

Appendix D: Field Data Sheets

H-GAC – Ambient Monitoring Data Sheet

Date: ____ / ____ / ____ Station: TCEQ ID: # 20452 – Caney Creek @ Fire Tower Rd, west of Woodbranch

Time (military): _____ Samples Collected by: _____

Total Water Depth at sampling location	meters		# of Days Since Last Significant Rainfall	
Sampling Depth	meters			
Water Temperature	°C			
Specific Conductance	µS/cm			
pH	standard units			
Dissolved Oxygen	mg/L			

Secchi disk or tube	Observed Turbidity	Water Clarity	Water Color	Water Odor	Present Weather	Wind Intensity	Water Surface	Flow Severity
meters	1 – low 2 – medium 3 – high	1 – excellent 2 – good 3 – fair 4 – poor	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 – clear 2 – partly cloudy 3 – cloudy 4 – raining 5 – other	1 – calm 2 – slight 3 – moderate 4 – strong	1 – calm 2 – ripples 3 – waves	1 – no flow 2 – low 3 – normal 4 – flood 5 – high 6 – dry

Flow Method	1 – gage 2 – electric 3 – mechanical 4 – weir/flume 5 – Doppler	
Flow Equipment	1 – M9 River Surveyor 2 – Flow Tracker 3 – OTT MF Pro	
Flow (Field)	cfs	
Flow (Post Processing)	cfs	

Maximum Pool Width	meters	
Maximum Pool Depth	meters	
Pool Length	meters	
Percent Pool Coverage in 500 meter Reach	%	
Comments or Observation		

Fresh (non-tidal)

Marine (tidal)

Containers	Preservatives	Analyses	Requested
1 x 1 L Plastic	Iced	TSS	
1 x 1 L Plastic	Iced, H ₂ SO ₄	NH ₃ , NO ₂ +NO ₃ , TPO ₄	
1 x 500 mL Plastic	Iced	CL, SO ₄ (fresh only), NO ₂ , NO ₃	
1 x 100 mL Sterile Plastic	Iced	Bacteria: <i>E. coli</i>	

Surveyor SN: _____ Sonde SN: _____

H-GAC – 24-Hour Dissolved Oxygen Monitoring Data Sheet

Station: TCEQ ID: # 21965 – Spring Branch downstream of Shakey Hollow west of Woodbranch Village

Deployment Date: / / Time (military): Deployed By

Deployed Sonde Serial Number/ID: Fresh (non-tidal) Tidal

Flow (CFS) Flow Method (USGS Gage = 1, ADP=5) Water samples collected? Yes No

Flow Severity: (1 – no flow; 2 – low; 3 – normal; 4 – flood; 5 – high; 6 – dry)

Retrieval Date: / / Time (military): Retrieved By

Flow (CFS) Flow Method (USGS Gage = 1, ADP=5) Water samples collected? Yes No

Data Check – Performed In Field At Time Of Retrieval

Date and Time of First Sample in Series DO of First Sample

Date and Time of Last Sample in Series DO of Last Sample

Series reviewed for depths < 0.00 and complete DO sequences of ≥ 0.00 (add comments below)

Data Collection Check Performed By Date Time

COMMENTS

Sonde Data Downloaded By Date Time

Flow Discharge Summary Reviewed and Printed by Date

Flow Entered in Ambient Database By Date

Even if NO water samples are collected, enter station ID, date, time, flow and flow method in the ambient monitoring database

Reviewed by QAO Date

QAO COMMENTS



Pollution Control Services Department
 101 S. Richey, Suite H
 Pasadena, TX 77506 Fax: 713-274-6475 Phone: 713-920-2831

Sample Data and Custody Record

Id: _____ Type: _____ Permit No: _____ Date: _____ Time _____ AM PM

Site Id: _____ Name: _____ Key Map: _____

Site Info: _____

Sample Location: _____ Outfall: _____

Sample Location Info: _____

Outcome: Collected Collected (sample compromised) Field Test Only No Flow

Investigator(s): _____

Tests and Measurements

Temperature (°C) Dissolved Oxygen (mg/L) Specific Conductivity (µS) Water Depth (meters)

pH (standard units) Salinity (ppt) SECCHI Disk Transparency (meters)

Field Observations--Water

Water Color 1-Brownish 2-Reddish 3-Greenish 4-Blackish 5-Clear 6-Other _____

Surface Conditions 1-Clear 2-Scum 3-Foam 4-Debris 5-Sheen

Water Odor 1-Sewage 2-Oily/Chemical 3-Rotten Egg 4-Musky 5-Fishy 6-None 7-Other _____

