

Appendix C. COC Concentration and Mass Flux Estimates – Non-detect substitution Method 1 (0.5RL)

Table C-1. Groundwater Discharge Concentration and Mass Flux Summary - 2,4-DDD (Method 1)*

Sub-basin Name	IMPACTED AREAS							
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet				0	0	0	0	
Commencement Bay				0	0	0	0	
Hood Canal North				0	0	0	0	
Elliott Bay	5.50E-04	21	90	2.1	21	3.72E-05	3.72E-04	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca				0	0	0	0	
Main Basin				0	0	0	0	
Port Gardner				0	0	0	0	
San Juan Islands				0	0	0	0	
Sinclair/Dyes Inlet				0	0	0	0	
South Sound East				0	0	0	0	
South Sound West				0	0	0	0	
Strait of Georgia				0	0	0	0	
Whidbey Basin				0	0	0	0	
Subtotal				2.1	21	3.72E-05	3.72E-04	
Sub-basin Name	URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	2.50E-04	21	90	5	47	3.73E-05	3.73E-04	
Commencement Bay	2.50E-04	21	90	35	353	2.79E-04	2.79E-03	
Hood Canal North	2.50E-04	21	90	18	179	1.41E-04	1.41E-03	
Elliott Bay	2.50E-04	21	90	9	93	7.30E-05	7.30E-04	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca	2.50E-04	21	90	12	124	9.74E-05	9.74E-04	
Main Basin	2.50E-04	21	90	147	1466	1.16E-03	1.16E-02	
Port Gardner	2.50E-04	21	90	7	73	5.77E-05	5.77E-04	
San Juan Islands	2.50E-04	21	90	5	50	3.92E-05	3.92E-04	
Sinclair/Dyes Inlet	2.50E-04	21	90	126	1257	9.91E-04	9.91E-03	
South Sound East	2.50E-04	21	90	170	1702	1.34E-03	1.34E-02	
South Sound West	2.50E-04	21	90	85	848	6.69E-04	6.69E-03	
Strait of Georgia	2.50E-04	21	90	39	386	3.04E-04	3.04E-03	
Whidbey Basin	2.50E-04	21	90	44	444	3.50E-04	3.50E-03	
Subtotal				702	7022	0.01	0.06	
Sub-basin Name	NON-URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	2.45E-04	21	90	38	384	2.97E-04	2.97E-03	
Commencement Bay				0	0	0	0	
Hood Canal North	2.45E-04	21	90	146	1458	1.13E-03	1.13E-02	
Elliott Bay				0	0	0	0	
Hood Canal South	2.45E-04	21	90	574	5741	4.44E-03	4.44E-02	
Strait of Juan de Fuca	2.45E-04	21	90	53	528	4.08E-04	4.08E-03	
Main Basin	2.45E-04	21	90	133	1331	1.03E-03	1.03E-02	
Port Gardner	2.45E-04	21	90	14	139	1.08E-04	1.08E-03	
San Juan Islands	2.45E-04	21	90	100	998	7.71E-04	7.71E-03	
Sinclair/Dyes Inlet	2.45E-04	21	90	52	520	4.02E-04	4.02E-03	
South Sound East	2.45E-04	21	90	193	1929	1.49E-03	1.49E-02	
South Sound West	2.45E-04	21	90	549	5486	4.24E-03	4.24E-02	
Strait of Georgia	2.45E-04	21	90	108	1076	8.31E-04	8.31E-03	
Whidbey Basin	2.45E-04	21	90	169	1686	1.30E-03	1.30E-02	
Subtotal				2128	21277	0.02	0.16	
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)	
						0.02	0.22	

Table C-2. Groundwater Concentration and Discharge Mass Flux Summary - 2,4-DDE (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay				0	0	0	0
Hood Canal North				0	0	0	0
Elliott Bay	2.50E-04	21	90	2.1	21	169E-05	169E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				2.1	21	169E-05	169E-04
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	2.50E-04	21	90	5	47	3.73E-05	3.73E-04
Commencement Bay	2.50E-04	21	90	35	353	2.79E-04	2.79E-03
Hood Canal North	2.50E-04	21	90	18	179	1.41E-04	1.41E-03
Elliott Bay	2.50E-04	21	90	9	93	7.30E-05	7.30E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	2.50E-04	21	90	12	124	9.74E-05	9.74E-04
Main Basin	2.50E-04	21	90	147	1466	1.16E-03	1.16E-02
Port Gardner	2.50E-04	21	90	7	73	5.77E-05	5.77E-04
San Juan Islands	2.50E-04	21	90	20	199	1.57E-04	1.57E-03
Sinclair/Dyes Inlet	2.50E-04	21	90	126	1257	9.91E-04	9.91E-03
South Sound East	2.50E-04	21	90	170	1702	1.34E-03	1.34E-02
South Sound West	2.50E-04	21	90	85	848	6.69E-04	6.69E-03
Strait of Georgia	2.50E-04	21	90	39	386	3.04E-04	3.04E-03
Whidbey Basin	2.50E-04	21	90	44	444	3.50E-04	3.50E-03
Subtotal				717	7171	0.01	0.06
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	2.45E-04	21	90	38	384	2.97E-04	2.97E-03
Commencement Bay				0	0	0	0
Hood Canal North	2.45E-04	21	90	146	1458	1.13E-03	1.13E-02
Elliott Bay				0	0	0	0
Hood Canal South	2.45E-04	21	90	574	5741	4.44E-03	4.44E-02
Strait of Juan de Fuca	2.45E-04	21	90	53	528	4.08E-04	4.08E-03
Main Basin	2.45E-04	21	90	133	1331	1.03E-03	1.03E-02
Port Gardner	2.45E-04	21	90	14	139	1.08E-04	1.08E-03
San Juan Islands	2.45E-04	21	90	85	849	6.56E-04	6.56E-03
Sinclair/Dyes Inlet	2.45E-04	21	90	52	520	4.02E-04	4.02E-03
South Sound East	2.45E-04	21	90	193	1929	1.49E-03	1.49E-02
South Sound West	2.45E-04	21	90	549	5486	4.24E-03	4.24E-02
Strait of Georgia	2.45E-04	21	90	108	1076	8.31E-04	8.31E-03
Whidbey Basin	2.45E-04	21	90	169	1686	1.30E-03	1.30E-02
Subtotal				2113	21128	0.02	0.16
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.02	0.22

Table C-3. Groundwater Discharge Concentration and Mass Flux Summary - 2,4-DDT (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay				0	0	0	0
Hood Canal North				0	0	0	0
Elliott Bay	8.00E-04	21	71	2.1	21	5.41E-05	5.41E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				2.1	21	5.41E-05	5.41E-04
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	2.50E-04	21	71	5	47	3.73E-05	3.73E-04
Commencement Bay	2.50E-04	21	71	35	353	2.79E-04	2.79E-03
Hood Canal North	2.50E-04	21	71	18	179	1.41E-04	1.41E-03
Elliott Bay	2.50E-04	21	71	9	93	7.30E-05	7.30E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	2.50E-04	21	71	12	124	9.74E-05	9.74E-04
Main Basin	2.50E-04	21	71	147	1466	1.16E-03	1.16E-02
Port Gardner	2.50E-04	21	71	7	73	5.77E-05	5.77E-04
San Juan Islands	2.50E-04	21	71	5	50	3.92E-05	3.92E-04
Sinclair/Dyes Inlet	2.50E-04	21	71	126	1257	9.91E-04	9.91E-03
South Sound East	2.50E-04	21	71	170	1702	1.34E-03	1.34E-02
South Sound West	2.50E-04	21	71	85	848	6.69E-04	6.69E-03
Strait of Georgia	2.50E-04	21	71	39	386	3.04E-04	3.04E-03
Whidbey Basin	2.50E-04	21	71	44	444	3.50E-04	3.50E-03
Subtotal				702	7022	0.01	0.06
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	2.50E-04	21	71	38	384	3.03E-04	3.03E-03
Commencement Bay				0	0	0	0
Hood Canal North	2.50E-04	21	71	146	1458	1.15E-03	1.15E-02
Elliott Bay				0	0	0	0
Hood Canal South	2.50E-04	21	71	574	5741	4.53E-03	4.53E-02
Strait of Juan de Fuca	2.50E-04	21	71	53	528	4.16E-04	4.16E-03
Main Basin	2.50E-04	21	71	133	1331	1.05E-03	1.05E-02
Port Gardner	2.50E-04	21	71	14	139	1.10E-04	1.10E-03
San Juan Islands	2.50E-04	21	71	100	998	7.87E-04	7.87E-03
Sinclair/Dyes Inlet	2.50E-04	21	71	52	520	4.10E-04	4.10E-03
South Sound East	2.50E-04	21	71	193	1929	1.52E-03	1.52E-02
South Sound West	2.50E-04	21	71	549	5486	4.33E-03	4.33E-02
Strait of Georgia	2.50E-04	21	71	108	1076	8.48E-04	8.48E-03
Whidbey Basin	2.50E-04	21	71	169	1686	1.33E-03	1.33E-02
Subtotal				2128	21277	0.02	0.17

