Amendment #1

Update to the Sulphur River Basin Authority Clean Rivers Program FY 2024/2025 QAPP

Prepared by the Sulphur River Basin Authority 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 language regarding limits of quantitation (LOQs) in Sections A7 and B5, and updates to Appendix B for the fiscal year 2025 monitoring schedule. This document also updates SRBA and WMS personnel changes in Section A.

Summary of Changes

Section	Sub-section/ Figure/Table	Page(s) in Basin-wide QAPP	Change	Justification	Affected Entity	Page(s) in this Amendment
A1	Section A1	3	Replaced Nancy Rose with David Weidman as SRBA Project Manager	Personnel changes at SRBA	SRBA	5
		3	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	5
A3	Section A3	8	Updated address for SRBA	SRBA address change	SRBA	7
		8	Replaced Nancy Rose with David Weidman as SRBA Project Manager	Personnel changes at SRBA	SRBA	7
		8	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	7
A4	Section A4	11	Replaced Nancy Rose with David Weidman as SRBA Project Manager	Personnel changes at SRBA	SRBA	8
		11–12	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	8
A4	Figure A4.1	14	Replaced Nancy Rose with David Weidman as SRBA Project Manager	Personnel changes at SRBA	SRBA	9
		14	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	9

Section	Sub-section/ Figure/Table	Page(s) in Basin-wide QAPP	Change	Justification	Affected Entity	Page(s) in this Amendment
A7	Ambient Water Reporting Limits (AWRLs)	18	Modified language concerning allowable LOQs.	To adjust language used in current CRP QAPPs that does not align with TCEQ CRP's stance on allowable LOQs.	LCRA ELS, NTMWD Lab	10
B5	Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions	33	Modified language concerning allowable LOQs.	To adjust language used in current CRP QAPPs that does not align with TCEQ CRP's stance on allowable LOQs.	LCRA ELS, NTMWD Lab	11
Appendix B	Sample Design Rationale	62	Updated fiscal year throughout from 2024 to 2025. Added detail of changes to monitoring program for FY 2025	Changes to Appendix B in this amendment are to reflect FY 2025 monitoring, not FY 2024 monitoring.	SRBA / WMS	12–13
Appendix B	Table B1.1	64	Updated Table B1.1 to reflect modifications to sampling design for FY 2025 design for the new fiscal year (2025).	SRBA sampling design changed from FY 2024 to FY 2025 based on the recommendations by the Coordinated Monitoring Committee	SRBA / WMS	14–16
Appendix C	Appendix C	66	Updated maps of monitoring stations to reflect modifications to sampling design for FY 2025.	SRBA monitoring stations were added and dropped based on the recommendations by the Coordinated Monitoring Committee.	SRBA / WMS	17–18

Replaces page 2 of the FY 2024–2025 CRP QAPP

Distribution

This QAPP amendment will be distributed by the Sulphur River Basin Authority via email to all personnel on the distribution list (section A3 of the QAPP).

These changes will be incorporated into the QAPP document and TCEQ and the Sulphur River Basin Authority will acknowledge and accept these changes by approving the final amendment draft electronically via email.

Texas Commission on Environmental Quality

Water Quality Planning Division

Electronically Approved	8/15/2024
Sarah Whitley, Team Leader Water Quality Standards and Clean Rivers Program	Date

Electronically Approved	8/5/2024
Lawrence Grant Bassett Project Quality Assurance Specialist Clean Rivers Program	Date

Electronically Approved	8/15/2024
Jenna Wadman, Project Manager Clean Rivers Program	Date

Electronically Approved	8/2/2024
Cathy Anderson, Team Leader Data Management and Analysis	Date

Monitoring Division

Electronically Approved	8/15/2024
Jason Natho Acting Lead CRP Quality Assurance Specialist	Date

Replaces page 3 of the FY 2024–2025 CRP QAPP

Sulphur River Basin Authority (SRBA)

