

Segment ID: 1006 **Water body name: Houston Ship Channel Tidal**

Tidal Stream

San Jacinto River Basin

Total size:

25.6 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Aquatic Life Use

2002	Dissolved Oxygen grab average	No Concern	Goodyear Creek Tidal	1.6	41	1	
2002	Dissolved Oxygen grab average	No Concern	Greens Bayou Tidal	15.5	47	0	
2002	Dissolved Oxygen grab average	No Concern	Houston Ship Channel Tidal	6	71	0	
2002	Dissolved Oxygen grab average	No Concern	Patrick Bayou Tidal	2.5	10	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Goodyear Creek Tidal	1.6	41	1	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Greens Bayou Tidal	15.5	47	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Houston Ship Channel Tidal	6	71	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Patrick Bayou Tidal	2.5	10	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Goodyear Creek Tidal	1.6	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Greens Bayou Tidal	15.5	0		
2002	Dissolved Oxygen 24hr average	Not Assess-Not Represent	Houston Ship Channel Tidal	6	5	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Patrick Bayou Tidal	2.5	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Goodyear Creek Tidal	1.6	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Greens Bayou Tidal	15.5	0		
2002	Dissolved Oxygen 24hr minimum	Not Assess-Not Represent	Houston Ship Channel Tidal	6	5	0	
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Patrick Bayou Tidal	2.5	0		
2002	Acute Metals in water	Fully Supporting	Houston Ship Channel Tidal	6	26		
2002	Acute Metals in water Copper	Fully Supporting	Patrick Bayou Tidal	2.5	35	0	
2002	Acute Metals in water Metals	No Concern-Limited Data	Patrick Bayou Tidal	2.5	7		
2002	Chronic Metals in water	Fully Supporting	Houston Ship Channel Tidal	6	26		
2002	Chronic Metals in water Copper	Fully Supporting	Patrick Bayou Tidal	2.5	35		3.7

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Aquatic Life Use (continued)

2002	Chronic Metals in water Metals	No Concern-Limited Data	Patrick Bayou Tidal	2.5	7		
2002	Acute Organics in water	Not Assessed	Houston Ship Channel Tidal	6	3		
2002	Chronic Organics in water	Not Assessed	Houston Ship Channel Tidal	6	3		
2002	Chronic Toxicity tests in water	Fully Supporting	Patrick Bayou Tidal	2.5	19	0	
2002	Acute Toxicity tests in sediment	Not Supporting	Patrick Bayou Tidal	2.5	16	7	
2002	Chronic Toxicity tests in sediment	No Concern-Limited Data	Houston Ship Channel Tidal	6	4	0	
2002	Chronic Toxicity tests in sediment	Not Assessed	Patrick Bayou Tidal	2.5	0		
2002	Overall Aquatic Life Use	Fully Supporting	Goodyear Creek Tidal	1.6			
2002	Overall Aquatic Life Use	Fully Supporting	Greens Bayou Tidal	15.5			
2002	Overall Aquatic Life Use	Fully Supporting	Houston Ship Channel Tidal	6			
2002	Overall Aquatic Life Use	Not Supporting	Patrick Bayou Tidal	2.5			

General Use

2002	Water Temperature	Not Assess-Not Represent	Goodyear Creek Tidal	1.6	7	1	
2002	Water Temperature	Fully Supporting	Greens Bayou Tidal	15.5	22	0	
2002	Water Temperature	Fully Supporting	Houston Ship Channel Tidal	6	73	0	
2004	Water Temperature	Not Assess-Not Represent	Patrick Bayou Tidal	2.5	18	3	
2002	pH	Fully Supporting	Goodyear Creek Tidal	1.6	41	0	
2002	pH	Fully Supporting	Greens Bayou Tidal	15.5	22	2	
2002	pH	Fully Supporting	Houston Ship Channel Tidal	6	72	0	

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General Use (continued)