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	0.02
Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)	0.22

Table C-4. Groundwater Discharge Concentration and Mass Flux Summary - 4,4-DDD (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.05	82	100	3	33	5.15E-03	5.15E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.002	24	83	3.0	30	1.51E-04	1.51E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands	8.50E-04	13	85	0	2	4.89E-06	4.89E-05
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				6.5	65	5.30E-03	0.05
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.006	123	95	5	47	8.21E-04	8.21E-03
Commencement Bay	0.006	123	95	32	321	5.56E-03	5.56E-02
Hood Canal North	0.006	123	95	18	179	3.10E-03	3.10E-02
Elliott Bay	0.006	123	95	8	84	1.45E-03	1.45E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.006	123	95	12	124	2.14E-03	2.14E-02
Main Basin	0.006	123	95	147	1466	2.54E-02	2.54E-01
Port Gardner	0.006	123	95	7	73	1.27E-03	1.27E-02
San Juan Islands	0.006	123	95	5	50	8.63E-04	8.63E-03
Sinclair/Dyes Inlet	0.006	123	95	126	1257	2.18E-02	2.18E-01
South Sound East	0.006	123	95	170	1702	2.95E-02	2.95E-01
South Sound West	0.006	123	95	85	848	1.47E-02	1.47E-01
Strait of Georgia	0.006	123	95	39	386	6.69E-03	6.69E-02
Whidbey Basin	0.006	123	95	44	444	7.70E-03	7.70E-02
Subtotal				698	6980	0.12	1.2
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	8.50E-04	123	95	38	384	1.03E-03	1.03E-02
Commencement Bay				0	0	0	0
Hood Canal North	8.50E-04	123	95	146	1458	3.91E-03	3.91E-02
Elliott Bay				0	0	0	0
Hood Canal South	8.50E-04	123	95	574	5741	1.54E-02	1.54E-01
Strait of Juan de Fuca	8.50E-04	123	95	53	528	1.41E-03	1.41E-02
Main Basin	8.50E-04	123	95	133	1331	3.57E-03	3.57E-02
Port Gardner	8.50E-04	123	95	14	139	3.74E-04	3.74E-03
San Juan Islands	8.50E-04	123	95	100	996	2.67E-03	2.67E-02
Sinclair/Dyes Inlet	8.50E-04	123	95	52	520	1.39E-03	1.39E-02
South Sound East	8.50E-04	123	95	193	1929	5.17E-03	5.17E-02
South Sound West	8.50E-04	123	95	549	5486	1.47E-02	1.47E-01
Strait of Georgia	8.50E-04	123	95	108	1076	2.88E-03	2.88E-02
Whidbey Basin	8.50E-04	123	95	169	1686	4.52E-03	4.52E-02
Subtotal				2127	21275	0.06	0.57
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.18	1.8

Table C-5. Groundwater Discharge Concentration and Mass Flux Summary - 4,4-DDE (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.05	86	100	3	33	5.15E-03	5.15E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.002	24	75	3.0	30	1.58E-04	1.58E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands	8.50E-04	13	77	0	2	4.89E-06	4.89E-05
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				6.5	65	5.31E-03	0.05
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.011	127	93	5	47	1.68E-03	1.68E-02
Commencement Bay	0.011	127	93	32	321	1.14E-02	1.14E-01
Hood Canal North	0.011	127	93	18	179	6.35E-03	6.35E-02
Elliott Bay	0.011	127	93	8	84	2.97E-03	2.97E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.011	127	93	12	124	4.38E-03	4.38E-02
Main Basin	0.011	127	93	147	1466	5.20E-02	5.20E-01
Port Gardner	0.011	127	93	7	73	2.59E-03	2.59E-02
San Juan Islands	0.011	127	93	5	50	1.76E-03	1.76E-02
Sinclair/Dyes Inlet	0.011	127	93	126	1257	4.46E-02	4.46E-01
South Sound East	0.011	127	93	170	1702	6.04E-02	6.04E-01
South Sound West	0.011	127	93	85	848	3.01E-02	3.01E-01
Strait of Georgia	0.011	127	93	39	386	1.37E-02	1.37E-01
Whidbey Basin	0.011	127	93	44	444	1.57E-02	1.57E-01
Subtotal				698	6980	0.25	2.5
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	8.50E-04	127	93	38	384	1.03E-03	1.03E-02
Commencement Bay				0	0	0	0
Hood Canal North	8.50E-04	127	93	146	1458	3.91E-03	3.91E-02
Elliott Bay				0	0	0	0
Hood Canal South	8.50E-04	127	93	574	5741	1.54E-02	1.54E-01
Strait of Juan de Fuca	8.50E-04	127	93	53	528	1.41E-03	1.41E-02
Main Basin	8.50E-04	127	93	133	1331	3.57E-03	3.57E-02
Port Gardner	8.50E-04	127	93	14	139	3.74E-04	3.74E-03
San Juan Islands	8.50E-04	127	93	100	996	2.67E-03	2.67E-02
Sinclair/Dyes Inlet	8.50E-04	127	93	52	520	1.39E-03	1.39E-02
South Sound East	8.50E-04	127	93	193	1929	5.17E-03	5.17E-02
South Sound West	8.50E-04	127	93	549	5486	1.47E-02	1.47E-01
Strait of Georgia	8.50E-04	127	93	108	1076	2.88E-03	2.88E-02
Whidbey Basin	8.50E-04	127	93	169	1686	4.52E-03	4.52E-02
Subtotal				2127	21275	0.06	0.57
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.31	3.1

Table C-6. Groundwater Discharge Concentration and Mass Flux Summary - 4,4-DDT (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.05	86	99	3	33	5.15E-03	5.15E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	36	83	3.0	30	3.57E-04	3.57E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands	8.50E-04	13	100	0	2	4.89E-06	4.89E-05
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				6.5	65	5.51E-03	0.06
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	142	94	5	47	7.46E-04	7.46E-03
Commencement Bay	0.005	142	94	32	321	5.06E-03	5.06E-02
Hood Canal North	0.005	142	94	18	179	2.82E-03	2.82E-02
Elliott Bay	0.005	142	94	8	84	1.32E-03	1.32E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.005	142	94	12	124	1.95E-03	1.95E-02
Main Basin	0.005	142	94	147	1466	2.31E-02	2.31E-01
Port Gardner	0.005	142	94	7	73	1.15E-03	1.15E-02
San Juan Islands	0.005	142	94	5	50	7.84E-04	7.84E-03
Sinclair/Dyes Inlet	0.005	142	94	126	1257	1.98E-02	1.98E-01
South Sound East	0.005	142	94	170	1702	2.68E-02	2.68E-01
South Sound West	0.005	142	94	85	848	1.34E-02	1.34E-01
Strait of Georgia	0.005	142	94	39	386	6.08E-03	6.08E-02
Whidbey Basin	0.005	142	94	44	444	7.00E-03	7.00E-02
Subtotal				698	6980	0.11	1.1
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	8.50E-04	142	94	38	384	1.03E-03	1.03E-02
Commencement Bay				0	0	0	0
Hood Canal North	8.50E-04	142	94	146	1458	3.91E-03	3.91E-02
Elliott Bay				0	0	0	0
Hood Canal South	8.50E-04	142	94	574	5741	1.54E-02	1.54E-01
Strait of Juan de Fuca	8.50E-04	142	94	53	528	1.41E-03	1.41E-02
Main Basin	8.50E-04	142	94	133	1331	3.57E-03	3.57E-02
Port Gardner	8.50E-04	142	94	14	139	3.74E-04	3.74E-03
San Juan Islands	8.50E-04	142	94	100	996	2.67E-03	2.67E-02
Sinclair/Dyes Inlet	8.50E-04	142	94	52	520	1.39E-03	1.39E-02
South Sound East	8.50E-04	142	94	193	1929	5.17E-03	5.17E-02
South Sound West	8.50E-04	142	94	549	5486	1.47E-02	1.47E-01
Strait of Georgia	8.50E-04	142	94	108	1076	2.88E-03	2.88E-02
Whidbey Basin	8.50E-04	142	94	169	1686	4.52E-03	4.52E-02
Subtotal				2127	21275	0.06	0.57
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.17	1.7