Turbidity 1-Low 2-Medium 3-High

Water Surface 1-Calm 2-Ripples 3-Waves 4-White Caps

Field Observations--Weather and Other

Present Weather 1-Clear 2-Partly Cloudy 3-Cloudy 4-Rain 5-Other _____

Wind Intensity 1-Calm 2-Slight 3-Moderate 4-Strong

Tide Stage 1-Low 2-Falling 3-Slack 4-Rising 5-High

89978 (Number of people observed)

Days Since Last Significant Rainfall Source: _____

89979 (Evidence of activity)

Matrix: Air Drinking Water Liquid Oil Other Solid Particulate Sludge Soil Water Other

Collection Method Grab Composite

Samples Collected:

Bottle No.	Container Type	Container Size	Preservative	Ice?	Analysis Requested	Direct Coll. Req.	Collection Type	Split	Sampled By
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	
				Y/N			D/I	Y/N	

Field No. _____

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



Date _____ Samples Collected By: _____

Run No. _____ Station ID _____ Time (24 hr) _____ Field Meter # _____

Stream Name & Intersecting Street _____

For lab use only:

FIELD OBSERVATIONS

Samples Received on Ice? Yes / No Thermometer ID: _____
Temp (°C) _____ Corrected Temp (°C) _____

Number of days since significant rainfall _____

Flow Severity	Tidal Stage	Color	Odor	Water Surface	Current Weather	Wind Intensity

- | | | | | | | |
|-------------|-------------|--------------|-------------------|---------------|-------------------|--------------|
| 1 - no flow | 1 - low | 1 - brownish | 1 - sewage | 1 - calm | 1 - clear | 1 - calm |
| 2 - low | 2 - falling | 2 - reddish | 2 - oily/chemical | 2 - ripples | 2 - partly cloudy | 2 - slight |
| 3 - normal | 3 - slack | 3 - greenish | 3 - rotten egg | 3 - waves | 3 - cloudy | 3 - moderate |
| 4 - flood | 4 - rising | 4 - blackish | 4 - musky | 4 - whitecaps | 4 - rain | 4 - strong |
| 5 - high | 5 - high | 5 - clear | 5 - fishy | | 5 - other | |
| 6 - dry* | | 6 - other* | 6 - none | | | |
| | | | 7 - other* | | | |

Flow Method	Flow (cfs)	Secchi Depth (cm)	Evidence of Primary Contact Recreation	# people observed	Sample Depth (ft)	Total Depth (ft)

- | | | |
|------------------------|------------------|--------|
| 1 - flow-gauge station | 1 - observed | 1 - 10 |
| 5 - Doppler | 0 - not observed | > 10 |

INSTRUMENT READINGS

Temp	Conductivity	Dissolved Oxygen (DO)	pH	Salinity

(1.0 to 38.0 °C) (0.03 to 60 mS/cm) (0.5 to 15.0 mg/L) (5.0 to 10.0) (.009 to 45.0 PSS)

***Other Observations:**

Request for Analysis (circle what is requested):

- | | | |
|------------------|-----------|-------------------|
| 1 - pH | 5 - Cl- | 9 - E. coli |
| 2 - Conductivity | 6 - SO4 | 10 - Enterococcus |
| 3 - TSS | 7 - N-NH3 | |
| 4 - N-NO3 | 8 - T-PO4 | |

No. of Containers:

- | | |
|------------------------------|---------------------------------------|
| _____ 100 mL sterile plastic | _____ 200 mL sterile plastic |
| _____ 1 L plastic | _____ 1 L plastic w/ H2SO4 |
| _____ 1 gallon plastic | _____ 1 L plastic(TKN) bottle w/H2SO4 |

Acid ID# H2SO4

Samples Relinquished By: _____ (signature only) Date: _____

Lab Sample No. _____ Received by: _____ (signature only) Date: _____



CITY OF HOUSTON
DRINKING WATER OPERATIONS LABORATORY
LAKE HOUSTON RECREATIONAL SITE MONITORING
FIELD SHEET & CHAIN OF CUSTODY

Effective Date: 05/18/2017

Document ID: 150

Version: 1.09

Date of Sampling: _____ Air Temperature: _____ Days Since Last Significant Rainfall: _____ Samples Collected By: _____

Sample Run Collected Monthly _____ Note: All samples taken at a one foot depth by plastic bucket unless specifically designated in 'Sample Depth' column below.

