

# **Amendment # 2 Update to the Houston-Galveston Area Council (H-GAC) Multi-Basin Clean Rivers Program FY 2020/2021 QAPP**

***Prepared by the H-GAC in Cooperation  
with the Texas Commission on  
Environmental Quality (TCEQ)***

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**Effective: Immediately upon approval by all parties**

Questions concerning this QAPP should be directed to:  
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## Justification

This document details the changes made to H-GAC's multi-basin Quality Assurance Project Plan to update Appendix B for fiscal year 2021. This document also updates personnel changes, updates versions of referenced documentation, adds clarifying language about frequency of blank collection, and addresses any other changes made to the quality program since the last amendment.

## Summary of Changes

Section/Figure/Table	Page	Change	Justification
Section A1	2	Replaced Sharon Coleman with Dana Squires as CRP Lead Quality Assurance Specialist  Replace Sarah Eagle, CRP Work Leader with Rebecca DuPont, CRP Work Lead  Removed Quality Assurance Manager Signature block.	Personnel changes at TCEQ       The Quality Assurance Manager is not required by the QMP to sign amendments for projects not funded by EPA.
Section A3	13	Replaced Sharon Coleman with Dana Squires as CRP Lead Quality Assurance Specialist	Personnel changes at TCEQ
Section A4	14	Replaced Peter Bohls with Sarah Kirkland as CRP Data Manager, DM&A Team  Replaced Sharon Coleman with Dana Squires as CRP Lead Quality Assurance Specialist  Replace Sarah Eagle, CRP Work Leader with Rebecca DuPont, CRP Work Lead	Personnel changes at TCEQ
Figure A4.1	21	Replaced Peter Bohls with Sarah Kirkland as CRP Data Manager, DM&A Team  Replaced Sharon Coleman with Dana Squires as CRP Lead Quality Assurance Specialist  Replace Sarah Eagle, CRP Work Leader with Rebecca DuPont, CRP Work Lead	Personnel changes at TCEQ

A8 Special Training / Certification	34	Changed referenced version of TNI Standard from 2009 version to 2016 version.	The 2016 TNI ELS Standard was adopted on June 18, 2018. The implementation date was set as January 31, 2020 by vote of the NELAP Accreditation Council on January 7, 2019.
Section A9	38	Changed referenced version of TNI Standard from 2009 version to 2016 version.	The 2016 TNI ELS Standard was adopted on June 18, 2018. The implementation date was set as January 31, 2020 by vote of the NELAP Accreditation Council on January 7, 2019.
Appendix A		That bacteria spreadsheet for: Table A7-2 HCPCS Table A7-3 HHD Table A7-7 EIH were changed. The entero AWRL was changed to 10*** per the May 2020 SHELL update.	The entire workbook for each local partner is provided but the spreadsheet TAB is colored and the change is highlighted in each workbook.
Appendix B		Updated sample design rationale for FY2021	Describes changes to monitoring design for FY2021 based on the FY2020 Coordinated Monitoring Meetings
Appendix B		Updated Table B1.1	Describes changes to monitoring design for FY2021 based on the FY2020 Coordinated Monitoring Meetings
Appendix C		Updated maps of monitoring stations	Describes changes to monitoring design for FY2021 based on the FY2020 Coordinated Monitoring Meetings
Appendix D& E		Replace field sheet/COC for HHD	HHD updated field sheets/COC to prefill forms with complete and up-to-date information.

## Detail of Changes

### A1 Approval Page

#### Texas Commission on Environmental Quality

#### *Water Quality Planning Division*

Electronically Approved 9/1/2020

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Rebecca DuPont, CRP Work Lead      Date  
Clean Rivers Program

Electronically Approved 9/8/2020

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Kelly Rodibaugh      Date  
Project Quality Assurance Specialist  
Clean Rivers Program

Electronically Approved 9/8/2020

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Kelly Rodibaugh, Project Manager      Date  
Clean Rivers Program

Electronically Approved 9/1/2020

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Cathy Anderson, Team Leader      Date  
Data Management and Analysis

### Monitoring Division

Electronically Approved 9/1/2020

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Dana Squires      Date  
Lead CRP Quality Assurance Specialist  
Laboratory and Quality Assurance Section

***Houston-Galveston Area Council (H-GAC)***

Electronically Approved      9/1/2020  
\_\_\_\_\_  
Todd Running                              Date  
H-GAC Project Manager

Electronically Approved      9/1/2020  
\_\_\_\_\_  
Jean Wright    Date  
H-GAC Quality Assurance Officer

***Harris County Pollution Control Services (HCPCS)***

Electronically Approved 9/2/2020  
\_\_\_\_\_  
Michael Cantu Date  
HCPCS CRP Project Manager

Electronically Approved 9/2/2020  
\_\_\_\_\_  
Bryan Kosler Date  
HCPCS Field Quality Assurance Officer

Electronically Approved 9/2/2020  
\_\_\_\_\_  
Michael Cantu Date  
HCPCS Laboratory Manager

Electronically Approved 9/1/2020  
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Ericka Jackson Date  
HCPCS Quality Assurance Officer

***City of Houston, Houston Health Department (HHD)***

Electronically Approved 9/1/2020

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Daisy James Date  
 CRP Project Manager

Electronically Approved 9/1/2020

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Nguyen Ly Date  
 HHD Field Quality Assurance Officer

Electronically Approved 9/1/2020

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Roger Sealy Date  
 HHD BLS Lab Manager

Electronically Approved 9/1/2020

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Kimyattia Smith Date  
 HHD BLS Lab Quality Assurance Officer

***City of Houston, Drinking Water Operations (DWO)***

Electronically Approved      9/1/2020

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Shubha Thakur      Date  
CRP Project Manager & DWO Laboratory Director

Electronically Approved      9/1/2020

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Harold Longbaugh      Date  
DWO Laboratory Manager

Electronically Approved      9/1/2020

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Narendra Joshi      Date  
DWO Laboratory Quality Assurance Officer

Electronically Approved by S. Thakur for D. Takie      9/2/2020

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Desta Takie      Date  
DWO Field Quality Assurance Officer



**San Jacinto River Authority (SJRA)**

Electronically Approved      9/1/2020

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Shane Simpson    Date  
SJRA CRP Project Manager and  
Field Quality Assurance Officer

***Environmental Institute of Houston, University of Houston –  
Clear Lake (EIH)***

Electronically Approved      9/1/2020  

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Dr. George Guillen                      Date  
EIH CRP Project Manager

Electronically Approved      9/1/2020  

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Jenny Oakley                              Date  
EIH Quality Assurance Officer

***Texas Research Institute for Environmental Studies (TRIES)***

Electronically Approved      9/1/2020

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Dr. Chad Hargrave      Date  
TRIES CRP Project Manager

Electronically Approved      9/3/2020

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Ashley Morgan-Olvera      Date  
TRIES CRP Quality Assurance Officer

Electronically Approved      9/1/2020

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Dr. Rachelle Smith      Date  
TRIES Laboratory Manager & Quality Assurance Officer

***Eastex Environmental Laboratory, Inc. (Coldspring, TX)***

Electronically Approved      9/1/2020

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Natalia Bondar      Date  
Eastex Lab Technical Director

Electronically Approved      9/1/2020

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Tiffany Guerrero      Date  
Eastex Lab Quality Assurance Officer

### **A3 Distribution List**

Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

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**Dana Squires**  
Lead CRP Quality Assurance Specialist  
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Cathy Anderson  
Team Leader, Data Management and Analysis  
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Houston-Galveston Area Council  
3555 Timmons Lane, Suite 120  
Houston, Texas 77027

Todd Running, Project Manager  
(713) 993-4549

Jean Wright, Quality Assurance Officer  
(713) 499-6660

The H-GAC will provide copies of this project plan and any amendments or appendices of this plan to each person on this list and to each sub-tier project participant, e.g., subcontractors, subparticipants, or other units of government. The H-GAC will document distribution of the plan and any amendments and appendices, maintain this documentation as part of the project's quality assurance records, and ensure the documentation is available for review. Sub-Tier participants & Laboratories to receive copies of the QAPP include:

- Harris County Pollution Control Services & Laboratory
- City of Houston, Houston Health Department & Laboratory
- City of Houston, Drinking Water Operations & Laboratory
- Environmental Institute of Houston, University of Houston-Clear Lake
- San Jacinto River Authority
- Texas Research Institute for Environmental Studies & Laboratory
- Eastex Environmental Laboratory

## **A4 Project Task/Organization**

### **Description of Responsibilities**

**TCEQ**

9//2020

**Rebecca DuPont**

#### **CRP Work Lead**

Responsible for Texas Commission on Environmental Quality (TCEQ) activities supporting the development and implementation of the Texas Clean Rivers Program (CRP). Responsible for verifying that the TCEQ Quality Management Plan (QMP) is followed by CRP staff. Supervises TCEQ CRP staff. Reviews and responds to any deficiencies, corrective actions, or findings related to the area of responsibility. Oversees the development of Quality Assurance (QA) guidance for the CRP. Reviews and approves all QA audits, corrective actions, reports, work plans, contracts, QAPPs, and TCEQ Quality Management Plan. Enforces corrective action, as required, where QA protocols are not met. Ensures CRP personnel are fully trained.

**Dana Squires**

#### **Lead CRP Quality Assurance Specialist**

Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Assists program and project manager in developing and implementing quality system. Serves on planning team for CRP special projects. Coordinates the approval of CRP QAPPs. Prepares and distributes annual audit plans. Conducts monitoring systems audits of Planning Agencies. Conveys QA problems to appropriate management. Recommends that work be stopped in order to safeguard programmatic objectives, worker safety, public health, or environmental protection. Ensures maintenance of QAPP records and audit records for the CRP.

**Kelly Rodibaugh**

#### **CRP Project Manager**

Responsible for the development, implementation, and maintenance of CRP contracts. Tracks, reviews, and approves deliverables. Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Assists CRP Lead QA Specialist in conducting Basin Planning Agency audits. Verifies QAPPs are being followed by contractors and that projects are producing data of known quality. Coordinates project planning with the Basin Planning Agency Project Manager. Reviews and approves data and reports produced by contractors. Notifies QA Specialists of circumstances which may adversely affect the quality of data derived from the collection and analysis of samples. Develops, enforces, and monitors corrective action measures to ensure contractors meet deadlines and scheduled commitments.

**Cathy Anderson**

#### **Team Leader, Data Management and Analysis (DM&A) Team**

Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Ensures DM&A staff perform data management-related tasks.

**Sarah Kirkland**

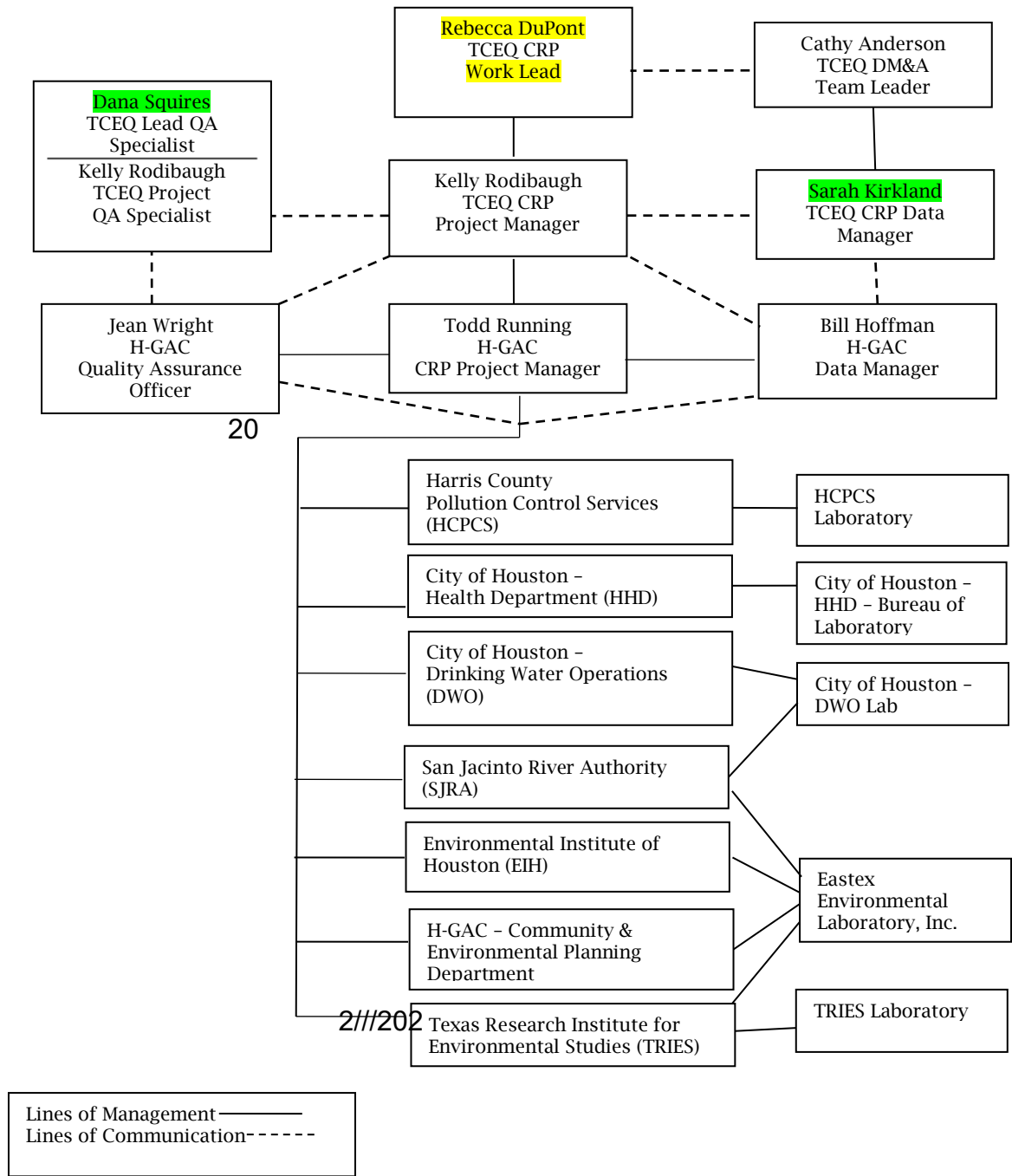
#### **CRP Data Manager, DM&A Team**

Responsible for coordination and tracking of CRP data sets from initial submittal through CRP Project Manager review and approval. Ensures that data are reported following instructions in the Data Management Reference Guide, December 2018 or most current version (DMRG). Runs automated data validation checks in the Surface Water Quality Management Information System (SWQMIS) and

coordinates data verification and error correction with CRP Project Managers. Generates SWQMIS summary reports to assist CRP Project Managers' data review. Identifies data anomalies and inconsistencies. Provides training and guidance to CRP and Planning Agencies on technical data issues to ensure that data are submitted according to documented procedures. Reviews QAPPs for valid stream monitoring stations. Checks validity of parameter codes, submitting entity code(s), collecting entity code(s), and monitoring type code(s). Develops and maintains data management-related SOPs for CRP data management. Coordinates and processes data correction requests. Participates in the development, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP).

# Project Organization Chart

## Figure A4.1. Organization Chart - Lines of Communication





period (March 15- October 15). Although data may be collected during varying regimes of weather and flow, the data sets will not be biased toward unusual conditions of flow, runoff, or season. The goal for meeting maximum representation of the water body will be tempered by funding availability.

## Comparability

Confidence in the comparability of routine data sets for this project and for water quality assessments is based on the commitment of project staff to use only approved sampling and analysis methods and QA/QC protocols in accordance with quality system requirements as described in this QAPP and in TCEQ guidance. Comparability is also guaranteed by reporting data in standard units, by using accepted rules for rounding figures, and by reporting data in a standard format as specified in the Data Management Plan in Section B10.

## Completeness

The completeness of the data describes how much of the data are available for use compared to the total potential data. Ideally, 100% of the data should be available. However, the possibility of unavailable data due to accidents, insufficient sample volume, broken or lost samples, etc. is to be expected. Therefore, it will be a general goal of the project(s) that 90% data completion is achieved.

## A8 Special Training/Certification

Before new field personnel independently conduct field work, the local partner designated trainer (See table A8.1 below) trains him/her in proper instrument calibration, field sampling techniques, and field analysis procedures. The QA officer (or designee) will document the successful field demonstration. The QA Officer (or designee) will retain documentation of training and the successful field demonstration in the employee’s personnel file (or other designated location) and ensure that the documentation will be available during monitoring systems audits.

Local partners, contractors and subcontractors must ensure that laboratories analyzing samples under this QAPP meet the requirements contained in The NELAC Institute Standard (~~2009~~2016) Volume 1, Module 2, Section 4.5.5 (concerning Subcontracting of Environmental Tests).

**Table A8.1 The Designated Trainer for each Local Partner.**

Local Partner Agency	Designated Trainer
Houston-Galveston Area Council	Jean Wright
Harris County Pollution Control Services	Bryan Kosler
City of Houston – Houston Health Department	Lisa Montemayor
City of Houston – Drinking Water Operations	Desta Takie
San Jacinto River Authority	Jean Wright
Environmental Institute of Houston	Jenny Oakley
Texas Research Institute for Environmental Studies	<del>Kaitlen Gary</del> Ashley Morgan-Olvera

## A9 Documents and Records

The documents and records that describe, specify, report, or certify activities are listed. The list below is limited to documents and records that may be requested for review during a monitoring systems audit.