Table C-7. Groundwater Discharge Concentration and Mass Flux Summary - Acenaphthene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	18	94	0	1	4.67E-05	4.67E-04
Commencement Bay	1.65	228	71	11	107	5.57E-01	5.57E+00
Hood Canal North				0	0	0	0
Elliott Bay	0.5	91	71	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.024	86	45	3	33	2.57E-03	2.57E-02
Port Gardner	2.38	65	60	2	16	1.7E-01	1.7E+00
San Juan Islands	0.5	31	68	0	2	3.79E-03	3.79E-02
Sinclair/Dyes Inlet	0.05	37	62	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.049	93	78	5	51	7.93E-03	7.93E-02
Strait of Georgia	0.235	32	56	1	12	8.55E-03	8.55E-02
Whidbey Basin	0.005	5	80	0	3	4.47E-05	4.47E-04
Subtotal				30.8	308	0.79	7.9
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.049	686	67	5	46	7.02E-03	7.02E-02
Commencement Bay	0.049	686	67	25	246	3.77E-02	3.77E-01
Hood Canal North	0.049	686	67	18	179	2.74E-02	2.74E-01
Elliott Bay	0.049	686	67	6	55	8.44E-03	8.44E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.049	686	67	12	124	1.89E-02	1.89E-01
Main Basin	0.049	686	67	143	1433	2.19E-01	2.19E+00
Port Gardner	0.049	686	67	6	58	8.81E-03	8.81E-02
San Juan Islands	0.049	686	67	5	49	7.51E-03	7.51E-02
Sinclair/Dyes Inlet	0.049	686	67	123	1234	1.89E-01	1.89E+00
South Sound East	0.049	686	67	170	1702	2.61E-01	2.61E+00
South Sound West	0.049	686	67	80	797	1.22E-01	1.22E+00
Strait of Georgia	0.049	686	67	37	374	5.73E-02	5.73E-01
Whidbey Basin	0.049	686	67	44	441	6.75E-02	6.75E-01
Subtotal				674	6737	10	10
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.001	12	100	38	384	1.61E-03	1.61E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.001	12	100	146	1458	6.09E-03	6.09E-02
Elliott Bay				0	0	0	0
Hood Canal South	0.001	12	100	574	5741	2.40E-02	2.40E-01
Strait of Juan de Fuca	0.001	12	100	53	528	2.21E-03	2.21E-02
Main Basin	0.001	8	100	133	1331	5.25E-03	5.25E-02
Port Gardner	0.001	12	100	14	139	5.83E-04	5.83E-03
San Juan Islands	0.001	12	100	100	996	4.16E-03	4.16E-02
Sinclair/Dyes Inlet	0.001	12	100	52	520	2.17E-03	2.17E-02
South Sound East	0.001	12	100	193	1929	8.06E-03	8.06E-02
South Sound West	0.001	12	100	549	5486	2.29E-02	2.29E-01
Strait of Georgia	0.001	12	100	108	1076	4.49E-03	4.49E-02
Whidbey Basin	0.001	12	100	169	1686	7.05E-03	7.05E-02
Subtotal				2128	21275	0.09	0.89
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						1.9	19

Table C-8. Groundwater Discharge Concentration and Mass Flux Summary - Acenaphthylene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0	1	4.67E-05	4.67E-04
Commencement Bay	5	221	80	11	107	169E+00	169E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.2	91	91	5.9	59	3.72E-02	3.72E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	79	76	3	33	5.26E-04	5.26E-03
Port Gardner	0.5	29	97	2	16	2.46E-02	2.46E-01
San Juan Islands	0.095	31	97	0	2	7.21E-04	7.21E-03
Sinclair/Dyes Inlet	0.05	37	81	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.049	94	95	5	51	7.85E-03	7.85E-02
Strait of Georgia	0.25	30	77	1	12	7.82E-03	7.82E-02
Whidbey Basin	0.01	5	100	0	3	8.94E-05	8.94E-04
Subtotal				30.8	308	1.8	18
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.046	638	86	5	46	6.58E-03	6.58E-02
Commencement Bay	0.046	638	86	25	246	3.54E-02	3.54E-01
Hood Canal North	0.046	638	86	18	179	2.57E-02	2.57E-01
Elliott Bay	0.046	638	86	6	55	7.91E-03	7.91E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.046	638	86	12	124	1.77E-02	1.77E-01
Main Basin	0.046	638	86	143	1433	2.06E-01	2.06E+00
Port Gardner	0.046	638	86	6	58	8.26E-03	8.26E-02
San Juan Islands	0.046	638	86	5	49	7.04E-03	7.04E-02
Sinclair/Dyes Inlet	0.046	638	86	123	1234	1.77E-01	1.77E+00
South Sound East	0.046	638	86	170	1702	2.44E-01	2.44E+00
South Sound West	0.046	638	86	80	797	1.14E-01	1.14E+00
Strait of Georgia	0.046	638	86	37	374	5.37E-02	5.37E-01
Whidbey Basin	0.046	638	86	44	441	6.33E-02	6.33E-01
Subtotal				674	6737	0.97	9.7
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.9	29

Table C-9. Groundwater Discharge Concentration and Mass Flux Summary - Anthracene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	5	222	79	12	124	1.96E+00	1.96E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.5	91	80	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.013	86	64	3	33	1.32E-03	1.32E-02
Port Gardner	2.36	66	80	2	16	1.16E-01	1.16E+00
San Juan Islands	0.095	31	94	0	2	7.21E-04	7.21E-03
Sinclair/Dyes Inlet	0.05	37	84	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.049	94	90	5	51	7.93E-03	7.93E-02
Strait of Georgia	0.15	32	56	1	12	5.45E-03	5.45E-02
Whidbey Basin	0.01	5	100	0	3	8.94E-05	8.94E-04
Subtotal				32.5	325	2.2	22
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.048	685	79	5	46	6.87E-03	6.87E-02
Commencement Bay	0.048	685	79	23	229	3.43E-02	3.43E-01
Hood Canal North	0.048	685	79	18	179	2.68E-02	2.68E-01
Elliott Bay	0.048	685	79	6	55	8.25E-03	8.25E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.048	685	79	12	124	1.85E-02	1.85E-01
Main Basin	0.048	685	79	143	1433	2.15E-01	2.15E+00
Port Gardner	0.048	685	79	6	58	8.62E-03	8.62E-02
San Juan Islands	0.048	685	79	5	49	7.35E-03	7.35E-02
Sinclair/Dyes Inlet	0.048	685	79	123	1234	1.85E-01	1.85E+00
South Sound East	0.048	685	79	170	1702	2.55E-01	2.55E+00
South Sound West	0.048	685	79	80	797	1.19E-01	1.19E+00
Strait of Georgia	0.048	685	79	37	374	5.60E-02	5.60E-01
Whidbey Basin	0.048	685	79	44	441	6.61E-02	6.61E-01
Subtotal				672	6720	10	10
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
3.4	34

