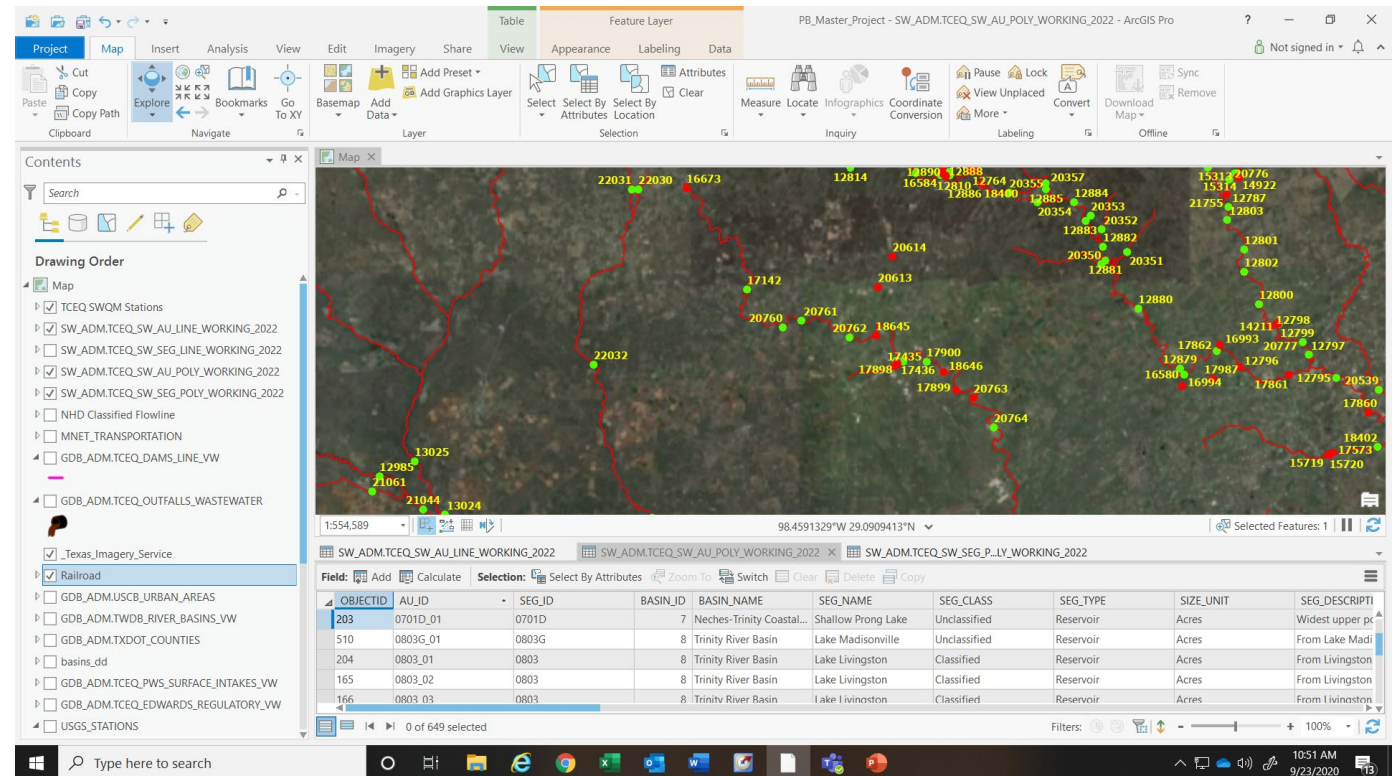


# Summary of Changes to Spatial Information for SWQM Segments and Assessment Units (AUs)

## Surface Water Quality Assessment Advisory Work Group (SWQAAWG)

Pat Bohannon SWQM Team  
November 17, 2020






# Attribute fields in the Segment and AU layers

SEG\_ID  
BASIN\_ID  
BASIN\_NAME  
SEG\_NAME  
SEG\_CLASS  
SEG\_TYPE  
SIZE\_  
SIZE\_UNIT  
SEG\_DESCRIPTION  
IR\_YEAR  
RETIRED\_IND  
RETIRED\_COMMENTS\_TXT  
IMP\_AQUATIC\_LIFE  
IMP\_GENERAL  
IMP\_FISH\_CONSUMPTION  
IMP\_PWS  
IMP\_OYSTER\_WATERS  
IMP\_REC\_BEACHES  
IMPAIRED  
FIRST\_IR\_YEAR

