2014 Texas Integrated Report: Assessment Results for Basin 1 - Canadian River

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 2014 period of record is from 12/1/2005 to 11/30/2012. Assessors have the option of going back 10 years (12/1/2002) 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 2014 period of record dates are 12/1/2005 to 11/30/2012. Assessors have the option of including more recently collected data than 12/01/2012, 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 criteria and not all criteria could be reported here, only the minimum in the range of criteria calculated are included.
DS Qual:	*Dataset Qualifier - indicates sample sizes:* **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Data (less than 4) **JQ** = Level of support is based on judgment of the assessor **SM** = This assessment method is superseded by another method **TR** = Temporally Not Representative, used with NA **SR** = Spatially Not Representative, used with NA **OE** = Other information than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:	*Level of support for this use, method, assessment parameter:* **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:	*This is the assessment category assigned to this impairment. Subcategories as follows:* **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 0101 Canadian River Below Lake Meredith

AUID 0101_01 From the Oklahoma state line upstream to the confluence with Red Deer Creek east of Canadian

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	28	32.75	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	28		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	28		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	28		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	99	3247.80	0		5,000.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	97	1462.25	0		1,975.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	98	420.98	0		760.00	AD	FS	☐	FS		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	28		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	28		0		14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	28		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	28		0		1.95	AD	NC	☐	NC		

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AUID 0101_02 — From the confluence with Red Deer Creek upstream to the confluence with White Deer Creek in Hutchinson County

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	28	36.14	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	28		1	35.1	35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	28		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	28		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	98	420.98	0		760.00	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	99	3247.80	0		5,000.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	97	1462.25	0		1,975.00	AD	FS	☐	FS		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	28		2	17.75	14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	28		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	28		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	27		0		1.95	AD	NC	☐	NC		

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AUID 0101_03 — From the confluence with White Deer Creek upstream to the confluence with Dixon Creek east of Borger

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	28	169.41	1		126.00	AD	NS	☐	NS	bacteria	5c

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	28		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	28		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	28		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	97	1462.25	0		1,975.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	98	420.98	0		760.00	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	99	3247.80	0		5,000.00	AD	FS	☐	FS		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	27		14	0.44	0.33	AD	CS	☐	CS	ammonia	
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	24		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	25		4	22.18	14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	27		4	3.3	1.95	AD	NC	☐	NC		

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AUID 0101_04 — From the confluence with Dixon Creek upstream to Sanford Dam in Hutchinson County

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	18		3	0.6	5.00	AD	CS	☐	CS	depressed dissolved oxygen	
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	18		3	0.6	3.00	AD	CN	☐	CN	depressed dissolved oxygen	

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	4	83.14	0		126.00	LD	NC	☐	NC		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	18		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	18		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	18		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	97	1462.25	0		1,975.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	98	420.98	0		760.00	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	99	3247.80	0		5,000.00	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	18		1	2.4	1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	18		16	0.94	0.33	AD	CS	☐	CS	ammonia	
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	16		1	1.54	0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	16		11	181.85	14.10	AD	CS	☐	CS	chlorophyll-a	

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SEGID 0101A Dixon Creek

AUID 0101A_01 — Dixon Creek an Appendix D Intermittent stream with perennial pools from the confluence with the Canadian River upstream to the confluence with the permitted outfall receiving waters tributary