Table C-10. Groundwater Discharge Concentration and Mass Flux Summary - Fluorene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	5	221	72	12	124	1.96E+00	1.96E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.5	91	81	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.024	84	55	3	33	2.48E-03	2.48E-02
Port Gardner	2.38	66	68	2	16	1.7E-01	1.7E+00
San Juan Islands	0.5	31	77	0	2	3.79E-03	3.79E-02
Sinclair/Dyes Inlet	0.05	37	70	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.049	94	83	5	51	7.93E-03	7.93E-02
Strait of Georgia	0.25	30	70	1	12	7.82E-03	7.82E-02
Whidbey Basin	0.005	5	100	0	3	4.47E-05	4.47E-04
Subtotal				32.5	325	2.2	22
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.048	680	73	5	46	6.88E-03	6.88E-02
Commencement Bay	0.048	680	73	23	229	3.44E-02	3.44E-01
Hood Canal North	0.048	680	73	18	179	2.68E-02	2.68E-01
Elliott Bay	0.048	680	73	6	55	8.27E-03	8.27E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.048	680	73	12	124	1.85E-02	1.85E-01
Main Basin	0.048	680	73	143	1433	2.15E-01	2.15E+00
Port Gardner	0.048	680	73	6	58	8.63E-03	8.63E-02
San Juan Islands	0.048	680	73	5	49	7.36E-03	7.36E-02
Sinclair/Dyes Inlet	0.048	680	73	123	1234	1.85E-01	1.85E+00
South Sound East	0.048	680	73	170	1702	2.55E-01	2.55E+00
South Sound West	0.048	680	73	80	797	1.20E-01	1.20E+00
Strait of Georgia	0.048	680	73	37	374	5.61E-02	5.61E-01
Whidbey Basin	0.048	680	73	44	441	6.62E-02	6.62E-01
Subtotal				672	6720	10	10
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.001	12	100	38	384	1.61E-03	1.61E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.001	12	100	146	1458	6.09E-03	6.09E-02
Elliott Bay				0	0	0	0
Hood Canal South	0.001	12	100	574	5741	2.40E-02	2.40E-01
Strait of Juan de Fuca	0.001	12	100	53	528	2.21E-03	2.21E-02
Main Basin	0.001	8	100	133	1331	5.25E-03	5.25E-02
Port Gardner	0.001	12	100	14	139	5.83E-04	5.83E-03
San Juan Islands	0.001	12	100	100	996	4.16E-03	4.16E-02
Sinclair/Dyes Inlet	0.001	12	100	52	520	2.17E-03	2.17E-02
South Sound East	0.001	12	100	193	1929	8.06E-03	8.06E-02
South Sound West	0.001	12	100	549	5486	2.29E-02	2.29E-01
Strait of Georgia	0.001	12	100	108	1076	4.49E-03	4.49E-02
Whidbey Basin	0.001	12	100	169	1686	7.05E-03	7.05E-02
Subtotal				2128	21275	0.09	0.89
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						3.3	33

* - All non-detect results substituted with one half the reporting limit.

Table C-11. Groundwater Discharge Concentration and Mass Flux Summary - Naphthalene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	62	0	1	4.67E-05	4.67E-04
Commencement Bay	5.0	260	75	12	123	1.94E+00	1.94E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.5	106	80	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.25	121	42	3	33	2.63E-02	2.63E-01
Port Gardner	2.38	70	69	2	16	1.7E-01	1.7E+00
San Juan Islands	0.5	32	78	0	2	3.79E-03	3.79E-02
Sinclair/Dyes Inlet	0.5	77	75	2	23	3.67E-02	3.67E-01
South Sound East	0.5	8	100	0	3	4.05E-03	4.05E-02
South Sound West	0.5	135	80	5	51	8.09E-02	8.09E-01
Strait of Georgia	0.25	33	58	1	12	9.09E-03	9.09E-02
Whidbey Basin	0.05	12	83	0	3	4.46E-04	4.46E-03
Subtotal				32.6	326	2.3	23
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.1	11	100	5	46	1.45E-02	1.45E-01
Commencement Bay	0.1	11	100	23	230	7.26E-02	7.26E-01
Hood Canal North	0.1	11	100	18	179	5.64E-02	5.64E-01
Elliott Bay	0.1	11	100	6	55	1.74E-02	1.74E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.1	11	100	12	124	3.90E-02	3.90E-01
Main Basin	0.1	11	100	143	1433	4.52E-01	4.52E+00
Port Gardner	0.1	11	100	6	58	1.81E-02	1.81E-01
San Juan Islands	0.1	11	100	5	49	1.55E-02	1.55E-01
Sinclair/Dyes Inlet	0.1	11	100	123	1234	3.89E-01	3.89E+00
South Sound East	0.1	11	100	170	1700	5.36E-01	5.36E+00
South Sound West	0.1	11	100	80	797	2.51E-01	2.51E+00
Strait of Georgia	0.1	11	100	37	374	1.8E-01	1.8E+00
Whidbey Basin	0.1	11	100	44	441	1.39E-01	1.39E+00
Subtotal				672	6718	2.1	21
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.1	18	100	38	384	1.21E-01	1.21E+00
Commencement Bay				0	0	0	0
Hood Canal North	13	6	100	146	1458	5.98E+00	5.98E+01
Elliott Bay				0	0	0	0
Hood Canal South	0.1	18	100	574	5741	1.81E+00	1.81E+01
Strait of Juan de Fuca	0.1	18	100	53	528	1.66E-01	1.66E+00
Main Basin	0.001	8	100	133	1331	5.25E-03	5.25E-02
Port Gardner	0.1	18	100	14	139	4.40E-02	4.40E-01
San Juan Islands	0.1	18	100	100	996	3.14E-01	3.14E+00
Sinclair/Dyes Inlet	0.1	18	100	52	520	1.64E-01	1.64E+00
South Sound East	0.1	18	100	193	1929	6.08E-01	6.08E+00
South Sound West	0.1	18	100	549	5486	1.73E+00	1.73E+01
Strait of Georgia	0.1	18	100	108	1076	3.39E-01	3.39E+00
Whidbey Basin	0.1	18	100	169	1686	5.32E-01	5.32E+00
Subtotal				2128	21275	12	118
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						16	162

Table C-12. Groundwater Discharge Concentration and Mass Flux Summary - Phenanthrene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	5	208	75	12	124	1.96E+00	1.96E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.5	91	77	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.010	79	65	3	33	1.02E-03	1.02E-02
Port Gardner	2.38	66	71	2	16	1.7E-01	1.7E+00
San Juan Islands	0.19	31	84	0	2	1.44E-03	1.44E-02
Sinclair/Dyes Inlet	0.05	32	72	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.048	82	84	5	51	7.68E-03	7.68E-02
Strait of Georgia	0.185	29	52	1	12	6.73E-03	6.73E-02
Whidbey Basin	0.005	5	80	0	3	4.47E-05	4.47E-04
Subtotal				32.5	325	2.2	22
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.047	644	75	5	46	6.82E-03	6.82E-02
Commencement Bay	0.047	644	75	23	229	3.41E-02	3.41E-01
Hood Canal North	0.047	644	75	18	179	2.66E-02	2.66E-01
Elliott Bay	0.047	644	75	6	55	8.19E-03	8.19E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.047	644	75	12	124	1.84E-02	1.84E-01
Main Basin	0.047	644	75	143	1433	2.13E-01	2.13E+00
Port Gardner	0.047	644	75	6	58	8.56E-03	8.56E-02
San Juan Islands	0.047	644	75	5	49	7.29E-03	7.29E-02
Sinclair/Dyes Inlet	0.047	644	75	123	1234	1.83E-01	1.83E+00
South Sound East	0.047	644	75	170	1702	2.53E-01	2.53E+00
South Sound West	0.047	644	75	80	797	1.18E-01	1.18E+00
Strait of Georgia	0.047	644	75	37	374	5.56E-02	5.56E-01
Whidbey Basin	0.047	644	75	44	441	6.56E-02	6.56E-01
Subtotal				672	6720	10	10
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						3.4	34