Electronically Approved 8/5/2024

David Weidman ~~Nancy Rose~~ Date
SRBA Executive Director and Project Manager

Water Monitoring Solutions, Inc. (WMS)

Electronically Approved 8/2/2024

Randy Rushin Date
WMS Project Manager

Electronically Approved 8/2/2024

Ryan Seymour ~~Shelby Bessette~~ Date
WMS Data Manager

Electronically Approved 8/2/2024

Angela Kilpatrick Date
WMS Quality Assurance Officer

Electronically Approved 8/2/2024

Dr. Roy Darville Date
WMS Data Collection Supervisor

North Texas Municipal Water District (NTMWD)

Electronically Approved 8/2/2024

Kristen Suprobo Date
NTMWD Project Manager

Electronically Approved 8/2/2024

Katie McElroy Date
NTMWD Quality Assurance Officer

Electronically Approved 8/2/2024

Robert Huffman Date
NTMWD Field Supervisor

Electronically Approved 8/15/2024

Kelly Harden Date
NTMWD Laboratory Manager

Replaces page 4 of the FY 2024–2025 CRP QAPP

Lower Colorado River Authority Environmental Services Laboratory (LCRA ELS)

Electronically Approved	8/2/2024
Dale Jurecka	Date
LCRA ELS Laboratory Manager	

Electronically Approved	8/5/2024
Jason Woods	Date
LCRA ELS Project Manager	

Electronically Approved	8/2/2024
Angel Mata	Date
LCRA ELS Quality Manager	

Modifies specific text from page 8 of the FY 2024–2025 CRP QAPP

Detail of Changes

Red font = change by TCEQ CRP Project QA Specialist
Green highlighting = change by NETMWD/WMS
~~Strikethrough font~~ = deletion of text from QAPP document

A3 Distribution List

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Modifies specific text from pages 11–12 of the FY 2024–2025 CRP QAPP

A4 Project Task/Organization

Description of Responsibilities

David Weidman ~~***Nancy Rose***~~
SRBA ***Executive Director and*** ***Project Manager***

Responsible for implementing and monitoring CRP requirements in contracts, QAPPs, and QAPP amendments and appendices. Coordinates basin planning activities and work of basin partners. Conducts monitoring systems audits of WMS to ensure QAPPs are followed. Ensures that sub-participants are qualified to perform contracted work. Ensures CRP PMs and/or QA Specialists are notified of deficiencies and corrective actions, and that issues are resolved. Responsible for maintaining records of QAPP distribution, including appendices and amendments. Responsible for maintaining written records of sub-tier commitment to requirements specified in this QAPP. Maintains access to quality-assured data on SRBA internet sites. Mr. Weidman ~~Ms. Rose~~ will provide coordination and cooperation between the project partners, stakeholders, and WMS.