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		4.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		2.00	AD	FS	☑	NS	depressed dissolved oxygen	5c
Acute Toxic Substances in water	Aluminum	12/1/2005	11/30/2012	28		0		991.00	AD	FS	☐	FS		
Acute Toxic Substances in water	Zinc	12/1/2005	11/30/2012	28		0		546.97	AD	FS	☐	FS		
Acute Toxic Substances in water	Selenium	12/1/2005	11/30/2012	28		0		20.00	AD	FS	☐	FS		
Acute Toxic Substances in water	Nickel	12/1/2005	11/30/2012	28		0		2,180.46	AD	FS	☐	FS		
Acute Toxic Substances in water	Lead	12/1/2005	11/30/2012	27		0		434.75	AD	FS	☐	FS		
Acute Toxic Substances in water	Copper	12/1/2005	11/30/2012	16		0		78.78	AD	FS	☐	FS		
Acute Toxic Substances in water	Chromium	12/1/2005	11/30/2012	28		0		2,526.13	AD	FS	☐	FS		
Acute Toxic Substances in water	Arsenic	12/1/2005	11/30/2012	27		0		340.00	AD	FS	☐	FS		
Acute Toxic Substances in water	Cadmium	12/1/2005	11/30/2012	27		0		50.11	AD	FS	☐	FS		
Chronic Toxic Substances in water	Chromium	12/1/2005	11/30/2012	28	2.00	0		148.17	AD	FS	☐	FS		
Chronic Toxic Substances in water	Selenium	12/1/2005	11/30/2012	28	5.96	1		5.00	AD	NS	☐	NS	selenium in water	5c
Chronic Toxic Substances in water	Nickel	12/1/2005	11/30/2012	28	5.62	0		106.38	AD	FS	☐	FS		
Chronic Toxic Substances in water	Zinc	12/1/2005	11/30/2012	28	4.11	0		241.91	AD	FS	☐	FS		
Chronic Toxic Substances in water	Cadmium	12/1/2005	11/30/2012	27	0.21	0		0.44	AD	FS	☐	FS		
Chronic Toxic Substances in water	Arsenic	12/1/2005	11/30/2012	27	11.23	0		150.00	AD	FS	☐	FS		
Chronic Toxic Substances in water	Copper	12/1/2005	11/30/2012	16	1.88	0		19.51	AD	FS	☐	FS		
Chronic Toxic Substances in water	Lead	12/1/2005	11/30/2012	27	0.32	0		6.24	AD	FS	☐	FS		

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AUID **0101A_01** Dixon Creek an Appendix D Intermittent stream with perennial pools from the confluence with the Canadian River upstream to the confluence with the permitted outfall receiving waters tributary

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	28	346.66	1		126.00	AD	NS	☐	NS	bacteria	5b

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	28		17	5.53	1.95	AD	CS	☐	CS	nitrate	
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	28		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	25		1	1.18	0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	25		1	16.1	14.10	AD	NC	☐	NC		

USE Fish Consumption Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
HH Bioaccumulative Toxics in water	Bromodichloromethane	12/1/2005	11/30/2012	15	11.50	0		322.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Tetrachloroethene	12/1/2005	11/30/2012	15	11.30	0		49.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Bromoform	12/1/2005	11/30/2012	15	11.50	0		2,175.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,1,1-Trichloroethane	12/1/2005	11/30/2012	15	11.50	0		956,663.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,1,2-Trichloroethane	12/1/2005	11/30/2012	15	11.50	0		295.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Vinyl chloride	12/1/2005	11/30/2012	14	5.89	0		24.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Chloroform	12/1/2005	11/30/2012	15	11.50	0		7,143.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,2-Dibromoethane	12/1/2005	11/30/2012	15	1.07	0		2.13	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Dibromochloromethane	12/1/2005	11/30/2012	15	11.50	0		239.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Dichloromethane	12/1/2005	11/30/2012	15	11.50	0		5,926.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,1,2,2-Tetrachloroethane	12/1/2005	11/30/2012	15	11.50	0		76.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Methyl ethyl ketone	12/1/2005	11/30/2012	13	14.62	0		1,500,000.00	AD	FS	☐	FS		

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AUID **0101A_01** Dixon Creek an Appendix D Intermittent stream with perennial pools from the confluence with the Canadian River upstream to the confluence with the permitted outfall receiving waters tributary

