











Media	Analysis	Number of samples collected	Number of sample results obtained from laboratory	Number of sample results reviewed for QA/QC	% Results reviewed for QA/QC
Water	TSS, DOC, TOC	81	81	81	100%
Sediment	Grain size and Solids content	42	42	*	*
Water	PCB (209 Congeners)	174	174	174	100%
Sediment	PCB (209 Congeners)	42	42	42	100%
Sediment	тос	42	42	42	100%
Fish	PCB (209 Congeners), Lipid and Moisture content*	58	58	58	100%

Summary Statistics for DOC and TSS by Sample Type

	Count	Mean	Median	Minimum	Maximum	Standard Deviation
Ambient samples						
DOC (mg/L)	40	6.3	6.3	2.3	15.5	2.3
TSS (mg/L)	48	31.8	30	2	93	20.6
Effluent samples						
DOC (mg/L)		15.2	10.4	2.5	48.5	12.0
TSS (mg/L)	16	27.9	17	2	137	34.6
Runoff samples						
DOC (mg/L)	0	7.6	7.3	5.6	11.5	1.7
TSS (mg/L)	9	115	99	63	221	57









Comparison of Percent Stations Exceeding
Water/Tissue Quality Standards

Sampling		Water ^a	Catfish⁵	Seatrout/Atlantic Croaker ^b
	Stations sampled	32	45	
2002-2003	Stations that exceed standard	12	36	Not sampled
	Station exceedance (%)	38%	80%	
	Stations sampled	37	26	19
2008	Stations that exceed standard	15	19	16
	Station exceedance (%)	41%	73%	84%
	Stations sampled	48	30	18°
2009	Stations that exceed standard	28	24	16°
	Station exceedance (%)	58%	80%	89%
a WQS (0. b DSHS He c Species * ∑43 cong	ealth Assessment Comparison Val sampled	ue (47 ng	/g)	





Correla	tions	Betw	een F	св	and	Water	Col	umn Para	meters	
	DOC (mg/L)	TOC (mg/L)	TSS (mg/L)			Dissolved PCB (ng/L)				
DOC (mg/L)	1							All uniq		
TOC (mg/L)	.995**	1					+		ations of and sample	
TSS (mg/L)	.165	.152	1					type (n=		
Suspended Total PCB (ng/L)	.034	.056	.067		1			-		
Dissolved Total PCB (ng/L)	.085	.098	.044	.7	89**	1				
Ambient	Ambient				DOC (mg/L)	TOC (mg/L)	TSS (mg/L) Suspended Total PCB (ng/L)	Dissolved Total PCB (ng/L)	
samples only \longrightarrow		\rightarrow	DOC (mg	g/L)	1					
(n=48)			TOC (mg/L)		.961**	1				
			TSS (mg/L)		045	126	1			
 Bolded and double asterisked correlations are significant (two tailed) at the p=0.01 level and the p=0.05 level for a single asterisk 		are	Suspended Total PCB (ng/L)		.327*	.415**	.122	1		
		the	Dissolved Total PCB (ng/L)		.573**	.628**	.196	.790**	1	









Parameter	In-stream Water	Bed Sediment	Tissue
TSS	Y	NA	NA
DOC	Y	NA	NA
тос	Y	Y	NA
Solids Content	NA	Y	NA
Grain size	NA	Y	NA
Lipid content	NA	NA	Y
PCB dissolved in water	Y	NA	NA
PCB in suspended sediment	Y	NA	NA
PCB in sediment	NA	Y	NA
PCB in fish tissue	NA	NA	Y
Dioxin dissolved in water	Y	NA	NA
Dioxin in suspended sediment	Y	NA	NA
Dioxin in sediment	NA	Y	NA
Dioxin in fish tissue	NA	NA	Y

Survey of PCBs and Dioxin in the Galveston Bay System - Selection Criteria

- Reference Conditions
- Potential Sources
- Spatial Distribution
- Physiography and hydrography
- Add-on opportunities
- Secondary considerations



Snapshot of PCBs and Dioxin in the Houston Ship Channel and Galveston Bay - Selection Criteria

- Provides a framework for decision making for the PCB/dioxin constituents on a system-wide basis.
- Includes snapshot of PCBs and dioxins in sediment and tissue in the HSC and a snapshot of PCBs and dioxins in water in the HSC and Galveston Bay.
- Station selection based on high concentrations observed from 2002-2003, 2008 and 2009 sampling results.
- Monitoring plan consists of collecting 25 high-volume water samples, 21 bottom sediment samples, and up to 21 tissue samples.
- Proposed locations may change.



