

DRAFT - TCEQ Implementation Plan Administrative Edits Summary			
Page	Changes Made	Description	Notes
1	Added	Second Revision by the Coordination Committee: June 13, 2019	Added to show timeline of revisions; reflects date of coordination committee meeting
1	Deleted	Twenty-One	
1	Added	Twenty-Two	
2	Deleted	Draft	Deleted draft from header
2	Added	Sycamore Creek	
2	Added	Segment 0806E	
2	Added	Assessment Unit 0806E_01	
2	Deleted	Draft for Peer Review Rev 3b	Deleted from footer
2	Added	Approved by the Commission	Added to footer to match the rest of the document's footers
2	Deleted	March	Removed from footer
2	Added	December 11	Added to footer to match the rest of the document's footers
17	Added	On January 16, 2019, TCEQ adopted One Total Maximum Daily Load for Indicator Bacteria in Sycamore Creek (Segment 0806E, Assessment Unit 0806E_01).	Executive Summary
17	Changed	21 to 22	Executive Summary: Number of TMDLs
18	Deleted	and	Executive Summary
18	Added	and	Executive Summary
18	Added	For the Sycamore Creek TMDL bacteria loading reductions of 45 percent to 96 percent.	Executive Summary
22	Deleted	four	Watershed Summary
22	Added	five	Watershed Summary
22	Added	Sycamore Creek Segment 0806E	Watershed Summary
22	Changed	21 to 22	Watershed Summary
23	Added	Sycamore Creek (Segment 0806E) is a water body that flows roughly south to north to its confluence with the West Fork Trinity River in Fort Worth. The cities within the watershed include Fort Worth, Edgecliff Village, and Forest Hill. The total drainage area for the watershed is 37 square miles entirely located within Tarrant County. (Figure 6)	Watershed Summary
28	Added	and Sycamore Creek (0806E)	Seasonal Variation - added Sycamore Creek to list of segments that showed statistically significant variation

DRAFT - TCEQ Implementation Plan Administrative Edits Summary			
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33	Added	<p>Sycamore Creek Segment 0806E TMDL</p> <p>The TCEQ first identified the bacteria impairments of Sycamore Creek in 2014 in the Texas Integrated Report for Surface Water Quality For Clean Water Act Sections 305(b) and 303(d). The impaired AU for segment number 0806E is 0806E_01. The goal, or endpoint for the Sycamore Creek segment 0806E is to maintain concentrations of E. coli below the geometric mean criterion of 126 MPN/100 mL (TCEQ, 2019).</p> <p>Table 6 presents a historical summary of ambient indicator bacteria data from the TCEQ SWQMIS database for December 1, 2005 through November 30, 2012 (TCEQ, 2019).</p>	Added Summary of Sycamore Creek to "Summary of TMDLs" section of document
33	Added	Table 6: Sampling Data, 0806E_01	Added Sampling Data Table to Summary of TMDLs Section of document (unable to add table to this document)
34	Added	and the 2019 <i>One Total Maximum Daily Load for Indicator Bacteria in Sycamore Creek</i> ,	Potential Sources of Bacteria
36	Changed	Table 6 to Table 7	Pollutant Sources and Loads
37	Changed	Table 6 to Table 7	Pollutant Sources and Loads
38	Added	, and Sycamore Creek	Wastewater Treatment Facilities
43	Added	Due to 100 percent coverage of wastewater collection by the City of Fort Worth Village Creek WWTF collection system and the absence of WWTFs in the TMDL study area, the future growth component for the Sycamore Creek TMDL is zero.	Allowances for Future Growth
45	Changed	Table 6 to Table 8	Wastewater Implementation Strategies
45	Changed	Table 7 to Table 8	Implementation Strategies 1.0: Wastewater treatment facility effluent limits
46	Changed	Table 7 to Table 8	Table Title Changed
46	Changed	Table 7 to Table 8	Paragraph beneath table was updated
47	Changed	Table 8 to Table 9	Implementation Strategy 1.0 Summary Table Title updated
49	Changed	Table 9 to Table 10	SSOI Participant Table Updated
49	Changed	Table 10 to Table 11	C-MOM Program Table Updated
50	Changed	Table 9 to Table 10	Title of Table 9 updated to show it is Table 10

