2010 Texas Water Quality Inventory: Assessment Results for Basin 15 - Colorado-Lavaca Coastal

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 2010 period of record is from 12/1/2001 to 11/30/2008. Assessors have the option of going back 10 years (12/1/1998) 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 2010 period of record dates are 12/1/2001 to 11/30/2008. Assessors have the option of including more recently collected data than 12/01/2008, 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:**		
	ID = Inadequate Data (less than 4)	**LD** = Limited Data (less than 9, greater than 3)	**AD** = Adequate Data (10 or more samples)
	JQ = Level of support is based on judgment of the assessor	**SR** = Spatially Not Representative, used with NA	**TR** = Temporally Not Representative, used with NA
	SM = This assessment method is superseded by another method	**OE** = Other information than ambient samples evaluated, generally information is provided by outside entity	
LOS:	**Level of support for this use, method, assessment parameter:**		
	FS = Fully Supporting	**NC** = No Concern	**CN** = Use Concern
	CS = Screening Level Concern	**NS** = Nonsupport	
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 supported or is threatened for one or more designated uses but does not require the development of a TMDL.		
	4a - TMDL has been completed and approved by EPA.Category.	**4b** - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.	**4c** - Nonsupport of the water quality standard is not caused by a pollutant.
	Category 5: The water body does not meet applicable water quality standards or is threatened for one or more designated uses by one or more pollutants.		
	5a - A TMDL is underway, scheduled, or will be scheduled.	**5b** - A review of the water quality standards for this water body will be conducted before a TMDL is scheduled.	**5c** - Additional data and information will be collected before a TMDL is scheduled.

Segment New in 2010? No

SEGID 1501 Tres Palacios Creek Tidal

AUID 1501_01

From the confluence with Willow Dam Creek at Tres Palacios Bay/Turtle Bay upstream to to a point 1.0 km (0.6 miles) upstream of the confluence of Wilson creek in Matagorda 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	12/1/2001	11/30/2008	79		22	3.69	5.00	AD	CS	☐	CS	depressed dissolved oxygen	
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2001	11/30/2008	79		11	2.85	4.00	AD	NS	☐	NS	depressed dissolved oxygen	5b
Dissolved Oxygen 24hr average	Dissolved Oxygen 24hr Avg	12/1/2001	11/30/2008	7		2	4.01	5.00	LD	CN	☑	NS	depressed dissolved oxygen	5b
Dissolved Oxygen 24hr minimum	Dissolved Oxygen 24hr Min	12/1/2001	11/30/2008	7		3	3	4.00	LD	NS	☐	NS	depressed dissolved oxygen	5b
Toxic Substances in sediment	Lead	12/1/2001	11/30/2008	3		0		218.00	ID	NA	☐	NA		
Toxic Substances in sediment	gamma-BHC (Lindane)	12/1/2001	11/30/2008	1		0		0.99	ID	NA	☐	NA		
Toxic Substances in sediment	Zinc	12/1/2001	11/30/2008	3		0		410.00	ID	NA	☐	NA		
Toxic Substances in sediment	Silver	12/1/2001	11/30/2008	3		0		3.70	ID	NA	☐	NA		
Toxic Substances in sediment	PCBs	12/1/2001	11/30/2008	2		0		180.00	ID	NA	☐	NA		
Toxic Substances in sediment	Mercury	12/1/2001	11/30/2008	3		0		410.00	ID	NA	☐	NA		
Toxic Substances in sediment	Dieldrin	12/1/2001	11/30/2008	2		0		4.30	ID	NA	☐	NA		
Toxic Substances in sediment	Copper	12/1/2001	11/30/2008	3		0		270.00	ID	NA	☐	NA		
Toxic Substances in sediment	Chromium	12/1/2001	11/30/2008	3		0		370.00	ID	NA	☐	NA		
Toxic Substances in sediment	Cadmium	12/1/2001	11/30/2008	3		0		9.60	ID	NA	☐	NA		
Toxic Substances in sediment	Arsenic	12/1/2001	11/30/2008	3		0		70.00	ID	NA	☐	NA		
Toxic Substances in sediment	Nickel	12/1/2001	11/30/2008	3		0		51.60	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 Single Sample	Fecal coliform	12/1/2001	11/30/2008	5		2	6500	400.00	SM	NC	☐	NC		

2010 Texas Water Quality Inventory: Assessment Results for Basin 15 - Colorado-Lavaca Coastal

AUID **1501_01** From the confluence with Willow Dam Creek at Tres Palacios Bay/Turtle Bay upstream to to a point 1.0 km (0.6 miles) upstream of the confluence of Wilson creek in Matagorda County

