

2011 Budd Inlet Marine Sediment Monitoring



Sediment Quality Triad Data Summary

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Results

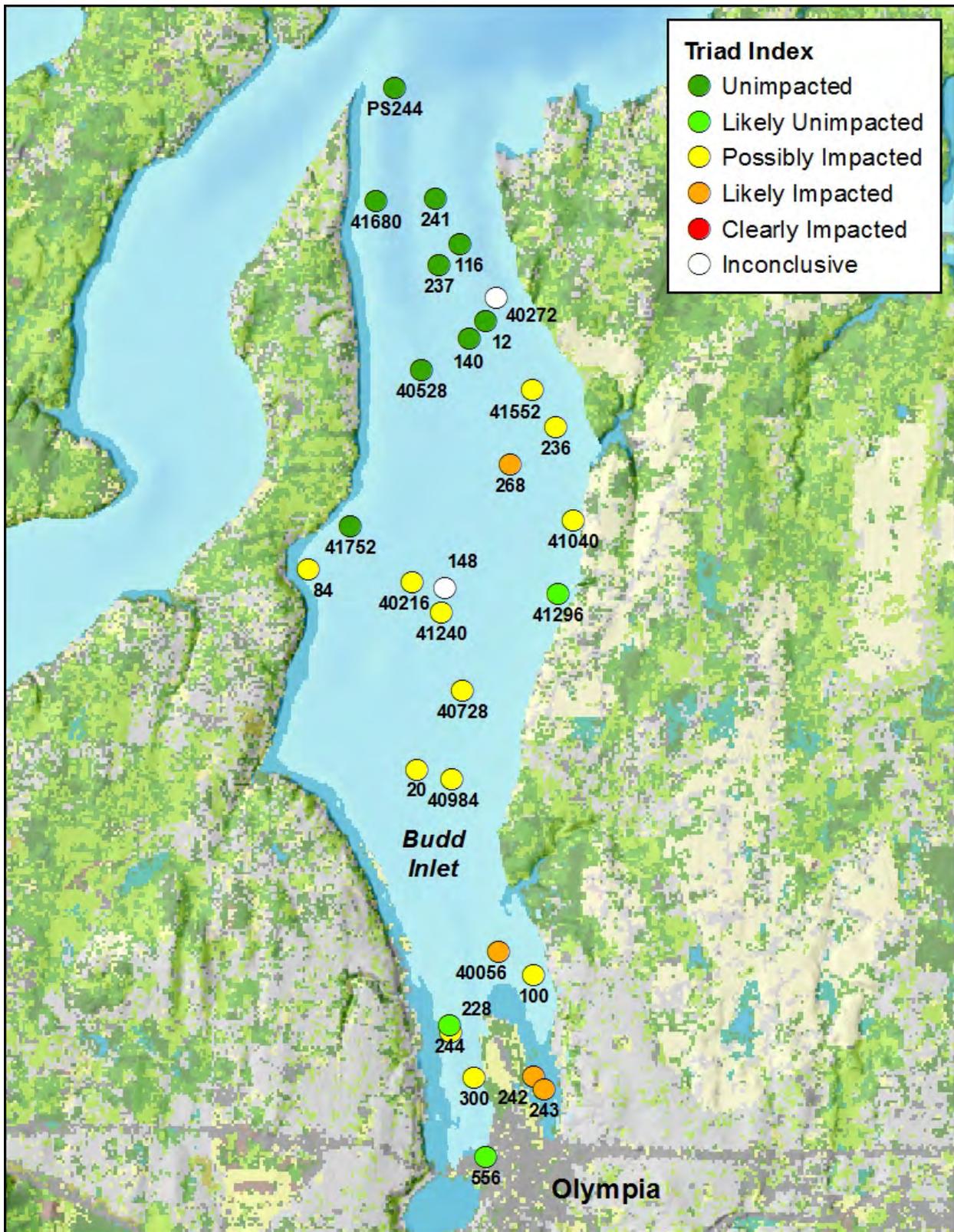
Sediment Triad Quality Index categories identified for stations in the 2011 Budd Inlet survey.

