

First Submission of the 2018 Texas Integrated Report - Assessment Results for Spring Creek - Segment 1008

Report Abbreviations	Description:
SEGID:	Unique Segment identification alpha-numeric code; can be stream, reservoir, estuary, oyster waters, beach watch, etc.
AUID:	Unique Assessment Unit code; this is a portion of the segment the AUID begins with and ends with _01, _02, etc. Some AUIDs are special units ending in "SA," or oyster water AUIDs are indicated by "OW" and beach watch AUIDs are indicated by abbreviations for name of beach in AUID.
ASMT Start Date:	The start date of the period of record data for this method was selected; the official 2016 period of record is from 12/1/2007 to 11/30/2014. Assessors have the option of going back 10 years (12/1/2004) to select more data, according to assessment guidance.
ASMT End Date:	The end date of the period of record data for this method was selected; the official 2016 period of record dates are 12/1/2007 to 11/30/2014. Assessors have the option of including more recently collected data than 12/01/2014, if available.
# Assd:	Number of samples assessed; some data are averaged, as with profile data, some are eliminated because criteria do not apply during certain conditions such as low flow.
Mean Assd:	Mean of samples assessed; includes averaged methods like chronic criteria as well as geometric mean calculations for bacteria.
# Exceed:	The number of samples that exceed criteria for single sample, or binomial, methods (not averaged data).
Mean Exceed:	This is the mean of the samples that exceeded criteria for the single sample, or binomial, methods (not averaged data).
Criteria:	Value that the data is compared against to determine level of support; Note: for acute metals in water, each value is compared to a calculated criterion and not all criteria could be reported here, only the minimum in the range of criteria calculated are included.
DS Qual:	<i>Dataset Qualifier - indicates sample sizes:</i> AD = Adequate Data (10 or more samples) LD = Limited Data (less than 9, greater than 3) ID = Inadequate Data (less than 4) JQ = Level of support is based on judgment of the assessor SM = This assessment method is superseded by another method TR = Temporally Not Representative, used with NA SR = Spatially Not Representative, used with NA OE = Other information than ambient samples evaluated OS = Assessment area outside state boundaries
LOS:	<i>Level of support for this use, method, assessment parameter:</i> FS = Fully Supporting NC = No Concern NA = Not Assessed NS = Nonsupport CS = Screening Level Concern CN = Use Concern
CF:	Carry forward indicator check box: indicates that the Integrated level of support of CS, CN, or NS was carried forward from a previous assessment due to inadequate data for this method in this assessment.
Int LOS:	Integrated level of support. This is the overall level of support for this use, method, parameter group, which could be different from the LOS (described above) due to carry forward information or other types of changes. New Code added in 2010: PI = Pending Issue
TCEQ Cause:	This is the impairment description (e.g., bacteria, depressed dissolved oxygen, etc.)
Cat:	Category 3: Insufficient or no data and information to determine if standard is attained Category 4: Standard is not attained or nonattainment is predicted in the near future due to one or more parameters, but no TMDLs are required. 4a - All TMDLs have been completed and approved by EPA. 4b - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future. 4c - Nonattainment of the standard for one or more parameters is shown to be caused by pollution, not by pollutants and that the water quality conditions cannot be changed by the allocation and control of pollutants through the TMDL process. Category 5: Standard is not attained or nonattainment is predicted in the near future for one or more parameters. 5a - TMDLs are underway, scheduled, or may be scheduled for one or more parameters. 5b - review of the standards for one or more parameters will be conducted before a management strategy is selected, including a possible revision to the water quality standards. 5c - Additional data or information will be collected and/or evaluated for one or more parameters before a management strategy is selected.

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SEGID: 1008 Spring Creek

AUID: 1008_02 Kickapoo Creek confluence to SH 249

Aquatic Life Use

Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen 24hr average	Dissolved Oxygen 24hr Avg	12/01/09 - 06/30/17	4-5	11	0	AD	FS	<input type="checkbox"/>	FS		
Dissolved Oxygen 24hr minimum	Dissolved Oxygen 24hr Min	12/01/09 - 06/30/17	3	11	0	AD	FS	<input type="checkbox"/>	FS		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/09 - 11/30/16	3	130	13	1.85	SM	FS	<input type="checkbox"/>	FS	
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/09 - 11/30/16	4-5	130	33	3.13	SM	CS	<input type="checkbox"/>	NA	
Fish community (Regional)	Fish Community	12/01/09 - 11/30/16					ID	NA	<input checked="" type="checkbox"/>	CN	impaired fish community

Recreation Use

Recreation Use				Data Assessed		Exceedances		Data			Int		Cat
Method	Parameter	Period of Record	Criteria	#	Value	#	Value	Qual	LOS	CF	LOS	TCEQ Cause	
Bacteria Geomean	E. coli	12/01/09 - 11/30/16	126	131	180.69	1		AD	NS	<input type="checkbox"/>	NS	bacteria	4a