AU\_ID  
SEG\_ID  
BASIN\_ID  
BASIN\_NAME  
SEG\_NAME  
SEG\_CLASS  
SEG\_TYPE  
SIZE\_UNIT  
SEG\_DESCRIPTION  
AU\_SIZE  
AU\_LOCATION\_DESCRIPTION  
AU\_TYPE  
AU\_STREAM\_FLOW\_TYPE  
AU\_STREAM\_FLOW\_TYPE\_SOURCE  
AU\_STREAM\_FLOW\_TYPE\_NOTES  
AU\_DESCRIPTION\_SOURCE  
ALU\_DESIGNATION  
ALU\_DESIGNATION\_SOURCE  
AU\_FISHERY\_TYPE  
APPENDIX\_D\_FLG  
APPENDIX\_E\_FLG  
TABLE\_5\_FLG  
AU\_NOTES  
AU\_BED\_SLOPE  
AU\_STREAM\_ORDER  
AU\_STREAM\_ORDER\_NOTES  
AU\_BOUNDARY\_CHANGE  
PREVIOUS\_AU\_ID  
IR\_YEAR  
RETIRED\_IND  
RETIRED\_COMMENTS\_TXT  
IMP\_AQUATIC\_LIFE  
IMP\_CONTACT\_REC  
IMP\_GENERAL  
IMP\_FISH\_CONSUMPTION  
IMP\_PWS  
IMP\_OYSTER\_WATERS  
IMP\_REC\_BEACHES  
IMPAIRED  
FIRST\_IR\_YEAR



# How are Segment and AU spatial data used?

- Integrated Report
  - Various summary reports
  - SAS Assessment Tool
- Data viewers
  - SWQM Segments viewer
  - SWQMIS Data viewer
  - Coordinated Monitoring Schedule
- Map creation
  - Presentations
- TCEQ internal staff
  - Other program areas
  - Agency website
- External entities
  - River authorities
  - Other state agencies