Sample	Chemistry Index Category	Toxicity Index Category	Interim Benthic Index Category	Triad Index Category
PSUW012	Minimum exposure	Non-Toxic	Unaffected	Unimpacted
PSUW020	Minimum exposure	Moderate	Adversely affected	Possibly impacted
PSUW084	Minimum exposure	Moderate	Adversely affected	Possibly impacted
PSUW100	Low exposure	Low	Adversely affected	Possibly impacted
PSUW116	Minimum exposure	Low	Unaffected	Unimpacted
PSUW140	Minimum exposure	Non-Toxic	Unaffected	Unimpacted
PSUW148	Minimum exposure	Low	Adversely affected	Inconclusive
PSUW228	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UWNO236	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UWNO237	Minimum exposure	Low	Unaffected	Unimpacted
UWNO241	Minimum exposure	Non-Toxic	Unaffected	Unimpacted
UWNO242	Low exposure	Moderate	Adversely affected	Likely impacted
UWNO243	Low exposure	Moderate	Adversely affected	Likely impacted
UWNO244	Minimum exposure	Non-Toxic	Adversely affected	Likely unimpacted
PSUW244	Minimum exposure	Non-Toxic	Unaffected	Unimpacted
PSUW268	Minimum exposure	High	Adversely affected	Likely impacted
PSUW300	Minimum exposure	Moderate	Adversely affected	Possibly impacted
PSUW556	Low exposure	Non-Toxic	Adversely affected	Likely unimpacted
UW40056	Low exposure	Moderate	Adversely affected	Likely impacted
UW40216	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UW40272	Minimum exposure	Low	Adversely affected	Inconclusive
UW40528	Minimum exposure	Moderate	Unaffected	Unimpacted
UW40728	Low exposure	Low	Adversely affected	Possibly impacted

Sample	Chemistry Index Category	Toxicity Index Category	Interim Benthic Index Category	Triad Index Category
UW40984	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UW41040	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UW41240	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UW41296	Minimum exposure	Non-Toxic	Adversely affected	Likely unimpacted
UW41552	Minimum exposure	Moderate	Adversely affected	Possibly impacted
UW41680	Minimum exposure	Moderate	Unaffected	Unimpacted
UW41752	Minimum exposure	Non-Toxic	Unaffected	Unimpacted

Spatial extent of Sediment Triad Quality Index categories for the 2011 Budd Inlet survey.

Chemistry Index	Toxicity Index	Interim Benthic Index	Triad Index	% of Area
Minimum exposure	Non-Toxic	Unaffected	Unimpacted	16.7
	Low			6.7
	Moderate			6.7
Low exposure	Non-Toxic	Adversely affected	Likely unimpacted	6.7
	Low		Possibly impacted	3.3
Minimum exposure	Moderate		Possibly impacted	6.7
Low exposure			Likely impacted	33.3
Minimum exposure	High		Likely impacted	10.0
	Low		Inconclusive	3.3



Spatial patterns of sediment condition in the 2011 Urban Waters Initiative sediment survey. *The numbers on the map are the station identifiers.*

Incidence and spatial extent of sediment condition, as measured by the Sediment Quality Triad Index, in the 2011 Urban Waters Initiative sediment survey.

Sediment Triad Index Category	Stations		Area	
	No.	(%)	km ²	(%)
Budd Inlet	30	(100.0)	17.4	(100.0)
Unimpacted	9	(30.0)	5.2	(30.1)
Likely unimpacted	3	(10.0)	1.7	(10.0)
Possibly impacted	12	(40.0)	7.0	(40.1)
Likely impacted	4	(13.3)	2.3	(13.4)
Clearly impacted	0	(0.0)	0.0	(0.0)
Inconclusive	2	(6.7)	1.2	(6.7)

Comparison with the Region

Incidence and spatial extent of sediment quality in Budd Inlet, South Sound monitoring region, and all of Puget Sound, as measured with the Sediment Quality Triad Index.

Sediment Quality Triad Index Category	Regional Baseline		Second Baseline					
	Stations		Stations					
	No.	(%)	No.	(%)				
Budd Inlet	Not Available		30	(100.0)				
Unimpacted			9	(30.0)				
Likely unimpacted			3	(10.0)				
Possibly impacted			12	(40.0)				
Likely impacted			4	(13.3)				
Clearly impacted			0	(0.0)				
Inconclusive			2	(6.7)				
South Sound	42	(100.0)	341.6	(100.0)	55	(100.0)	317.7	(100.0)
Unimpacted	24	(57.1)	211.2	(61.8)	30	(54.5)	210.2	(66.2)
Likely unimpacted	14	(33.3)	120.2	(35.2)	12	(21.8)	52.7	(16.6)
Possibly impacted	2	(4.8)	9.8	(2.9)	7	(12.7)	19.9	(6.3)
Likely impacted	2	(4.8)	0.5	(0.2)	1	(1.8)	2.1	(0.7)
Clearly impacted	0	(0.0)	0.0	(0.0)	0	(0.0)	0.0	(0.0)
Inconclusive	0	(0.0)	0.0	(0.0)	5	(9.1)	32.8	(10.3)
Total Study Area	381	(100.0)	2294.1	(100.0)	Available after 2014			
Unimpacted	221	(58.0)	1498.3	(65.3)				
Likely unimpacted	115	(30.2)	695.3	(30.3)				
Possibly impacted	24	(6.3)	66.7	(2.9)				
Likely impacted	14	(3.7)	3.0	(0.1)				
Clearly impacted	2	(0.5)	0.2	(0.0)				
Inconclusive	5	(1.3)	30.5	(1.3)				