USE **Fish Consumption Use**

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
HH Bioaccumulative Toxics in water	Trichloroethene	12/1/2005	11/30/2012	15	11.50	0		649.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Chromium	12/1/2005	11/30/2012	28	2.00	0		502.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Ethylbenzene	12/1/2005	11/30/2012	15	11.50	0		7,143.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Nickel	12/1/2005	11/30/2012	28	5.62	0		1,140.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Benzene	12/1/2005	11/30/2012	15	11.50	0		513.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Chlorobenzene	12/1/2005	11/30/2012	15	11.50	0		5,201.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Carbon tetrachloride	12/1/2005	11/30/2012	15	7.30	0		29.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Acrylonitrile	12/1/2005	11/30/2012	14	1.90	0		3.80	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,2-Dichloroethane	12/1/2005	11/30/2012	15	11.50	0		553.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,1-Dichloroethylene	12/1/2005	11/30/2012	15	11.50	0		23,916.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	1,2-Dichloropropane	12/1/2005	11/30/2012	15	11.50	0		226.00	AD	FS	☐	FS		
HH Bioaccumulative Toxics in water	Lead	12/1/2005	11/30/2012	27	0.32	0		3.83	AD	FS	☐	FS		

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AUID **0101A_02** Dixon Creek an Appendix D Intermittent stream with perennial pools from the confluence with the permitted outfall receiving waters tributary upstream to the confluence of the East, Middle, and West Forks of Dixon Creek

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	1		0		4.00	ID	NA	☐	NA		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	1		0		2.00	ID	NA	☐	NA		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	1	20.00	0		126.00	ID	NA	☐	NA		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	1		0		14.10	ID	NA	☑	CS	chlorophyll-a	
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	1		0		1.95	ID	NA	☐	NA		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	1		0		0.33	ID	NA	☐	NA		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	1		0		0.69	ID	NA	☐	NA		

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SEGID 0101B Rock Creek

AUID 0101B_01 — Appendix D, Perennial stream from the confluence with the Canadian River up to SH 136 in the City of Borger

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		3.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		2.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	27	94.69	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	27		15	11.3	1.95	AD	CS	☐	CS	nitrate	
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	28		2	0.55	0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	28		8	1.78	0.69	AD	CS	☐	CS	total phosphorus	
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	27		8	53.24	14.10	AD	CS	☐	CS	chlorophyll-a	

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SEGID 0101C White Deer Creek

AUID 0101C_01 White Deer Creek from the confluence of the Canadian River upstream to the headwater near Ranch Road 294 north of White Deer

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	20		0		3.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	20		0		2.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	20	63.12	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	20		2	26.35	14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	20		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	19		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	20		0		0.33	AD	NC	☐	NC		

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SEGID 0102 Lake Meredith

AUID 0102_01 Lake Meredith downstream of a line from red starboard marker 14 at Blue West Campground to green port marker 11 north of Fritch Canyon