Sample No.	Station Name	TCEQ ID	Time	Sample Depth (ft)	Total Depth (ft)	Water Temp °C	Sp. Cond. µs/cm	pH	DO mg/L	Secchi Depth (m)	Flow Severity	Water Color	Water Odor	Present Weather	Wind Intensity	Water Surface	Primary Contact	Evidence of P.C.	
1	LAKE PATROL MARINA																		
2	RAILROAD BRIDGE MIDDLE OF LAKE	11208																	
3	LAKE SHADOWS MIDDLE OF LAKE	16668																	
4	DUESSEN PARK MARINA																		
5	WEST FORK MCKAY BRIDGE	11211																	
6	ATASCOCITA POINT	18867																	
7	KINGWOOD MARINA																		
8	WEST FORK Belleau Wood Dr.	20782																	
9	LUCES BAYOU WATER WONDERLAND	18670																	
10	TREASURE ISLAND MAGNOLIA PT.	16623																	
11	BJ'S MARINA																		
12	LAKE HOUSTON MARINA																		
13	EAST FORK MCKAY BRIDGE	11212																	

Comments: _____

Analysis Required: VOC, WQP, T-phos, Ammonia, Total Coliform, E. coli

Bottles used: 1-100ml sterilized bottle for Bacti analysis, 1-500ml plastic bottle for WQP analysis, 2-40ml VOA bottles with 1:1 HCl, 1-500 mL plastic bottle

**WQP analysis includes: pH, Cond., TSS, Alk, Hard, NO₂-N, NO₃-N, F, Cl, Br, SO₄

Temperature of Samples when Received at Lab: _____

Biol. Samples Relinquished By: _____ Date: _____ Time: _____

Biol. Samples Received By: _____ Date: _____ Time: _____

Chem. Samples Relinquished By: _____ Date: _____ Time: _____

Chem. Samples Received By: _____ Date: _____ Time: _____

Matrix: Water



**San Jacinto River Authority - Lake Conroe Division
LAKE CONROE MONITORING FIELD SHEET**

Effective Date: 8/20/2019

Date of Sampling: _____ Samples Collected By: _____ Days Since Last Significant Rainfall: _____

◆ Reservoir Stage (Feet above mean sea level): _____ ◆ Reservoir Percent Full: _____ ◆ Reservoir Accessibility Yes _____ No _____

Sample No.	Total Depth (ft)	Time	Sample Depth (ft)	Temp	Sp Cond	pH	D.O.	Present Weather	Wind Intensity	Water Surface	Water Color	Water Odor
1												
Station Name												
Walker County												
TCEQ ID												
11344												
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Secchi Depth (m) </div>												

Comments:

Sample No.	Total Depth (ft)	Time	Sample Depth (ft)	Temp	Sp Cond	pH	D.O.	Present Weather	Wind Intensity	Water Surface	Water Color	Water Odor
2												
Station Name												
T. James Creek												
TCEQ ID												
16645												
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Secchi Depth (m) </div>												

Comments:

Surveyor SN: _____ Sonde SN: _____ Sheet reviewed by: _____ Date: _____ Data entered by: _____ Date: _____ Data reviewed by: _____ Date: _____

**Water Quality Laboratory
San Jacinto River Authority**

Woodlands - Clean Rivers Program Field Sheet

Date of Sampling: _____ Samples Collected By: _____ Days Since Last Significant Rainfall: _____
 Reservoir Stage (FT above Mean Sea Level) _____ Reservoir Percent Full: _____

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity	Reservoir Accessible? Yes _____ No _____
LW # 1	Lake Woodlands # 1 - North end, downstream of Research Forest Dr.	16484									
			Sample Depth	Temp	Cond.	pH	D.O.				Comments:
			Surface								
			Mid-Depth								
			Bottom								

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity	Reservoir Accessible? Yes _____ No _____
LW # 2	Lake Woodlands # 2 - Mid point in lake	16483									
			Sample Depth	Temp	Cond.	pH	D.O.				Comments:
			Surface								
			Mid-Depth								
			Bottom								

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity	Reservoir Accessible? Yes _____ No _____
LW # 3	Lake Woodlands # 3 - Western reach near Meadow Cove & Pleasure Cove Drives	16481									
			Sample Depth	Temp	Cond.	pH	D.O.				Comments:
			Surface								
			Mid-Depth								
			Bottom								

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Secchi Depth (m)	Water Color	Water Odor	Present Weather	Water Surface	Wind Intensity	Reservoir Accessible? Yes _____ No _____
LW # 4	Lake Woodlands # 4 - South end, near West end of dam	16482									
			Sample Depth	Temp	Cond.	pH	D.O.				Comments:
			Surface								
			Mid-Depth								
			Bottom								