*Reference links were checked and updated appropriately

DRAFT - TCEQ Implementation Plan Administrative Edits Summary			
Page	Changes Made	Description	Notes
51	Changed	Table 10 to Table 11	Title of Table 10 updated to show it is Table 11
52	Changed	Table 11 to Table 12	Changed text to update table number
52	Changed	Table 11 to Table 12	Changed title of Table 11 to Table 12
53	Changed	Table 12 to Table 13	Changed text to update table number
53	Changed	Table 12 to Table 13	Changed title of Table 12 to Table 13
54	Changed	Table 13 to Table 14	Changed text to update table number
54	Changed	Table 13 to Table 14	Change title of Table 13 to Table 14
56	Changed	Table 14 to Table 15	Changed text to update table number
56	Changed	Table 14 to Table 15	Changed title of Table
57	Changed	Table 15 to Table 16	Changed text to update table number
57	Changed	Table 15 to Table 16	Changed title of Table
58	Changed	Table 16 to Table 17	Changed text to update table number
58	Changed	Table 16 to Table 17	Changed title of Table
62	Deleted	20, 21, and 22	Updating text to accurate table numbers
62	Added	21, 22, and 23	Updating text to accurate table numbers
62	Changed	Table 23 to Table 24	Updating text to accurate table numbers
62	Changed	Table 17 to Table 18	Updating text to accurate table numbers
63	Changed	Table 17 to Table 18	Changed title of Table
65	Changed	Table 18 to Table 19	Updating text to accurate table numbers
65	Changed	Table 18 to Table 19	Changed title of Table
66	Changed	Table 19 to Table 20	Updating text to accurate table numbers
66	Changed	Table 19 to Table 20	Changed title of Table
68	Changed	Table 20 to Table 21	Changed title of Table
70	Changed	Table 21 to Table 22	Changed title of Table
73	Changed	Table 22 to Table 23	Changed title of Table
74	Added	Table 24. TPDES and NPDES MS4 Permits associated with Segment 0806E	Added table of MS4 permits for Sycamore Creek
75	Changed	Table 23 to Table 25	Changed title of Table
76	Added	Figure 10 shows land use in the Project area based on 2015 data, Figure 11 shows land cover and Figure 12 shows population density based on 2010 US Census information (NCTCOG, 2012a).	Added a map by dividing land use and land cover into 2 separate maps
80	Changed	Table 24 to Table 26	Updating text to accurate table numbers
80	Changed	Table 24 to Table 26	Changed title of Table
82	Changed	Table 25 to Table 27	Updating text to accurate table numbers
82	Changed	Table 25 to Table 27	Changed title of Table
83	Changed	Table 26 to Table 28	Updating text to accurate table numbers
84	Changed	Table 26 to Table 28	Changed title of Table

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DRAFT - TCEQ Implementation Plan Administrative Edits Summary			
Page	Changes Made	Description	Notes
86	Changed	Table 27 to Table 29	Updating text to accurate table numbers
87	Changed	Table 27 to Table 29	Changed title of Table
87	Added	Row for estimated number of households, dogs, and cats	Added to Table 29
87	Changed	Numbers to include Sycamore Creek in the Total number of households, cats, and dogs	Updated Table 29
87	Added	0806E segment information from 2019 TCEQ Report, One Total Maximum Daily Load for Indicator Bacteria in Sycamore Creek.	Updated references blurb below Table 29
88	Changed	Table 28 to Table 30	Updating text to accurate table numbers
88	Changed	Table 28 to Table 30	Changed title of Table
90	Changed	Table 29 to Table 31	Updating text to accurate table numbers
90	Changed	Table 29 to Table 31	Changed title of Table
91	Changed	Table 30 to Table 32	Updating text to accurate table numbers
91	Changed	Table 30 to Table 32	Changed title of Table
92	Changed	Table 31 to Table 33	Updating text to accurate table numbers
92	Changed	Table 31 to Table 33	Changed title of Table
93	Changed	Table 32 to Table 34	Updating text to accurate table numbers
93	Changed	Table 32 to Table 34	Changed title of Table
94	Changed	Table 33 to Table 35	Updating text to accurate table numbers
94	Changed	Table 33 to Table 35	Changed title of Table
95	Changed	Table 34 to Table 36	Updating text to accurate table numbers
95	Changed	Table 34 to Table 36	Changed title of Table
97	Changed	Table 35 to Table 37	Updating text to accurate table numbers
97	Changed	Table 35 to Table 37	Changed title of Table
98	Changed	Table 36 to Table 38	Updating text to accurate table numbers
99	Changed	Table 36 to Table 38	Changed title of Table
100	Changed	Table 37 to Table 39	Updating text to accurate table numbers
100	Changed	Table 37 to Table 39	Changed title of Table
101	Changed	Table 38 to Table 40	Updating text to accurate table numbers
101	Changed	Table 38 to Table 40	Changed title of Table
102	Changed	Table 39 to Table 41	Updating text to accurate table numbers
102	Changed	Table 39 to Table 41	Changed title of Table
103	Changed	Table 40 to Table 42	Updating text to accurate table numbers
103	Changed	Table 40 to Table 42	Changed title of Table
106	Changed	Table 41 to Table 43	Updating text to accurate table numbers
106	Changed	Table 41 to Table 43	Changed title of Table
107	Changed	Table 7 to Table 8	Updated text to accurate table number
107	Changed	Table 42 to Table 44	Updating text to accurate table numbers
108	Changed	Table 42 to Table 44	Changed title of Table