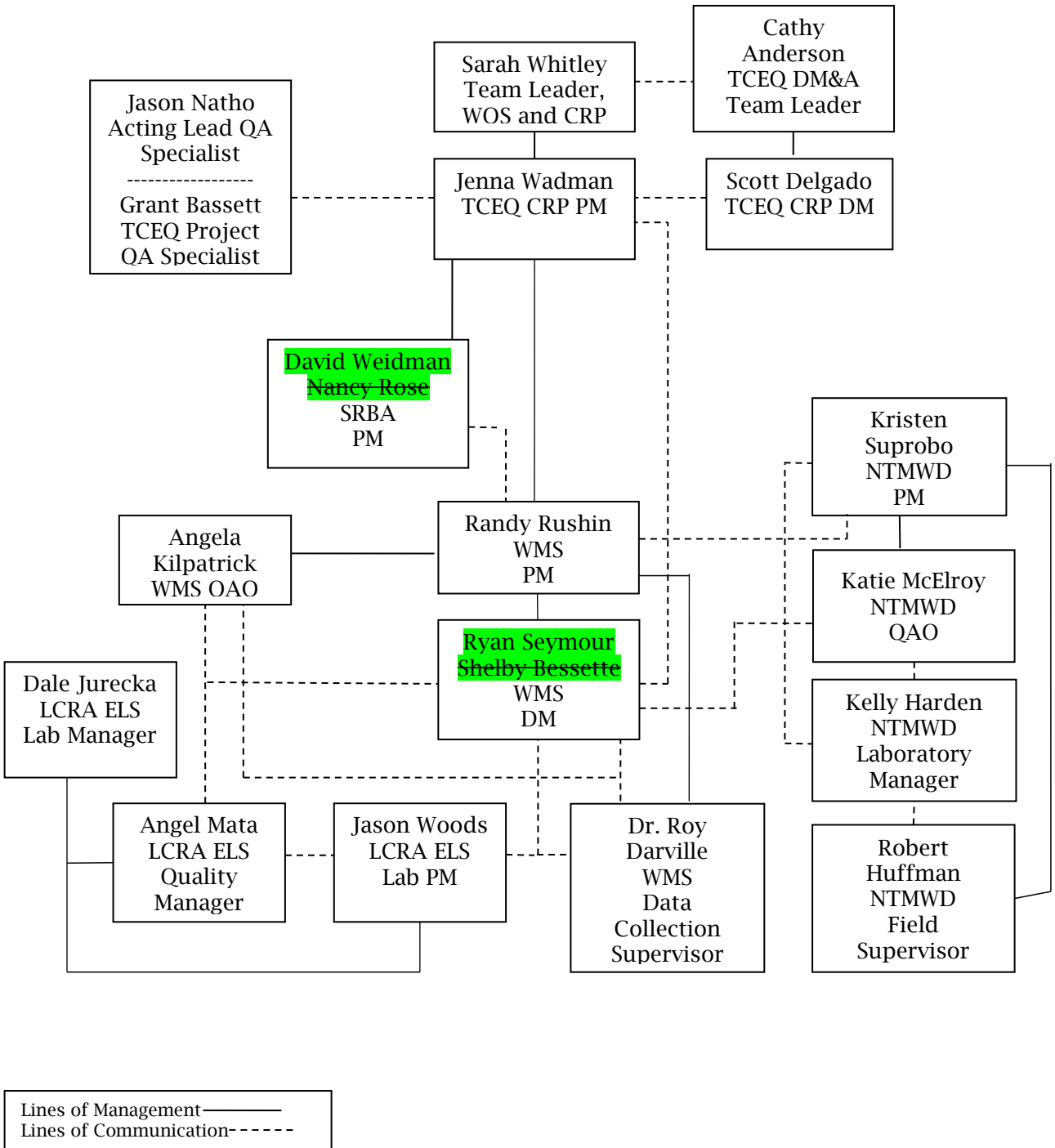
Ryan Seymour ~~***Shelby Bessette***~~
WMS Data Manager

Responsible for the transfer of basin quality-assured water quality data in a format compatible with SWQMIS. Assists QAO with identifying, receiving, and reviewing project QA records. Assists WMS QAO in coordinating with the TCEQ PM to resolve QA-related issues. Notifies the WMS PM of particular circumstances which may adversely affect the quality of data. Assists QAO with deficiencies, non-conformances and corrective actions, coordinates and reviews records of data verification and validation. Review data from monitoring events and provide data quality comments to the WMS PM. Responsible for ensuring that field and lab data are properly reviewed and verified.

Replaces page 14 of the FY 2024–2025 CRP QAPP

Project Organization Chart

Figure A4.1. Organization Chart – Lines of Communication



Modifies specific text from page 18 of the FY 2024–2025 CRP QAPP

A7 Quality Objectives and Criteria

Ambient Water Reporting Limits (AWRLs)

For surface water to be evaluated for compliance with Texas Surface Water Quality Standards ("TSWQS") and screening levels, data must be reported at or below specified reporting limits. To ensure data are collected at or below these reporting limits, required ambient water reporting limits ("AWRL") have been established. A full listing of AWRLs can be found at https://www.tceq.texas.gov/assets/public/waterquality/crp/QA/awrlmaster.pdf .