2002	pH	Fully Supporting	Patrick Bayou Tidal	2.5	11	0	
2002	Enterococci (1006, 1007) single sample	Not Assessed	Greens Bayou Tidal	15.5	2	1	
2002	Enterococci (1006, 1007) single sample	Not Assessed	Houston Ship Channel Tidal	6	2	1	
2002	Enterococci (1006, 1007) single sample	Not Assessed	Patrick Bayou Tidal	2.5	1	0	
2002	Enterococci (1006, 1007) geometric mean	Not Assessed	Greens Bayou Tidal	15.5	2		227
2002	Enterococci (1006, 1007) geometric mean	Not Assessed	Houston Ship Channel Tidal	6	2		547.8
2002	Enterococci (1006, 1007) geometric mean	Not Assessed	Patrick Bayou Tidal	2.5	1		
2002	Overall General Use	Fully Supporting	Goodyear Creek Tidal	1.6			
2002	Overall General Use	Fully Supporting	Greens Bayou Tidal	15.5			
2002	Overall General Use	Fully Supporting	Houston Ship Channel Tidal	6			
2004	Overall General Use	Fully Supporting	Patrick Bayou Tidal	2.5			

Fish Consumption Use

2004	Advisories and Closures Restricted and No-Consump	Not Supporting	Goodyear Creek Tidal	1.6			
2004	Advisories and Closures Restricted and No-Consump	Not Supporting	Greens Bayou Tidal	15.5			
2004	Advisories and Closures Restricted and No-Consump	Not Supporting	Houston Ship Channel Tidal	6			
2004	Advisories and Closures Restricted and No-Consump	Not Supporting	Patrick Bayou Tidal	2.5			
2004	Human Health Criteria Mercury	Not Supporting	Patrick Bayou Tidal	2.5	13		0.123

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Fish Consumption Use (continued)

2002	Human Health Criteria Metals	Fully Supporting	Houston Ship Channel Tidal	6	26		
2002	Human Health Criteria Organics	Not Assessed	Houston Ship Channel Tidal	6	3		
2004	Overall Fish Consumption Use	Not Supporting	Goodyear Creek Tidal	1.6			
2004	Overall Fish Consumption Use	Not Supporting	Greens Bayou Tidal	15.5			
2004	Overall Fish Consumption Use	Not Supporting	Houston Ship Channel Tidal	6			
2004	Overall Fish Consumption Use	Not Supporting	Patrick Bayou Tidal	2.5			

Overall Use Support

2004		Not Supporting	Goodyear Creek Tidal	1.6			
2004		Not Supporting	Greens Bayou Tidal	15.5			
2004		Not Supporting	Houston Ship Channel Tidal	6			
2004		Not Supporting	Patrick Bayou Tidal	2.5			

Nutrient Enrichment Concern

2002	Ammonia Nitrogen	Concern	Goodyear Creek Tidal	1.6	52	32	
2002	Ammonia Nitrogen	No Concern	Greens Bayou Tidal	15.5	89	1	
2002	Ammonia Nitrogen	No Concern	Houston Ship Channel Tidal	6	96	21	
2002	Ammonia Nitrogen	No Concern	Patrick Bayou Tidal	2.5	12	1	
2002	Nitrite + Nitrate Nitrogen	Not Assessed	Goodyear Creek Tidal	1.6	0		
2002	Nitrite + Nitrate Nitrogen	Not Assessed	Greens Bayou Tidal	15.5	8	5	
2002	Nitrite + Nitrate Nitrogen	Concern	Houston Ship Channel Tidal	6	39	15	
2002	Nitrite + Nitrate Nitrogen	No Concern	Patrick Bayou Tidal	2.5	11	3	
2002	Orthophosphorus	Not Assessed	Goodyear Creek Tidal	1.6	0		
2002	Orthophosphorus	Not Assessed	Greens Bayou Tidal	15.5	8	5	
2002	Orthophosphorus	No Concern	Houston Ship Channel Tidal	6	38	4	

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Nutrient Enrichment Concern (continued)