# Coordinated Monitoring Schedule

River Basin: 2  
FY: 2021

Login

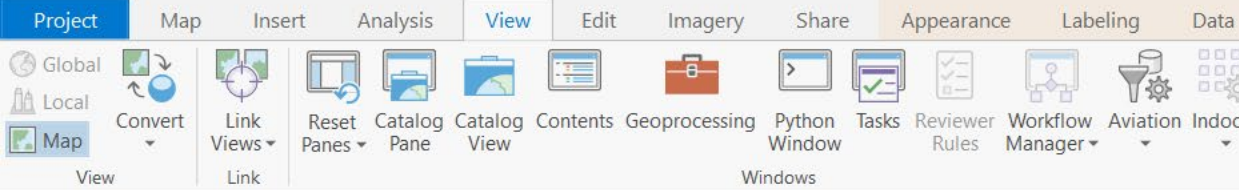
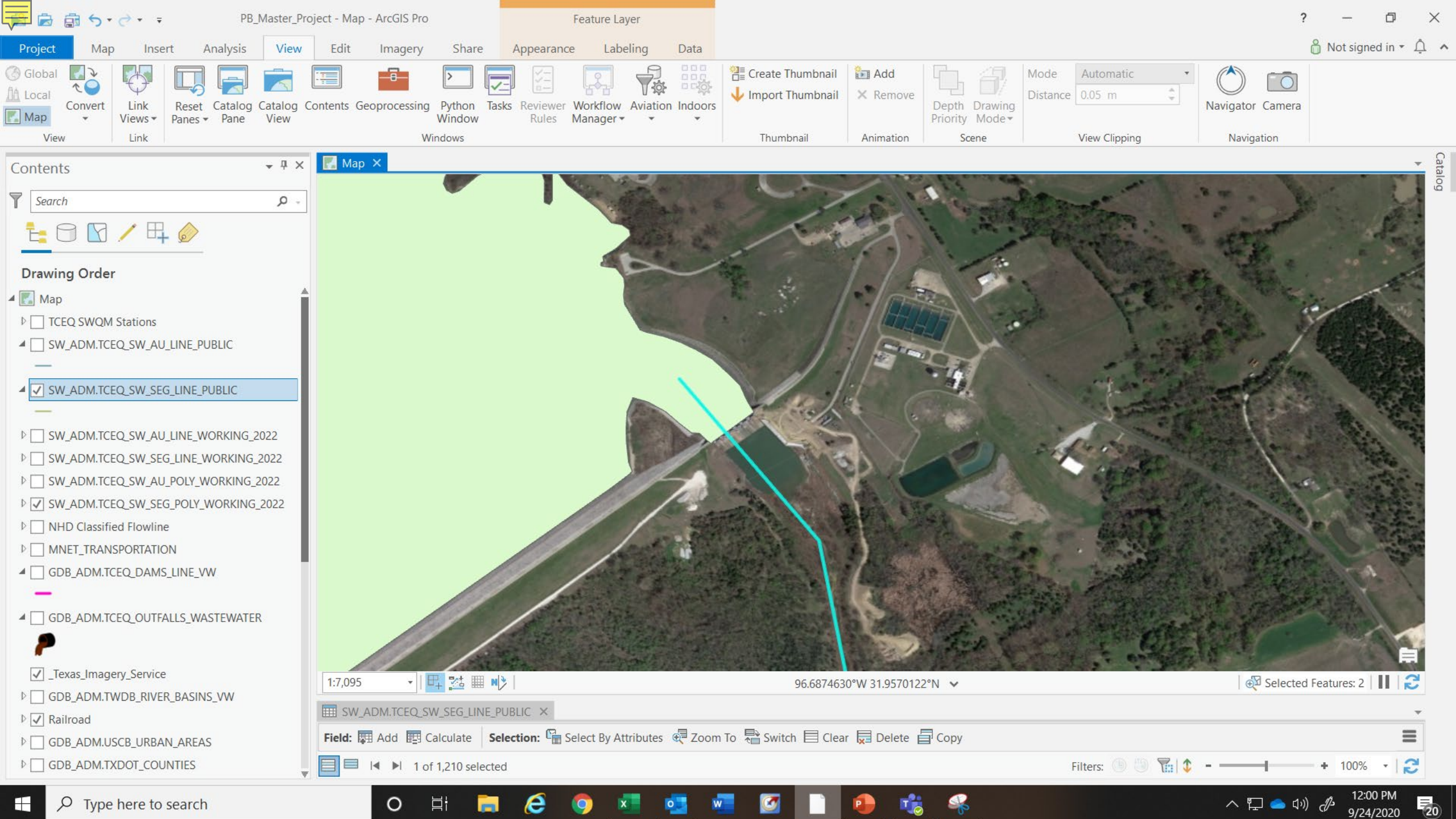
Description (key word)	Station	Region	<div>1 2 3 4</div>	Segment	<div>201 202 203 204</div>	Submitting Entity	<div>GS RR WC</div>	Collecting Entity	<div>FO GS NM DD</div>	Monitoring Type	<div>BS RT</div>	<div>➔</div>								
Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Fish Tissue	Field	Comments
Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Bacteria	Flow	Fish Tissue	Field	Comments
Segment 201 Lower Red River   <a href="#">Map</a>																				
RED RIVER BRIDGE AT SOUTHBOUND US 59 NEAR INDEX ARKANSAS 1.22 KM NORTH OF FM 2320/US 59 INTERSECTION ON TEXAS SHORE SIDE   <a href="#">Map</a>	10123	0201	5	WC	FO	RT									4	4	4		4	USGS ID 07337000 F Parameter (Temp)
MUD CREEK AT US 259 3.1 KM NORTH OF DE KALB   <a href="#">Map</a>	15319	0201A	5	RR	RR	RT									4	4	4		4	
BARKMAN CREEK 35 M EAST OF RICHMOND RD OVERPASS/FM 559 0.97 KM NW OF FM 559/HOLLY CREEK ROAD INTERSECTION 11.5 KM NW OF TEXARKANA   <a href="#">Map</a>	15059	0201D	5	RR	RR	RT									4	4	4		4	
Segment 202 Red River Below Lake Texoma   <a href="#">Map</a>																				
RED RIVER DOWNSTREAM LAKE TEXOMA AT US 259 9.3 KM NORTH OF US 259/FM 114 INTERSECTION 21 KM NORTH OF DEKALB   <a href="#">Map</a>	10125	0202	5	GS	GS	RT											365			USGS ID 07336820
RED RIVER DOWNSTREAM LAKE TEXOMA AT US 259 9.3 KM NORTH OF US 259/FM 114 INTERSECTION 21 KM NORTH OF DEKALB   <a href="#">Map</a>	10125	0202	5	RR	RR	RT									4	4	4		4	
RED RIVER AT NORTHBOUND US 271 IN ARTHUR CITY 0.75 KM NORTH OF FM 197/US 271 INTERSECTION   <a href="#">Map</a>	10126	0202	5	GS	GS	RT											365			USGS ID 07335500
RED RIVER AT NORTHBOUND US 271 IN ARTHUR CITY 0.75 KM NORTH OF FM 197/US 271 INTERSECTION   <a href="#">Map</a>	10126	0202	5	RR	RR	RT									4	4	4		4	
RED RIVER AT SH 78 355 M NORTHWEST OF FANNIN CR 200/SH 78 INTERSECTION AT TEXAS STATE LINE 10 KM NORTHEAST OF CITY OF RAVENNA   <a href="#">Map</a>	10127	0202	4	RR	RR	RT									4	4			4	
RED RIVER 550 M DOWNSTREAM FROM DENISON DAM POWERHOUSE 7.25 KM NORTH OF DENISON 660 M UPSTREAM OF SHAWNEE CREEK   <a href="#">Map</a>	13684	0202	4	GS	GS	RT											365			USGS ID 07331600
RED RIVER AT SH 37 0.30 KM NORTH OF SH 37/FM 195 INTERSECTION 27.75 KM NORTH OF CLARKSVILLE   <a href="#">Map</a>	15779	0202	5	RR	RR	RT									4	4	4		4	
RED RIVER AT US 75 NORTH OF DENISON   <a href="#">Map</a>	21031	0202	4	RR	RR	RT									4	4	4		4	Flow measurement from gauge at 13684 per F
BOIS D ARC CREEK AT FM 898/OAK HILL ROAD 1.4 KM NORTHEAST OF CITY OF WHITEWRIGHT   <a href="#">Map</a>	15036	0202A	4	RR	RR	RT									4	4	4		4	
BOIS D ARC CREEK AT FM 1396 NORTHWEST OF HONEY GROVE   <a href="#">Map</a>	20167	0202A	4	GS	GS	RT											365		365	USGS ID 07332620 F Parameter (DO/pH/C
BOIS D ARC CREEK AT FM 1396 NORTHWEST OF HONEY GROVE   <a href="#">Map</a>	20167	0202A	4	RR	NM	RT					12				12	12	12		12	
BOIS D ARC CREEK AT FM 409 NORTHWEST OF HONEY GROVE   <a href="#">Map</a>	21029	0202A	4	GS	GS	RT											365		364	USGS ID 07332622 F Parameter (DO/pH/C
BOIS D ARC CREEK AT FM 409 NORTHWEST OF HONEY GROVE   <a href="#">Map</a>	21029	0202A	4	RR	NM	RT					12				12	12	12		12	
BOIS D ARC CREEK AT FM 2945 IN FANNIN COUNTY   <a href="#">Map</a>	21706	0202A	4	RR	NM	RT					12				12	12	12		12	
BOIS D ARC CREEK AT SH 56 WEST OF DODD CITY   <a href="#">Map</a>	22105	0202A	4	RR	NM	RT					12				12	12	12		12	
CORNELIASON CREEK AT FM 1897/OLE AMBROSE ROAD 0.27 KM NORTH OF FM 1897/US 69 INTERSECTION 0.9 KM NORTH OF CITY OF BELLS   <a href="#">Map</a>	10117	0202B	4	RR	RR	RT									4	4	4		4	
PECAN BAYOU AT BLANTON CREEK CEMETERY ROAD/RED RIVER CR 2235 11.65 KM NORTH OF CITY OF BAGWELL   <a href="#">Map</a>	14472	0202C	5	RR	RR	RT									4	4	4		4	