The limit of quantitation (LOQ) is the minimum reporting limit, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence by the laboratory analyzing the sample. Analytical results shall be reported down to the laboratory's LOQ (i.e., the laboratory's LOQ for a given parameter is its reporting limit) as specified in Appendix A.

The following requirements must be met in order to report results to the CRP:

- The laboratory's LOQ for each analyte must be set at or below the AWRL.
- Once the LOQ is established in the QAPP, that is the reporting limit for that parameter until such time as the laboratory amends the QAPP and lists an updated LOQ.
- The laboratory must demonstrate its ability to quantitate at its LOQ for each analyte by running an LOQ check sample for each analytical batch of CRP samples analyzed.
- ~~When reporting data, no results~~ Under reasonable circumstances (e.g., the use of a subcontracted lab), data may be reported above or below the LOQ stated in this QAPP, so long as the LOQ remains at or below the AWRL stated in this QAPP.
- Measurement performance specifications for LOQ check samples are found in Appendix A.

Laboratory Measurement Quality Control Requirements and Acceptability Criteria are provided in Section B5.

Modifies specific text from page 33 of the FY 2024–2025 CRP QAPP

B5 Quality Control

Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions

Sampling QC excursions are evaluated by the WMS and SRBA PMs, in consultation with the WMS QAO. In that differences in sample results are used to assess the entire sampling process, including environmental variability, the arbitrary rejection of results based on pre-determined limits is not practical. Therefore, the professional judgment of the WMS PM and WMS QAO will be relied upon in evaluating results. Field blanks for trace elements and trace organics are scrutinized very closely. Field blank values exceeding the acceptability criteria will automatically invalidate the sample. Notations of blank contamination are noted in the data summaries that accompany data deliverables.

Laboratory measurement quality control failures are evaluated by the laboratory staff. The disposition of such failures and the nature and disposition of the failure is reported to the appropriate laboratory's manager. The laboratory QM or QAO will discuss the failure with the organization's PM. The WMS PM, in consultation with the WMS QAO and SRBA PM, will make the determination to issue a CAP. The WMS QAO will include this information in a CAP. The WMS PM will submit the CAP with the Progress Report which is sent to the TCEQ CRP PM.

The definition of and process for handling deficiencies and corrective action are defined in Section C1.

Additionally, in accordance with CRP requirements and the TNI Standard (Volume 1, Module 2, Section 4.5, Subcontracting of Environmental Tests) when a laboratory that is a signatory of this QAPP finds it necessary and/or advantageous to subcontract analyses, the laboratory that is the signatory on this QAPP must ensure that the subcontracting laboratory is NELAP-accredited (when required) and understands and follows the QA/QC requirements included in this QAPP. This includes confirming that the sub-contracting laboratory has LOQs at or below TCEQ AWRLs ~~utilize the same reporting limits as the signatory laboratory~~ and performs all required quality control analysis outlined in this QAPP. The signatory laboratory is also responsible for quality assurance of the data prior to delivering it to the SRBA and WMS, including review of all applicable QC samples related to CRP data. As stated in section 4.5.5 of the TNI Standard, the laboratory performing the subcontracted work shall be indicated in the final report and the signatory laboratory shall make a copy of the subcontractor's report available to the SRBA when requested.