**Table A9.1a Project Documents and Records – H-GAC**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	H-GAC	>7	Paper & electronic
Field SOPs	H-GAC	>7	Paper & electronic
Laboratory Quality Manuals	Eastex Lab	>7	Paper & electronic
Laboratory SOPs	Eastex Lab	>7	Paper & electronic
QAPP distribution documentation	H-GAC / Eastex Lab	>7	Paper
Field staff training records	H-GAC	>7	Paper
Field equipment calibration/maintenance logs	H-GAC	>7	Paper
Field instrument printouts	H-GAC	>7	Paper & electronic
Field notebooks or data sheets	H-GAC	>7	Paper
Chain of custody records	H-GAC / Eastex Lab	>7	Paper & electronic
Laboratory calibration records	Eastex Lab	>7	Paper
Laboratory instrument printouts	Eastex Lab	>7	Paper
Laboratory data reports/results	Eastex Lab	>7	Electronic
Laboratory equipment maintenance logs	Eastex Lab	>7	Paper
Corrective Action Documentation	H-GAC / Eastex Lab	>7	Paper & electronic

**Table A9.1b Project Documents and Records - HCPCS**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	HCPCS / H-GAC	7	Paper
Field SOPs	HCPCS	7	Paper
Laboratory Quality Manuals	HCPCS Laboratory	7	Paper &/or electronic
Laboratory SOPs	HCPCS Laboratory	7	Paper &/or electronic
QAPP distribution documentation	HCPCS / H-GAC	7	Paper
Field staff training records	HCPCS	7	Paper
Field equipment calibration/maintenance logs	HCPCS	7	Paper
Field instrument printouts	HCPCS	7	Paper &/or electronic
Field notebooks or data sheets	HCPCS	7	Paper
Chain of custody records	HCPCS Laboratory	7	Paper
Laboratory calibration records <del>9/22/2020</del>	HCPCS Laboratory	7	Paper
Laboratory instrument printouts	HCPCS Laboratory	7	Paper
Laboratory data reports/results	HCPCS Laboratory	7	Paper &/or electronic
Laboratory equipment maintenance logs	HCPCS Laboratory	7	Paper
Corrective Action Documentation	HCPCS / HCPCS Laboratory / H-GAC	7	<del>9/2/202</del> Paper

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**Table A9.1c Project Documents and Records – Houston - HHD**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	HHD / H-GAC	≥7	Paper &/or electronic
Field SOPs	HHD	≥7	Paper &/or electronic
Laboratory Quality Manuals	HHD-BLS	≥7	Paper &/or electronic
Laboratory SOPs	HHD-BLS	≥7	Paper &/or electronic
QAPP distribution documentation	HHD / HHD-BLS / H-GAC	≥7	Paper
Field staff training records	HHD	≥7	Paper &/or electronic
Field equipment calibration/maintenance logs	HHD	≥7	Paper
Field instrument printouts	HHD	≥7	Paper &/or electronic
Field notebooks or data sheets	HHD / H-GAC	≥7	Paper
Chain of custody records	HHD / HHD-BLS / H-GAC	≥7	Paper
Laboratory calibration records	HHD-BLS	≥7	Paper &/or electronic
Laboratory instrument printouts	HHD-BLS	≥7	Paper &/or electronic
Laboratory data reports/results	HHD-BLS	≥7	Paper &/or electronic
Laboratory equipment maintenance logs	HHD-BLS	≥7	Paper
Corrective Action Documentation	HHD / HHD-BLS / H-GAC	≥7	Paper &/or electronic

**Table A9.1d Project Documents and Records – Houston - DWO**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	DWO / DWO Lab / H-GAC	≥7	Paper
Field SOPs	DWO	≥7	Paper
Laboratory Quality Manuals	DWO Lab	≥7	Paper &/or electronic
Laboratory SOPs	DWO Lab	≥7	Paper &/or electronic
QAPP distribution documentation	DWO / DWO Lab / H-GAC	≥7	Paper
Field staff training records	DWO	≥7	Paper
Field equipment calibration/maintenance logs	DWO	≥7	Paper
Field instrument printouts	N/A		
Field notebooks or data sheets	DWO / H-GAC	≥7	Paper &/or electronic
Chain of custody records	DWO / H-GAC	≥7	Paper
Laboratory calibration records	DWO Lab	≥7	Paper &/or electronic
Laboratory instrument printouts	DWO Lab	≥7	Paper &/or electronic
Laboratory data reports/results	DWO Lab	≥7	Paper &/or electronic
Laboratory equipment maintenance logs	DWO Lab	≥7	Paper
Corrective Action Documentation	DWO / DWO Lab / H-GAC	≥7	Paper &/or electronic

**Table A9.1e Project Documents and Records – SJRA – Lake Conroe samples only**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	SJRA / DWO Lab / H-GAC	≥7	Paper
Field SOPs	SJRA	≥7	Paper
Laboratory Quality Manuals	DWO Lab	≥7	Paper &/or electronic
Laboratory SOPs	DWO Lab	≥7	Paper &/or electronic
QAPP distribution documentation	SJRA / DWO Lab / H-GAC	≥7	Paper
Field staff training records	SJRA	≥7	Paper
Field equipment calibration/maintenance logs	SJRA	≥7	Paper
Field instrument printouts	SJRA	≥7	Paper
Field notebooks or data sheets	SJRA	≥7	Paper &/or electronic
Data sonde files	SJRA	≥7	Electronic
Chain of custody records	SJRA / DWO Lab / H-GAC	≥7	Paper
Laboratory calibration records	DWO Lab	≥7	Paper &/or electronic
Laboratory instrument printouts	DWO Lab	≥7	Paper &/or electronic
Laboratory data reports/results	DWO Lab	≥7	Paper &/or electronic
Laboratory equipment maintenance logs	DWO Lab	≥7	Paper
Corrective Action Documentation	SJRA / DWO Lab / H-GAC	≥7	Paper &/or electronic

**Table A9.1f Project Documents and Records – SJRA – The Woodlands samples only**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	SJRA / H-GAC	≥7	Paper
Field SOPs	SJRA	≥7	Paper
Laboratory Quality Manuals	Eastex Lab	≥7	Paper &/or electronic
Laboratory SOPs	Eastex Lab	≥7	Paper &/or electronic
QAPP distribution documentation	SJRA / Eastex Lab / H-GAC	≥7	Paper
Field staff training records	SJRA	≥7	Paper
Field equipment calibration/maintenance logs	SJRA	≥7	Paper
Field instrument printouts	SJRA	≥7	Paper &/or electronic
Field notebooks or data sheets	SJRA	≥7	Paper &/or electronic
Chain of custody records	SJRA / Eastex Lab / H-GAC	≥7	Paper
Laboratory calibration records	Eastex Lab	≥7	Paper
Laboratory instrument printouts	Eastex Lab	≥7	Paper
Laboratory data reports/results	Eastex Lab	≥7	Paper
Laboratory equipment maintenance logs	Eastex Lab	≥7	Paper
Corrective Action Documentation	SJRA / Eastex Lab / H-GAC	≥7	Paper &/or electronic

**Table A9.1g Project Documents and Records – EIH**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	EIH / Eastex Lab / H-GAC	7	Paper
Field SOPs	EIH	7	Paper
Laboratory Quality Manuals	Eastex Lab	7	Paper &/or electronic
Laboratory SOPs	Eastex Lab	7	Paper &/or electronic
QAPP distribution documentation	EIH / Eastex Lab / H-GAC	7	Paper
Field staff training records	EIH	7	Paper
Field equipment calibration/maintenance logs	EIH	7	Paper &/or electronic
Field instrument printouts	EIH	7	Paper
Field notebooks or data sheets	EIH	7	Paper &/or electronic
Chain of custody records	EIH / Eastex Lab / H-GAC	7	Paper &/or electronic
Laboratory calibration records	Eastex Lab	7	Paper
Laboratory instrument printouts	Eastex Lab	7	Paper
Laboratory data reports/results	Eastex Lab	7	Electronic
Laboratory equipment maintenance logs	Eastex Lab	7	Paper
Corrective Action Documentation	EIH / Eastex Lab / H-GAC	7	Paper

**Table A9.1h Project Documents and Records - TRIES**

Document/Record	Location	Retention (yrs)	Format
QAPPs, amendments and appendices	TRIES / Eastex Lab / H-GAC	7	Paper &/or electronic
Field SOPs	TRIES	7	Paper &/or electronic
Laboratory Quality Manuals	TRIES Lab / Eastex Lab	7	Paper &/or electronic
Laboratory SOPs	TRIES Lab / Eastex Lab	7	Paper &/or electronic
QAPP distribution documentation	TRIES / TRIES Lab / Eastex Lab / H-GAC	7	Paper
Field staff training records	TRIES	7	Paper
Field equipment calibration/maintenance logs	TRIES	7	Paper
Field instrument printouts	TRIES	7	Paper &/or electronic
Field notebooks or data sheets	TRIES	7	Paper &/or electronic
Chain of custody records	TRIES / TRIES Lab / Eastex Lab / H-GAC	7	Paper &/or electronic
Laboratory calibration records	TRIES Lab / Eastex Lab	7	Paper
Laboratory instrument printouts	TRIES Lab / Eastex Lab	7	Paper
Laboratory data reports/results	TRIES Lab	7	Paper &/or electronic
Laboratory equipment maintenance logs	TRIES Lab / Eastex Lab	7	Paper
Corrective Action Documentation	TRIES / TRIES Lab / Eastex Lab / H-GAC	7	Paper &/or electronic

## **Laboratory Test Reports**

Test/data reports from the laboratory must document the test results clearly and accurately. Routine data reports should be consistent with the TNI Standard (2016), Volume 1, Module 2, Section 5.10 and include the information necessary for the interpretation and validation of data. The requirements for reporting data and the procedures are provided.

Eastex is the contract lab for the analysis of all parameters in samples collected by H-GAC, EIH, and SJRA in the Lake Woodlands watershed. Eastex also analyzes TKN and chlorophyll *a* in samples collected by HCPCS, DWO, HHD, and SJRA. Eastex Lab submits 'data packets' to the H-GAC Data Manager on a monthly basis. Data are reformatted by H-GAC as needed and combined with additional field and lab data during SAS processing and reviewed with the final datasets. For FY 2020-2021, Eastex will submit data in electronic format only. Formal lab reports (hard copy) will be available upon request. Eastex Lab reports include the following information.

Harris County Pollution Control Services (HCPCS)  
A7.2 Tables

TABLE A7.2a Measurement Performance Specifications for Harris County Pollution Control Services (HCPCS)					
Field Parameters					
Parameter	Units	Matrix	Method	Parameter Code	Lab
TEMPERATURE, WATER (DEGREES CENTIGRADE)*	DEG C	water	SM 2550 B and TCEQ SOP V1	00010	Field
TRANSPARENCY, SECCHI DISC (METERS)*	meters	water	TCEQ SOP V1	00078	Field
SPECIFIC CONDUCTANCE, FIELD (US/CM @ 25C)*	us/cm	water	EPA 120.1 and TCEQ SOP, V1	00094	Field
OXYGEN, DISSOLVED (MG/L)*	mg/L	water	SM 4500-O G and TCEQ SOP V1	00300	Field
PH (STANDARD UNITS)*	s.u	water	EPA 150.1 and TCEQ SOP V1	00400	Field
SALINITY - PARTS PER THOUSAND	PPT	water	SM 2520 and TCEQ SOP V1	00480	Field
DAYS SINCE PRECIPITATION EVENT (DAYS)	days	other	TCEQ SOP V1	72053	Field
DEPTH OF BOTTOM OF WATER BODY AT SAMPLE SITE*	meters	water	TCEQ SOP V2	82903	Field
WIND INTENSITY (1=CALM,2=SLIGHT,3=MOD.,4=STRONG)	NU	other	NA	89965	Field
PRESENT WEATHER (1=CLEAR,2=PTCLDY,3=CLDY,4=RAIN,5=OTHER)	NU	other	NA	89966	Field
WATER SURFACE(1=CALM,2=RIPPLE,3=WAVE,4=WHITECAP)	NU	water	NA	89968	Field
TIDE STAGE 1=LOW,2=FALLING,3=SLACK,4=RISING,5=HI	NU	water	NA	89972	Field
WATER ODOR (1=SEWAGE, 2=OILY/CHEMICAL, 3=ROTTEN EGGS, 4=MUSKY, 5=FISHY, 6=NONE, 7=OTHER (WRITE IN COMMENTS))	NU	water	NA	89971	Field
WATER COLOR 1=BRWN 2=RED 3=GRN 4=BLCK 5=CLR 6=OT	NU	water	NA	89969	Field
TURBIDITY, OBSERVED (1=LOW, 2=MEDIUM, 3=HIGH)	NU	water	NA	88842	Field
<p>* Reporting to be consistent with SWQM guidance and based on measurement capability.  ** To be routinely reported when collecting data from perennial pools.</p> <p>References:  United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020  U.S. Code of Federal Regulations (CFR), Title 40: Protection of Environment, Part 136  American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.  TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).  TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>					

<b>Conventional Parameters in Water</b>										
<b>Parameter</b>	<b>Units</b>	<b>Matrix</b>	<b>Method</b>	<b>Parameter Code</b>	<b>TCEQ AWRL</b>	<b>LOQ</b>	<b>LOQ Check Sample %Rec</b>	<b>Precision (RPD)</b>	<b>Bias %Rec. of LCS</b>	<b>Lab</b>
RESIDUE, TOTAL NONFILTRABLE (MG/L)	mg/L	water	SM 2540D	00530	5	4	NA	NA	NA	HCPCS
<b>NITROGEN, AMMONIA, TOTAL (MG/L AS N)</b>	mg/L	water	SM 4500 NH3-D	00610	0.1	0.1	70-130	20	85-115	HCPCS
<b>NITROGEN, KJELDAHL, TOTAL (MG/L AS N)</b>	mg/L	water	EPA 351.2	00625	0.2	0.2	70-130	20	80-120	Eastex
NITRITE PLUS NITRATE, TOTAL ONE LAB DETERMINED VALUE (MG/L AS N)	mg/L	water	SM 4500-NO3 E	00630	0.05	0.04	70-130	20	85-115	HCPCS
<b>PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)</b>	mg/L	water	SM 4500-P E	00665	0.06	0.02	70-130	20	85-115	HCPCS
CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	ug/L	water	EPA 446.0	32211	3	3	NA	20	80-120	Eastex
References: United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020 U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136 American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017. TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415). TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).										