General Use

Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Solids	Chloride	12/01/09 - 11/30/16	100	292	44.85	0	AD	FS	<input type="checkbox"/>	FS	
Dissolved Solids	Sulfate	12/01/09 - 11/30/16	50	292	9.50	0	AD	FS	<input type="checkbox"/>	FS	
Dissolved Solids	Total Dissolved Solids	12/01/09 - 11/30/16	450	299	206.64	0	AD	FS	<input type="checkbox"/>	FS	
High pH	pH	12/01/09 - 11/30/16	9	130	0	AD	FS	<input type="checkbox"/>	FS		
Low pH	pH	12/01/09 - 11/30/16	6.50	130	3	6.20	AD	FS	<input type="checkbox"/>	FS	
Nutrient Screening Levels	Ammonia	12/01/09 - 11/30/16	0.33	150	4	0.78	AD	NC	<input type="checkbox"/>	NC	
Nutrient Screening Levels	Nitrate	12/01/09 - 11/30/16	1.95	150	1	2.44	AD	NC	<input type="checkbox"/>	NC	
Nutrient Screening Levels	Total Phosphorus	12/01/09 - 11/30/16	0.69	150	1	0.80	AD	NC	<input type="checkbox"/>	NC	
Water Temperature	Water temperature	12/01/09 - 11/30/16	32.20	132	0	AD	FS	<input type="checkbox"/>	FS		

Public Water Supply Use

Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Surface Water HH criteria for PWS average	Fluoride	12/01/09 - 11/30/16	4	65	0.18	0	AD	FS	<input type="checkbox"/>	FS	
Surface Water HH criteria for PWS average	Nitrate	12/01/09 - 11/30/16	10	292	1.86	0	AD	FS	<input type="checkbox"/>	FS	

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AUID: 1008_03 SH 249 to IH 45

Aquatic Life Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/09 - 11/30/16	3	100		0		AD	FS	☐	FS		
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/09 - 11/30/16	5	100		3	4.17	AD	NC	☐	NC		

Recreation Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/01/09 - 11/30/16	126	98	250.55	1		AD	NS	☐	NS	bacteria	4a

General Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Solids	Chloride	12/01/09 - 11/30/16	100	292	44.85	0		AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/01/09 - 11/30/16	50	292	9.50	0		AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/01/09 - 11/30/16	450	299	206.64	0		AD	FS	☐	FS		
High pH	pH	12/01/09 - 11/30/16	9	100		1	9.10	AD	FS	☐	FS		
Low pH	pH	12/01/09 - 11/30/16	6.50	100		1	6.40	AD	FS	☐	FS		
Nutrient Screening Levels	Ammonia	12/01/09 - 11/30/16	0.33	99		3	0.82	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/01/09 - 11/30/16	1.95	99		28	5.69	AD	CS	☐	CS	nitrate	
Nutrient Screening Levels	Total Phosphorus	12/01/09 - 11/30/16	0.69	99		26	1.46	AD	CS	☐	CS	total phosphorus	
Water Temperature	Water temperature	12/01/09 - 11/30/16	32.20	106		1	32.30	AD	FS	☐	FS		

Public Water Supply Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Surface Water HH criteria for PWS average	Fluoride	12/01/09 - 11/30/16	4	65	0.18	0		AD	FS	☐	FS		
Surface Water HH criteria for PWS average	Nitrate	12/01/09 - 11/30/16	10	292	1.86	0		AD	FS	☐	FS		

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AUID: 1008_04 IH 45 to the confluence with Lake Houston

Aquatic Life Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/09 - 11/30/16	3	63		1	2.70	AD	FS	☐	FS		
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/09 - 11/30/16	5	63		1	2.70	AD	NC	☐	NC		

Recreation Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/01/09 - 11/30/16	126	63	281.89	1		AD	NS	☐	NS	bacteria	4a

General Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Solids	Chloride	12/01/09 - 11/30/16	100	292	44.85	0		AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/01/09 - 11/30/16	50	292	9.50	0		AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/01/09 - 11/30/16	450	299	206.64	0		AD	FS	☐	FS		
High pH	pH	12/01/09 - 11/30/16	9	62		1	9.10	AD	FS	☐	FS		
Low pH	pH	12/01/09 - 11/30/16	6.50	62		0		AD	FS	☐	FS		
Nutrient Screening Levels	Ammonia	12/01/09 - 11/30/16	0.33	63		1	0.42	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/01/09 - 11/30/16	1.95	63		48	5.93	AD	CS	☐	CS	nitrate	
Nutrient Screening Levels	Total Phosphorus	12/01/09 - 11/30/16	0.69	63		45	1.43	AD	CS	☐	CS	total phosphorus	
Water Temperature	Water temperature	12/01/09 - 11/30/16	32.20	63		4	32.20	AD	FS	☐	FS		

Public Water Supply Use

Method	Parameter	Period of Record	Criteria	Data Assessed #	Value	Exceedances #	Value	Data Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Surface Water HH criteria for PWS average	Fluoride	12/01/09 - 11/30/16	4	65	0.18	0		AD	FS	☐	FS		
Surface Water HH criteria for PWS average	Nitrate	12/01/09 - 11/30/16	10	292	1.86	0		AD	FS	☐	FS		