Modifies specific text from page 62 of the FY 2024–2025 CRP QAPP

Appendix B Sampling Process Design and Monitoring Schedule (plan)

Sample Design Rationale FY 2025

The sample design is based on the legislative intent of CRP. Under the legislation, the Sulphur River Basin Authority has 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 Sulphur River Basin Authority coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

Biased to Season Monitoring

Diel monitoring will be conducted by WMS at two stream stations. Diel monitoring includes sampling on Stouts Creek at US 67 (Station 18189) and Mustang Creek at Hwy 37 (Station 21695). Flow will be measured at all wadable stream stations or will be obtained from a nearby USGS gaging station. In FY 2025, diel monitoring will be conducted at one station (Station 21695).

Aquatic Life Monitoring will be conducted ~~once~~ during the Index period and ~~once~~ during the Critical period in FY 2024 and FY 2025. In FY 2024, monitoring ~~will be~~ was conducted in Auds Creek at FM 1184 (Station 10197) and in the North Sulphur River at FM 38 (Station 17613). In FY 2025, monitoring will be conducted at Station 10197. Due to heavy rains and flooding throughout much of May and into early June 2024, ALM sampling was not performed during the 2024 Index period in Auds Creek (station 10197). Two non-critical period ALM events will be conducted in Auds Creek station 10197 in FY 2025. Habitat assessment, benthic macroinvertebrates, and nekton will be assessed. Field parameters, flow, and diel data will be obtained during the monitoring events.

The following changes were made to the monitoring program as a result of the FY 2025 Coordinated Monitoring Meeting. All changes were discussed and agreed to by the committee at the meeting.

Segment 0303; South Sulphur/Sulphur River:
Discontinued sampling at station 18189 STOUTS CREEK AT US HIGHWAY 67 due to having enough data for the assessment and as recommended in the 2024 SRBA Basin Summary Report.

Added station 21702 SCATTER CREEK AT FM 909 since it is a receiving water and a tributary to Cuthand Creek. Samples for bacteria, conventional, field parameters, and flow were added.

Added station 17909 EAST CANEY CREEK AT IH 30 due to recommendation in 2024 SRBA Basin Summary Report. Samples for bacteria, conventional, field parameters, and flow were added.

Segment 0305; North Sulphur River:
Discontinued ALM at station 17613 NORTH SULPHUR RIVER AT FM 38 due to having adequate data for the assessment.

Discontinued sampling at station 17344 HICKORY CREEK AT FM 1498 due to having enough data for the assessment.

Discontinued sampling at station 10205 BIG SANDY CREEK AT FM 1497 due to having adequate data for the assessment.

Modifies specific text from page 62 of the FY 2024–2025 CRP QAPP

Due to changes to the allocation of CRP funds at SRBA, the following stations were added to the sampling program in FY 2025:

Segment 0302; Wright Patman Lake:
Added station 21701 BIG CREEK AT FM 2149 to address bacteria and nutrient concerns. Samples for bacteria, conventional, field parameters, and flow were added.

Added bacteria sampling at station 15946 EAST FORK ELLIOTT CREEK to address the bacteria concern.

Segment 0303; South Sulphur/Sulphur River:
Added station 21696 CUTHAND CREEK AT FM 909 as this stream is a receiving water and will provide data about its contributions prior to the confluence with Scatter Creek. Samples for bacteria, conventional, field parameters, and flow were added.