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DRAFT - TCEQ Implementation Plan Administrative Edits Summary			
Page	Changes Made	Description	Notes
109	Changed	Table 43 to Table 45	Updating text to accurate table numbers
109	Changed	Table 43 to Table 45	Changed title of Table
111	Changed	Table 44 to Table 46	Updating text to accurate table numbers
111	Changed	Table 44 to Table 46	Changed title of Table
112	Changed	Table 45 to Table 47	Updating text to accurate table numbers
112	Changed	Table 45 to Table 47	Changed title of Table
113	Changed	Table 46 to Table 48	Updating text to accurate table numbers
113	Changed	Table 46 to Table 48	Changed title of Table
114	Changed	Table 47 to Table 49	Updating text to accurate table numbers
115	Changed	Table 47 to Table 49	Changed title of Table
115	Changed	Table 48 to Table 50	Updating text to accurate table numbers
116	Changed	Table 48 to Table 50	Changed title of Table
117	Changed	Table 49 to Table 51	Updating text to accurate table numbers
117	Changed	Table 49 to Table 51	Changed title of Table
118	Changed	Table 50 to Table 52	Updating text to accurate table numbers
118	Changed	Table 50 to Table 52	Changed title of Table
120	Changed	Table 51 to Table 53	Updating text to accurate table numbers
122	Deleted	Although not created yet, the page will likely branch from NCTCOG's existing Greater Trinity TMDL web page, http://www.nctcog.org/envir/SEEclean/stormwater/BMP/index.asp	Updating text.
122	Added	The BMP library can be found at this link: https://www.nctcog.org/envir/watershed-management/stormwater/bmp-library .	Updating text.
123	Changed	Table 51 to Table 53	Changed title of Table
124	Changed	Table 52 to Table 54	Updating text to accurate table numbers
124	Changed	Table 52 to Table 54	Changed title of Table
126	Changed	Table 53 to Table 55	Updating text to accurate table numbers
126	Changed	Table 53 to Table 55	Changed title of Table
127	Changed	Table 54 to Table 56	Updating text to accurate table numbers
128	Changed	Table 54 to Table 56	Changed title of Table
130	Added	TCEQ (Texas Commission on Environmental Quality). 2019. One Total Maximum Daily Load for Indicator Bacteria in Sycamore Creek. Available online at https://www.tceq.texas.gov/assets/public/waterquality/tmdl/66trinitybact/66g-sycamorebacteri-tmdl-adopted.pdf .	Added Sycamore Creek TMDL to references list
136	Deleted	three	Appendix B

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136	Added	Four Total Maximum Daily Loads for Indicator Bacteria in Cottonwood Creek, Fish Creek, Kirby Creek, and Crockett Branch Watersheds Upstream of Mountain Creek Lake; One Total Maximum Daily Load for Indicator Bacteria in Sycamore Creek.	Adding appropriate references to Appendix B
137	Changed	Table 55 to Table 57	Updating text to accurate table numbers
137	Changed	Table 56 to Table 58	Updating text to accurate table numbers
137	Changed	Table 57 to Table 59	Updating text to accurate table numbers
137	Changed	Table 58 to Table 60	Updating text to accurate table numbers
137	Changed	Table 59 to Table 61	Updating text to accurate table numbers
137	Changed	Table 55 to Table 57	Updating Table Title
138	Changed	Table 56 to Table 58	Updating Table Title
138	Changed	Table 57 to Table 59	Updating Table Title
138	Changed	Table 58 to Table 60	Updating Table Title
138	Changed	Table 59 to Table 61	Updating Table Title
139	Changed	Table 60 to Table 62	Updating text to accurate table numbers
139	Changed	Table 61 to Table 63	Updating text to accurate table numbers
139	Changed	Table 62 to Table 64	Updating text to accurate table numbers
139	Changed	Table 63 to Table 65	Updating text to accurate table numbers
139	Changed	Table 64 to Table 66	Updating text to accurate table numbers
139	Changed	Table 65 to Table 67	Updating text to accurate table numbers
140	Changed	Table 62 to Table 64	Updating Table Title
140	Changed	Table 63 to Table 65	Updating Table Title
140	Changed	Table 64 to Table 66	Updating Table Title
140	Changed	Table 65 to Table 67	Updating Table Title
141	Changed	Table 66 to Table 68	Updating text to accurate table numbers
141	Changed	Table 67 to Table 69	Updating text to accurate table numbers
141	Changed	Table 68 to Table 70	Updating text to accurate table numbers
141	Changed	Table 69 to Table 71	Updating text to accurate table numbers
142	Changed	Table 70 to Table 72	Updating text to accurate table numbers
142	Changed	Table 71 to Table 73	Updating text to accurate table numbers
142	Changed	Table 72 to Table 74	Updating text to accurate table numbers
143	Changed	Table 66 to Table 68	Updating Table Title