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Harris County Pollution Control Services (HCPCS)  
A7.2 Tables

9/1/2020

TABLE A7.2c Measurement Performance Specifications for Harris County Pollution Control Services (HCPCS)										
Bacteriological Parameters in Water										
Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Log Difference of Duplicates	Bias %Rec. of LCS	Lab
ENTEROCOCCI, ENTEROLERT, IDEXX, (MPN/100 ML)	MPN/100 mL	water	ASTM D-6503	31701	10***	10	NA	0.50*	NA	HCPCS
<p>* This value is not expressed as a relative percent difference. It represents the maximum allowable difference between the logarithm of the result of a sample and the logarithm of the duplicate result. See Section B5.</p> <p>***Enterococcus samples should be diluted 1:10 for all waters.</p> <p>References:            United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020            U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136            American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.            TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).            TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>										

Houston Health Department (HHD)  
A7.3 Tables

TABLE A7.3a Measurement Performance Specifications for City of Houston, Health Department (HHD)					
Field Parameters					
Parameter	Units	Matrix	Method	Parameter Code	Lab
TEMPERATURE, WATER (DEGREES CENTIGRADE)*	DEG C	water	SM 2550 B and TCEQ SOP V1	00010	Field
TRANSPARENCY, SECCHI DISC (METERS)*	meters	water	TCEQ SOP V1	00078	Field
SPECIFIC CONDUCTANCE, FIELD (US/CM @ 25C)*	us/cm	water	EPA 120.1 and TCEQ SOP, V1	00094	Field
OXYGEN, DISSOLVED (MG/L)*	mg/L	water	SM 4500-O G and TCEQ SOP V1	00300	Field
PH (STANDARD UNITS)*	s.u	water	EPA 150.1 and TCEQ SOP V1	00400	Field
SALINITY - PARTS PER THOUSAND	PPT	water	SM 2520 and TCEQ SOP V1	00480	Field
DAYS SINCE PRECIPITATION EVENT (DAYS)	days	other	TCEQ SOP V1	72053	Field
DEPTH OF BOTTOM OF WATER BODY AT SAMPLE SITE*	meters	water	TCEQ SOP V2	82903	Field
MAXIMUM POOL WIDTH AT TIME OF STUDY (METERS)**	meters	other	TCEQ SOP V2	89864	Field
MAXIMUM POOL DEPTH AT TIME OF STUDY(METERS)**	meters	other	TCEQ SOP V2	89865	Field
POOL LENGTH, METERS**	meters	other	TCEQ SOP V2	89869	Field
% POOL COVERAGE IN 500 METER REACH**	%	other	TCEQ SOP V2	89870	Field
WIND INTENSITY (1=CALM,2=SLIGHT,3=MOD.,4=STRONG)	NU	other	NA	89965	Field
PRESENT WEATHER (1=CLEAR,2=PTCLDY,3=CLDY,4=RAIN,5=OTHER)	NU	other	NA	89966	Field
WATER SURFACE(1=CALM,2=RIPPLE,3=WAVE,4=WHITECAP)	NU	water	NA	89968	Field
TIDE STAGE 1=LOW,2=FALLING,3=SLACK,4=RISING,5=HI	NU	water	NA	89972	Field
WATER ODOR (1=SEWAGE, 2=OILY/CHEMICAL, 3=ROTTEN EGGS, 4=MUSKY, 5=FISHY, 6=NONE, 7=OTHER (WRITE IN COMMENTS))	NU	water	NA	89971	Field
WATER COLOR 1=BRWN 2=RED 3=GRN 4=BLCK 5=CLR 6=OT	NU	water	NA	89969	Field
<p>* Reporting to be consistent with SWQM guidance and based on measurement capability.  ** To be routinely reported when collecting data from perennial pools.</p> <p>References:  United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020  U.S. Code of Federal Regulations (CFR), Title 40: Protection of Environment, Part 136  American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.  TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).  TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>					

Houston Health Department (HHD)

A7.3 Tables

<b>TABLE A7.3b Measurement Performance Specifications for City of Houston, Health Department (HHD)</b>					
<b>Flow Parameters</b>					
<b>Parameter</b>	<b>Units</b>	<b>Matrix</b>	<b>Method</b>	<b>Parameter Code</b>	<b>Lab</b>
<b>FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)</b>	cfs	water	TCEQ SOP V1	00061	Field
<b>FLOW SEVERITY:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=Dry</b>	NU	water	TCEQ SOP V1	01351	Field
<b>FLOW MTH 1=GAGE 2=ELEC 3=MECH 4=WEIR/FLU 5=DOPPLER</b>	NU	other	TCEQ SOP V1	89835	Field
<p>References:</p> <p>United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020</p> <p>U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136</p> <p>American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.</p> <p>TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).</p> <p>TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>					

TABLE A7.3c Measurement Performance Specifications for City of Houston, Health Department (HHD)										
Conventional Parameters in Water										
Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Precision (RPD)	Bias %Rec. of LCS	Lab
RESIDUE, TOTAL NONFILTRABLE (MG/L)	mg/L	water	SM 2540D	00530	5	4	NA	NA	NA	HHD-BLS
NITROGEN, AMMONIA, TOTAL (MG/L AS N)	mg/L	water	SM 4500-NH3 H	00610	0.1	0.1	70-130	20	80-120	HHD-BLS
NITRITE NITROGEN, TOTAL (MG/L AS N)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	615	0.05	0.02	70-130	20	80-120	HHD-BLS
NITRATE NITROGEN, TOTAL (MG/L AS N)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00620	0.05	0.02	70-130	20	80-120	HHD-BLS
NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	mg/L	water	EPA 351.2	00625	0.2	0.2	70-130	20	80-120	Eastex
PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	mg/L	water	EPA 365.1	00665	0.06	0.02	70-130	20	80-120	HHD-BLS
CHLORIDE (MG/L AS CL)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00940	5	5	70-130	20	80-120	HHD-BLS
SULFATE (MG/L AS SO4)	mg/L	water	EPA 300.0 Rev. 2.1 (1993)	00945	5	5	70-130	20	80-120	HHD-BLS
<p>References:</p> <p>United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020</p> <p>U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136</p> <p>American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.</p> <p>TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).</p> <p>TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>										

<b>Bacteriological Parameters in Water</b>										
<b>Parameter</b>	<b>Units</b>	<b>Matrix</b>	<b>Method</b>	<b>Parameter Code</b>	<b>TCEQ AWRL</b>	<b>LOQ</b>	<b>LOQ Check Sample %Rec</b>	<b>Log Difference of Duplicates</b>	<b>Bias %Rec. of LCS</b>	<b>Lab</b>
<b>E. COLI, COLILERT, IDEXX METHOD, MPN/100ML</b>	MPN/100 mL	water	IDEXX Colilert 18	31699	1	1	NA	0.50*	NA	HHD-BLS
<b>ENTEROCOCCI, ENTEROLERT, IDEXX, (MPN/100 ML)</b>	MPN/100 mL	water	Enterolert	31701	10***	10	NA	0.50*	NA	HHD-BLS
<b>E.COLI, COLILERT, IDEXX, HOLDING TIME</b>	hours	water	NA	31704	NA	NA	NA	NA	NA	HHD-BLS

\* This value is not expressed as a relative percent difference. It represents the maximum allowable difference between the logarithm of the result of a sample and the logarithm of the duplicate result. See Section B5.

\*\* E.coli samples analyzed by these methods should always be processed as soon as possible and within 8 hours. When transport conditions necessitate delays in delivery longer than 6 hours, the holding time may be extended and samples must be processed as soon as possible and within 30 hours.

\*\*\*Enterococcus samples should be diluted 1:10 for all waters.

References:  
 United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020  
 U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136  
 American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.  
 TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).  
 TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).

Environmental Institute of Houston (EIH)

A7.7 Tables

TABLE A7.7a Measurement Performance Specifications for Environmental Institute of Houston (EIH)					
Field Parameters					
Parameter	Units	Matrix	Method	Parameter Code	Lab
TEMPERATURE, WATER (DEGREES CENTIGRADE)*	DEG C	water	SM 2550 B and TCEQ SOP V1	00010	Field
TRANSPARENCY, SECCHI DISC (METERS)*	meters	water	TCEQ SOP V1	00078	Field
SPECIFIC CONDUCTANCE, FIELD (US/CM @ 25C)*	us/cm	water	EPA 120.1 and TCEQ SOP, V1	00094	Field
OXYGEN, DISSOLVED (MG/L)*	mg/L	water	SM 4500-O G and TCEQ SOP V1	00300	Field
PH (STANDARD UNITS)*	s.u	water	EPA 150.1 and TCEQ SOP V1	00400	Field
SALINITY - PARTS PER THOUSAND	PPT	water	SM 2520 and TCEQ SOP V1	00480	Field
DAYS SINCE PRECIPITATION EVENT (DAYS)	days	other	TCEQ SOP V1	72053	Field
DEPTH OF BOTTOM OF WATER BODY AT SAMPLE SITE*	meters	water	TCEQ SOP V2	82903	Field
MAXIMUM POOL WIDTH AT TIME OF STUDY (METERS)**	meters	other	TCEQ SOP V2	89864	Field
MAXIMUM POOL DEPTH AT TIME OF STUDY(METERS)**	meters	other	TCEQ SOP V2	89865	Field
POOL LENGTH, METERS**	meters	other	TCEQ SOP V2	89869	Field
% POOL COVERAGE IN 500 METER REACH**	%	other	TCEQ SOP V2	89870	Field
WIND INTENSITY (1=CALM,2=SLIGHT,3=MOD.,4=STRONG)	NU	other	NA	89965	Field
PRESENT WEATHER (1=CLEAR,2=PTCLDY,3=CLDY,4=RAIN,5=OTHER)	NU	other	NA	89966	Field
WATER SURFACE(1=CALM,2=RIPPLE,3=WAVE,4=WHITECAP)	NU	water	NA	89968	Field
TIDE STAGE 1=LOW,2=FALLING,3=SLACK,4=RISING,5=HI	NU	water	NA	89972	Field
WATER ODOR (1=SEWAGE, 2=OILY/CHEMICAL, 3=ROTTEN EGGS, 4=MUSKY, 5=FISHY, 6=NONE, 7=OTHER (WRITE IN COMMENTS))	NU	water	NA	89971	Field
WATER COLOR 1=BRWN 2=RED 3=GRN 4=BLCK 5=CLR 6=OT	NU	water	NA	89969	Field
* Reporting to be consistent with SWQM guidance and based on measurement capability.					
** To be routinely reported when collecting data from perennial pools.					
References: United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020 U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136 American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017. TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415). TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).					

<b>TABLE A7.7b Measurement Performance Specifications for Environmental Institute of Houston (EIH)</b>					
<b>Flow Parameters</b>					
<b>Parameter</b>	<b>Units</b>	<b>Matrix</b>	<b>Method</b>	<b>Parameter Code</b>	<b>Lab</b>
<b>FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)</b>	cfs	water	TCEQ SOP V1	00061	Field
<b>FLOW SEVERITY:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=Dry</b>	NU	water	TCEQ SOP V1	01351	Field
<b>FLOW MTH 1=GAGE 2=ELEC 3=MECH 4=WEIR/FLU 5=DOPPLER</b>	NU	other	TCEQ SOP V1	89835	Field
<p>References:</p> <p>United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020</p> <p>U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136</p> <p>American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.</p> <p>TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).</p> <p>TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>					

<b>TABLE A7.7c Measurement Performance Specifications for Environmental Institute of Houston (EIH)</b>										
<b>Conventional Parameters in Water</b>										
<b>Parameter</b>	<b>Units</b>	<b>Matrix</b>	<b>Method</b>	<b>Parameter Code</b>	<b>TCEQ AWRL</b>	<b>LOQ</b>	<b>LOQ Check Sample %Rec</b>	<b>Precision (RPD)</b>	<b>Bias %Rec. of LCS</b>	<b>Lab</b>
RESIDUE, TOTAL NONFILTRABLE (MG/L)	mg/L	water	SM 2540D	00530	5	1	NA	NA	NA	Eastex
<b>NITROGEN, AMMONIA, TOTAL (MG/L AS N)</b>	mg/L	water	SM 4500 NH3G	00610	0.1	0.1	70-130	20	80-120	Eastex
<b>NITRITE NITROGEN, TOTAL (MG/L AS N)</b>	mg/L	water	EPA 300.0	00615	0.05	0.05	70-130	20	80-120	Eastex
<b>NITRATE NITROGEN, TOTAL (MG/L AS N)</b>	mg/L	water	EPA 300.0	00620	0.05	0.05	70-130	20	80-120	Eastex
<b>NITROGEN, KJELDAHL, TOTAL (MG/L AS N)</b>	mg/L	water	EPA 351.2	00625	0.2	0.2	70-130	20	80-120	Eastex
NITRITE PLUS NITRATE, TOTAL ONE LAB DETERMINED VALUE (MG/L AS N)	mg/L	water	SM 4500-NO3 F	00630	0.05	0.02	70-130	20	80-120	Eastex
<b>PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)</b>	mg/L	water	EPA 200.7	00665	0.06	0.06	70-130	20	80-120	Eastex
<b>CHLORIDE (MG/L AS CL)</b>	mg/L	water	EPA 300.0	00940	5	5	70-130	20	80-120	Eastex
<b>SULFATE (MG/L AS SO4)</b>	mg/L	water	EPA 300.0	00945	5	4	70-130	20	80-120	Eastex
CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	ug/L	water	EPA 446.0	32211	3	3	NA	20	80-120	Eastex
References: United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020 U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136 American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017. TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415). TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).										



TABLE A7.7d Measurement Performance Specifications for Environmental Institute of Houston (EIH)										
Bacteriological Parameters in Water										
Parameter	Units	Matrix	Method	Parameter Code	TCEQ AWRL	LOQ	LOQ Check Sample %Rec	Log Difference of Duplicates	Bias %Rec. of LCS	Lab
E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	MPN/100 mL	water	Colilert**	31699	1	1	NA	0.50*	NA	Eastex
ENTEROCOCCI, ENTEROLERT, IDEXX, (MPN/100 ML)	MPN/100 mL	water	Enterolert	31701	10***	10	NA	0.50*	NA	Eastex
E.COLI, COLILERT, IDEXX, HOLDING TIME	hours	water	NA	31704	NA	NA	NA	NA	NA	Eastex
<p>* This value is not expressed as a relative percent difference. It represents the maximum allowable difference between the logarithm of the result of a sample and the logarithm of the duplicate result. See Section B5.</p> <p>** E.coli samples analyzed by these methods should always be processed as soon as possible and within 8 hours. When transport conditions necessitate delays in delivery longer than 6 hours, the holding time may be extended and samples must be processed as soon as possible and within 30 hours.</p> <p>***Enterococcus Samples should be diluted 1:10 for all waters.</p> <p>References:                      United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020                      U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136                      American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017.                      TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415).                      TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).</p>										

Environmental Institute of Houston (EIH)  
A7.7 Tables

<b>TABLE A7.1e Measurement Performance Specifications for Environmental Institute of Houston (EIH)</b>					
<b>24 Hour Parameters in Water</b>					
<b>Parameter</b>	<b>Units</b>	<b>Matrix</b>	<b>Method</b>	<b>Parameter Code</b>	<b>Lab</b>
TEMPERATURE, WATER (DEGREES CENTIGRADE), 24HR AVG	DEG C	Water	TCEQ SOP V1	00209	field
WATER TEMPERATURE, DEGREES CENTIGRADE, 24HR MAX	DEG C	Water	TCEQ SOP V1	00210	field
TEMPERATURE, WATER (DEGREES CENTIGRADE) 24HR MIN	DEG C	Water	TCEQ SOP V1	00211	field
SPECIFIC CONDUCTANCE, US/CM, FIELD, 24HR AVG	uS/cm	Water	TCEQ SOP V1	00212	field
SPECIFIC CONDUCTANCE, US/CM, FIELD, 24HR MAX	uS/cm	Water	TCEQ SOP V1	00213	field
SPECIFIC CONDUCTANCE, US/CM, FIELD, 24HR MIN	uS/cm	Water	TCEQ SOP V1	00214	field
PH, S.U., 24HR MAXIMUM VALUE	std. units	Water	TCEQ SOP V1	00215	field
PH, S.U., 24HR, MINIMUM VALUE	std. units	Water	TCEQ SOP V1	00216	field
<b>SALINITY, 24-HR, MAXIMUM, PPT</b>	<b>ppt</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>00217</b>	<b>field</b>
<b>SALINITY, 24-HR, AVERAGE, PPT</b>	<b>ppt</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>00218</b>	<b>field</b>
<b>SALINITY, 24-HR, MINIMUM, PPT</b>	<b>ppt</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>00219</b>	<b>field</b>
<b>SALINITY, # OF MEASUREMENTS IN 24-HRS</b>	<b>NU</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>00220</b>	<b>field</b>
WATER TEMPERATURE, # OF MEASUREMENTS IN 24-HRS	NU	Water	TCEQ SOP V1	00221	field
SPECIFIC CONDUCTANCE, # OF MEASUREMENTS IN 24-HRS	NU	Water	TCEQ SOP V1	00222	field
pH, # OF MEASUREMENTS IN 24-HRS	NU	Water	TCEQ SOP V1	00223	field
<b>DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA</b>	<b>mg/l</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>89855</b>	<b>field</b>
<b>DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA</b>	<b>mg/l</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>89856</b>	<b>field</b>
<b>DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA</b>	<b>mg/l</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>89857</b>	<b>field</b>
<b>DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS</b>	<b>NU</b>	<b>Water</b>	<b>TCEQ SOP V1</b>	<b>89858</b>	<b>field</b>
References: United States Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes, Manual #EPA-600/4-79-020 U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment, Part 136 American Public Health Association (APHA), American Water Works Association (AWWA), and Water Environment Federation (WEF), Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017. TCEQ SOP, V1 - TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods, 2012 (RG-415). TCEQ SOP, V2 - TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data, 2014 (RG-416).					

## **Appendix B – Sampling Process Design and Monitoring Schedule (plan)**

### **TASK 3: WATER QUALITY MONITORING**

**Objectives:** Water quality monitoring will focus on the characterization of a variety of locations and conditions. This will include a combination of the following:

- planning and coordinating Multi-Basin monitoring;
- routine, regularly-scheduled monitoring to collect long-term information and support statewide assessment of water quality;
- systematic, regularly-scheduled short-term monitoring to screen water bodies for issues.
- permit support monitoring to provide information for setting permit effluent limits; and
- special study, intensive monitoring targeted to:
  - identify sources and causes of pollution;
  - assess priority water quality issues;
  - obtain background water quality information;
  - provide information for setting site-specific permit effluent limits; and
  - evaluate statewide, regional, and site-specific water quality standards.

#### **Task Description:**

The Performing Party will coordinate and develop water quality monitoring strategies through the RMW and present strategies to the CRP Steering Committee for review and concurrence.

To avoid duplication of monitoring efforts, the Performing Party will continue to coordinate monitoring efforts with other area data providers. The Performing Party also will continue to arrange regional training opportunities and workshops which support cooperative monitoring efforts (e.g., field methods, biological data collection, and habitat assessment).

The Performing Party will complete the following subtasks:

**Monitoring Description** — In FY2020, the Performing Party will collect quarterly samples at 20 water quality monitoring sites throughout the H-GAC service area. Sampling efforts will include basic field parameters, flow, conventional chemical parameters, and bacteria. Most sites are located in the upper portions of watersheds or watersheds that fall outside the jurisdiction of local partner agencies.