Replaces page 64 of the FY 2024-2025 CRP QAPP

Monitoring Sites for FY 2025

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

Table B1.1 Sample Design and Schedule, FY 2025

Site Description	Station	Segment	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 HR DO	AqHab	Benthics	Nekton	Metal Water	Comments
BIG CREEK AT FM 2149	21701	0302A	5	SU	WM	RT	4	4	4	4						
RICE CREEK AT FM 1840	15947	0302E	5	SU	WM	RT	4			4						
ELLIOTT CREEK AT FM 991	21699	0302H	5	SU	WM	RT	4	4	4	4						
EAST FORK ELLIOTT CREEK AT FM991	15946	0302I	5	SU	WM	RT	4		4	4						
ROCK CREEK AT FM 69	10200	0303D	5	SU	WM	RT	4	4	4	4						
~~STOUTS CREEK AT US HIGHWAY 67 HOPKINS COUNTY~~	~~18189~~	~~0303F~~	~~5~~	~~SU~~	~~WM~~	~~BS~~	~~4~~			~~4~~	~~4~~					
~~STOUTS CREEK AT US HIGHWAY 67 HOPKINS COUNTY~~	~~18189~~	~~0303F~~	~~5~~	~~SU~~	~~WM~~	~~RT~~	~~4~~	~~4~~	~~4~~	~~4~~						
EAST CANEY CREEK AT I 30	17909	0303E	5	SU	WM	RT	4	4	4	4						
CUTHAND CREEK AT FM 1487	10202	0303J	5	SU	WM	RT	4	4	4	4						

Replaces page 64 of the FY 2024-2025 CRP QAPP

Site Description	Station	Segment	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 HR DO	AqHab	Benthics	Nekton	Metal Water	Comments
CUTHAND CREEK AT FM 909	21696	0303J	5	SU	WM	RT	4	4	4	4						
LITTLE MUSTANG CREEK AT CR 1410	17343	0303K	5	SU	WM	RT	4	4	4	4						
KICKAPOO CREEK AT FM 412	17342	0303L	5	SU	WM	RT	4	4	4	4						
SCATTER CREEK AT FM 909	21702	0303O	5	SU	WM	RT	4	4	4	4						
MUSTANG CREEK AT SH 37	21695	0303P	5	SU	WM	BS	4			4	4					
MUSTANG CREEK AT SH 37	21695	0303P	5	SU	WM	RT	4	4	4	4						
NORTH SULPHUR RIVER AT FM 38	17613	0305	5	SU	WM	RT	4	4	4	4						
~~NORTH SULPHUR RIVER AT FM 38~~	~~17613~~	~~0305~~	~~5~~	~~SU~~	~~WM~~	~~BS~~	~~2~~			~~2~~	~~2~~			~~2~~		
AUDS CREEK AT FM 1184	10197	0305B	5	SU	WM	BS	3			3	3	3	3	3		ALM
AUDS CREEK AT FM 1184	10197	0305B	5	SU	WM	RT	4	4	4	4						
~~HICKORY CREEK AT FM 1498 SOUTH OF PARIS~~	~~17344~~	~~0305C~~	~~5~~	~~SU~~	~~WM~~	~~RT~~	~~4~~			~~4~~						

Replaces page 64 of the FY 2024-2025 CRP QAPP

Site Description	Station	Segment	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 HR DO	AqHab	Benthics	Nekton	Metal Water	Comments
~~BIG SANDY CREEK AT FM 1497 WEST OF BOGATA~~	~~10205~~	~~0305D~~	~~5~~	~~SU~~	~~WM~~	~~RT~~	~~4~~	~~4~~	~~4~~	~~4~~						
SOUTH SULPHUR RIVER AT SH 11	10238	0306	4	SU	NM	RT	12	12	12	12					12	
JIM CHAPMAN LAKE MID LAKE NORTH OF NTMWD INTAKE	15211	0307	5	SU	NM	RT	12	12	12						12	
JIM CHAPMAN LAKE MAIN BODY NEAR DAM GATE STRUCTURE	21714	0307	5	SU	NM	RT	12	12	12						12	
MIDDLE SULPHUR RIVER AT SH 11	13632	0307A	4	SU	NM	RT	12	12	12	12					12	

Replaces page 65 of the FY 2024–2025 CRP QAPP

Appendix C: Station Location Maps

Station Location Maps

Maps of stations monitored by the SRBA/WMS and North Texas Municipal Water District are provided below. The maps were generated by Water Monitoring Solutions, Inc. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map, contact Randy Rushin, Water Monitoring Solutions, Inc. at 903-439-4741.

Replaces page 66 of the FY 2024-2025 CRP QAPP