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 Single Sample	Enterococcus	12/1/2001	11/30/2008	63		32	1523.5	89.00	AD	NS	☐	NS	bacteria	5c
Bacteria Geomean	Fecal coliform	12/1/2001	11/30/2008	5	329.57			200.00	SM	CN	☐	CN		
Bacteria Geomean	Enterococcus	12/1/2001	11/30/2008	63	106.41			35.00	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	12/1/2001	11/30/2008	79		0		35.00	AD	FS	☐	FS		
High pH	pH	12/1/2001	11/30/2008	79		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2001	11/30/2008	79		0		6.50	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2001	11/30/2008	80		14	2.46	1.10	AD	NC	☐	NC		
Nutrient Screening Levels	Orthophosphorus	12/1/2001	11/30/2008	77		0		0.46	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2001	11/30/2008	75		0		0.46	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2001	11/30/2008	81		1	0.79	0.66	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2001	11/30/2008	75		34	42.95	21.00	AD	CS	☐	CS	chlorophyll-a	

2010 Texas Water Quality Inventory: Assessment Results for Basin 15 - Colorado-Lavaca Coastal

Segment New in 2010? No

SEGID 1502 Tres Palacios Creek Above Tidal

AUID 1502_01

Middle portion of segment from the confluence with Wallace Creek upstream to confluence with unnamed tributary with NHD RC 12100401013089 about 1.0 km SW of intersection of FM 418 and FM 422 NE of City of Danevang in Wharton 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	12/1/2001	11/30/2008	29		0		5.00	AD	NC	☐	NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2001	11/30/2008	29		0		3.00	AD	FS	☐	FS		
Dissolved Oxygen 24hr average	Dissolved Oxygen 24hr Avg	12/1/2001	11/30/2008	2		0		5.00	ID	NA	☐	NA		
Dissolved Oxygen 24hr minimum	Dissolved Oxygen 24hr Min	12/1/2001	11/30/2008	2		0		3.00	ID	NA	☐	NA		
Habitat	Habitat	12/1/2001	11/30/2008		19.00			20.00	AD	CS	☐	CS	impaired habitat	
Macrobenthic Community	Macrobenthic Community	12/1/2001	11/30/2008		27.40			29.00	AD	NS	☐	CN	impaired macrobenthic community	
Fish Community	Fish Community	12/1/2001	11/30/2008		39.80			39.00	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 Single Sample	E. coli	12/1/2001	11/30/2008	23		5	6956.2	394.00	AD	FS	☐	FS		
Bacteria Single Sample	Fecal coliform	12/1/2001	11/30/2008	6		1	30000	400.00	SM	NC	☐	NC		
Bacteria Geomean	E. coli	12/1/2001	11/30/2008	23	111.65			126.00	AD	FS	☐	FS		
Bacteria Geomean	Fecal coliform	12/1/2001	11/30/2008	6	368.54			200.00	SM	CN	☐	CN		

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	12/1/2001	11/30/2008	29		0		32.20	AD	FS	☐	FS		
High pH	pH	12/1/2001	11/30/2008	28		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2001	11/30/2008	28		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2001	11/30/2008	27	19.63			100.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2001	11/30/2008	27	118.48			250.00	AD	FS	☐	FS		

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AUID **1502_01** Middle portion of segment from the confluence with Wallace Creek upstream to confluence with unnamed tributary with NHD RC 12100401013089 about 1.0 km SW of intersection of FM 418 and FM 422 NE of City of Danevang in Wharton County

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
Dissolved Solids	Total Dissolved Solids	12/1/2001	11/30/2008	31	500.91			800.00	AD	FS	☐	FS		
Nutrient Screening Levels	Nitrate	12/1/2001	11/30/2008	27		3	2.2	1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Orthophosphorus	12/1/2001	11/30/2008	26		5	0.44	0.37	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2001	11/30/2008	26		1	0.38	0.33	AD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2001	11/30/2008	27		1	0.71	0.69	AD	NC	☐	NC		
Nutrient Screening Levels	Chlorophyll-a	12/1/2001	11/30/2008	26		5	53.48	14.10	AD	NC	☐	NC		

AUID **1502_02** Upper portion of segment from the confluence with unnamed tributary about 1.0 km SW of intersection of 418 and 422 NE of City of Danevang in Wharton County upstream to US 59

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
Dissolved Solids	Total Dissolved Solids	12/1/2001	11/30/2008	31	500.91			800.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2001	11/30/2008	27	118.48			250.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2001	11/30/2008	27	19.63			100.00	AD	FS	☐	FS		