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	29		0		6.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	29		0		4.00	AD	FS	☐	FS		
Acute Toxic Substances in water	Chromium	12/1/2005	11/30/2012	7		0		2,696.33	TR	NA	☐	NA		
Acute Toxic Substances in water	Selenium	12/1/2005	11/30/2012	7		0		20.00	TR	NA	☐	NA		
Acute Toxic Substances in water	Nickel	12/1/2005	11/30/2012	7		0		2,332.37	TR	NA	☐	NA		
Acute Toxic Substances in water	Zinc	12/1/2005	11/30/2012	7		0		585.14	TR	NA	☐	NA		
Acute Toxic Substances in water	Cadmium	12/1/2005	11/30/2012	7		0		54.12	TR	NA	☐	NA		
Acute Toxic Substances in water	Arsenic	12/1/2005	11/30/2012	7		0		340.00	TR	NA	☐	NA		
Acute Toxic Substances in water	Aluminum	12/1/2005	11/30/2012	7		0		991.00	TR	NA	☐	NA		
Acute Toxic Substances in water	Lead	12/1/2005	11/30/2012	7		0		470.51	TR	NA	☐	NA		
Acute Toxic Substances in water	Copper	12/1/2005	11/30/2012	7		0		84.91	TR	NA	☐	NA		
Chronic Toxic Substances in water	Copper	12/1/2005	11/30/2012	7	1.43	0		18.79	TR	NA	☐	NA		
Chronic Toxic Substances in water	Zinc	12/1/2005	11/30/2012	7	2.00	0		233.08	TR	NA	☐	NA		
Chronic Toxic Substances in water	Selenium	12/1/2005	11/30/2012	7	0.55	0		5.00	TR	NA	☐	NA		
Chronic Toxic Substances in water	Lead	12/1/2005	11/30/2012	7	0.13	0		5.95	TR	NA	☐	NA		
Chronic Toxic Substances in water	Chromium	12/1/2005	11/30/2012	7	2.00	0		142.94	TR	NA	☐	NA		
Chronic Toxic Substances in water	Cadmium	12/1/2005	11/30/2012	7	0.15	0		0.43	TR	NA	☐	NA		
Chronic Toxic Substances in water	Arsenic	12/1/2005	11/30/2012	7	6.50	0		150.00	TR	NA	☐	NA		
Chronic Toxic Substances in water	Nickel	12/1/2005	11/30/2012	7	2.50	0		102.50	TR	NA	☐	NA		

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AUID 0102_01 — Lake Meredith downstream of a line from red starboard marker 14 at Blue West Campground to green port marker 11 north of Fritch Canyon

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	131	1.18	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	56		0		29.40	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	56		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	56		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	63	688.77			400.00	AD	NS	☐	NS	chloride	5c
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	61	449.49	1		350.00	AD	NS	☐	NS	sulfate	5c
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	63	2021.10	1		1,300.00	AD	NS	☐	NS	total dissolved solids	5c
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	29		1	0.49	0.11	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	26		0		0.20	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	28		6	34.42	26.70	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	50		0		0.37	AD	NC	☐	NC		

USE Fish Consumption Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
DSHS Advisories, Closures, and Risk Assessments	Restricted-Consumption	12/1/2005	11/30/2012						OE	NS	☑	NS	mercury in edible tissue	5c
HH Bioaccumulative Toxics in water	Nickel	12/1/2005	11/30/2012	7	2.50	0		332.00	TR	NA	☐	NA		
HH Bioaccumulative Toxics in water	Cadmium	12/1/2005	11/30/2012	7	0.19	0		5.00	TR	NA	☐	NA		
HH Bioaccumulative Toxics in water	Chromium	12/1/2005	11/30/2012	7	2.00	0		62.00	TR	NA	☐	NA		
HH Bioaccumulative Toxics in water	Lead	12/1/2005	11/30/2012	7	0.13	0		1.15	TR	NA	☐	NA		

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AUID **0102_01** Lake Meredith downstream of a line from red starboard marker 14 at Blue West Campground to green port marker 11 north of Fritch Canyon

USE **Public Water Supply Use**

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Surface Water HH criteria for PWS average	Selenium	12/1/2005	11/30/2012	7	0.55	0		50.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Nitrate	12/1/2005	11/30/2012	57	0.03	0		10.00	AD	FS	☐	FS		
Surface Water HH criteria for PWS average	Nickel	12/1/2005	11/30/2012	7	2.50	0		332.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Lead	12/1/2005	11/30/2012	7	0.13	0		1.15	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Fluoride	12/1/2005	11/30/2012	63	0.69	0		4.00	AD	FS	☐	FS		
Surface Water HH criteria for PWS average	Arsenic	12/1/2005	11/30/2012	7	7.04	0		10.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Cadmium	12/1/2005	11/30/2012	7	0.19	0		5.00	TR	NA	☐	NA		

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AUID 0102_02 — Lake Meredith upstream of a line from red starboard marker 14 at Blue West Campground to green port marker 11 north of Fritch Canyon

