

Amendment #2 Update to Appendix B Sampling Process Design and Monitoring Schedule to the Cypress Creek Basin Planning Agency Clean Rivers Program FY 2016/2017 QAPP

***Prepared by the Cypress
Creek Basin Planning Agency in
Cooperation with the Texas Commission
on Environmental Quality (TCEQ)***

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 the basin-wide Quality Assurance Project Plan to update Appendix B for Fiscal Year 2017.

Summary of Changes

The following information in Appendix B is amended to reflect changes to:

- Sample design rationale FY 2017
- Monitoring Sites table with updated legends
- Maps of sampling sites

Detail of Changes

- Three sampling sites were added.
 - Kitchen Creek at Marion CR 3416 (Station ID 14998) was added to collect field parameters on a quarterly basis in order to examine low dissolved oxygen concerns and provide new data for the assessment of the stream. The stream is too deep to wade to measure flow.
 - Prairie Creek at FM 557 (Station ID 15836) was added to collect 24-hour dissolved oxygen parameters on a quarterly basis along with supporting data of field parameters and flow.
 - Little Cypress Creek at FM 134 (Station ID 10331) was added to collect 24-hour dissolved oxygen parameters on a quarterly basis along with supporting data of field parameters and flow to address 24-hour dissolved oxygen average and minimum listings.
- Two sites had parameter lists changed.
 - James Bayou at Cass CR 1775 (Station ID 10321) was enhanced to increase the frequency of conventional chemistry from 2 to 4 events; bacteria, flow, and field remain at a frequency of 4 events.
 - Black Cypress Bayou near Berea (Station ID 10244) was expanded to include quarterly bacteria and conventional chemistry sampling were added to the existing field parameters and flow measurements
- Two sites were transferred to TCEQ Region 5:
 - South Lilly Creek at FM 2454 (Station ID 17954) monitoring responsibilities were transferred to TCEQ Region 5 to better utilize available resources.
 - Black Cypress Bayou at SH 155 (Station ID 10246) monitoring responsibilities were transferred to TCEQ Region 5 to better utilize available resources.

Sample Design Rationale FY 2017

Monitoring Sites Table

The attached monitoring Table B1.1 in Appendix B is added to reflect monitoring for FY 2017.

Maps

The attached maps are added to Appendix C to reflect monitoring sites for FY 2017.

Appendix B Sampling Process Design and Monitoring Schedule (plan)

Sample Design Rationale FY 2017

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 Cypress Creek Basin Planning Agency coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

The following changes or additions have been made to the monitoring schedule. These changes have come about because of concerns or requests of steering committee members or monitoring entities.

1. Kitchen Creek at Marion CR 3416 (Station ID 14998) was added to collect field parameters on a quarterly basis in order to examine low dissolved oxygen concerns and provide new data for the assessment of the stream. The stream is too deep to wade to measure flow.
2. Prairie Creek at FM 557 (Station ID 15836) was added to collect 24-hour dissolved oxygen parameters on a quarterly basis along with supporting data of field parameters and flow.
3. Little Cypress Creek at FM 134 (Station ID 10331) was added to collect 24-hour dissolved oxygen parameters on a quarterly basis along with supporting data of field parameters and flow to address 24-hour dissolved oxygen average and minimum listings.
4. Black Cypress Bayou near Berea (Station ID 10244) was expanded to include quarterly bacteria and conventional chemistry sampling were added to the existing field parameters and flow measurements.
5. James Bayou at Cass CR 17755 (Station ID 10321) was enhanced to increase the frequency of conventional chemistry from 2 to 4 events; bacteria, flow, and field remain at a frequency of 4 events.
6. South Lilly Creek at FM 2454 (Station 17954) and Black Cypress Bayou at SH 155 (Station 10246) monitoring responsibilities were transferred to TCEQ Region 5 to better utilize available resources.

Monitoring Sites for FY 2017

The sample design for SWQM is shown in Table B1.1 below.