Present Weather: 1 = clear, 2 = partly cloudy, 3 = cloudy, 4 = rain, 5 = other
 Water Color: 1 = brownish, 2 = reddish, 3 = greenish, 4 = blackish, 5 = clear, 6 = other
 Water Odor: 1 = sewage, 2 = oily / chemical, 3 = rotten egg, 4 = musky, 5 = none, 6 = fishy, 7 = other

Water Surface: 1 = calm, 2 = ripples, 3 = waves
 Wind Intensity: 1 = calm, 2 = slight, 3 = moderate, 4 = strong

Surveyor SN: _____ Sonde SN: _____ Sheet reviewed by: _____ Date: _____
 Data entered by: _____ Date: _____ Data Reviewed by: _____ Date: _____

**Water Quality Laboratory
San Jacinto River Authority**

Woodlands - Clean Rivers Program Field Sheet

Date of Sampling: _____ Samples Collected By: _____ Days Since Last Significant Rainfall: _____

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
LPB # 2	Lower PB (footbridge) upstream of Sawdust Rd. & WWTP #1	16627												
Comments:														

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
LPB # 3	Panther Branch - 295 M downstream of Sawdust Rd.	16422												
Comments:														

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
UPB # 3	Bear Branch upstream of Research Forest Dr. 20 M	16631												
Comments:														

Gage 8068400 Reading= CFS

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
UPB # 1	Upper Panther Branch - 80 M upstream of WWTP #2 on Research Forest Dr.	16629												
Comments:														

Sample No.	Station Name	TCEQ ID	Time	Total Depth (ft)	Trans Tube (m)	Water Color	Water Odor	Present Weather	Sample Depth	Temp	Cond.	pH	D.O.	Flow Severity
UPB # 2	Upper PB (footpath) - 170 M downstream of WWTP #2 on Research Forest Dr.	16630												
Comments:														

Water Color: 1 = brownish, 2 = reddish, 3 = greenish, 4 = blackish, 5 = clear, 6 = other
 Present Weather: 1 = clear, 2 = partly cloudy, 3 = cloudy, 4 = rain, 5 = other

Water Odor: 1 = sewage, 2 = oily / chemical, 3 = rotten egg, 4 = musky, 5 = fishy, 6 = none, 7 = other
 Flow Severity: 1 = no flow, 2 = low, 3 = normal, 4 = flood, 5 = high, 6 = dry

Surveyor SN: _____ Sonde SN: _____ Sheet reviewed by: _____ Date: _____ Data enter by: _____ Date: _____ Data Reviewed by: _____ Date: _____



**Environmental Institute of Houston, University of Houston-Clear Lake
Clean Rivers Program Field Datasheet**

Station ID: _____ Date (mm/dd/yyyy): _____ Sample Time (hh:mm): _____
 Location: _____ Lat: _____ Long: _____
 Collected By (First initial, last name): _____

FIELD MEASUREMENTS If depth <0.5: take one measurement at 1/3 total depth. If ≥ 0.5 but < 1.5: take one measurement at 0.3m from surface
 If ≥ 1.5m deep - perform profile at 0.3m from bottom, middle, and 0.3m from surface
 If ≥ 3m deep take profile at 0.3m from bottom, then every whole meter until 0.3m from surface (eg: 4.2 = 3.9m, 3m, 2m, 1m, 0.3m)

	1	2	3	4	5	6
Temp (C)						
Conductivity (uS)						
Salinity (psu)						
DO (%sat)						
DO mg/L						
pH						
Depth (m)						

FIELD OBSERVATIONS

<input type="text"/> TOTAL DEPTH (m)	<input type="text"/> FLOW SEVERITY	1-no flow 2-low 3-normal 4-flood 5-high 6-dry
<input type="text"/> WATER ODOR 1-sewage 2-oily/chemical 3-rotten egg 4-musky 5-fishy 6-none 7-other	<input type="text"/> FLOW (cfs)	
<input type="text"/> WATER SURFACE 1-calm 2-ripples 3-waves 4-whitecap	<input type="text"/> FLOW METHOD	1-gage 2-electric 3-mechanical 4-weir/flume 5-doppler
<input type="text"/> WIND INTENSITY 1-calm 2-slight 3-moderate 4-strong	<input type="text"/> SECCHI DISK appear (m)	
<input type="text"/> WATER COLOR 1-brownish 2-reddish 3-greenish 4-blackish 5-clear 6-other	<input type="text"/> SECCHI DISK disappear (m)	
<input type="text"/> DAYS SINCE LAST SIG. RAINFALL	<input type="text"/> RECREATIONAL USE	1=1° observed, 2=2° observed, 3=non-contact observed, 4=1° evidence, 5=2° evidence, 6=non- contact evidence, 7=no evidence
<input type="text"/> PRESENT WEATHER 1-clear 2-partly cloudy 3-cloudy 4-rain 5-other	<input type="text"/> TIDE STAGE	1-low 2-falling 3-slack 4-rising 5-high