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	7		0		6.00	LD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	7		0		4.00	LD	NC	☐	NC		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	21	1.07	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	7		0		29.40	LD	NC	☐	NC		
High pH	pH	12/1/2005	11/30/2012	7		0		9.00	LD	NC	☐	NC		
Low pH	pH	12/1/2005	11/30/2012	7		0		6.50	LD	NC	☐	NC		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	63	2021.10	1		1,300.00	AD	NS	☐	NS	total dissolved solids	5c
Dissolved Solids	Chloride	12/1/2005	11/30/2012	63	688.78	1		400.00	AD	NS	☐	NS	chloride	5c
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	61	449.49	1		350.00	AD	NS	☐	NS	sulfate	5c
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	7		0		0.20	LD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	7		0		26.70	LD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	7		0		0.11	LD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	7		0		0.37	LD	NC	☐	NC		

USE Fish Consumption Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
DSHS Advisories, Closures, and Risk Assessments	Restricted-Consumption	12/1/2005	11/30/2012						OE	NS	☑	NS	mercury in edible tissue	5c
HH Bioaccumulative Toxics in water	Cadmium	12/1/2005	11/30/2012	7	0.19	0		5.00	TR	NA	☐	NA		
HH Bioaccumulative Toxics in water	Chromium	12/1/2005	11/30/2012	7	2.00	0		62.00	TR	NA	☐	NA		

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AUID **0102_02** Lake Meredith upstream of a line from red starboard marker 14 at Blue West Campground to green port marker 11 north of Fritch Canyon

USE Fish Consumption Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
HH Bioaccumulative Toxics in water	Lead	12/1/2005	11/30/2012	7	0.13	0		1.15	TR	NA	☐	NA		
HH Bioaccumulative Toxics in water	Nickel	12/1/2005	11/30/2012	7	2.50			332.00	LD	NC	☐	NC		

USE Public Water Supply Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Surface Water HH criteria for PWS average	Nickel	12/1/2005	11/30/2012	7	2.50	0		332.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Lead	12/1/2005	11/30/2012	7	0.13	0		1.15	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Nitrate	12/1/2005	11/30/2012	57	0.03	0		10.00	AD	FS	☐	FS		
Surface Water HH criteria for PWS average	Selenium	12/1/2005	11/30/2012	7	0.55	0		50.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Cadmium	12/1/2005	11/30/2012	7	0.19	0		5.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Arsenic	12/1/2005	11/30/2012	7	7.04	0		10.00	TR	NA	☐	NA		
Surface Water HH criteria for PWS average	Fluoride	12/1/2005	11/30/2012	63	0.69	0		4.00	AD	FS	☐	FS		

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SEGID 0102A Big Blue Creek

AUID 0102A_01 Big Blue Creek from the confluence of Lake Meredith upstream to the headwater 500m upstream of Moore CR 2202

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	19		0		2.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	19		0		1.50	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	19	33.03	0		126.00	LD	NC	☐	NC		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	19		0		14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	18		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	19		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	19		0		0.69	AD	NC	☐	NC		

SEGID 0103 Canadian River Above Lake Meredith

AUID 0103_01 From the headwaters of Lake Meredith upstream to the confluence with Sand Creek

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	48		1	4.2	5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	48		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	26	137.94	1		126.00	JQ	NS	☐	CN	bacteria	

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	48		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	48		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	48		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	84	3292.04	0		4,500.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	59	1656.21	1		1,050.00	AD	NS	☐	NS	chloride	5c
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	59	437.02	0		540.00	AD	FS	☐	FS		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	11		2	6.06	0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	11		1	3.49	1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	11		0		0.33	AD	NC	☐	NC		

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AUID 0103_02 — From the confluence with Sand Creek upstream to the confluence with Punta de Agua Creek

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	25		2	4.05	5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	25		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	22	58.32	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	25		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	24		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	24		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	84	3292.04	0		4,500.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	59	1656.21	1		1,050.00	AD	NS	☐	NS	chloride	5c
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	59	437.02	0		540.00	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	24		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	23		4	49.65	14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	24		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	25		1	10.4	0.69	AD	NC	☐	NC		