Table C-13. Groundwater Discharge Concentration and Mass Flux Summary - Benz(a)anthracene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	5.0	221	80	11	107	1.69E+00	1.69E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	100	86	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	85	96	3	33	5.26E-04	5.26E-03
Port Gardner	2.36	69	90	2	16	1.16E-01	1.16E+00
San Juan Islands	0.036	31	87	0	2	2.73E-04	2.73E-03
Sinclair/Dyes Inlet	0.015	37	81	2	23	1.10E-03	1.10E-02
South Sound East				0	0	0	0
South Sound West	0.014	108	83	5	51	2.26E-03	2.26E-02
Strait of Georgia	0.165	30	70	1	12	6.00E-03	6.00E-02
Whidbey Basin	0.05	11	100	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.8	18
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.006	73	85	5	46	7.95E-04	7.95E-03
Commencement Bay	0.006	73	85	25	246	4.27E-03	4.27E-02
Hood Canal North	0.006	73	85	18	179	3.10E-03	3.10E-02
Elliott Bay	0.006	73	85	6	55	9.56E-04	9.56E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.006	73	85	12	124	2.14E-03	2.14E-02
Main Basin	0.006	73	85	143	1433	2.48E-02	2.48E-01
Port Gardner	0.006	73	85	6	58	9.98E-04	9.98E-03
San Juan Islands	0.006	73	85	5	49	8.51E-04	8.51E-03
Sinclair/Dyes Inlet	0.006	73	85	123	1234	2.14E-02	2.14E-01
South Sound East	0.006	73	85	170	1702	2.95E-02	2.95E-01
South Sound West	0.006	73	85	80	797	1.38E-02	1.38E-01
Strait of Georgia	0.006	73	85	37	374	6.49E-03	6.49E-02
Whidbey Basin	0.006	73	85	44	441	7.65E-03	7.65E-02
Subtotal				674	6737	0.12	1.2
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.007	12	100	38	384	8.18E-03	8.18E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.007	12	100	146	1458	3.10E-02	3.10E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.007	12	100	574	5741	1.22E-01	1.22E+00
Strait of Juan de Fuca	0.007	12	100	53	528	1.12E-02	1.12E-01
Main Basin	0.007	8	100	133	1331	2.73E-02	2.73E-01
Port Gardner	0.007	12	100	14	139	2.97E-03	2.97E-02
San Juan Islands	0.007	12	100	100	996	2.12E-02	2.12E-01
Sinclair/Dyes Inlet	0.007	12	100	52	520	1.11E-02	1.11E-01
South Sound East	0.007	12	100	193	1929	4.11E-02	4.11E-01
South Sound West	0.007	12	100	549	5486	1.17E-01	1.17E+00
Strait of Georgia	0.007	12	100	108	1076	2.29E-02	2.29E-01
Whidbey Basin	0.007	12	100	169	1686	3.59E-02	3.59E-01
Subtotal				2128	21275	0.45	4.5

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
2.4	24

Table C-14. Groundwater Discharge Concentration and Mass Flux Summary - Benzo[a]pyrene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	4.86	221	87	11	107	1.64E+00	1.64E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	100	94	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.010	84	96	3	33	1.00E-03	1.00E-02
Port Gardner	2.36	69	91	2	16	1.16E-01	1.16E+00
San Juan Islands	0.010	31	97	0	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	95	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.010	108	93	5	51	1.54E-03	1.54E-02
Strait of Georgia	0.15	30	77	1	12	5.45E-03	5.45E-02
Whidbey Basin	0.05	11	100	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.8	18
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.010	712	91	5	46	1.37E-03	1.37E-02
Commencement Bay	0.010	712	91	25	246	7.38E-03	7.38E-02
Hood Canal North	0.010	712	91	18	179	5.36E-03	5.36E-02
Elliott Bay	0.010	712	91	6	55	1.65E-03	1.65E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.010	712	91	12	124	3.70E-03	3.70E-02
Main Basin	0.010	712	91	143	1433	4.29E-02	4.29E-01
Port Gardner	0.010	712	91	6	58	1.72E-03	1.72E-02
San Juan Islands	0.010	712	91	5	49	1.47E-03	1.47E-02
Sinclair/Dyes Inlet	0.010	712	91	123	1234	3.70E-02	3.70E-01
South Sound East	0.010	712	91	170	1702	5.10E-02	5.10E-01
South Sound West	0.010	712	91	80	797	2.39E-02	2.39E-01
Strait of Georgia	0.010	712	91	37	374	1.12E-02	1.12E-01
Whidbey Basin	0.010	712	91	44	441	1.32E-02	1.32E-01
Subtotal				674	6737	0.20	2.0
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.2	22

Table C-15. Groundwater Discharge Concentration and Mass Flux Summary - Benzo(b)fluoranthene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.02	21	100	0	1	9.35E-05	9.35E-04
Commencement Bay	4.86	221	84	11	107	1.64E+00	1.64E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	100	90	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	84	96	3	33	5.26E-04	5.26E-03
Port Gardner	2.36	69	91	2	16	1.16E-01	1.16E+00
San Juan Islands	0.010	31	97	0	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	92	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.018	103	86	5	51	2.91E-03	2.91E-02
Strait of Georgia	0.125	30	80	1	12	4.55E-03	4.55E-02
Whidbey Basin	0.05	11	91	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.8	18
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.006	707	89	5	46	7.95E-04	7.95E-03
Commencement Bay	0.006	707	89	25	246	4.27E-03	4.27E-02
Hood Canal North	0.006	707	89	18	179	3.10E-03	3.10E-02
Elliott Bay	0.006	707	89	6	55	9.56E-04	9.56E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.006	707	89	12	124	2.14E-03	2.14E-02
Main Basin	0.006	707	89	143	1433	2.48E-02	2.48E-01
Port Gardner	0.006	707	89	6	58	9.98E-04	9.98E-03
San Juan Islands	0.006	707	89	5	49	8.51E-04	8.51E-03
Sinclair/Dyes Inlet	0.006	707	89	123	1234	2.14E-02	2.14E-01
South Sound East	0.006	707	89	170	1702	2.95E-02	2.95E-01
South Sound West	0.006	707	89	80	797	1.38E-02	1.38E-01
Strait of Georgia	0.006	707	89	37	374	6.49E-03	6.49E-02
Whidbey Basin	0.006	707	89	44	441	7.65E-03	7.65E-02
Subtotal				674	6737	0.12	1.2
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.1	21

Table C-16. Groundwater Discharge Concentration and Mass Flux Summary - Benzo[g,h,i]perylene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0	1	4.67E-05	4.67E-04
Commencement Bay	5	221	94	11	107	1.69E+00	1.69E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.105	91	95	5.9	59	1.95E-02	1.95E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	85	98	3	33	5.26E-04	5.26E-03
Port Gardner	2.36	66	95	2	15	1.15E-01	1.15E+00
San Juan Islands	0.010	31	100	0	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	86	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.014	93	90	5	52	2.29E-03	2.29E-02
Strait of Georgia	0.135	30	80	1	12	4.91E-03	4.91E-02
Whidbey Basin	0.01	5	80	0	1	2.91E-05	2.91E-04
Subtotal				30.6	306	1.8	1.8
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.006	680	94	5	46	7.95E-04	7.95E-03
Commencement Bay	0.006	680	94	25	246	4.27E-03	4.27E-02
Hood Canal North	0.006	680	94	18	179	3.10E-03	3.10E-02
Elliott Bay	0.006	680	94	6	55	9.56E-04	9.56E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.006	680	94	12	124	2.14E-03	2.14E-02
Main Basin	0.006	680	94	143	1433	2.48E-02	2.48E-01
Port Gardner	0.006	680	94	6	58	1.00E-03	1.00E-02
San Juan Islands	0.006	680	94	5	49	8.51E-04	8.51E-03
Sinclair/Dyes Inlet	0.006	680	94	123	1234	2.14E-02	2.14E-01
South Sound East	0.006	680	94	170	1702	2.95E-02	2.95E-01
South Sound West	0.006	680	94	80	796	1.38E-02	1.38E-01
Strait of Georgia	0.006	680	94	37	374	6.49E-03	6.49E-02
Whidbey Basin	0.006	680	94	44	443	7.68E-03	7.68E-02
Subtotal				674	6739	0.12	1.2
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.1	21