In addition to the Performing Party's ambient monitoring program, six local agencies are involved in this multi-basin monitoring effort. The Performing Party contracts with several entities to conduct monitoring and coordinated with others as in-kind contributors. The six participating agencies typically monitor a combined total of over 300 monitoring sites in the region. Each of the agencies' monitoring activities will be coordinated through the RMW. The coordination reduces monitoring duplication and allows all local agencies to see the data collection efforts of and data availability from other local agencies. Routine monitoring is scheduled at varying frequencies, which are determined by the parameters of concern for individual streams and/or proximity to a monitoring agency's field office and lab. Frequencies vary from quarterly for some parameters to monthly in highly impacted urban areas. Baseline monitoring will include the collection of field parameters at all sites and the collection of

bacteria, flow, and conventional chemical parameters at sites where indicated. Additional details concerning the monitoring activities conducted by partner agencies are outlined in the Performing Party's Multi-Basin QAPP.

In FY2021, the Performing Party and area partners are expected to monitor at a similar level of effort as in FY2020. The actual number of sites, location, frequency, and parameters collected for FY2021 will be based on priorities identified at the CRP Steering Committee and Coordinated Monitoring meetings and included in the amended Appendix B schedule of the Performing Party's Multi-Basin QAPP.

All monitoring will be completed in accordance with the H-GAC QAPP, the TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415) and the TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data (RG-416). The Performing Party will include summaries of monitoring activities in the corresponding quarterly QPR.

**24-Hour Dissolved Oxygen Monitoring** — There are priority sub-segments with dissolved oxygen impairments or concerns in the Performing Party's monitoring area. More data collection is needed to determine or verify impairment. The Performing Party will conduct 24-hour dissolved oxygen monitoring at a minimum of two stations, four times per year, throughout the two-year contract period. The sites will be determined once budget is approved and site locations are coordinated and prioritized with TCEQ. The Performing Party will also include summaries of monitoring events in the corresponding quarterly QPR.

**Permit Support Monitoring** — During FY2020 and/or FY2021, the Performing Party may conduct monitoring activities to support TCEQ's Water Quality Division by collecting field parameters and discharge measurements at selected waterbodies identified by TCEQ. The sites will be determined once budget is approved and site locations are coordinated and prioritized with TCEQ. The Performing Party will include summaries of any activities in the corresponding quarterly QPR.

**RMW** - The RMW will meet during three of four quarters to discuss monitoring needs, problems, successes and changes. The fourth quarter meeting is conducted as the Coordinated Monitoring Meeting (see below). The RMW is composed of H-GAC CRP staff and representatives from local participating agencies, currently including Harris County Pollution Control, Environmental Institute of Houston, City of Houston-Health Department, City of Houston-Drinking Water Operations, Texas Research Institute for Environmental Studies, and the San Jacinto River Authority as well as H-GAC's contract lab and TCEQ Region 12. Meeting notices will be sent to TCEQ, United States Geological Survey (USGS), Texas Parks and Wildlife, Texas Department of Health, GBEP, local universities, and other interested parties to invite input on monitoring discussions and strategies. Each agency/organization will be asked to send representatives from their field investigation staff and laboratory staff. The RMW will discuss CRP monitoring tasks and deliverables, basin monitoring priorities, training, and upcoming projects. This workgroup is designed to function as the mechanism through which data management needs and priorities are discussed. The Performing Party will include meeting summaries in the corresponding QPR.

RMW meeting results will be presented to the CRP Steering Committee for review and concurrence with various basin interests. This review process will be used to assess the current monitoring plan and adjust regional monitoring strategies as needed.

**Coordinated Monitoring Meeting** — The Performing Party will hold an annual coordinated monitoring meeting as described in the FY2020-2021 CRP Guidance in lieu of the spring RMW meeting. Qualified monitoring organizations will be invited to attend the working meeting in

which monitoring needs and purposes will be discussed segment by segment and station by station. Information from participants and stakeholders will be used to select stations and parameters that will enhance overall water quality monitoring coverage, eliminate duplication of effort, and address basin priorities. A summary of the changes to the monitoring schedule will be provided to the participants within two weeks of the meeting. Changes to the monitoring schedule will be entered into the statewide Coordinated Monitoring Schedule (<http://cms.lcra.org>) and communicated to meeting attendees. Changes to monitoring schedules that occur during the year will be entered into the Coordinated Monitoring Schedule and communicated to meeting attendees.

**QPR** — Each QPR (Task 1) will include all types of monitoring and indicate the number of sampling events and the types of monitoring conducted in the quarter.

**Special Studies** — Status reports of each special study (if conducted) will describe activities during the quarter. The status reports will be submitted along with the QPR. These studies also include draft and final project reports due as deliverables. To help keep the public and basin stakeholders informed, the Performing Party's Web site will be updated in a timely manner to include key elements of Special Studies' Reports or Summaries (e.g., status reports, executive summary, maps, data analysis, final reports).

New Special Studies under consideration for the FY2021 contract biennium include:

**Targeted Monitoring for Bacteria Source Identification in the Bacteria Implementation Group (BIG) Project Area:**

The Performing Party has tracked bacteria levels to develop a list of the most impaired water bodies for bacterial concentrations (i.e. those streams with the highest geometric means relative to the state standards for bacteria). The Performing Party will address ten targeted watersheds (four from highly urbanized areas, four from suburban areas and two from rural areas). Ten impaired watersheds will be prioritized based on the BIG I-Plan's recommendation under the Geographic Priority Framework for five criteria: bacteria level, accessibility, use level, implementation opportunities, and any anticipated future land use changes.

Based on the prioritization analysis, at least one subwatershed in each of the 10 watersheds will be monitored during dry weather conditions. Water quality monitoring will be used to further refine source identification and to aid in tracking the source(s) of the impairment to the greatest extent practicable. Once verified, the source(s) of the bacteria loading will be relayed to the appropriate jurisdiction for correction. Additionally, any potential sources identified during the prioritization analysis will be directed to local jurisdictions. The Performing Party will track implementation of the corrective action and may conduct additional monitoring of the original sites to determine if the corrective action results in improved water quality.

**Site Characterizations** — Review of local monitoring data indicates there are many sites throughout the region where elevated levels of bacteria or low levels of dissolved oxygen are chronic conditions. Local entities have expressed interest in determining why these chronic conditions exist. Beginning with some of the most problematic sites, the Performing Party and other CRP partners may conduct 'site specific' characterizations at future locations if data analysis determines a need. Habitat information, field verification of land cover, and identification of potential sources of pollution will be collected. Additional monitoring will be collected from these small sub-watersheds as needed to supply data to support TCEQ's assessment process. Data collected during these intensive surveys will be submitted to TCEQ. The Performing Party will also include summaries of any activities in the corresponding quarterly QPR.

A short report of approximately one to five pages in length along with photographs will be submitted following completion of each characterization assessment. The reports will be submitted to the TCEQ to assist with determining the appropriate water quality strategies to be

pursued. An appendix to the Multi-Basin QAPP will be developed to provide the details of these special studies.

### **Deliverables and Dues Dates:**

#### **September 1, 2019 through August 31, 2020**

- A. Conduct water quality monitoring, summarize activities, and submit with QPR — December 15, 2019; March 15 and June 15, 2020
- B. RMW Meeting Notice - Two weeks in advance of RMW meetings
- C. Coordinated Monitoring Meeting — between March 15 and April 30, 2020
- D. Coordinated Monitoring Meeting Summary of Changes — within 2 weeks of the meeting
- E. Email notification that Coordinated Monitoring Schedule updates are complete — May 31, 2020
- F. Special Study Status Reports — August 31 and December 15, 2019; March 15 and June 15, 2020
- G. Special Study Desk Review/Ground Truth Preliminary Action Draft Report - June 30, 2020
- H. Special Study Desk Review/Ground Truth Preliminary Action Final Report - August 31, 2020
- I. Site Characterization Reports (if applicable) — coordinate due date(s) with TCEQ CRP Project Manager

#### **September 1, 2020 through August 31, 2021**

- A. Conduct water quality monitoring, summarize activities, and submit with QPR — September 15 and December 15, 2020; March 15 and June 15 and August 31, 2021
- B. RMW Meeting Notice - Two weeks in advance of RMW meetings
- C. Coordinated Monitoring Meeting — between March 15 and April 30, 2021
- D. Coordinated Monitoring Meeting Summary of Changes — within 2 weeks of the meeting
- E. Email notification that Coordinated Monitoring Schedule updates are complete — May 31, 2021
- F. Special Study Status Reports — September 15 and December 15, 2020; March 15 and June 15 and August 31, 2021
- G. Special Study Source Identification Draft Report - May 31, 2021
- H. Special Study Source Identification Final Report - August 31, 2021
- I. Site Characterization Reports (if applicable) — coordinate due date(s) with TCEQ CRP Project Manager

## Appendix B Sampling Process Design and Monitoring Schedule (plan)

### Sample Design Rationale FY 2021

The sample design is based on the legislative intent of CRP. Under the legislation, the Basin Planning Agencies have been tasked with providing data to characterize water quality conditions in support of the Texas Water Quality Integrated Report, and to identify significant long-term water quality trends. Based on Steering Committee input, achievable water quality objectives and priorities and the identification of water quality issues are used to develop work plans which are in accord with available resources. As part of the Steering Committee process, the H-GAC coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

The following changes (additions or subtractions) have been to the monitoring schedule for FY2021. The changes have come about because of concerns or requests of monitoring entities or steering committee members.

**TCEQ, Region 12 Field Operations** (FO): No changes for FY2021.

**City of Houston Health Department** (HHD) All 133 monitoring sites will continue to have a monitoring frequency of six times per year.

ADD 'Nitrite as N' to all the sites where they collect TKN to complete the nutrient suite.

Action	Site ID	Site Description	Monitoring Effort
MOVE	15847	NEW: Turkey Creek 220 M upstream of Memorial Drive at Memorial Oaks Cemetery	Moved 200 m upstream to more accessible location. Using same SLOC ID.

**Environmental Institute of Houston** (EIH).

Action	Site ID	Site Description	Monitoring Effort
ADD	21079	Cary Bayou immediately upstream of Raccoon Drive bridge in Baytown (tidal site)	TCEQ SWQM assessor asked for quarterly routine data for this site.
ADD	21079	Cary Bayou immediately upstream of Raccoon Drive bridge in Baytown	SWQM Assessor requested quarterly 24-Hr DO monitoring at this site.
CONTINUE	11493	Oyster Creek at FM1462west of Rosharon	Monthly flow monitoring and field parameters; quarterly 24-hour DO, conventionals & bacteria
CONTINUE	11491	Oyster Creek at Sims Road near Holiday Lakes	Monthly flow monitoring and field parameters for Permitting
CONTINUE	11490	Oyster Creek at Hwy 35	Routine sample collection along with current 24-hour DO monitoring

DROP	21734	Brushy Bayou at CR 213/Shell Rd 8.9 KM east of Angleton	Site deemed not representative. It is more of a pool than flowing stream.
ADD	18636	Unnamed trib of Marys Creek 8 M downstream of Thalerfield Dr E of Old Chocolate Bayou Rd/Brazoria CR 89 approx 300 M upstream Silver Lake WWTP	Quarterly routine monitoring with water quality samples plus monthly flow monitoring w/ field parameter but no sonde measurements during only flow events (8X per year).
ADD	22232	Cotton Bayou 10 Meters upstream of westbound IH-10 Frontage Road in Mont Belvieu	Monthly routine water quality monitoring.
ADD	22232	Cotton Bayou 10 Meters upstream of westbound IH-10 Frontage Road in Mont Belvieu	Quarterly 24-Hr DO monitoring with flow and all field parameters except sonde measurements if no water samples are collected.

**San Jacinto River Authority** (SJRA) No changes to the monitoring sites or frequency.

Dropped all metals from The Woodland sites.

ADD 'Nitrite as N' to all Lake Conroe sites.

**Texas Research Institute for Environmental Studies** (TRIES) No changes were made to the monitoring sites, frequency, or parameters.

**Harris County Pollution Control Division** (HC) No changes were made to the monitoring sites, frequency, or parameters list.

**City of Houston Drinking Water Operations** (DWO) No changes were made to monitoring frequency.

ADD 'Nitrite as N' to the parameter list for both watershed and Lake Houston sites.

Action	Site ID	Site Description	Monitoring Effort
ADD	22224	Luce Bayou 224 meters northwest of end of Cry Baby Lane in Huffman	Added new site outside of mixing zone of Trinity River transfer into Lake Houston to be sampled six times per year.

**H-GAC** (HG) The following changes were made to the HG monitoring schedule for FY2021.

Action	Site ID	Site Description	Monitoring Effort
DROP*	11181	Crystal Creek at FM 1314 southeast of Conroe	Monthly flow monitoring and field parameters
DROP*	16626	Stewarts Creek at SH Loop 336	Monthly flow monitoring and field parameters



DROP*	11243	West Fork San Jacinto River immediately upstream of SH 242	Monthly flow monitoring and field parameters
CONTINUE	21965	Spring Branch at Shakey Hollow Rd.	Quarterly 24-hour DO monitoring in addition to field, flow, conventionals, and bacteria

\*TCEQ Permitting determined no more monthly flow data is needed for these sites.

### ***Monitoring Sites for FY 2021***

The sample design for SWQM is shown in Table B1.1 in the attached EXCEL spreadsheet on the next page.

