

Baffin Bay/Alazan Bay/Cayo del Grullo/Laguna Salada

Segment: 2492 Bays and Estuaries

Basin number: 24
Basin group: E
Water body classification: Classified
Water body type: Estuary
Water body length / area: 49.8 Sq. miles
Water body uses: Aquatic Life Use, Contact Recreation Use, General Use, Fish Consumption Use, Oyster Waters Use

Additional Information: The aquatic life, contact recreation and general uses are fully supported. The fish consumption and oyster water uses were not assessed.

2002 Concerns:			
Assessment Area	Use or Concern	Concern Status	Description of Concern
Upper Baffin Bay near Los Olmos and Fernando Creek arms	Algal Growth Concern	Concern	excessive algal growth

Monitoring sites used:		
Assessment Area	Station ID	Station Description
Lower Baffin Bay near Salvation Point and Black Bluff	13450	BAFFIN BAY AT CM 14
Upper Baffin Bay near Los Olmos and Fernando Creek arms	13452	BAFFIN BAY AT CM 36

Historical fish kills:			
Date	Location	Fish Killed	Suspected Cause
10/20/1998	Near Drum Pt. In Cayo Del Grullo	1527	Physical Damage/Trauma

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

Dissolved Oxygen grab average	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8	15	0	
Dissolved Oxygen grab average	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16	0	
Dissolved Oxygen grab minimum	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8	15	0	
Dissolved Oxygen grab minimum	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16	0	
Dissolved Oxygen 24hr average	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8	0		
Dissolved Oxygen 24hr average	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	0		
Overall Aquatic Life Use	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Aquatic Life Use	Not Assessed	Remainder of segment	33.8			
Overall Aquatic Life Use	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Contact Recreation Use

Enterococci single sample	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8	0		
Enterococci single sample	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	0		

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Contact Recreation Use (continued)

Enterococci geometric mean	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8	0		
Enterococci geometric mean	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	0		
Fecal coliform single sample	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8	15	0	
Fecal coliform single sample	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16	0	
Fecal coliform geometric mean	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8	15		1
Fecal coliform geometric mean	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16		0.984
Overall Recreation Use	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Recreation Use	Not Assessed	Remainder of segment	33.8			
Overall Recreation Use	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

General Use

Water Temperature	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8	15	0	
Water Temperature	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16	0	
pH	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8	15	0	
pH	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16	0	

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General Use (continued)

Overall General Use	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall General Use	Not Assessed	Remainder of segment	33.8			
Overall General Use	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Fish Consumption Use

Overall Fish Consumption Use	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Fish Consumption Use	Not Assessed	Remainder of segment	33.8			
Overall Fish Consumption Use	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Oyster Waters Use

TDH Maps	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8			
TDH Maps	Not Assessed	Remainder of segment	33.8			
TDH Maps	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Overall Use Support

	Fully Supporting	Lower Baffin Bay near Salvation Point and Black Bluff	8			
	Not Assessed	Remainder of segment	33.8			
	Fully Supporting	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Nutrient Enrichment Concern

Ammonia Nitrogen	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8	18	4	
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Nutrient Enrichment Concern (continued)

Ammonia Nitrogen	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	17	3	
Nitrite + Nitrate Nitrogen	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8	18	1	
Nitrite + Nitrate Nitrogen	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	17	1	
Orthophosphorus	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8	16	0	
Orthophosphorus	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	15	1	
Total Phosphorus	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8	17	0	
Total Phosphorus	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	16	3	
Overall Nutrient Enrichment Concerns	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Nutrient Enrichment Concerns	Not Assessed	Remainder of segment	33.8			
Overall Nutrient Enrichment Concerns	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Algal Growth Concern

Chlorophyll a	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8	19	4	
Chlorophyll a	Not Assessed	Remainder of segment	33.8			
Chlorophyll a	Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	18	7	

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Sediment Contaminants Concern

Metals in sediment	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8	4		
Metals in sediment	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8	4		
Overall Sediment Contaminant Concerns	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Sediment Contaminant Concerns	Not Assessed	Remainder of segment	33.8			
Overall Sediment Contaminant Concerns	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Fish Tissue Contaminants Concern

Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Remainder of segment	33.8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Narrative Criteria Concern

Overall Narrative Criteria Concerns	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8			
Overall Narrative Criteria Concerns	No Concern	Remainder of segment	33.8			
Overall Narrative Criteria Concerns	No Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms	8			

Overall Secondary Concern

	No Concern	Lower Baffin Bay near Salvation Point and Black Bluff	8			
	No Concern	Remainder of segment	33.8			

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Overall Secondary Concern (continued)

	Concern	Upper Baffin Bay near Los Olmos and Fernando Creek arms		8				
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