Table B1.1 Sample Design and Schedule, FY 2017

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24-hour DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments	
CADDO LAKE 0.25 MI NE OF THE MOUTH OF HARRISON BAYOU AND 0.35 MI EAST OF LONG POINT	10286	0401	5	NT	CL	RT															11	CLI Monthly Sampling Program	
CADDO LAKE IN GOOSE PRAIRIE SOUTH OF STAR DITCH 500 M SOUTHEAST OF END OF FM 2198	10288	0401	5	NT	CL	RT																11	CLI Monthly Sampling Program
CADDO LAKE MID LAKE 1.8 KM SOUTH OF END OF FM 727 1.9 KM NORTHWEST OF COLLIERS LAUNCH CAMS707	10283	0401	5	NT	WM	RT									4			4				11	CLI Monthly Sampling Program
CADDO LAKE NEAR SHORE AT END OF FM 2198 AT DWIGHT SHELLMANS PROPERTY SE OF UNCERTAIN	15249	0401	5	NT	WM	RT									4			4				11	CLI Monthly Sampling Program
CLINTON LAKE 165 METERS NORTH AND 1.09 KILOMETERS EAST TO THE INTERSECTION OF CYPRESS VILLAGE ROAD AND CYPRESS VILLAGE SOUTH AT CHANNEL MARKER C111 NEAR CADDO LAKE	14236	0401	5	NT	WM	RT																11	CLI Monthly Sampling Program
HARRISON BAYOU AT FM 134 4 MI SOUTH OF KARNACK	15508	0401A	5	NT	WM	RT									4			4	4			4	Flow measured when wadeable
KITCHEN CREEK AT MARION CR3416 APPROXIMATELY 10 MI E. OF JEFFERSON AND 2.5 MI S OF INTERSECTION OF CR3416 AND SH49 EAST OF SMITHLAND	14998	0401B	5	NT	WM	RT																4	too deep to wade for flow
BIG CYPRESS CREEK APPROX 1.2KM DOWNSTREAM OF SH43 AT CADDO LAKE STATE PARK BOAT RAMP	15022	0402	5	NT	CL	RT													11			11	CLI Monthly Sampling Program; Flow from USGS gage
HUGHES CREEK AT SH155 APPROX 6KM NE OF AVINGER	16936	0402B	5	NT	WM	RT																4	too deep to wade for flow

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24-hour DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments	
KELLEY CREEK AT FM250 APPROX 15KM NE OF HUGHES SPRINGS	16934	0402E	5	NT	WM	RT													4		4		
TANKERSLEY CREEK AT FM3417 5.7 KM SOUTH OF MOUNT PLEASANT	10261	0404B	5	NT	WM	RT									4			4	4		4		
HART CREEK AT TITUS COUNTY ROAD SE 12 3.8 KM UPSTREAM OF BIG CYPRESS CREEK CONFLUENCE SOUTH OF MOUNT PLEASANT	10266	0404C	5	NT	WM	RT									4			4	4		4		
DRY CREEK AT CAMP COUNTY ROAD/McMINN RD 1.4 KM NORTH OF FM 557/McMINN RD INTERSECTION 5 KM EAST OF PITTSBURG	10274	0404E	5	NT	WM	RT									4			4	4		4		
SPARKS BRANCH AT CR4220 4.6 KM EAST OF PITTSBURG	10276	0404F	5	NT	WM	RT									4			4	4		4	Flow measured when wadeable	
PRAIRIE CREEK AT FM 557 7.4 MI SW OF PITTSBURG	15836	0404J	5	NT	WM	BS	4												4		4		
BIG CYPRESS CREEK AT SH 37 4.6 MI NORTH OF WINNSBORO	15260	0405A	5	NT	WM	RT									4			4	4		4	Flow will be measured when wadeable	
JAMES BAYOU AT CASS CR 1775 1.6 MI SW OF KILDARE	10321	0407	5	NT	WM	BS	4												4		4	Flow will be measured when wadeable	
JAMES BAYOU AT CASS CR 1775 1.6 MI SW OF KILDARE	10321	0407	5	NT	WM	RT									4			4	4		4	Flow will be measured when wadeable	
JIMS BAYOU AT SH43 APPROXIMATELY 12 MI NE OF JEFFERSON AND 1.0 MI SOUTH OF KILDARE JUNCTION ON SH43	14976	0407	5	NT	WM	BS	2	2	2	2										2			
JIMS BAYOU AT SH43 APPROXIMATELY 12 MI NE OF JEFFERSON AND 1.0 MI SOUTH OF KILDARE JUNCTION ON SH43	14976	0407	5	NT	WM	RT									4			4	4		4		
LITTLE CYPRESS CREEK AT FM 134 NW OF BALDWIN SE OF JEFFERSON	10331	0409	5	NT	WM	BS	4												4		4	Flow from USGS gage at US 59	
LILLY CREEK AT FM 556 APPROXIMATELY 1.04 KM SOUTHWEST OF HICKORY HILL IN CAMP COUNTY TEXAS	20153	0409A	5	NT	WM	RT									4			4			4	Too deep to wade for flow measurement	

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24-hour DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
BLACK CYPRESS BAYOU AT COUNTY ROAD 3.7 MILES NORTHWEST OF BERE A	10244	0410	5	NT	WM	BS	4												4		4	Flow will be measured when wadeable
BLACK CYPRESS BAYOU AT COUNTY ROAD 3.7 MILES NORTHWEST OF BERE A	10244	0410	5	NT	WM	RT									4			4	4		4	

Critical vs. non-critical measurements

All data collected under this QAPP and entered into SWQMIS are considered critical.

Appendix C: Station Location Maps

Station Location Map

A Map of stations monitored by the Cypress Creek Basin Planning Agency is provided on the following page. The map was generated by the Cypress Creek Basin Planning Agency. This product is for informational purposes and was not prepared for or to be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map, contact Randy Rushin at (903) 439-4741.

FY 2017 Cypress Creek Basin Station Location Map