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AUID 0103_03 — From the confluence with Punta de Agua Creek upstream to the New Mexico State Line

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	24		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	24		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	19	25.86	0		126.00	LD	NC	☐	NC		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	24		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	24		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	24		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	59	1656.21	1		1,050.00	AD	NS	☐	NS	chloride	5c
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	59	437.02	0		540.00	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	84	3292.04	0		4,500.00	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	23		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	23		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	23		1	1.57	0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	21		1	16	14.10	AD	NC	☐	NC		

SEGID 0103A East Amarillo Creek

AUID 0103A_01 From the confluence with the Canadian River upstream to the Thompson Park Lake spillway

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	33		0		2.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	33		0		1.50	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	32	96.19	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	32		1	0.78	0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	32		3	1.64	0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	26		16	15.13	1.95	AD	CS	☐	CS	nitrate	
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	32		16	55.98	14.10	AD	CS	☐	CS	chlorophyll-a	

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AUID **0103A_02** From the Thompson Park Lake spillway upstream to the headwaters of the lake

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		2.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	28		0		1.50	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	28	68.76	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	26		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	28		1	0.43	0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	28		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	28		25	74.56	14.10	AD	CS	☐	CS	chlorophyll-a	

SEGID 0103C Unnamed Tributary of West Amarillo Creek

AUID 0103C_01 Unnamed tributary from the confluence of West Amarillo Creek upstream to the confluence of two unnamed streams near Amarillo Blvd

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	25		0		3.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	25		0		2.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	25	76.88	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	25		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	25		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	24		8	49.28	14.10	AD	CS	☐	CS	chlorophyll-a	
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	23		0		1.95	AD	NC	☐	NC		

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SEGID 0104 Wolf Creek

AUID 0104_01 — From the Oklahoma State Line upstream to the confluence with Plum Creek

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	22		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	22		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	22	33.59	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	22		2	35.35	33.90	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	22		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	22		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	63	171.82	0		420.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	63	49.26	0		125.00	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	64	591.77	0		1,125.00	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	22		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	22		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	22		0		0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	22		0		14.10	AD	NC	☐	NC		

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AUID 0104_02 — From the confluence with Plum Creek upstream to Lake Fryer Dam

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	26		2	3.5	5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	26		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	26	68.94	0		126.00	AD	FS	☐	FS		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	26		0		33.90	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	26		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	26		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	64	591.77	0		1,125.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	63	171.82	0		420.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	63	49.26	0		125.00	AD	FS	☐	FS		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	26		4	27.6	14.10	AD	NC	☐	NC		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	25		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	26		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	26		0		0.69	AD	NC	☐	NC		

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AUID **0104_03** From the Lake Fryer Dam to a point 2.0 km (1.2 mi.) upstream of FM 3045 in Ochiltree County

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	16		1	4.75	5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	16		0		3.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	14	3.69	0		126.00	LD	NC	☐	NC		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	16		0		33.90	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	16		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2005	11/30/2012	16		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	64	591.77	0		1,125.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	63	171.82	0		420.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	63	49.26	0		125.00	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	17		0		1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	16		14	52.04	14.10	AD	CS	☐	CS	chlorophyll-a	
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	17		0		0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	15		1	0.81	0.69	AD	NC	☐	NC		

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SEGID 0105 Rita Blanca Lake

AUID 0105_01 — Rita Blanca Lake from Rita Blanca Dam up to the normal pool elevation of 3860 feet