WATER SAMPLES

FRESH (Non-Tidal) *E. coli* **MARINE** (Tidal) *Enterococcus*

Container	Preservative	Analysis Requested	Comments

ADDITIONAL INFORMATION & REMARKS

* If site has isolated pools (> 10 m in length and 0.4m deep) record:
 Lat _____ Long _____ of largest pool in reach. Maximum pool width _____ (m), Maximum pool depth _____ (m), Pool
 length _____ (m), and percent pool coverage in 500m reach _____ %.

Texas Research Institute for Environmental Studies - Sam Houston State University
Clean Rivers Program Field Data/Sampling Sheet

Station ID: _____ Date: _____ Sample Time: _____
 Location: _____ Lat: _____ Long: _____
 Collected By: _____

FIELD MEASUREMENTS (If < 1.5m deep - record @ 0.3m from surface; If ≥ 1.5m deep - perform profile @ 0.3m from bottom, @ middle, and @ 0.3m from surface)

	1	2	3	4	5
Temp (C)					
Conductivity (uS)					
Salinity (psu)					
DO (%sat)					
DO mg/L					
pH					
Depth (m)					

FIELD OBSERVATIONS

<input type="text"/> TOTAL DEPTH (m)	<input type="text"/> PRESENT WEATHER	1-clear 2-partly cloudy 3-cloudy 4-rain 5-other
<input type="text"/> WATER ODOR 1-sewage 2-oily/chemical 3-rotten egg 4-musky 5-fishy 6-none 7-other	<input type="text"/> FLOW SEVERITY	1-no flow 2-low 3-normal 4-flood 5-high 6-dry
<input type="text"/> WATER SURFACE 1-calm 2-ripples 3-waves 4-whitecap	<input type="text"/> FLOW (cfs)	
<input type="text"/> WIND INTENSITY 1-calm 2-slight 3-moderate 4-strong	<input type="text"/> FLOW METHOD	1-gage 2-electric 3-mechanical 4-weir/flume 5-doppler
<input type="text"/> WATER COLOR 1-brownish 2-reddish 3-greenish 4-blackish 5-clear 6-other	<input type="text"/> SECCHI DISK (m)	
<input type="text"/> TIDE STAGE 1-low 2-falling 3-slack 4-rising 5-high	<input type="text"/> RECREATIONAL USE	1=1° observed, 2=2° observed, 3=non-contact observed, 4=1° evidence, 5=2° evidence, 6=non- contact evidence, 7=no evidence
<input type="text"/> DAYS SINCE LAST SIG. RAINFALL	<input type="text"/> Primary Contact Rec. Observed (enter number of people)	
	<input type="text"/> Evidence of Primary Contact Rec. Observed	0= no evidence observed, 1= evidence observed

WATER SAMPLES

FRESH (Non-Tidal) **MARINE** (Tidal) Field Split Collected (yes/no)
 E. coli *Enterococcus*

Container	Preservative	Analysis Requested	Comments
2 x 1L - Plastic	Ice	TSS	
2 x 1L - Plastic	Ice, 2 mL H ₂ SO ₄ added	NH ₃ , TPO ₄ , NO ₂ +NO ₃	
2 x 500ml - Plastic	Ice, 1 mL H ₂ SO ₄ added	TKN	
2 x 500ml - Plastic	Ice	Cl, SO ₄ (fresh water only)	
2 x 4L - Plastic (amber)	Ice	Chlorophyll-a (select sites)	
1 x 100ml - Plastic	Ice, Na ₂ S ₂ O ₃ tablet	Bacteria (Entero and/or <i>E. coli</i>)	

ADDITIONAL INFORMATION & REMARKS

* If site is dry, determine if there is any pool with 500m reach. If pool(s) exists (> 10 m in length and 0.4m deep) record: Lat _____ Long _____ of largest pool in reach
 Maximum pool width _____(m), Maximum pool depth _____(m), Pool length _____(m), and percent pool coverage in 500m reach _____%.