2002	Orthophosphorus	No Concern	Patrick Bayou Tidal	2.5	11	1	
2002	Total Phosphorus	Not Assessed	Goodyear Creek Tidal	1.6	0		
2002	Total Phosphorus	Not Assessed	Greens Bayou Tidal	15.5	8	3	
2002	Total Phosphorus	No Concern	Houston Ship Channel Tidal	6	38	6	
2002	Total Phosphorus	No Concern	Patrick Bayou Tidal	2.5	12	1	
2002	Overall Nutrient Enrichment Concerns	Concern	Goodyear Creek Tidal	1.6			
2002	Overall Nutrient Enrichment Concerns	No Concern	Greens Bayou Tidal	15.5			
2002	Overall Nutrient Enrichment Concerns	Concern	Houston Ship Channel Tidal	6			
2002	Overall Nutrient Enrichment Concerns	No Concern	Patrick Bayou Tidal	2.5			

Algal Growth Concern

2002	Chlorophyll a	Not Assessed	Goodyear Creek Tidal	1.6	0		
2002	Chlorophyll a	Not Assessed	Greens Bayou Tidal	15.5	8	1	
2002	Chlorophyll a	No Concern	Houston Ship Channel Tidal	6	39	0	
2002	Chlorophyll a	No Concern	Patrick Bayou Tidal	2.5	12	0	

Sediment Contaminants Concern

2002	PEL Metals in sediment Mercury	Concern	Patrick Bayou Tidal	2.5	17	15	
2002	PEL Metals in sediment Zinc	Concern	Patrick Bayou Tidal	2.5	15	9	
2002	85% Metals in sediment Barium	Concern	Patrick Bayou Tidal	2.5	18	15	
2002	85% Metals in sediment Chromium	Concern	Patrick Bayou Tidal	2.5	15	12	
2002	85% Metals in sediment Copper	Concern	Patrick Bayou Tidal	2.5	15	13	

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Sediment Contaminants Concern (continued)

2002	85% Metals in sediment Mercury	Concern	Patrick Bayou Tidal	2.5	17	17	
2002	85% Metals in sediment Nickel	Concern	Patrick Bayou Tidal	2.5	14	11	
2002	85% Metals in sediment Zinc	Concern	Patrick Bayou Tidal	2.5	15	13	
2002	Metals in sediment	Not Assessed	Houston Ship Channel Tidal	6	5		
2002	PEL Organics in sediment Acenaphthene	Concern	Patrick Bayou Tidal	2.5	24	23	
2002	PEL Organics in sediment Acenaphthylene	Concern	Patrick Bayou Tidal	2.5	26	26	
2002	PEL Organics in sediment Anthracene	Concern	Patrick Bayou Tidal	2.5	24	23	
2002	PEL Organics in sediment Benzo(a)anthracene	Concern	Patrick Bayou Tidal	2.5	23	21	
2002	PEL Organics in sediment Benzo(a)pyrene	Concern	Patrick Bayou Tidal	2.5	22	21	
2002	PEL Organics in sediment Chrysene	Concern	Patrick Bayou Tidal	2.5	22	20	
2002	PEL Organics in sediment DDT	Not Assessed	Houston Ship Channel Tidal	6	2	1	
2002	PEL Organics in sediment Fluoranthene	Concern	Patrick Bayou Tidal	2.5	23	22	
2002	PEL Organics in sediment Fluorene	Concern	Patrick Bayou Tidal	2.5	22	21	
2002	PEL Organics in sediment Naphthalene	Concern	Patrick Bayou Tidal	2.5	14	12	
2002	PEL Organics in sediment Phenanthrene	Concern	Patrick Bayou Tidal	2.5	28	26	
2002	PEL Organics in sediment Pyrene	Concern	Patrick Bayou Tidal	2.5	29	28	
2002	85% Organics in sediment 1,3-Dichlorobenzene	Concern	Patrick Bayou Tidal	2.5	11	9	