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143	Changed	Table 67 to Table 69	Updating Table Title
144	Changed	Table 68 to Table 70	Updating Table Title
145	Changed	Table 69 to Table 71	Updating Table Title
145	Changed	Table 70 to Table 72	Updating Table Title
146	Changed	Table 71 to Table 73	Updating Table Title
147	Changed	Table 72 to Table 74	Updating Table Title
148	Changed	Table 73 - 78 to Table 75 - 80	Updated Table References in Text and Table Title
149	Changed	Table 74 -76 to Table 76 -78	Updated Table Title
150	Changed	Table 77-78 to Table 79-80	Updated Table Title
151	Added	Sycamore Creek, Segment 0806E	Added TMDL calculations for Sycamore Creek & Descriptions
151	Added	TMDL Calculations	Summary Subtitle
151	Added	Table 81 summarizes the allowable loading of E. coli that the Sycamore Creek segment within the TMDL watershed can receive on a daily basis. This information was based on the median value in the 0 to ten percentile range (five percent exceedance, high flow regime) for flow exceedance from the LDC developed for TCEQ station 17369 on Sycamore Creek.	Added Text
151	Added	The Sycamore Creek watershed is covered 100 percent by MS4 Phase II general permits and Phase I individual permits. However, even in highly urbanized areas such as the TMDL study area, there remain small areas of streams within each watershed that are not strictly regulated by stormwater permits and which may receive bacteria loadings from unregulated sources such as wildlife and feral hogs. In order to calculate the amount of overall runoff load that should be allocated to WLASW, the percentage of the watershed drainage area under the jurisdiction of a stormwater permit (FDASWP) must be estimated. To account for the small unregulated areas in the Sycamore Creek watershed, the stream length based on the TCEQ definition of AU 0806E_01 and a stream width estimated from measurements recorded as part of a recreational use attainability analysis on Sycamore Creek (TIAER, 2010) was used to compute an area of unregulated stormwater contribution, summarized in Table 82.	

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151	Added	Due to the absence of permitted dischargers in the Sycamore Creek watershed, the WLAWWTF term is zero. Likewise, since it is unforeseen that any permitted discharges with a human waste component will occur in the TMDL study area, the future growth term is also zero. A summary of the calculation of the WLASW term is provided in Table 83.	
151	Added	Table 84 provides a summary of the TMDL calculations for the Sycamore Creek watershed. Allocations are based on the current geometric mean criterion for E. coli of 126 MPN/100 mL for each component of the TMDL. Table 85 includes the final TMDL allocations needed to comply with the requirements of 40 CFR 130.7 include the future growth component within the WLAWWTF, which was zero due to the absence of any permitted discharges and the anticipation of no future permitted discharges with a human waste component. The final TMDL allocations also include allocations to permitted MS4 entities and permitted construction and industrial activities, which are designated as WLASW.	
151	Added	Table 81. Summary of allowable loading calculations for segments within the TMDL watersheds	Added Table 81 to document
151	Added	Table 82. Basis of unregulated stormwater area and computation of FDASWP	Added Table to Document
152	Added	Table 83. Regulated stormwater calculations for the Sycamore Creek watershed	Added Table to Document
152	Added	Table 84. TMDL allocation summary for the Sycamore Creek watershed (AU 0806E_01)	Added Table to Document
152	Added	Table 85. Final TMDL allocations for the Sycamore Creek watershed (AU 0806E_01)	Added Table to Document
153	Changed	Updated Table 79 to Table 86	Appendix C: Segments and assessment units in project area
154	Added	Added Sycamore Creek to Table in Appendix C	Appendix C: Segments and assessment units in project area
155	Added	Column to Appendix C (Table 86) showing the year an impaired segment met water quality standards	Appendix C: Segments and assessment units in project area

*Reference links were checked and updated appropriately