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	16		1	0.2	3.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	16		1	0.2	2.00	AD	FS	☐	FS		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	16	26.38	0		126.00	LD	NC	☐	NC		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Water Temperature	Temperature	12/1/2005	11/30/2012	16		0		29.40	AD	FS	☐	FS		
High pH	pH	12/1/2005	11/30/2012	16		14	10.2	9.00	AD	NS	☐	NS	pH	5b
Low pH	pH	12/1/2005	11/30/2012	16		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2005	11/30/2012	15	93.27	0		200.00	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2005	11/30/2012	15	936.03	0		1,000.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2005	11/30/2012	15	216.87	1		200.00	AD	NS	☐	NS	chloride	5b
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	14		14	1172.56	26.70	AD	CS	☐	CS	chlorophyll-a	
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	13		13	3.66	0.20	AD	CS	☐	CS	total phosphorus	
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	14		8	3.03	0.37	AD	CS	☐	CS	nitrate	
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	14		9	1.02	0.11	AD	CS	☐	CS	ammonia	

SEGID 0199A Palo Duro Reservoir

AUID 0199A_01 Palo Duro Reservoir from Palo Duro dam up to the normal pool elevation of 2892 feet north of Spearman

USE Aquatic Life Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/1/2005	11/30/2012	13		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2005	11/30/2012	13		0		3.00	AD	FS	☐	FS		
Dissolved Oxygen 24hr average	Dissolved Oxygen 24hr Avg	12/1/2005	11/30/2012	1		0		5.00	ID	NA	☐	NA		
Dissolved Oxygen 24hr minimum	Dissolved Oxygen 24hr Min	12/1/2005	11/30/2012	1		0		3.00	ID	NA	☐	NA		

USE Recreation Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bacteria Geomean	E. coli	12/1/2005	11/30/2012	10	3.45	0		126.00	LD	NC	☐	NC		

USE General Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Nutrient Screening Levels	Chlorophyll-a	12/1/2005	11/30/2012	14		3	82.97	26.70	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2005	11/30/2012	13		7	0.5	0.20	AD	CS	☐	CS	total phosphorus	
Nutrient Screening Levels	Nitrate	12/1/2005	11/30/2012	14		4	0.89	0.37	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2005	11/30/2012	13		2	0.55	0.11	AD	NC	☐	NC		

USE Fish Consumption Use

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bioaccumulative Toxics in fish tissue	Heptachlor	12/1/2005	11/30/2012	2		0		0.20	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Zinc	12/1/2005	11/30/2012	2		0		525.00	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Selenium	12/1/2005	11/30/2012	2		0		4.38	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	PCBs	12/1/2005	11/30/2012	2		0		0.13	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Nickel	12/1/2005	11/30/2012	2		0		35.00	ID	NA	☐	NA		

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AUID **0199A_01** Palo Duro Reservoir from Palo Duro dam up to the normal pool elevation of 2892 feet north of Spearman

USE **Fish Consumption Use**

Method	Parameter	ASMT Start Date	ASMT End Date	# Assd	Mean assd	# exceed	Mean exceed	Criteria	DS Qual	LOS	CF	Int LOS	TCEQ Cause	Cat
Bioaccumulative Toxics in fish tissue	Mirex	12/1/2005	11/30/2012	2		0		0.04	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Mercury	12/1/2005	11/30/2012	2		1	0.58	0.53	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Lead	12/1/2005	11/30/2012	2		0		0.60	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Heptachlor epoxide	12/1/2005	11/30/2012	2		0		0.25	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Dieldrin	12/1/2005	11/30/2012	2		0		0.06	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Copper	12/1/2005	11/30/2012	2		0		250.00	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Chromium	12/1/2005	11/30/2012	2		0		5.25	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Cadmium	12/1/2005	11/30/2012	2		0		0.23	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Arsenic	12/1/2005	11/30/2012	2		0		0.04	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Aldrin	12/1/2005	11/30/2012	2		0		0.14	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Toxaphene	12/1/2005	11/30/2012	2		0		0.83	ID	NA	☐	NA		
Bioaccumulative Toxics in fish tissue	Hexachlorobenzene (HCB)	12/1/2005	11/30/2012	2		0		0.61	ID	NA	☐	NA		