**Table B1.1 Monitoring Schedule FY2021**

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SAN JACINTO RIVER TIDAL IMMEDIATELY DOWNSTREAM OF IH 10 BRIDGE EAST OF CHANNELVIEW	11193	1001	10	12	HG	HC	RT	12	12	12			
SAN JACINTO RIVER TIDAL 23 METERS SOUTH AND 735 METERS EAST OF INTERSECTION OF WALLISVILLE ROAD AND 7TH STREET	11198	1001	10	12	HG	HC	RT	12	12	12			
SAN JACINTO RIVER TIDAL IMMEDIATELY DOWNSTREAM OF US 90 BRIDGE EAST OF SHELDON	11200	1001	10	12	HG	HC	RT	12	12	12			
SAN JACINTO RIVER TIDAL AT MAGNOLIA GARDENS 1.78 KM UPSTREAM OF US BUS 90U/ BEAUMONT HIGHWAY IN HOUSTON	11201	1001	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL AT BAYTOWN TUNNEL/CM 103 1.84 KM NORTH AND 1.17 KM EAST OF INTERSECTION OF SH 225 AND SH 146	11254	1005	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL AT SAN JACINTO PK WEST OF THE BATTLESHIP TX 317 M N AND 303 M W OF INTERSECTION OF BATTLEGROUNDRD AND MARKER DR	11264	1006	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL AT CONFLUENCE WITH GREENS BAYOU/CM 152	11271	1006	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL/BUFFALO BAYOU HSC AT WASHBURN TUNNEL	11283	1007	10	12	HG	HC	RT	12	12	12			
HSC/BUFFALO BAYOU IN TURNING BASIN 2.82 K UPSTREAM OF CONFLUENCE WITH BRAYS BAYOU 433 M S AND 182 M W OF INTERSECT OF SIGNET AND DORSETT	11292	1007	10	12	HG	HC	RT	12	12	12			
CLEAR LAKE AT SH 146 DRAWBRIDGE	13332	2425	24	12	HG	HC	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
TABBS BAY MIDWAY BETWEEN GOOSE CREEK AND UPPER HOG ISLAND	13338	2426	24	12	HG	HC	RT	6	6	6			
BLACK DUCK BAY AT MID BAY 0.6 KM NE OF SH 146 BRIDGE AND 0.6 KM SE OF END OF OKLAHOMA ST IN BAYTOWN	13340	2428	24	12	HG	HC	RT	6	6	6			
BURNETT BAY AT MID BAY 1.3 KM SSW OF CONFLUENCE WITH SPRING GULLY AND 1.6 KM SE OF LYNCHBURG ROAD	13344	2430	24	12	HG	HC	RT	6	6	6			
ARMAND BAYOU TIDAL 25 M WEST OF CLEAR LAKE PARK FISHING PIER IN MUD LAKE/PASADENA LAKE IN HARRIS COUNTY	15455	1113	11	12	HG	HC	RT	6	6	6			
CLEAR CREEK TIDAL AT THE CONFLUENCE WITH CLEAR LAKE 30 M NORTH AND 266 M WEST OF DAVIS ROAD AT VEGA COURT IN LEAGUE CITY IN HARRIS COUNTY	16573	1101	11	12	HG	HC	RT	6	6	6			
HOUSTON SHIP CHANNEL AT CARGILL TERMINAL NORTH OF TIDAL ROAD	16617	1006	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL W OF EXXON DOCKS AND N OF ALEXANDER ISLAND 316 M S AND 1.55 KM W OF INTERSECTION OF BAYWAY DR AND BAYTOWN AVE	16618	1005	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL AT LYNCHBURG FERRY INN SOUTH OF LYNCHBURG RD 658 M N AND 802 M E OF INTERSECTION OF BATTLEGROUND RD AND TIDAL RD	16619	1005	10	12	HG	HC	RT	12	12	12			
HOUSTON SHIP CHANNEL/BUFFALO BAYOU AT MAYO SHELL RD 1.42 KM S AND 41 M W OF INTERSECTION OF MAYO SHELL RD AND CLINTON DR IN HOUSTON	16620	1007	10	12	HG	HC	RT	12	12	12			
SAN JACINTO RIVER TIDAL AT CONFLUENCE WITH HSC 226 M S AND 1.07 KM W OF INTERSECTION OF S LYNCHBURG RD AND POQUENO RD IN HOUSTON	16621	1005	10	12	HG	HC	RT	12	12	12			
SAN JACINTO RIVER TIDAL AT BANANA BEND ROAD AT END OF PAVEMENT IN HOUSTON	16622	1001	10	12	HG	HC	RT	12	12	12			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SAN JACINTO RIVER TIDAL MID STREAM AT TERMINUS OF SHADY LANE IN CHANNELVIEW 9 M S AND 648 M W OF INTERSECTION OF SHADY LN AND PARK DR	17919	1001	10	12	HG	HC	RT	12	12	12			
CRYSTAL BAY IN BAYTOWN 383 METERS WEST AND 137 METERS SOUTH OF THE INTERSECTION OF BAYSHORE DRIVE AND CROW ROAD	17921	2430A	24	12	HG	HC	RT	6	6	6			
SCOTT BAY 1.2 KM SW OF INTERSECTION OF BAYWAY DRIVE AND PARK STREET IN BAYTOWN	17922	2429	24	12	HG	HC	RT	6	6	6			
UPPER SAN JACINTO BAY UNDERNEATH ELECTRICAL TRANSMISSION LINES 2.1 KM E/NE OF INTERSECTION OF MILLER CUTOFF RD AND OLD CLARK RD	17923	2427	24	12	HG	HC	RT	6	6	6			
LOWER SAN JACINTO BAY MID CHANNEL SOUTH OF SH 146 1 KM NE OF INTERSECTION OF SH 225 AND STRANG ROAD IN LAPORTE	17924	2427	24	12	HG	HC	RT	6	6	6			
BARBOUR'S CUT NEAR NORTH BANK 0.5 KM NNW OF THE INTERSECTION OF BARBOURS CUT BLVD AND MAPLE ST	17925	2436	24	12	HG	HC	RT	6	6	6			
GOOSE CREEK NEAR SH 146 340 M SOUTH OF THE INTERSECTION OF SH 146 AND WEST MAIN IN BAYTOWN	17927	2426C	24	12	HG	HC	RT	6	6	6			
HARRIS COUNTY FLOOD CONTROL DITCH A TRIBUTARY TO TAYLOR BAYOU 385 M UPSTREAM OF CONFLUENCE WEST OF SH 146 AT PORT ROAD IN HARRIS COUNTY	20012	2425E	24	12	HG	HC	RT	6	6	6			
TAYLOR BAYOU MID CHANNEL 400 M DOWNSTREAM OF PORT ROAD BRIDGE IN HARRIS COUNTY	20013	2425A	24	12	HG	HC	RT	6	6	6			
CLEAR LAKE UNNAMED INLET 115 M SOUTHWEST OF THE INTERSECTION OF NASA ROAD 1 AND OCEANVIEW DRIVE IN SEABROOK IN HARRIS COUNTY	20014	2425	24	12	HG	HC	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
TAYLOR LAKE MID LAKE AT BLUE WINDOWS 230 M SOUTH OF LAKEWAY DRIVE AT RAY SHELL COURT/HARBOR COVE CIRCLE IN HARRIS COUNTY	20015	2425A	24	12	HG	HC	RT	6	6	6			
CARPENTERS BAYOU AT MOUTH OF BARGE CANAL 32 METERS WEST AND 666 METERS SOUTH FROM THE INTERSECTION OF DE ZAVALLA ROAD AND HARDING ROAD/HARDING STREET IN HARRIS COUNTY	20797	1006	10	12	HG	HC	RT	12	12	12			
SPRING BRANCH IMMEDIATELY DOWNSTREAM OF SHAKEY HOLLOW WEST OF WOODBRANCH VILLAGE IN MONTGOMERY COUNTY	21965	1010C	10	12	HG	HG	BS				4	4	Started collecting 24-hr DO in 2/2017; Continue through FY21
BUFFALO BAYOU IMMEDIATELY DOWNSTREAM OF GREEN BUSH ROAD 3.1 MILES SOUTHEAST OF KATY	11145	1014B	10	12	HG	HG	RT	4	4	4	4		
CRYSTAL CREEK AT FM 1314 SOUTHEAST OF CONROE	11181	1004D	10	12	HG	HG	RT	10			10		Site added in FY19
WEST FORK SAN JACINTO RIVER IMMEDIATELY UPSTREAM OF SH 242	11243	1004	10	12	HG	HG	RT	10			10		Site added FY19
CANEY CREEK IMMEDIATELY UPSTREAM OF FM 2090 WEST OF SPLENDORA	11335	1010	10	12	HG	HG	RT	4	4	4	4		
LAKE CREEK AT EGYPT COMMUNITY ROAD 8.3 MILES SOUTHWEST OF CONROE	11367	1015	10	12	HG	HG	RT	4	4	4	4		
STEWARTS CREEK 175 METERS DOWNSTREAM OF SH LOOP 336 SOUTHEAST OF CONROE	16626	1004E	10	12	HG	HG	RT	10			10		Site added in FY19
EAST FORK SAN JACINTO RIVER IMMEDIATELY DOWNSTREAM OF SH 150 WEST OF COLDSRING	17431	1003	10	10	HG	HG	RT	4	4	4	4		
MOUND CREEK 167 METERS DOWNSTREAM OF MULLIGAN ROAD 1.35 KM UPSTREAM OF CONFLUENCE WITH LAKE CREEK	17937	1015A	10	12	HG	HG	RT	4	4	4	4		
LAKE CREEK AT SH 105 NR DOBBIN	18192	1015	10	12	HG	HG	RT	4	4	4	4		This site replaces site 18191

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SPRING CREEK AT ROBERTS CEMETERY ROAD WEST-NORTHWEST OF TOMBALL	18868	1008	10	12	HG	HG	RT	4	4	4	4		
CANEY CREEK AT FIRETOWER ROAD WEST TO THE CITY OF WOODBRANCH	20452	1010	10	12	HG	HG	RT	4	4	4	4		
CANEY CREEK AT COUNTY LINE ROAD IN MONTGOMERY COUNTY EAST TO THE CITY OF WILLIS	20453	1010	10	12	HG	HG	RT	4	4	4	4		
PEACH CREEK AT COUNTY LINE ROAD-FM 3081 NORTHEAST OF CONROE IN MONTGOMERY COUNTY	20454	1011	10	12	HG	HG	RT	4	4	4	4		
LITTLE CYPRESS CREEK AT MUESCHKE ROAD 4.4 KILOMETERS NORTH OF SH 290 NORTHWEST OF CYPRESS	20456	1009E	10	12	HG	HG	RT	4	4	4	4		
CYPRESS CREEK AT KATY HOCKLEY ROAD 7 KILOMETERS SOUTH OF SH 290 WEST OF CYPRESS	20457	1009	10	12	HG	HG	RT	4	4	4	4		
WALNUT CREEK AT DECKER PRAIRIE ROSEHL ROAD NORTHWEST OF TOMBALL	20462	1008I	10	12	HG	HG	RT	4	4	4	4		
BRUSHY CREEK AT GLENMONT ESTATES BOULEVARD 265 METERS NORTH AND 35 METERS WEST TO THE INTERSECTION OF ARNDT LANE AND ANN CIRCLE WEST OF TOMBALL	20463	1008J	10	12	HG	HG	RT	4	4	4	4		
HORSEPEN CREEK AT FM 529 1.9 KILOMETERS EAST OF SH 6 NORTHWEST OF HOUSTON	20465	1014C	10	12	HG	HG	RT	4	4	4	4		
TARKINGTON BAYOU AT SH 105/SH 321 SOUTHEAST OF CLEVELAND	20466	1002A	10	12	HG	HG	RT	4	4	4	4		
WHITE OAK CREEK AT MEMORIAL DRIVE IN CONROE	20731	1004J	10	12	HG	HG	RT	4	4	4	4		
WINTERS BAYOU AT TONY TAP ROAD NEAR CLEVELAND	21417	1003A	10	10	HG	HG	RT	4	4	4	4		
MILL CREEK AT FM 149 NORTH OF TOMBALL	21957	1008A	10	12	HG	HG	RT	4	4	4	4		This site replaces site 20461 in Feb. 2017

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SPRING BRANCH IMMEDIATELY DOWNSTREAM OF SHAKEY HOLLOW WEST OF WOODBRANCH VILLAGE IN MONTGOMERY COUNTY	21965	1010C	10	12	HG	HG	RT	4	4	4	4		This site replaces site 20451 in Feb. 2017
GARNERS BAYOU AT NORTH SAM HOUSTON PARKWAY/SH LOOP 8 NE OF HOUSTON	11125	1016A	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8074250
HALLS BAYOU AT JENSEN DRIVE IN HOUSTON	11126	1006D	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8076500
HALLS BAYOU 87 METERS UPSTREAM OF TIDWELL ROAD IN SETTEGAST	11127	1006D	10	12	HG	HH	RT	6	6	6			
HUNTING BAYOU IMMEDIATELY DOWNSTREAM OF IH 10 EAST OF HOUSTON	11128	1007R	10	12	HG	HH	RT	6	6	6			
HUNTING BAYOU AT NORTH LOOP EAST/IH 610 IN HOUSTON	11129	1007R	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8075770
SIMS BAYOU AT TELEPHONE ROAD/SH 35 IN HOUSTON	11132	1007D	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8075500
SIMS BAYOU AT CULLEN BLVD/FM 865 SOUTH OF HOUSTON	11133	1007D	10	12	HG	HH	RT	6	6	6			
SIMS BAYOU AT HIRAM CLARKE RD IN HOUSTON	11135	1007D	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8075400
BRAYS BAYOU IMMEDIATELY DOWNSTREAM OF ALMEDA ROAD SOUTHWEST OF HOUSTON	11138	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU AT SOUTH MAIN ST IN HOUSTON	11139	1007B	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8075000
BRAYS BAYOU AT SOUTH GESSNER DRIVE IN HOUSTON	11140	1007B	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8074810
LITTLE WHITE OAK BAYOU AT TRIMBLE STREET/NORTH EDGE OF HOLLYWOOD CEMETERY IN HOUSTON	11148	1013A	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8074540
VOGEL CREEK IMMEDIATELY DOWNSTREAM OF WEST LITTLE YORK ROAD	11155	1017C	10	12	HG	HH	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
ROLLING FORK CREEK IMMEDIATELY DOWNSTREAM OF LAKE LANE	11157	1017F	10	12	HG	HH	RT	6		6			
SOUTH MAYDE CREEK IMMEDIATELY DOWNSTREAM OF MEMORIAL DRIVE	11163	1014H	10	12	HG	HH	RT	6	6	6			
BRAYS/KEEGANS BAYOU IMMEDIATELY DOWNSTREAM OF ROARK ROAD NEAR US 59 AT BELTWAY 8 IN SOUTHWEST HOUSTON	11169	1007C	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8074800
LITTLE VINCE BAYOU IMMEDIATELY DOWNSTREAM OF NORTH MAIN STREET IN PASADENA TX	11172	1007	10	12	HG	HH	RT	6	6	6			
WILLOW CREEK IMMEDIATELY UPSTREAM OF GOSLING ROAD	11185	1008H	10	12	HG	HH	RT	6	6	6			
RUMMEL CREEK IMMEDIATELY DOWNSTREAM OF MEMORIAL DRIVE IN WEST HOUSTON	11188	1014N	10	12	HG	HH	RT	6	6	6			
GREENS BAYOU IMMEDIATELY DOWNSTREAM OF GREEN RIVER ROAD/LEY ROAD IN HOUSTON	11279	1006	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8076700
HUNTING BAYOU TIDAL AT FEDERAL ROAD BRIDGE IN HOUSTON	11298	1007	10	12	HG	HH	RT	6	6	6			
SIMS BAYOU TIDAL IMMEDIATELY DOWNSTREAM OF LAWNSDALE AVENUE IN HOUSTON	11302	1007	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU TIDAL AT 75TH STREET IN HOUSTON	11306	1007	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU TIDAL AT SCOTT STREET IN HOUSTON	11309	1007	10	12	HG	HH	RT	6	6	6			
SPRING CREEK IMMEDIATELY DOWNSTREAM OF RILEY FUZZEL ROAD	11312	1008	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8068520
SPRING CREEK 1.13 KM UPSTREAM OF SH 249 NEAR DRAGONFLY RD IN SPRING CREEK PARK	11315	1008	10	12	HG	HH	RT	6	6	6			Replaced 11314 in FY2020 due to construction at bridge
SPRING CREEK IMMEDIATELY UPSTREAM OF DECKER PRAIRIE ROSEHILL ROAD	11323	1008	10	12	HG	HH	RT	6	6	6			



Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
CYPRESS CREEK AT STEUBNER-AIRLINE ROAD IN HOUSTON	11330	1009	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8068900
CYPRESS CREEK AT SH 249	11331	1009	10	12	HG	HH	RT	6	6	6			
CYPRESS CREEK IMMEDIATELY DOWNSTREAM OF GRANT ROAD NEAR CYPRESS	11332	1009	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8068800
CYPRESS CREEK IMMEDIATELY DOWNSTREAM OF HOUSE HAHN ROAD NEAR CYPRESS	11333	1009	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8068740
BUFFALO BAYOU TIDAL AT MCKEE ST IN HOUSTON	11345	1013	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU TIDAL IMMEDIATELY DOWNSTREAM OF MAIN STREET IN HOUSTON	11347	1013	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8074600
BUFFALO BAYOU TIDAL AT SHEPHERD DRIVE IN HOUSTON	11351	1013	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8074000
BUFFALO BAYOU AT VOSS ROAD	11356	1014	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU IMMEDIATELY DOWNSTREAM OF WEST BELTWAY 8 IN HOUSTON	11360	1014	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8073600
BUFFALO BAYOU AT WILCREST DRIVE IN HOUSTON	11361	1014	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU IMMEDIATELY DOWNSTREAM OF DAIRY ASHFORD ROAD WEST OF HOUSTON	11362	1014	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8073500
BUFFALO BAYOU AT ELDRIDGE ROAD IN HOUSTON	11363	1014	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU AT SH 6	11364	1014	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8072500
GREENS BAYOU AT TIDWELL ROAD IN HARRIS CO	11369	1016	10	12	HG	HH	RT	6	6	6			
GREENS BAYOU IMMEDIATELY DOWNSTREAM OF MT HOUSTON PARKWAY	11370	1016	10	12	HG	HH	RT	6	6	6			
GREENS BAYOU AT US 59 NORTH OF HOUSTON	11371	1016	10	12	HG	HH	RT	6	6	6			
GREENS BAYOU AT WEST GREENS PARKWAY	11376	1016	10	12	HG	HH	RT	6	6	6			
WHITEOAK BAYOU AT NORTH SHEPHERD STREET IN HOUSTON	11389	1017	10	12	HG	HH	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
WHITEOAK BAYOU AT NORTH HOUSTON ROSSLYN ROAD	11394	1017	10	12	HG	HH	RT	6	6	6			
WHITEOAK BAYOU IMMEDIATELY DOWNSTREAM OF TAHOE DRIVE	11396	1017	10	12	HG	HH	RT	6	6	6			
ARMAND BAYOU AT GENOA-RED BLUFF RD NE OF ELLINGTON AFB	11404	1113A	11	12	HG	HH	RT	6	6	6			
ARMAND BAYOU AT FAIRMONT PARKWAY ALONG MEDIAN AT MIDPOINT BETWEEN BRIDGES	11405	1113A	11	12	HG	HH	RT	6	6	6			
ARMAND BAYOU TIDAL AT BAY AREA BLVD NORTH OF NASA AT MIDDLE OF MEDIAN BETWEEN 2 BRIDGES EASTERN SHORE	11503	1113	11	12	HG	HH	RT	6	6	6			
GREENS BAYOU 184 METERS DOWNSTREAM OF KNOBCREST DRIVE	13778	1016	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8075900
LITTLE CYPRESS CREEK IMMEDIATELY DOWNSTREAM OF KLUGE ROAD IN HOUSTON	14159	1009E	10	12	HG	HH	RT	6	6	6			
WHITEOAK BAYOU IMMEDIATELY DOWNSTREAM OF WEST 43RD STREET IN NORTHWEST HOUSTON	15829	1017	10	12	HG	HH	RT	6	6	6			
WHITEOAK BAYOU AT WEST TIDWELL ROAD IN NORTHWEST HOUSTON	15831	1017	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU TIDAL IMMEDIATELY UPSTREAM OF JENSEN DRIVE IN HOUSTON	15841	1007	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU TIDAL AT SABINE STREET NORTH OF ALLEN PARKWAY IN HOUSTON	15843	1013	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU AT CHIMNEY ROCK ROAD IN HOUSTON	15845	1014	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU IMMEDIATELY DOWNSTREAM OF BRIAR FOREST DRIVE IN WEST HOUSTON	15846	1014	10	12	HG	HH	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
TURKEY CREEK 200 M UPSTREAM OF MEMORIAL DRIVE AT BRIDGE IN MEMORIAL OAKS CEMETERY	15847	1014K	10	12	HG	HH	RT	6	6	6			Moved upstream by 200 M in FY20 (same ID number)
BRAYS BAYOU IMMEDIATELY DOWNSTREAM OF SH 6 IN WEST HOUSTON	15848	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU AT DAIRY ASHFORD STREET IN WEST HOUSTON	15850	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU AT WILCREST DRIVE IN WEST HOUSTON	15851	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU IMMEDIATELY DOWNSTREAM OF BEECHNUT STREET IN WEST HOUSTON	15852	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU IMMEDIATELY DOWNSTREAM OF HILLCROFT STREET IN WEST HOUSTON	15853	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU IMMEDIATELY DOWNSTREAM OF SOUTH RICE AVENUE IN WEST HOUSTON	15854	1007B	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU IMMEDIATELY DOWNSTREAM OF STELLA LINK ROAD IN HOUSTON	15855	1007B	10	12	HG	HH	RT	6	6	6			
HALLS BAYOU AT HOMESTEAD ROAD IN NORTHEAST HOUSTON	15862	1006D	10	12	HG	HH	RT	6	6	6			
HALLS BAYOU AT HIRSCH RD IN NORTHEAST HOUSTON	15863	1006D	10	12	HG	HH	RT	6	6	6			
HALLS BAYOU AT MESA DR IN NORTHEAST HOUSTON	15864	1006D	10	12	HG	HH	RT	6	6	6			
HUNTING BAYOU AT JENSEN DRIVE IN NORTHEAST HOUSTON	15867	1007R	10	12	HG	HH	RT	6	6	6			
HUNTING BAYOU AT CAVALCADE ST IN NORTHEAST HOUSTON	15869	1007R	10	12	HG	HH	RT	6	6	6			
HUNTING BAYOU AT LOCKWOOD DRIVE IN NORTHEAST HOUSTON	15873	1007R	10	12	HG	HH	RT	6	6	6			
SIMS BAYOU IMMEDIATELY DOWNSTREAM OF ALMEDA ROAD IN SOUTH HOUSTON	15876	1007D	10	12	HG	HH	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SIMS BAYOU AT MARTIN LUTHER KING JUNIOR BOULEVARD IN SOUTH HOUSTON	15877	1007D	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8075470
SIMS BAYOU AT SWALLOW STREET IN SOUTHEAST HOUSTON	15878	1007D	10	12	HG	HH	RT	6	6	6			
BRAYS BAYOU AT SOUTH WAYSIDE DRIVE 802 METERS UPSTREAM OF IH 45 IN SOUTHEAST HOUSTON	16479	1007	10	12	HG	HH	RT	6	6	6			
GARNERS BAYOU IMMEDIATELY UPSTREAM OF OLD HUMBLE ROAD AT CONFLUENCE WITH RIENHARDT BAYOU IN NORTHEAST HOUSTON	16589	1016A	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF GREENS BAYOU AT MESA DR/E. HOUSTON-DYERSDALE ROAD IN NORTHEAST HOUSTON	16590	1016B	10	12	HG	HH	RT	6	6	6			
SPRING BRANCH CREEK IMMEDIATELY UPSTREAM OF WIRT ROAD 331 METERS DOWNSTREAM OF IH 10 IN WEST HOUSTON	16592	1014O	10	12	HG	HH	RT	6	6	6			
COLE CREEK IMMEDIATELY UPSTREAM OF BOLIVIA BLVD 792 METERS UPSTREAM OF CONFLUENCE WITH WHITEOAK BAYOU IN NW HOUSTON	16593	1017B	10	12	HG	HH	RT	6	6	6			
BRICKHOUSE GULLY AT US 290 IN NORTHWEST HOUSTON 2.03 KM UPSTREAM OF CONFLUENCE WITH WHITEOAK BAYOU	16594	1017A	10	12	HG	HH	RT	6		6	6		Flow from gage 8074250
UNNAMED TRIBUTARY OF WHITE OAK BAYOU AT W 14TH IN WEST HOUSTON 516 METERS UPSTREAM OF CONFLUENCE WITH WHITE OAK BAYOU	16596	1017E	10	12	HG	HH	RT	6	6	6			
NEWMAN BRANCH / NEIMANS BAYOU AT MEMORIAL DRIVE IN WEST HOUSTON	16597	1014M	10	12	HG	HH	RT	6	6	6			
LITTLE WHITE OAK BAYOU AT WHITE OAK DRIVE IN NORTH HOUSTON	16648	1013A	10	12	HG	HH	RT	6	6	6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
COUNTRY CLUB BAYOU/TRIBUTARY OF BRAYS BAYOU IMMEDIATELY UPSTREAM OF SOUTH WAYSIDE DRIVE/US90A IN CENTRAL HOUSTON	16650	1007K	10	12	HG	HH	RT	6	6	6			
COUNTRY CLUB BAYOU/TRIBUTARY OF BRAYS BAYOU AT HUGHES STREET IN CENTRAL HOUSTON	16651	1007K	10	12	HG	HH	RT	6	6	6			
WILLOW WATERHOLE AT MCDERMED DRIVE IN SOUTHWEST HOUSTON	16652	1007E	10	12	HG	HH	RT	6		6			
KUHLMAN GULLY/TRIBUTARY OF BRAYS BAYOU AT BROCK STREET 311 METERS UPSTREAM OF WHEELER STREET IN SOUTHEAST CENTRAL HOUSTON	16653	1007G	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF BRAYS BAYOU AT DUMFRIES DRIVE IN SOUTH WEST HOUSTON	16654	1007L	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF SIMS BAYOU AT DULCIMER STREET IN SOUTH HOUSTON	16655	1007N	10	12	HG	HH	RT	6	6	6			
SIMS BAYOU SOUTH BRANCH AT TIFFANY DRIVE IN SOUTH HOUSTON	16656	1007A	10	12	HG	HH	RT	6		6			
UNNAMED TRIBUTARY OF HUNTING BAYOU IMMEDIATELY UPSTREAM OF JOHN RALSTON ROAD IN EAST HOUSTON	16657	1007M	10	12	HG	HH	RT	6		6			
PLUM CREEK/TRIBUTARY OF SIMS BAYOU AT OLD GALVESTON ROAD IN SOUTH EAST HOUSTON	16658	1007I	10	12	HG	HH	RT	6	6	6			
PINE GULLY/TRIBUTARY OF SIMS BAYOU AT OLD GALVESTON ROAD IN SOUTH EAST HOUSTON	16659	1007H	10	12	HG	HH	RT	6	6	6			
BERRY BAYOU/TRIBUTARY OF SIMS BAYOU IMMEDIATELY UPSTREAM OF AHRENS DRIVE IN SOUTHEAST HOUSTON	16660	1007	10	12	HG	HH	RT	6	6	6			
BERRY BAYOU IMMEDIATELY UPSTREAM OF SOUTH RICHEY STREET IN SOUTH EAST HOUSTON	16661	1007F	10	12	HG	HH	RT	6	6	6			
BIG GULCH AT WALLISVILLE ROAD IN EAST HOUSTON	16662	1006F	10	12	HG	HH	RT	6		6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SPRING GULLY AT WEST TERMINUS OF BARNESWORTH DRIVE IN NORTHEAST HOUSTON	16663	1006H	10	12	HG	HH	RT	6	6	6			
GOODYEAR CREEK TIDAL IMMEDIATELY UPSTREAM OF IH 10 IN EAST HOUSTON	16664	1006	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF HALLS BAYOU IMMEDIATELY DOWNSTREAM OF LANGLEY ROAD IN NORTH HOUSTON	16665	1006J	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF HALLS BAYOU AT TALTON STREET IN NORTH EAST HOUSTON	16666	1006I	10	12	HG	HH	RT	6		6			
UNNAMED TRIBUTARY OF HALLS BAYOU AT WOODLYN ROAD IN NORTH EAST HOUSTON	16667	1006I	10	12	HG	HH	RT	6		6			
UNNAMED TRIB OF BUFFALO BAYOU AT GLENWOOD CEMETARY RD 160 M W OF INTERSECT OF LUBBOCK ST AND SAWYER ST IN CENTRAL HOUSTON	16675	1013C	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF GREENS BAYOU AT SMITH RD IN NORTHEAST HOUSTON	16676	1016D	10	12	HG	HH	RT	6	6	6			
SPRING GULLY AT SPRING CREEK OAKS DRIVE IN TOMBALL	17481	1009D	10	12	HG	HH	RT	6	6	6			
LANGHAM CREEK AT SH 6 IN NORTHWEST HOUSTON	17482	1014E	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8072760
BEAR CREEK AT OLD GREENHOUSE ROAD WEST OF HOUSTON	17484	1014A	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF HORSEPEN BAYOU TIDAL AT PENN HILLS	17485	1113C	11	12	HG	HH	RT	6	6	6			
BIG ISLAND SLOUGH AT HILLRIDGE ROAD IN SOUTHEAST HOUSTON	17486	1113E	11	12	HG	HH	RT	6	6	6			
WILLOW SPRING AT BANDRIDGE ROAD IN SOUTHEAST HOUSTON	17487	1113D	11	12	HG	HH	RT	6		6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
SPRING CREEK IMMEDIATELY DOWNSTREAM OF KUYKENDAHL ROAD NORTHEAST OF HOUSTON	17489	1008	10	12	HG	HH	RT	6	6	6			
HALLS BAYOU AT AIRLINE ROAD IN NORTH HOUSTON	17490	1006D	10	12	HG	HH	RT	6	6	6			
HALLS BAYOU AT DEER TRAIL DRIVE IN NORTH HOUSTON	17491	1006D	10	12	HG	HH	RT	6	6	6	6		Flow from gage 8076200
BUFFALO BAYOU AT SOUTH MASON ROAD WEST OF HOUSTON	17492	1014B	10	12	HG	HH	RT	6	6	6			
MASON CREEK 151 METERS DOWNSTREAM OF PARK PINE DRIVE WEST OF HOUSTON	17494	1014L	10	12	HG	HH	RT	6	6	6			
GREENS BAYOU IMMEDIATELY UPSTREAM OF MILLS ROAD WEST OF HOUSTON	17495	1016	10	12	HG	HH	RT	6	6	6			
FAULKY GULLY OF CYPRESS CREEK 105 METERS DOWNSTREAM OF LAKEWOOD FOREST DRIVE NORTHWEST OF HOUSTON	17496	1009C	10	12	HG	HH	RT	6	6	6			
SIMS BAYOU UPSTREAM TIDAL AT SOUTH POST OAK ROAD IN SOUTHWEST HOUSTON	17976	1007D	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF BUFFALO BAYOU IMMEDIATELY DOWNSTREAM OF EMILE ST ON NORTH BANK 120 M SOUTH OF CLINTON DRIVE IN CENTRAL HOUSTON	17977	1007O	10	12	HG	HH	RT	6	6	6			
UNNAMED TRIBUTARY OF HUNTING BAYOU AT MINDEN STREET APPROXIMATELY 0.3 KM EAST OF LOCKWOOD AND S OF N 610 LOOP EAST	18689	1007V	10	12	HG	HH	RT	6		6			
BINTLIFF DITCH TRIBUTARY OF BRAYS BAYOU UNDER CENTER OF BISSONNET ST BRIDGE 317 M NE OF BISSONNET AT FONDREN RD IN SW HOUSTON	18690	1007T	10	12	HG	HH	RT	6		6			
MIMOSA DITCH TRIBUTARY OF BRAYS BAYOU AT NEWCASTLE DR IN SOUTHWEST HOUSTON	18691	1007U	10	12	HG	HH	RT	6		6			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
POOR FARM DITCH TRIBUTARY OF BRAYS BAYOU AT EASTBOUND NORTH BRAESWOOD BLVD APPROX 200 M E OF BUFFALO SPEEDWAY IN SW HOUSTON	18692	1007S	10	12	HG	HH	RT	6		6			
KEEGAN'S BAYOU AT SYNOTT ROAD 1.1 KM SOUTH OF THE INTERSECTION OF SYNOTT ROAD AND BISSONET STREET IN SOUTHWEST HOUSTON	20211	1007C	10	12	HG	HH	RT	6	6	6			
BUFFALO BAYOU NORTH SHORE IMMEDIATELY UNDERNEATH THE SOUTHBOUND FEEDER ROAD BRIDGE OF IH 610 WEST IN HOUSTON	20212	1014	10	12	HG	HH	RT	6	6	6			
WILLOW CREEK AT TUWA ROAD APPROXIMATELY 859 METERS DOWNSTREAM OF FM 2920 ROAD IN NORTHERN HARRIS COUNTY	20730	1008H	10	12	HG	HH	RT	6	6	6			
SIMS BAYOU AT GALVESTON ROAD IN HOUSTON	20736	1007	10	12	HG	HH	RT	6	6	6			Replaced site 11304 in FY2020
GREENS BAYOU AT WALLISVILLE ROAD APPROX 150 METERS NORTHEAST OF THE INTERSECTION OF DATTNER ROAD AND WALLISVILLE ROAD IN HOUSTON	21008	1006	10	12	HG	HH	RT	6	6	6			
HARRIS COUNTY FLOOD CONTROL DISTRICT CHANNEL D138 / CHIMNEY DITCH IMMEDIATELY UPSTREAM OF CAVERSHAM DRIVE BETWEEN THE NORTHBOUND AND SOUTHBOUND SECTIONS OF CHIMNEY ROCK ROAD IN HOUSTON	21180	1007W	10	12	HG	HH	RT	6	6	6			
SOUTH MAYDE CREEK AT SOUTH PARK VIEW DRIVE WEST OF HOUSTON	21813	1014H	10	12	HG	HH	RT	6	6	6			Replaced site 17493 in FY2017
UNNAMED TRIBUTARY OF GREENS BAYOU AT ALDINE-WESTFIELD RD	22090	1016C	10	12	HG	HH	RT	6	6	6			Replaced site 11124 in FY19
UNNAMED TRIBUTARY OF WHITE OAK BAYOU APPROXIMATELY 30 METERS SW OF HELBERG RD DEAD END.	22094	1017D	10	12	HG	HH	RT	6	6	6			Replaced site 16595 in FY 19.



Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
TURKEY CREEK AT CLAY ROAD IN NORTHWEST HOUSTON	22169	1014K	10	12	HG	HH	RT	6	6	6			Replaced site 15847 in FY20
CRYSTAL CREEK AT FM 1314 SOUTHEAST OF CONROE	11181	1004D	10	12	HG	HW	RT	6	6	6			Replaces site 16635 Crystal Creek at SH 242 in FY2018
LUCE BAYOU/SAN JACINTO RIVER EAST FORK AT HUFFMAN-NEW CANEY ROAD	11187	1002B	10	12	HG	HW	RT	6	6	6			
LAKE HOUSTON NORTH SIDE OF MISSOURI PACIFIC RAILROAD BRIDGE 137 METERS SOUTH AND 1.36 KM WEST OF INTERSECTION OF PINO LN AND SUNOCO RD	11208	1002	10	12	HG	HW	RT	12	12	12			
LAKE HOUSTON AT FM 1960 WEST END PASS BRIDGE 269 M N AND 731 M E OF INTERSECTION OF ATASCOCITA SHORES AND FM 1960/CITY HO SITE 9	11211	1002	10	12	HG	HW	RT	12	12	12			
LAKE HOUSTON AT FM 1960 EAST END PASS BRIDGE 235 M S AND 950 M WEST OF INTERSECTION OF FM 1960 AND FAIRLAKE LANE/CITY HO SITE 13	11212	1002	10	12	HG	HW	RT	12	12	12			
EAST FORK SAN JACINTO RIVER AT FM 1485	11235	1003	10	12	HG	HW	RT	6	6	6	6		Flow from gage 8070200
EAST FORK SAN JACINTO RIVER IMMEDIATELY UPSTREAM OF TX-105 BUSINESS ROUTE / W SOUTHLINE STREET WEST OF CLEVELAND	11238	1003	10	12	HG	HW	RT	6	6	6	6		Flow from gage 8070000
WEST FORK SAN JACINTO RIVER IMMEDIATELY UPSTREAM OF SH 242	11243	1004	10	12	HG	HW	RT	6	6	6			
WEST FORK SAN JACINTO RIVER IMMEDIATELY DOWNSTREAM OF SH 105 NW OF CONROE CAMS772	11251	1004	10	12	HG	HW	RT	6	6	6	6		Flow from gage 8067650
SPRING CREEK BRIDGE AT IH 45 20 MILES NORTH OF HOUSTON	11313	1008	10	12	HG	HW	RT	6	6	6	6		Flow from gage 8068500
CYPRESS CREEK BRIDGE ON IH 45 15 MI NORTH OF HOUSTON	11328	1009	10	12	HG	HW	RT	6	6	6	6		Flow from gage 8069000