Table C-17. Groundwater Discharge Concentration and Mass Flux Summary - Benzo[k]fluoranthene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
	Admiralty Inlet	0.01	21	100	0	1	4.67E-05
Commencement Bay	4.86	220	90	11	107	1.64E+00	1.64E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	99	94	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	82	98	3	33	5.26E-04	5.26E-03
Port Gardner	2.36	69	91	2	16	1.16E-01	1.16E+00
San Juan Islands	0.010	31	97	0	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.006	37	95	2	23	4.41E-04	4.41E-03
South Sound East				0	0	0	0
South Sound West	0.007	97	97	5	51	1.05E-03	1.05E-02
Strait of Georgia	0.36	30	80	1	12	1.31E-02	1.31E-01
Whidbey Basin	0.05	11	100	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.8	1.8
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
	Admiralty Inlet	0.005	697	93	5	46	7.23E-04
Commencement Bay	0.005	697	93	25	246	3.89E-03	3.89E-02
Hood Canal North	0.005	697	93	18	179	2.82E-03	2.82E-02
Elliott Bay	0.005	697	93	6	55	8.69E-04	8.69E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.005	697	93	12	124	1.95E-03	1.95E-02
Main Basin	0.005	697	93	143	1433	2.26E-02	2.26E-01
Port Gardner	0.005	697	93	6	58	9.07E-04	9.07E-03
San Juan Islands	0.005	697	93	5	49	7.73E-04	7.73E-03
Sinclair/Dyes Inlet	0.005	697	93	123	1234	1.95E-02	1.95E-01
South Sound East	0.005	697	93	170	1702	2.68E-02	2.68E-01
South Sound West	0.005	697	93	80	797	1.26E-02	1.26E-01
Strait of Georgia	0.005	697	93	37	374	5.90E-03	5.90E-02
Whidbey Basin	0.005	697	93	44	441	6.95E-03	6.95E-02
Subtotal				674	6737	0.11	1.1
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
	Admiralty Inlet	0.003	12	100	38	384	3.21E-03
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.1	21

Table C-18. Groundwater Discharge Concentration and Mass Flux Summary - Chrysene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	4.93	222	78	11	107	1.66E+00	1.66E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	100	85	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	85	94	3	33	5.26E-04	5.26E-03
Port Gardner	2.36	69	88	2	16	1.16E-01	1.16E+00
San Juan Islands	0.03	31	87	0	2	2.28E-04	2.28E-03
Sinclair/Dyes Inlet	0.011	37	86	2	23	8.08E-04	8.08E-03
South Sound East				0	0	0	0
South Sound West	0.01	108	82	5	51	1.62E-03	1.62E-02
Strait of Georgia	0.2	30	70	1	12	7.27E-03	7.27E-02
Whidbey Basin	0.05	11	91	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.8	18
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.006	74	84	5	46	8.67E-04	8.67E-03
Commencement Bay	0.006	74	84	25	246	4.66E-03	4.66E-02
Hood Canal North	0.006	74	84	18	179	3.39E-03	3.39E-02
Elliott Bay	0.006	74	84	6	55	1.04E-03	1.04E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.006	74	84	12	124	2.34E-03	2.34E-02
Main Basin	0.006	74	84	143	1433	2.71E-02	2.71E-01
Port Gardner	0.006	74	84	6	58	1.09E-03	1.09E-02
San Juan Islands	0.006	74	84	5	49	9.28E-04	9.28E-03
Sinclair/Dyes Inlet	0.006	74	84	123	1234	2.33E-02	2.33E-01
South Sound East	0.006	74	84	170	1702	3.22E-02	3.22E-01
South Sound West	0.006	74	84	80	797	1.51E-02	1.51E-01
Strait of Georgia	0.006	74	84	37	374	7.08E-03	7.08E-02
Whidbey Basin	0.006	74	84	44	441	8.35E-03	8.35E-02
Subtotal				674	6737	0.13	1.3
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	74	84	38	384	5.88E-03	5.88E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	74	84	146	1458	2.23E-02	2.23E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	74	84	574	5741	8.78E-02	8.78E-01
Strait of Juan de Fuca	0.005	74	84	53	528	8.07E-03	8.07E-02
Main Basin	0.005	74	84	133	1331	2.04E-02	2.04E-01
Port Gardner	0.005	74	84	14	139	2.13E-03	2.13E-02
San Juan Islands	0.005	74	84	100	996	1.52E-02	1.52E-01
Sinclair/Dyes Inlet	0.005	74	84	52	520	7.96E-03	7.96E-02
South Sound East	0.005	74	84	193	1929	2.95E-02	2.95E-01
South Sound West	0.005	74	84	549	5486	8.39E-02	8.39E-01
Strait of Georgia	0.005	74	84	108	1076	1.65E-02	1.65E-01
Whidbey Basin	0.005	74	84	169	1686	2.58E-02	2.58E-01
Subtotal				2128	21275	0.33	3.3
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.3	23

Table C-19. Groundwater Discharge Concentration and Mass Flux Summary - Dibenzo[a,h]anthracene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0	1	4.67E-05	4.67E-04
Commencement Bay	4.86	223	98	11	107	1.64E+00	1.64E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	99	97	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	85	98	3	33	5.26E-04	5.26E-03
Port Gardner	0.5	31	97	2	16	2.46E-02	2.46E-01
San Juan Islands	0.01	31	100	0	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	100	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.01	108	94	5	51	1.62E-03	1.62E-02
Strait of Georgia	0.11	30	80	1	12	4.00E-03	4.00E-02
Whidbey Basin	0.05	11	100	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.7	17
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	676	97	5	46	7.23E-04	7.23E-03
Commencement Bay	0.005	676	97	25	246	3.89E-03	3.89E-02
Hood Canal North	0.005	676	97	18	179	2.82E-03	2.82E-02
Elliott Bay	0.005	676	97	6	55	8.69E-04	8.69E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.005	676	97	12	124	1.95E-03	1.95E-02
Main Basin	0.005	676	97	143	1433	2.26E-02	2.26E-01
Port Gardner	0.005	676	97	6	58	9.07E-04	9.07E-03
San Juan Islands	0.005	676	97	5	49	7.73E-04	7.73E-03
Sinclair/Dyes Inlet	0.005	676	97	123	1234	1.95E-02	1.95E-01
South Sound East	0.005	676	97	170	1702	2.68E-02	2.68E-01
South Sound West	0.005	676	97	80	797	1.26E-02	1.26E-01
Strait of Georgia	0.005	676	97	37	374	5.90E-03	5.90E-02
Whidbey Basin	0.005	676	97	44	441	6.95E-03	6.95E-02
Subtotal				674	6737	0.11	1.1
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.03	12	100	38	384	1.61E-02	1.61E-01
Commencement Bay				0	0	0	0
Hood Canal North	0.03	12	100	146	1458	6.09E-02	6.09E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.03	12	100	574	5741	2.40E-01	2.40E+00
Strait of Juan de Fuca	0.03	12	100	53	528	2.21E-02	2.21E-01
Main Basin	0.03	8	100	133	1331	5.25E-02	5.25E-01
Port Gardner	0.03	12	100	14	139	5.83E-03	5.83E-02
San Juan Islands	0.03	12	100	100	996	4.16E-02	4.16E-01
Sinclair/Dyes Inlet	0.03	12	100	52	520	2.17E-02	2.17E-01
South Sound East	0.03	12	100	193	1929	8.06E-02	8.06E-01
South Sound West	0.03	12	100	549	5486	2.29E-01	2.29E+00
Strait of Georgia	0.03	12	100	108	1076	4.49E-02	4.49E-01
Whidbey Basin	0.03	12	100	169	1686	7.05E-02	7.05E-01
Subtotal				2128	21275	0.89	8.9

