizations – such as our own and the Texas Water Foundation – that stand ready to help in this education and outreach effort.</p>	<p>Thank you for your suggestion about the myriad outreach programs available at the state and national levels. We are aware of most of them and are currently assessing potential implementation of additional programs that would target adults from single and multi-family residential households, as well as other programs for commercial, institutional, and industrial accounts.</p>
<p>19. Sierra Club Lone Star Chapter and National Wildlife Federation – 5/30/2019 via email</p>	<p>Concluding Thoughts: Our groups understand the financial, physical, and other challenges that Houston faces in advancing water efficiency and conservation. We believe, however, that the current leadership at Public Works and Houston Water is committed to moving the City forward in this arena. Therefore, we support the adoption of the draft 2019 WCP – with a few tweaks and additional detail – as in effect a “down payment” to be followed by a series of additional measures and enhancements that will lead to a more comprehensive and successful program. We must be candid, however, in saying that a City that helped put a human being on the Moon is way behind the times (and other Texas cities) in its efforts on efficient water use. Houston needs to launch a water conservation initiative befitting of Space City.</p>	<p>Your comments are greatly appreciated and will be considered when developing future water conservation programs.</p>