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
CANEY CREEK IMMEDIATELY DOWNSTREAM OF FM 1485	11334	1010	10	12	HG	HW	RT	6	6	6			
PEACH CREEK BRIDGE AT FM 2090 IN SPLENDORA	11337	1011	10	12	HG	HW	RT	6	6	6			
LAKE HOUSTON 90 M S AND 349 M W OF INTERSECTION OF MAGNOLIA PT DR AND DIAMOND WAY CANEY CREEK ARM IN HOUSTON	16623	1002	10	12	HG	HW	RT	12	12	12			
PEACH CREEK IMMEDIATELY UPSTREAM OF OLD HWY 105	16625	1011	10	12	HG	HW	RT	6	6	6			
STEWARTS CREEK 175 METERS DOWNSTREAM OF SH LOOP 336 SOUTHEAST OF CONROE	16626	1004E	10	12	HG	HW	RT	6	6	6			
LK HOUSTON W OF LK SHADOWS SUBDIVISION MID LAKE NW OF HOUSTON 2.09 KM N AND 1.38 KM E OF INTERSECT OF LK HOUSTON PKWY AND DITE CAYLIN	16668	1002	10	12	HG	HW	RT	12	12	12			
LAKE HOUSTON IN THE WEST FORK SAN JACINTO RIVER CHANNEL 270 M EAST AND 60 M NORTH OF MISTY COVE AT ATASCOCITA PLACE DR	18667	1002	10	12	HG	HW	RT	12	12	12			
LAKE HOUSTON/LUCE BAYOU 123 M NORTH AND 188 M WEST OF LAKEWATER DR AT WATERWOOD DR IN WATER WONDERLAND SUBDIVISION IN HARRIS COUNTY	18670	1002	10	12	HG	HW	RT	12	12	12			
LAKE HOUSTON WEST FORK SAN JACINTO RIVER ARM UNDER POWER LINES 567 METERS EAST AND 538 METERS NORTH FROM THE INTERSECTION OF BELLEAU WOOD DRIVE AND SOUTHSORE DRIVE IN HOUSTON	20782	1002	10	12	HG	HW	RT	12	12	12			
CANEY CREEK AT MILLMAC ROAD NORTHEAST OF CUT AND SHOOT	21465	1010	10	12	HG	HW	RT	6	6	6			
LUCE BAYOU 224 METERS NORTHWEST OF END OF CRY BABY LANE IN HUFFMAN	22224	1002B	10	12	HG	HW	RT	6	6	6			Added in FY21. Added to CMS on 6/11/20

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
LAKE CONROE AT DAM MID CHANNEL 85 M OUT FROM MIDDLE TAINTER GATE 922 M N AND 426 M E OF INTERSECTION OF DAM SITE RD AND SH 105	11342	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT FM 1375 IN THE MAIN CHANNEL 4TH PILING FROM THE EAST 541 M SOUTH AND 1.40 KM W OF INTERSECTION OF KAGLE RD AND FM 1375 USGS SITE GC	11344	1012	10	12	HG	SJ	RT	12	12	12			
PANTHER BRANCH 295 METERS DOWNSTREAM OF SAWDUST ROAD IN THE WOODLANDS	16422	1008C	10	12	HG	SJ	RT	12	4	4			
LAKE WOODLANDS AT WESTERN REACH 110 METERS NORTH AND 100 METERS EAST OF INTERSECTION OF MEADOW COVE DR AND PLEASURE COVE DR IN THE WOODLANDS	16481	1008F	10	12	HG	SJ	RT	12	4	4			
LAKE WOODLANDS AT SOUTH END 23 METERS NORTH AND 50 METERS EAST OF THE WEST EDGE OF DAM IN THE WOODLANDS	16482	1008F	10	12	HG	SJ	RT	12	4	4			
LAKE WOODLANDS AT MID POINT 130 METERS NORTH AND 30 METERS EAST OF THE NORTHERN INTERSECTION OF E SHORE DR AND CAPE HARBOR PL IN THE WOODLANDS	16483	1008F	10	12	HG	SJ	RT	12	4	4			
LAKE WOODLANDS AT NORTH END 111 METERS DOWNSTREAM OF RESEARCH FOREST DRIVE IN THE WOODLANDS	16484	1008F	10	12	HG	SJ	RT	12	4	4			
LOWER PANTHER BRANCH AT FOOTBRIDGE 265 M UPSTREAM OF SAWDUST RD APPROX 200 M UPSTREAM OF PERMIT WQ0011401-001 LOCATED AT 2436 SAWDUST ROAD	16627	1008C	10	12	HG	SJ	RT	12	4	4			
UPPER PANTHER BRANCH APPROX 80 M UPSTREAM OF PERMIT WQ0012597-001 LOCATED AT 5402 RESEARCH FOREST DR	16629	1008B	10	12	HG	SJ	RT	12	4	4			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
UPPER PANTHER BRANCH APPROX 170 METERS DOWNSTREAM OF PERMIT WQ0012597-001 LOCATED AT 5402 RESEARCH FOREST DR	16630	1008B	10	12	HG	SJ	RT	12	4	4			
BEAR BRANCH 20 METERS DOWNSTREAM OF RESEARCH FOREST DRIVE	16631	1008E	10	12	HG	SJ	RT	12	4	4	4		Flow from gage 8068400
LAKE CONROE AT APRIL POINT MID CHANNEL 559 M N AND 586 M E OF INTERSECTION OF APRIL POINT PLACE AND APRIL HILL	16638	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT SOUTH END OF LAKE ON EAST SIDE 201 METERS SOUTH AND 732 METERS WEST OF INTERSECTION OF S VALLEY DRIVE AND CREST DRIVE	16639	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE S OF BENTWATER ISLAND WEST COVE S OF FM 1097 BRIDGE 769 M N AND 89 M E OF INTERSECTION OF WATERFRONT AND SPRINGTIME DR	16640	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT AQUARIUS POINT MID CHANNEL N OF FM 830 BOAT RAMP 437 M N AND 924 M W OF INTERSECT OF FM 830 AND LAKEVIEW MANOR DR	16641	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT LAKE MID POINT MID CHANNEL AT FM 1097 BRIDGE 57 M S AND 520 M W OF INTERSECTION OF FM 1097 AND BLUEBERRY HILL	16642	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT HUNTERS POINT CANEY CREEK ARM E OF SCOTTS RIDGE BOAT RAMP 640 M N AND 558 M E OF INTERSECT OF TEEL RD AND HUNTERS TRL	16643	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT PARADISE POINT MID CHANNEL 396 METERS S AND 309 M WEST INTERSECTION OF PARADISE VIEW DRIVE AND PARADISE POINT DRIVE	16644	1012	10	12	HG	SJ	RT	12	12	12			
LAKE CONROE AT MOUTH OF SANDY BRANCH COVE 2.63 KM EAST OF INTERSECTION OF HARDY SMITH ROAD AND F S 218 A	16645	1012	10	12	HG	SJ	RT	12	12	12			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
EAST FORK SAN JACINTO RIVER AT FM 2090 IN LIBERTY COUNTY	11236	1003	10	12	HG	TF	RT	4	4	4	4		
EAST FORK SAN JACINTO RIVER IMMEDIATELY DOWNSTREAM OF FM 945 5.6 MILES NORTH OF CLEVELAND	11237	1003	10	10	HG	TF	RT	4	4	4	4		
EAST FORK SAN JACINTO RIVER IMMEDIATELY DOWNSTREAM OF US 59 AT RED GULLY	14242	1003	10	12	HG	TF	RT	4	4	4	4		
WINTERS BAYOU AT FM 2929 / FOUR NOTCH ROAD 4.8 KILOMETERS SOUTH OF PHELPS IN WALKER COUNTY	21933	1003A	10	12	HG	TF	RT	4	4	4	4		
BOSWELL CREEK AT FOUR NOTCH ROAD / BOSWELL ROAD 13 KILOMETERS NORTHEAST OF NEW WAVERLY IN WALKER COUNTY	21934	1003C	10	12	HG	TF	RT	4	4	4	4		
WINTERS BAYOU AT FM 2693 IN SAN JACINTO COUNTY	21935	1003A	10	10	HG	TF	RT	4	4	4	4		
WINTERS BAYOU AT SH 150 IN SAN JACINTO COUNTY	21936	1003A	10	10	HG	TF	RT	4	4	4	4		
WINTERS BAYOU AT DABNEY BOTTOM RD IN SAN JACINTO COUNTY	21937	1003A	10	10	HG	TF	RT	4	4	4	4		
NEBLETT'S CREEK AT FM 1725 IN SAN JACINTO COUNTY	21938	1003B	10	10	HG	TF	RT	4	4	4	4		
EAST FORK SAN JACINTO RIVER AT NORTH BUTCH ARTHUR ROAD IN SAN JACINTO COUNTY	21939	1003	10	10	HG	TF	RT	4	4	4	4		
OYSTER CREEK IMMEDIATELY DOWNSTREAM OF SH 35 WEST OF ANGLETON	11490	1110	11	12	HG	UI	BS	4			4	4	Added in FY 2020. Field parameters without 'grab' sonde measurements.

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
OYSTER CREEK AT FM 1462	11493	1110	11	12	HG	UI	BS	4			4	4	Added in FY 2020. Field parameters without 'grab' sonde measurements.
CARY BAYOU IMMEDIATELY UPSTREAM OF RACCOON DRIVE BRIDGE IN BAYTOWN (Tidal)	21079	0901A	9	12	HG	UI	BS	4				4	Added to CMS for FY21. Field parameters without 'grab' sonde measurements.
COTTON BAYOU 10 METERS UPSTREAM OF WESTBOUND IH-10 FRONTAGE ROAD IN MONT BELVIEU	22232	0801E	8	12	HG	UI	BS	4			4	4	Added to CMS for FY21. Field parameters without 'grab' sonde measurements.
CEDAR BAYOU TIDAL MID CHANNEL 45 M DOWNSTREAM OF SH 146 NORTHEAST OF BAYTOWN	11115	0901	9	12	HG	UI	RT	4	4	4			
CEDAR BAYOU TIDAL AT IH 10 EASTBOUND BRIDGE SOUTH OF MONT BELVIEU EAST SIDE OF BAYOU	11117	0901	9	12	HG	UI	RT	4	4	4			
CEDAR BAYOU ABOVE TIDAL 30 M DOWNSTREAM OF FM 1942 AT EAST BANK	11118	0902	9	12	HG	UI	RT	4	4	4	4		
CEDAR BAYOU ABOVE TIDAL 45 M DOWNSTREAM OF FM 1960 NORTHEAST OF HUFFMAN	11123	0902	9	12	HG	UI	RT	4	4	4	4		
MOSES BAYOU AT NORTHBOUND SH 146 BRIDGE AT MID-BRIDGE NORTH OF LA MARQUE	11400	2431A	24	12	HG	UI	RT	4	4	4			
HIGHLAND BAYOU AT FAIRWOOD ROAD IN LA MARQUE IN GALVESTON COUNTY	11415	2424A	24	12	HG	UI	RT	4	4	4			
MUSTANG BAYOU AT FM 2917 SOUTH OF ALVIN	11423	2432A	24	12	HG	UI	RT	4	4	4	4		
CEDAR CREEK AT FM 517 W OF DICKINSON	11434	1103E	11	12	HG	UI	RT	4	4	4	4		
GUM BAYOU AT FM 517 E OF DICKINSON	11436	1103D	11	12	HG	UI	RT	4	4	4			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
DICKINSON BAYOU TIDAL AT SH 146 BRIDGE EAST OF DICKINSON	11455	1103	11	12	HG	UI	RT	4	4	4			
DICKINSON BAYOU TIDAL AT IH 45	11462	1103	11	12	HG	UI	RT	4	4	4			
CHOCOLATE BAYOU TIDAL AT FM 2004 BRIDGE SOUTH OF ALVIN	11478	1107	11	12	HG	UI	RT	4	4	4			
OYSTER CREEK TIDAL AT THAT-WAY DRIVE 0.5 MILES BELOW FM 2004	11486	1109	11	12	HG	UI	RT	4	4	4			
OYSTER CREEK IMMEDIATELY DOWNSTREAM OF SH 35 WEST OF ANGLETON	11490	1110	11	12	HG	UI	RT	4	4	4	4		Added in FY 2020
OYSTER CREEK AT SIMS RD / BRAZORA CR 30 WEST OF ANGLETON	11491	1110	11	12	HG	UI	RT	12	4	4	12		Added in FY2019
OYSTER CREEK AT FM 1462 WEST OF ROSHARON	11493	1110	11	12	HG	UI	RT	12	4	4	12		Added in FY 2020
HARDEMAN SLOUGH IMMEDIATELY DOWNSTREAM OF ALLENHURST RD NE OF FM 2540 NEAR ALLENHURST COMMUNITY	12135	1305A	13	12	HG	UI	RT	4	4	4	4		
CANEY CREEK IMMEDIATELY UPSTREAM OF CONCRETE BRIDGE 210 M DOWNSTREAM OF LINVILLE BAYOU CONFLUENCE AND ADJACENT TO FM 521	12151	1304	13	12	HG	UI	RT	4	4	4			
CANEY CREEK AT SERGEANT JOE PARKS JR MEMORIAL HIGHWAY / FM 457 IN MATAGORDA COUNTY	12153	1305	13	12	HG	UI	RT	4	4	4	4		
WEST BAY OFFAT BAYOU MID BAYOU OPPOSITE LAKE MADELINE CANAL	13322	2424D	24	12	HG	UI	RT	4	4	4			
WEST BAY AT RANGE MARKER D BETWEEN SOUTH DEER ISLAND AND TEICHMAN POINT	14622	2424	24	12	HG	UI	RT	4	4	4			
OFFATTS BAYOU OFF CM 18	14645	2424D	24	12	HG	UI	RT	4	4	4			
HIGHLAND BAYOU AT FM 519	15941	2424A	24	12	HG	UI	RT	4	4	4			Added for FY2019. Ck if gage 08077710 is active.

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
CANEY CREEK ABOVE TIDAL IMMEDIATELY UPSTREAM OF FM 457 IN CITY OF CEDAR LANE	15951	1304	13	12	HG	UI	RT	4	4	4	4		Added for FY2019.
SAN BERNARD RIVER IMMEDIATELY DOWNSTREAM OF FM 3013 ON THE COLORADO-AUSTIN COUNTY LINE APPROXIMATELY 15KM SW OF SEALY	16370	1302	13	12	HG	UI	RT	4	4	4	4		
GEISLER BAYOU AT FM517 BRIDGE 0.19MI UPSTREAM OF DICKINSON BAYOU IN DICKINSON	16470	1103C	11	12	HG	UI	RT	4	4	4			
BENSONS BAYOU AT FM 517 / PINE DR IN DICKINSON	16471	1103A	11	12	HG	UI	RT	4	4	4			
MARYS CREEK AT MARYS CROSSING IN NORTH FRIENDSWOOD	16473	1102B	11	12	HG	UI	RT	4	4	4	4		
ROBINSONS BAYOU AT FM270 IN LEAGUE CITY	16475	1101D	11	12	HG	UI	RT	4	4	4			
HIGHLAND BAYOU 80 M NORTHEAST OF SH 6 BRIDGE CENTERPOINT IN BAYOU VISTA WEST OF IH 45 IN GALVESTON COUNTY	16488	2424A	24	12	HG	UI	RT	4	4	4			
MARCHAND BAYOU TIDAL AT FM519 IN HITCHCOCK	16490	2424C	24	12	HG	UI	RT	4	4	4			
HIGHLAND BAYOU AT FM 2004 IN HITCHCOCK IN GALVESTON COUNTY	16491	2424A	24	12	HG	UI	RT	4	4	4			
CHIGGER CREEK AT FM528 BRIDGE IN FRIENDSWOOD	16493	1101B	11	12	HG	UI	RT	4	4	4	4		
HIGHLAND BAYOU AT END OF BAYOU LANE FREDDIESVILLE	16562	2424A	24	12	HG	UI	RT	4	4	4			
LAKE MADELINE AT CORNER OF BELUCHE DRIVE AND DOMINIQUE DRIVE IN GALVESTON	16564	2424B	24	12	HG	UI	RT	4	4	4			
CLEAR CREEK TIDAL AT BROOKDALE DR APPROX 0.1MI DOWNSTREAM OF GRISSOM RD IN COUNTRYSIDE PARK IN CANOE LAUNCHING AREA IN LEAGUE CITY	16576	1101	11	12	HG	UI	RT	4	4	4			
MAGNOLIA CREEK AT W BAY AREA BLVD LEAGUE CITY APPROX 250 M UPSTREAM OF WWTP PERMIT WQ0010568-003	16611	1101A	11	12	HG	UI	RT	4	4	4	4		



Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
COWART CREEK 9 METERS UPSTREAM FROM CASTLEWOOD DRIVE BRIDGE IN FRIENDSWOOD	16677	1102A	11	12	HG	UI	RT	4	4	4	4		
HICKORY SLOUGH AT ROBINSON DRIVE IN PEARLAND	17068	1102C	11	12	HG	UI	RT	4	4	4	4		
CHOCOLATE BAY 200 M NORTHWEST OF HORSE GROVE POINT AND 5.1 KM DOWNSTREAM OF FM 2004	17086	2432	24	12	HG	UI	RT	4	4	4			
MOSES BAYOU AT SH 3 IN TEXAS CITY	17910	2431E	24	12	HG	UI	RT	4	4	4	4		
NEW BAYOU AT FM 2004 S/SW OF HITCHCOCK	17911	2432E	24	12	HG	UI	RT	4	4	4			
PERSIMMON BAYOU AT FM 2004 S/SW OF HITCHCOCK	17913	2432D	24	12	HG	UI	RT	4	4	4			
COW BAYOU AT NASA ROAD 1 IN WEBSTER 100 M EAST OF FM 270/EL CAMINO REAL	17928	1101C	11	12	HG	UI	RT	4	4	4			
AUSTIN BAYOU TIDAL AT FM 2004	18048	1105B	11	12	HG	UI	RT	4	4	4			
BASTROP BAYOU OFF BAYOU WOOD DR DUE EAST OF BRAZORIA CR 201 AT BASTROP BAYOU DR	18502	1105	11	12	HG	UI	RT	4	4	4			
BASTROP BAYOU TIDAL APPROXIMATELY 15 M OFF NORTH BANK AND 1.55 KM UPSTREAM OF FM 2004 IN RICHWOOD VILLAGE	18503	1105	11	12	HG	UI	RT	4	4	4			
BASTROP BAYOU TIDAL MID CHANNEL AT NORTH END OF BASTROP BEACH ROAD 350 M DOWNSTREAM OF FM 523 SE OF ANGLETON	18504	1105	11	12	HG	UI	RT	4	4	4			
BASTROP BAYOU TIDAL 38 M NORTH OF N END OF COMPASS DR/BRAZORIA CR 504 APPROXIMATELY 4.4 KM DOWNSTREAM OF FM 523 SE OF ANGLETON	18505	1105	11	12	HG	UI	RT	4	4	4			
AUSTIN BAYOU IMMEDIATELY UPSTREAM OF DANBURY-ANGLETON ROAD/BRAZORIA CR 210 EAST OF DANBURY	18506	1105C	11	12	HG	UI	RT	4	4	4	4		
FLORES BAYOU IMMEDIATELY UPSTREAM OF DANBURY-ANGLETON ROAD/BRAZORIA CR 210 EAST OF ANGLETON	18508	1105A	11	12	HG	UI	RT	4	4	4	4		

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
MUSTANG BAYOU IMMEDIATELY UPSTREAM OF EAST SOUTH STREET 85 METERS WEST OF SOUTHBOUND SH 35 IN ALVIN USGS ID 8077890	18554	2432A	24	12	HG	UI	RT	4	4	4	4		
UNNAMED TRIBUTARY OF CLEAR CREEK TIDAL IN FOREST PARK CEMETERY IMMEDIATELY UPSTREAM OF S FEEDER RD OF I 45/GULF FWY S OF NASA RD 1 IN WEBSTER	18591	1101F	11	12	HG	UI	RT	4	4	4	4		
UNNAMED TRIBUTARY OF MOSES LAKE AT STATE LOOP 197/25TH AVE NORTH 432 M EAST OF NORTHBOUND SH 146 IN TEXAS CITY	18592	2431C	24	12	HG	UI	RT	4	4	4			
HIGHLAND BAYOU DIVERSION CANAL MID CHANNEL AT SECOND STREET BRIDGE 467 M UPSTREAM OF PRICE ROAD WWTP RELEASE IN HITCHCOCK	18593	2424G	24	12	HG	UI	RT	4	4	4			
MARYS CREEK BYPASS AT EAST BROADWAY ST/FM 518 WEST OF SUNSET MEADOWS DR IN PEARLAND	18639	1102F	11	12	HG	UI	RT	4	4	4	4		
UNNAMED TRIB OF MARYS CREEK 8 M DOWNSTREAM OF THALERFIELD DR E OF OLD CHOCOLATE BAYOU RD/BRAZORIA CR 89 APPROX 300 M UPST SILVER LAKE WWTP	18636	1002G	11	12	HG	UI	RT	12	4	4	12		Add in FY2021. No sonde data unless collecting samples. Replaced site 21734 (Brushy Bayou)
WILLOW BAYOU AT BAKER ST 404 M UPSTREAM OF FM 2004 SOUTH OF SANTA FE IN GALVESTON COUNTY	18668	2432B	24	12	HG	UI	RT	4	4	4	4		
ENGLISH BAYOU MID BAYOU 250 M EAST AND 83 M SOUTH OF 61ST ST BRIDGE CENTERPOINT IN GALVESTON	18695	2424E	24	12	HG	UI	RT	4	4	4			
CLEAR CREEK ABOVE TIDAL AT YOST ROAD TERMINUS IN PEARLAND IN BRAZORIA COUNTY	20010	1102	11	12	HG	UI	RT	4	4	4	4		
SAN BERNARD RIVER TIDAL AT SH 35 SOUTHWEST OF WEST COLUMBIA	20460	1301	13	12	HG	UI	RT	4	4	4			

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
WEST BERNARD CREEK AT WHARTON CR 225 IN EAST OF HUNGERFORD	20721	1302B	13	12	HG	UI	RT	4	4	4	4		
PEACH CREEK AT WHARTON CR 117/CHUDALLA ROAD/ARCHER ROAD 89 METERS SOUTH OF THE INTERSECTION OF WHARTON CR 117/CHUDALLA ROAD/ARCHER ROAD AND WHARTON CR 121/WHARTON CR 119/DONALDSON ROAD IN EAST OF WHARTON	20722	1302D	13	12	HG	UI	RT	4	4	4	4		
MOUND CREEK AT BRAZORIA CR 450/JACKSON SETTLEMENT ROAD 1.22 KILOMETERS UPSTREAM OF FM 1301 IN WEST OF WEST COLUMBIA	20723	1302E	13	12	HG	UI	RT	4	4	4	4		
BORDENS GULLY AT SPRUCE DRIVE IN DICKINSON	20724	1103B	11	12	HG	UI	RT	4	4	4	4		
UNNAMED TRIBUTARY OF GUM BAYOU AT OWENS DRIVE 1.51 KILOMETERS UPSTREAM OF CONFLUENCE WITH GUM BAYOU IN DICKINSON	20728	1103G	11	12	HG	UI	RT	4	4	4			
CARY BAYOU IMMEDIATELY UPSTREAM OF RACCOON DRIVE BRIDGE IN BAYTOWN (Tidal)	21079	0901A	9	12	HG	UI	RT	4	4	4			Added to CMS for FY21. Replaced site 21734 (Brushy Bayou)
CHOCOLATE BAYOU IMMEDIATELY UPSTREAM OF BRAZORIA CR 171 / MUSTANG CHOCOLATE BAYOU ROAD IN LIVERPOOL	21178	1107	11	12	HG	UI	RT	4	4	4			
MUSTANG BAYOU AT THE HEIGHTS-MANVEL ROAD /CARDINAL DRIVE BRIDGE NEAR ALVIN	21416	2432A	24	12	HG	UI	RT	4	4	4	4		
UNNAMED TRIBUTARY OF BASTROP BAYOU TIDAL AT BRAZORIA CR 213 / SHELL ROAD 7.0 KILOMETERS EAST OF ANGLETON	21735	1105D	11	12	HG	UI	RT	4	4	4	4		
TURKEY CREEK AT BEAMER ROAD 1.5 KM SOUTHEAST OF FM 1959/DIXIE FARM ROAD IN FRIENDSWOOD	21925	1102D	11	12	HG	UI	RT	4	4	4	4		

Site Description	Station ID	Waterbody ID	Basin	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Comments
AUSTIN BAYOU TIDAL 1.60 KILOMETERS UPSTREAM OF THE CONFLUENCE WITH BASTROP BAYOU IN BRAZORIA COUNTY	22012	1105B	11	12	HG	UI	RT	4	4	4			Replaced site 18507 in FY2020.
ARMAND BAYOU TIDAL 100 METERS DOWNSTREAM OF CONFLUENCE WITH SPRING GULLY	22187	1113	11	12	HG	UI	RT	4	4	4			New site added for dropping 2 Jarbo Bayou sites in FY2020.
COTTON BAYOU 10 METERS UPSTREAM OF WESTBOUND IH-10 FRONTAGE ROAD IN MONT BELVIEU	22232	0801E	8	12	HG	UI	RT	12	12	12	12		Added to CMS for FY21. Field without 'grab' sonde measurements.
CHOCOLATE BAY 1.2 KM EAST OF WHARTON BAYOU AND 8.1 KM DOWNSTREAM OF FM 2004 **	17085	2432	24	12	HG	UI	RT	4	4	4			

\*\*In FY16, this became a field parameter station only unless EIH cannot collect a water sample from another regular station during quarterly monitoring. TKN & Chloro will never be collected in FY18.

## **Appendix C: FY2021 Station Location Map**

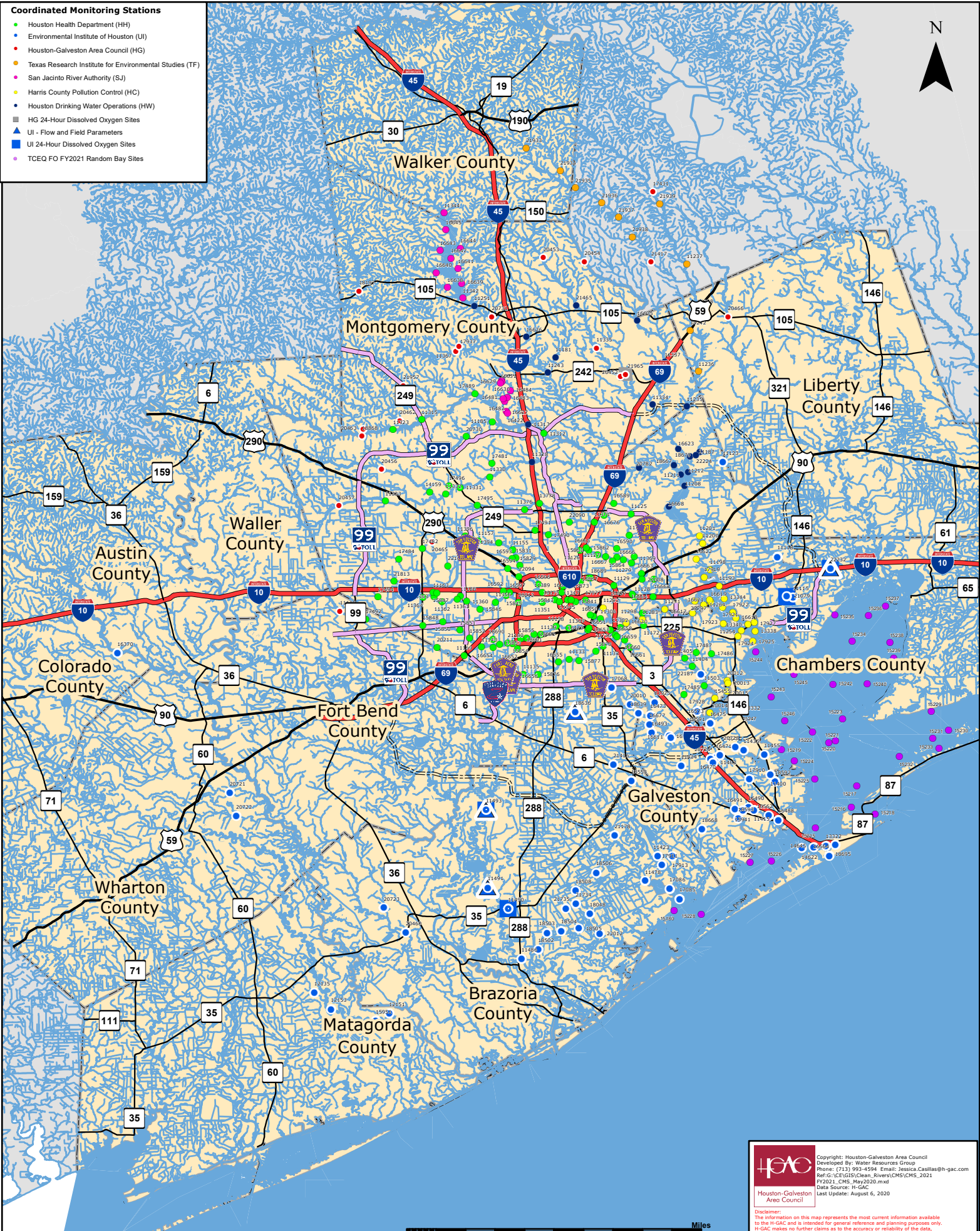
### ***Station Location Map***

A map of the stations monitored during FY2021 by the H-GAC and all subparticipants is provided below. The map was generated by H-GAC. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximately relative location of property boundaries. For more information concerning this map, contact Jessica Casillas at 713-993-4594 or Jean Wright at 713-499

# H-GAC's 2021 Regional Coordinated Monitoring Stations

## Coordinated Monitoring Stations

- Houston Health Department (HH)
- Environmental Institute of Houston (UI)
- Houston-Galveston Area Council (HG)
- Texas Research Institute for Environmental Studies (TF)
- San Jacinto River Authority (SJ)
- Harris County Pollution Control (HC)
- Houston Drinking Water Operations (HW)
- ▲ HG 24-Hour Dissolved Oxygen Sites
- ▲ UI - Flow and Field Parameters
- ▲ UI 24-Hour Dissolved Oxygen Sites
- TCEQ FO FY2021 Random Bay Sites



**H-GAC** Copyright: Houston-Galveston Area Council  
 Developed By: Water Resources Group  
 Phone: (713) 993-4594 Email: Jessica.Casillas@h-gac.com  
 Ref: C:\GIS\Clean\_Rivers\CHS\CHS\_2021  
 FY2021\_CMS\_May2020.mxd  
 Data Source: H-GAC  
 Last Update: August 6, 2020

Houston-Galveston Area Council

Disclaimer:  
 The information on this map represents the most current information available to the H-GAC and is intended for general reference and planning purposes only. H-GAC makes no further claims as to the accuracy or reliability of the data, and neither assumes, nor will accept liability for their use.

# HHD Field Sheet/COC Replacement page for Appendix D & E

Run No.: 7  
 Field No.: 5  
 Station ID: 17482  
 USGS Gage Station ID: 08072760

City of Houston  
 Houston Health Department  
 Bureau of Pollution Control and Prevention  
 7411 Park Place Blvd  
 832.393.5730 FAX 832-393-5726  
**FIELD FORM & CHAIN OF CUSTODY FORM**



Location Name: Langham Creek @ Hwy 6

Date: \_\_\_\_\_ Time (hhmm): \_\_\_\_\_ Samples Collected by: \_\_\_\_\_

Number of Days Since Last Rain Fall: \_\_\_\_\_ Field Meter #: \_\_\_\_\_ Calibration Date: \_\_\_\_\_

**FIELD OBSERVATIONS**

Flow Severity	Tidal Stage	Color	Odor	Water Surface	Current Weather	Wind Intensity
1 - no flow 2 - low 3 - normal 4 - flood 5 - high 6 - dry*	1 - low 2 - falling 3 - slack 4 - rising 5 - high	1 - brownish 2 - reddish 3 - greenish 4 - blackish 5 - clear 6 - other*	1 - sewage 2 - oily/chemical 3 - rotten egg 4 - musky 5 - fishy 6 - none 7 - other*	1 - calm 2 - ripples 3 - waves 4 - whitecaps	1 - clear 2 - partly cloudy 3 - cloudy 4 - rain 5 - other	1 - calm 2 - slight 3 - moderate 4 - strong

Flow Method	Flow (cfs)	Secchi Depth (cm)	Sample Depth (m)	Total Depth (m)

1 - flow-gauge station  
 3 - Doppler

**INSTRUMENT READINGS**

Temp (°C)	Conductivity (mS/cm)	pH (s.u.)	Salinity (PPT)	Dissolved Oxygen (mg/L)

(1.0 to 38.0°C)      (0.05 to 60 mS/cm)      (5.0 to 10.0 s.u.)      (0.009 to 45.0 PPT)      (0.5 to 15.0 mg/L)

**\*Other Observations:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Request for Analysis (circle what is requested)**

- 1 - pH                      5 - Cl<sup>-</sup>                      9 - N-NO<sub>2</sub>
- 2 - Conductivity        6 - SO<sub>4</sub>
- 3 - TSS                    7 - N-NH<sub>3</sub>                10 - *E. coli*
- 4 - N-NO<sub>3</sub>                8 - T-PO<sub>4</sub>                11 - Enterococcus

**No. of Containers:**

- \_\_\_ 100 mL sterile plastic                      \_\_\_ 1 gallon plastic
- \_\_\_ 1 L plastic                                      \_\_\_ 1 L plastic w/ H<sub>2</sub>SO<sub>4</sub>
- \_\_\_ 1 L plastic (TKN) bottle w/ H<sub>2</sub>SO<sub>4</sub> (Analyzed by H-GAC Contract Lab)

**For lab use only:**

Acid ID#: H <sub>2</sub> SO <sub>4</sub>	Samples Received on Ice? Yes / No	Thermometer ID: _____
	Temp (°C) _____	Corrected Temp (°C) _____
		Corrected Factor(°C) _____

Samples relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Lab Sample No.: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

FF&COC version 15 updated 07/2020

\*Note: If site is dry, photo should be taken. If water present within 400 m, and pool is 10+m long, and 0.4+m deep, collect sample and record Maximum pool width, depth, length, and percent pool coverage in 500 m reach (if measurable) in observations section.