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
2.7	27

Table C-20. Groundwater Discharge Concentration and Mass Flux Summary - Fluoranthene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0	1	4.67E-05	4.67E-04
Commencement Bay	5.0	221	76	11	107	1.69E+00	1.69E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.5	91	76	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	85	68	3	33	5.26E-04	5.26E-03
Port Gardner	2.37	66	74	2	15	1.16E-01	1.16E+00
San Juan Islands	0.26	31	87	0	2	1.97E-03	1.97E-02
Sinclair/Dyes Inlet	0.05	37	73	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.049	94	89	5	52	7.92E-03	7.92E-02
Strait of Georgia	0.17	30	67	1	12	6.18E-03	6.18E-02
Whidbey Basin	0.005	5	60	0	1	1.46E-05	1.46E-04
Subtotal				30.6	306	19	19
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.047	681	77	5	46	6.82E-03	6.82E-02
Commencement Bay	0.047	681	77	25	246	3.66E-02	3.66E-01
Hood Canal North	0.047	681	77	18	179	2.66E-02	2.66E-01
Elliott Bay	0.047	681	77	6	55	8.19E-03	8.19E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.047	681	77	12	124	1.84E-02	1.84E-01
Main Basin	0.047	681	77	143	1433	2.13E-01	2.13E+00
Port Gardner	0.047	681	77	6	58	8.57E-03	8.57E-02
San Juan Islands	0.047	681	77	5	49	7.29E-03	7.29E-02
Sinclair/Dyes Inlet	0.047	681	77	123	1234	1.83E-01	1.83E+00
South Sound East	0.047	681	77	170	1702	2.53E-01	2.53E+00
South Sound West	0.047	681	77	80	796	1.18E-01	1.18E+00
Strait of Georgia	0.047	681	77	37	374	5.56E-02	5.56E-01
Whidbey Basin	0.047	681	77	44	443	6.59E-02	6.59E-01
Subtotal				674	6739	10	10
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
3.1	31

Table C-21. Groundwater Discharge Concentration and Mass Flux Summary - Indeno[1,2,3-c,d]pyrene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0	1	4.67E-05	4.67E-04
Commencement Bay	4.86	221	92	11	107	1.64E+00	1.64E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.1	100	94	5.9	59	1.86E-02	1.86E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	85	98	3	33	5.26E-04	5.26E-03
Port Gardner	2.36	69	96	2	16	1.16E-01	1.16E+00
San Juan Islands	0.01	31	100	0	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	95	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.014	108	92	5	51	2.26E-03	2.26E-02
Strait of Georgia	0.13	30	77	1	12	4.73E-03	4.73E-02
Whidbey Basin	0.05	11	100	0	3	4.47E-04	4.47E-03
Subtotal				30.8	308	1.8	18
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	73	94	5	46	7.23E-04	7.23E-03
Commencement Bay	0.005	73	94	25	246	3.89E-03	3.89E-02
Hood Canal North	0.005	73	94	18	179	2.82E-03	2.82E-02
Elliott Bay	0.005	73	94	6	55	8.69E-04	8.69E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.005	73	94	12	124	1.95E-03	1.95E-02
Main Basin	0.005	73	94	143	1433	2.26E-02	2.26E-01
Port Gardner	0.005	73	94	6	58	9.07E-04	9.07E-03
San Juan Islands	0.005	73	94	5	49	7.73E-04	7.73E-03
Sinclair/Dyes Inlet	0.005	73	94	123	1234	1.95E-02	1.95E-01
South Sound East	0.005	73	94	170	1702	2.68E-02	2.68E-01
South Sound West	0.005	73	94	80	797	1.26E-02	1.26E-01
Strait of Georgia	0.005	73	94	37	374	5.90E-03	5.90E-02
Whidbey Basin	0.005	73	94	44	441	6.95E-03	6.95E-02
Subtotal				674	6737	0.11	1.1
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.007	12	100	38	384	8.18E-03	8.18E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.007	12	100	146	1458	3.10E-02	3.10E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.007	12	100	574	5741	1.22E-01	1.22E+00
Strait of Juan de Fuca	0.007	12	100	53	528	1.12E-02	1.12E-01
Main Basin	0.007	8	100	133	1331	2.73E-02	2.73E-01
Port Gardner	0.007	12	100	14	139	2.97E-03	2.97E-02
San Juan Islands	0.007	12	100	100	996	2.12E-02	2.12E-01
Sinclair/Dyes Inlet	0.007	12	100	52	520	1.11E-02	1.11E-01
South Sound East	0.007	12	100	193	1929	4.11E-02	4.11E-01
South Sound West	0.007	12	100	549	5486	1.17E-01	1.17E+00
Strait of Georgia	0.007	12	100	108	1076	2.29E-02	2.29E-01
Whidbey Basin	0.007	12	100	169	1686	3.59E-02	3.59E-01
Subtotal				2128	21275	0.45	4.5
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2.3	23

Table C-22. Groundwater Discharge Concentration and Mass Flux Summary - Pyrene (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	86	0	1	4.67E-05	4.67E-04
Commencement Bay	5.0	221	76	11	107	1.69E+00	1.69E+01
Hood Canal North				0	0	0	0
Elliott Bay	0.5	91	77	5.9	59	9.29E-02	9.29E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.011	85	62	3	33	1.16E-03	1.16E-02
Port Gardner	2.37	66	77	2	15	1.16E-01	1.16E+00
San Juan Islands	0.24	31	87	0	2	1.82E-03	1.82E-02
Sinclair/Dyes Inlet	0.05	37	81	2	23	3.67E-03	3.67E-02
South Sound East				0	0	0	0
South Sound West	0.049	94	90	5	52	7.96E-03	7.96E-02
Strait of Georgia	0.17	30	63	1	12	6.18E-03	6.18E-02
Whidbey Basin	0.01	5	80	0	1	2.91E-05	2.91E-04
Subtotal				30.6	306	19	19
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.047	681	77	5	46	6.82E-03	6.82E-02
Commencement Bay	0.047	681	77	25	246	3.66E-02	3.66E-01
Hood Canal North	0.047	681	77	18	179	2.66E-02	2.66E-01
Elliott Bay	0.047	681	77	6	55	8.19E-03	8.19E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.047	681	77	12	124	1.84E-02	1.84E-01
Main Basin	0.047	681	77	143	1433	2.13E-01	2.13E+00
Port Gardner	0.047	681	77	6	58	8.58E-03	8.58E-02
San Juan Islands	0.047	681	77	5	49	7.29E-03	7.29E-02
Sinclair/Dyes Inlet	0.047	681	77	123	1234	1.83E-01	1.83E+00
South Sound East	0.047	681	77	170	1702	2.53E-01	2.53E+00
South Sound West	0.047	681	77	80	796	1.18E-01	1.18E+00
Strait of Georgia	0.047	681	77	37	374	5.56E-02	5.56E-01
Whidbey Basin	0.047	681	77	44	443	6.59E-02	6.59E-01
Subtotal				674	6739	10	10
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	12	100	38	384	3.21E-03	3.21E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	12	100	146	1458	1.22E-02	1.22E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	12	100	574	5741	4.80E-02	4.80E-01
Strait of Juan de Fuca	0.003	12	100	53	528	4.41E-03	4.41E-02
Main Basin	0.003	8	100	133	1331	1.05E-02	1.05E-01
Port Gardner	0.003	12	100	14	139	1.17E-03	1.17E-02
San Juan Islands	0.003	12	100	100	996	8.33E-03	8.33E-02
Sinclair/Dyes Inlet	0.003	12	100	52	520	4.35E-03	4.35E-02
South Sound East	0.003	12	100	193	1929	1.61E-02	1.61E-01
South Sound West	0.003	12	100	549	5486	4.58E-02	4.58E-01
Strait of Georgia	0.003	12	100	108	1076	8.99E-03	8.99E-02
Whidbey Basin	0.003	12	100	169	1686	1.41E-02	1.41E-01
Subtotal				2128	21275	0.18	1.8
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						3.1	31