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AUID **1502_03** Lower portion of segment from a point 1.0 km (0.6 miles) upstream of the confluence of Wilson Creek upstream to confluence with Wallace Creek Matagorda 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	12/1/2001	11/30/2008	12		3	4.03	5.00	AD	CS	☐	CS	depressed dissolved oxygen	
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/1/2001	11/30/2008	12		0		3.00	AD	FS	☐	FS		
Dissolved Oxygen 24hr average	Dissolved Oxygen 24hr Avg	12/1/2001	11/30/2008	4		3	4.2	5.00	JQ	NS	☐	CN	depressed dissolved oxygen	
Dissolved Oxygen 24hr minimum	Dissolved Oxygen 24hr Min	12/1/2001	11/30/2008	4		0		3.00	LD	NC	☐	NC		
Toxic Substances in sediment	Fluoranthene	12/1/2001	11/30/2008	1		1	4310	2,230.00	ID	NA	☐	NA		
Toxic Substances in sediment	Di-n-butyl phthalate	12/1/2001	11/30/2008	1		0		43.00	ID	NA	☐	NA		
Toxic Substances in sediment	Benz(a)anthracene	12/1/2001	11/30/2008	1		0		1,050.00	ID	NA	☐	NA		
Toxic Substances in sediment	1,3-Dichlorobenzene	12/1/2001	11/30/2008	1		0		350.00	ID	NA	☐	NA		
Toxic Substances in sediment	Pyrene	12/1/2001	11/30/2008	1		1	3020	1,520.00	ID	NA	☐	NA		
Toxic Substances in sediment	Phenanthrene	12/1/2001	11/30/2008	1		0		1,170.00	ID	NA	☐	NA		
Toxic Substances in sediment	Naphthalene	12/1/2001	11/30/2008	1		0		561.00	ID	NA	☐	NA		
Toxic Substances in sediment	Hexachloroethane	12/1/2001	11/30/2008	1		0		13,770.00	ID	NA	☐	NA		
Toxic Substances in sediment	Nitrobenzene	12/1/2001	11/30/2008	1		0		161.06	ID	NA	☐	NA		
Toxic Substances in sediment	Hexachlorobutadiene (HCBD)	12/1/2001	11/30/2008	1		0		550.00	ID	NA	☐	NA		
Toxic Substances in sediment	Dibenz(a,h)anthracene	12/1/2001	11/30/2008	1		0		140.00	ID	NA	☐	NA		
Toxic Substances in sediment	Chrysene	12/1/2001	11/30/2008	1		0		1,290.00	ID	NA	☐	NA		
Toxic Substances in sediment	Benzo(a)pyrene	12/1/2001	11/30/2008	1		0		1,450.00	ID	NA	☐	NA		
Toxic Substances in sediment	Anthracene	12/1/2001	11/30/2008	1		0		845.00	ID	NA	☐	NA		
Toxic Substances in sediment	Acenaphthylene	12/1/2001	11/30/2008	1		0		130.00	ID	NA	☐	NA		
Toxic Substances in sediment	Acenaphthene	12/1/2001	11/30/2008	1		0		89.00	ID	NA	☐	NA		

2010 Texas Water Quality Inventory: Assessment Results for Basin 15 - Colorado-Lavaca Coastal

AUID **1502_03** Lower portion of segment from a point 1.0 km (0.6 miles) upstream of the confluence of Wilson Creek upstream to confluence with Wallace Creek Matagorda 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
Toxic Substances in sediment	1,4-Dichlorobenzene	12/1/2001	11/30/2008	1		0		4,650.00	ID	NA	☐	NA		
Toxic Substances in sediment	Hexachlorobenzene (HCB)	12/1/2001	11/30/2008	1		0		240.00	ID	NA	☐	NA		
Toxic Substances in sediment	Fluorene	12/1/2001	11/30/2008	1		0		536.00	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
Water Temperature	Temperature	12/1/2001	11/30/2008	12		2	32.67	32.20	AD	FS	☐	FS		
High pH	pH	12/1/2001	11/30/2008	12		0		9.00	AD	FS	☐	FS		
Low pH	pH	12/1/2001	11/30/2008	12		0		6.50	AD	FS	☐	FS		
Dissolved Solids	Total Dissolved Solids	12/1/2001	11/30/2008	31	500.91			800.00	AD	FS	☐	FS		
Dissolved Solids	Chloride	12/1/2001	11/30/2008	27	118.48			250.00	AD	FS	☐	FS		
Dissolved Solids	Sulfate	12/1/2001	11/30/2008	27	19.63			100.00	AD	FS	☐	FS		
Nutrient Screening Levels	Chlorophyll-a	12/1/2001	11/30/2008	3		0		14.10	ID	NA	☐	NA		
Nutrient Screening Levels	Nitrate	12/1/2001	11/30/2008	12		1	3.22	1.95	AD	NC	☐	NC		
Nutrient Screening Levels	Orthophosphorus	12/1/2001	11/30/2008	11		0		0.37	AD	NC	☐	NC		
Nutrient Screening Levels	Ammonia	12/1/2001	11/30/2008	6		0		0.33	LD	NC	☐	NC		
Nutrient Screening Levels	Total Phosphorus	12/1/2001	11/30/2008	12		0		0.69	AD	NC	☐	NC		