# Reasons for revisions to the GIS layers

- EPA approval of Texas Surface Water Quality Standards (TSWQS)
- Creation of new or revisions of Segments and AUs
- Correct spatial or attribute errors
- Consistency with TMDLs or TSWQS
- Requested by data providers
- Hydromodification of Segments or AUs





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  - ☐ SW\_ADM.TCEQ\_SW\_AU\_LINE\_WORKING\_2022
  - ☐ SW\_ADM.TCEQ\_SW\_SEG\_LINE\_WORKING\_2022
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  - ☒ SW\_ADM.TCEQ\_SW\_SEG\_POLY\_WORKING\_2022
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  - ☒ Railroad
  - ☐ GDB\_ADM.USCB\_URBAN\_AREAS
  - ☐ GDB\_ADM.TXDOT\_COUNTIES

Map

1:7,095 96.6874630°W 31.9570122°N Selected Features: 2

SW\_ADM.TCEQ\_SW\_SEG\_LINE\_PUBLIC

Field: Add Calculate Selection: Select By Attributes Zoom To Switch Clear Delete Copy

1 of 1,210 selected

Filters: 100%



# Spatial revisions for the 2022 IR

- (19) new segments
  - (4) due to hydromodification in Fort Bend County
  - (3) split to create an “above tidal” portion
  - (3) to accommodate new data
  - (2) recently-approved TSWQS Appendix D water bodies (Unclassified segments)
  - (2) recently-approved TSWQS Appendix A segments
  - (4) based on the new Appendix A segments and D water bodies (Unclassified segments)
  - (1) Segment 0615 – Angelina River/Sam Rayburn Reservoir changed from a Polygon to Line