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Sediment Contaminants Concern (continued)

2002	85% Organics in sediment Acenaphthene	No Concern	Patrick Bayou Tidal	2.5	24	3	
2002	85% Organics in sediment Acenaphthylene	Concern	Patrick Bayou Tidal	2.5	26	13	
2002	85% Organics in sediment Anthracene	Concern	Patrick Bayou Tidal	2.5	24	7	
2002	85% Organics in sediment Benzo(a)anthracene	Concern	Patrick Bayou Tidal	2.5	23	7	
2002	85% Organics in sediment Benzo(a)pyrene	Concern	Patrick Bayou Tidal	2.5	22	9	
2002	85% Organics in sediment Benzo(b)fluoranthene	Concern	Patrick Bayou Tidal	2.5	10	10	
2002	85% Organics in sediment Benzo(ghi)perylene	Not Assessed	Patrick Bayou Tidal	2.5	9	7	
2002	85% Organics in sediment Benzo(k)fluoranthene	Concern	Patrick Bayou Tidal	2.5	11	7	
2002	85% Organics in sediment Chrysene	Concern	Patrick Bayou Tidal	2.5	22	10	
2002	85% Organics in sediment DDT	Not Assessed	Houston Ship Channel Tidal	6	2	1	
2002	85% Organics in sediment Fluoranthene	Concern	Patrick Bayou Tidal	2.5	23	18	
2002	85% Organics in sediment Fluorene	No Concern	Patrick Bayou Tidal	2.5	22	5	
2002	85% Organics in sediment Hexachlorobenzene	Concern	Patrick Bayou Tidal	2.5	17	17	
2002	85% Organics in sediment Hexachlorobutadiene	Concern	Patrick Bayou Tidal	2.5	13	13	
2002	85% Organics in sediment Naphthalene	No Concern	Patrick Bayou Tidal	2.5	14	4	
2002	85% Organics in sediment Phenanthrene	Concern	Patrick Bayou Tidal	2.5	28	16	

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Sediment Contaminants Concern (continued)

2002	85% Organics in sediment Pyrene	Concern	Patrick Bayou Tidal	2.5	29	22	
2002	85% Organics in sediment bis(2ethylhexyl)phthalate	Concern	Patrick Bayou Tidal	2.5	11	9	
2002	Overall Sediment Contaminant Concerns	Not Assessed	Goodyear Creek Tidal	1.6			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Greens Bayou Tidal	15.5			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Houston Ship Channel Tidal	6			
2002	Overall Sediment Contaminant Concerns	Concern	Patrick Bayou Tidal	2.5			

Fish Tissue Contaminants Concern

2002	Metals in fish tissue	Not Assessed	Houston Ship Channel Tidal	6	1		
2002	Organics in fish tissue	Not Assessed	Houston Ship Channel Tidal	6	1		
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Goodyear Creek Tidal	1.6			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Greens Bayou Tidal	15.5			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Houston Ship Channel Tidal	6			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Patrick Bayou Tidal	2.5			

Narrative Criteria Concern

2002	Fecal coliform single sample	Concern	Goodyear Creek Tidal	1.6	60	59	
2002	Fecal coliform geometric mean	Concern	Goodyear Creek Tidal	1.6	60		45,721

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Narrative Criteria Concern (continued)

2002	Overall Narrative Criteria Concerns	Concern	Goodyear Creek Tidal	1.6			
2002	Overall Narrative Criteria Concerns	No Concern	Greens Bayou Tidal	15.5			
2002	Overall Narrative Criteria Concerns	No Concern	Houston Ship Channel Tidal	6			
2002	Overall Narrative Criteria Concerns	No Concern	Patrick Bayou Tidal	2.5			

Overall Secondary Concern

2002		Concern	Goodyear Creek Tidal	1.6			
2002		No Concern	Greens Bayou Tidal	15.5			
2002		Concern	Houston Ship Channel Tidal	6			
2002		Concern	Patrick Bayou Tidal	2.5			