Table C-23. Groundwater Discharge Concentration and Mass Flux Summary - Diesel Range Organics (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	65	14	100	1	6	123E+00	123E+01
Commencement Bay	150	135	58	14	140	6.65E+01	6.65E+02
Hood Canal North				0	0	0	0
Elliott Bay	139	114	75	7.8	78	3.41E+01	3.41E+02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	41	130	56	7	75	9.52E+00	9.52E+01
Port Gardner	300	95	77	2	22	2.06E+01	2.06E+02
San Juan Islands	133	36	86	1	5	2.30E+00	2.30E+01
Sinclair/Dyes Inlet	95	60	77	6	55	1.66E+01	1.66E+02
South Sound East				0	0	0	0
South Sound West	125	114	75	11	109	4.29E+01	4.29E+02
Strait of Georgia	10	29	86	2	17	5.24E-01	5.24E+00
Whidbey Basin	128	18	61	1	12	4.92E+00	4.92E+01
Subtotal				519	519	199	1992
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	75	752	70	4	44	1.05E+01	1.05E+02
Commencement Bay	75	752	70	21	213	5.04E+01	5.04E+02
Hood Canal North	75	752	70	18	179	4.23E+01	4.23E+02
Elliott Bay	75	752	70	4	36	8.54E+00	8.54E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	75	752	70	12	124	2.92E+01	2.92E+02
Main Basin	75	752	70	140	1404	3.32E+02	3.32E+03
Port Gardner	75	752	70	5	51	1.22E+01	1.22E+02
San Juan Islands	75	752	70	5	46	1.09E+01	1.09E+02
Sinclair/Dyes Inlet	75	752	70	120	1202	2.84E+02	2.84E+03
South Sound East	75	752	70	170	1702	4.03E+02	4.03E+03
South Sound West	75	752	70	74	739	1.75E+02	1.75E+03
Strait of Georgia	75	752	70	37	369	8.73E+01	8.73E+02
Whidbey Basin	75	752	70	44	436	1.03E+02	1.03E+03
Subtotal				654	6545	1548	15480
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	25	752	70	38	381	3.01E+01	3.01E+02
Commencement Bay				0	0	0	0
Hood Canal North	25	752	70	146	1458	1.15E+02	1.15E+03
Elliott Bay				0	0	0	0
Hood Canal South	25	752	70	574	5741	4.53E+02	4.53E+03
Strait of Juan de Fuca	25	752	70	53	528	4.16E+01	4.16E+02
Main Basin	25	752	70	132	1319	1.04E+02	1.04E+03
Port Gardner	25	752	70	14	139	1.10E+01	1.10E+02
San Juan Islands	25	752	70	100	996	7.85E+01	7.85E+02
Sinclair/Dyes Inlet	25	752	70	52	520	4.10E+01	4.10E+02
South Sound East	25	752	70	193	1929	1.52E+02	1.52E+03
South Sound West	25	752	70	549	5486	4.33E+02	4.33E+03
Strait of Georgia	25	752	70	108	1076	8.48E+01	8.48E+02
Whidbey Basin	25	752	70	168	1683	1.33E+02	1.33E+03
Subtotal				2126	21256	1676	16758
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						3423	34230

Table C-24. Groundwater Discharge Concentration and Mass Flux Summary - Gasoline Range Organics (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	25	15	87	0	3	2.48E-01	2.48E+00
Commencement Bay	125	73	58	14	140	5.54E+01	5.54E+02
Hood Canal North				0	0	0	0
Elliott Bay	125	144	71	9.3	93	3.65E+01	3.65E+02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	50	161	67	6	62	9.81E+00	9.81E+01
Port Gardner	119	102	82	2	18	6.89E+00	6.89E+01
San Juan Islands	50	32	97	1	5	8.67E-01	8.67E+00
Sinclair/Dyes Inlet	50	82	73	6	55	8.75E+00	8.75E+01
South Sound East				0	0	0	0
South Sound West	50	88	85	12	120	1.89E+01	1.89E+02
Strait of Georgia	35	18	72	1	7	7.87E-01	7.87E+00
Whidbey Basin	101	10	30	1	8	2.51E+00	2.51E+01
Subtotal				513	513	141	1407
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	50	728	73	4	44	6.97E+00	6.97E+01
Commencement Bay	50	728	73	21	213	3.36E+01	3.36E+02
Hood Canal North	50	728	73	18	179	2.82E+01	2.82E+02
Elliott Bay	50	728	73	2	21	3.37E+00	3.37E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	50	728	73	12	124	1.95E+01	1.95E+02
Main Basin	50	728	73	140	1404	2.21E+02	2.21E+03
Port Gardner	50	728	73	5	55	8.64E+00	8.64E+01
San Juan Islands	50	728	73	5	46	7.27E+00	7.27E+01
Sinclair/Dyes Inlet	50	728	73	120	1202	1.89E+02	1.89E+03
South Sound East	50	728	73	170	1702	2.68E+02	2.68E+03
South Sound West	50	728	73	74	739	1.17E+02	1.17E+03
Strait of Georgia	50	728	73	38	378	5.97E+01	5.97E+02
Whidbey Basin	50	728	73	44	440	6.93E+01	6.93E+02
Subtotal				655	6547	1032	10324
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	25	728	73	38	384	3.03E+01	3.03E+02
Commencement Bay				0	0	0	0
Hood Canal North	25	728	73	146	1458	1.15E+02	1.15E+03
Elliott Bay				0	0	0	0
Hood Canal South	25	728	73	574	5741	4.53E+02	4.53E+03
Strait of Juan de Fuca	25	728	73	53	528	4.16E+01	4.16E+02
Main Basin	25	728	73	133	1331	1.05E+02	1.05E+03
Port Gardner	25	728	73	14	139	1.10E+01	1.10E+02
San Juan Islands	25	728	73	100	996	7.85E+01	7.85E+02
Sinclair/Dyes Inlet	25	728	73	52	520	4.10E+01	4.10E+02
South Sound East	25	728	73	193	1929	1.52E+02	1.52E+03
South Sound West	25	728	73	547	5475	4.32E+02	4.32E+03
Strait of Georgia	25	728	73	108	1076	8.48E+01	8.48E+02
Whidbey Basin	25	728	73	168	1683	1.33E+02	1.33E+03
Subtotal				2126	21260	1676	16761
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						2849	28492

Table C-25. Groundwater Discharge Concentration and Mass Flux Summary - Lube Oil (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	125	14	100	0	3	124E+00	124E+01
Commencement Bay	220	84	98	14	140	9.75E+01	9.75E+02
Hood Canal North				0	0	0	0
Elliott Bay	250	77	88	9.3	93	7.30E+01	7.30E+02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	125	159	94	6	62	2.46E+01	2.46E+02
Port Gardner	50	47	91	2	19	3.07E+00	3.07E+01
San Juan Islands	205	39	92	1	5	3.55E+00	3.55E+01
Sinclair/Dyes Inlet	125	53	92	6	55	2.19E+01	2.19E+02
South Sound East				0	0	0	0
South Sound West	205	94	71	11	109	7.03E+01	7.03E+02
Strait of Georgia				0	0	0	0
Whidbey Basin	221	8	63	1	8	5.53E+00	5.53E+01
Subtotal				49.6	496	301	3007
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	125	579	89	4	44	1.74E+01	1.74E+02
Commencement Bay	125	579	89	21	213	8.39E+01	8.39E+02
Hood Canal North	125	579	89	18	179	7.05E+01	7.05E+02
Elliott Bay	125	579	89	2	21	8.44E+00	8.44E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	125	579	89	12	124	4.87E+01	4.87E+02
Main Basin	125	579	89	142	1416	5.58E+02	5.58E+03
Port Gardner	125	579	89	5	54	2.12E+01	2.12E+02
San Juan Islands	125	579	89	5	46	1.82E+01	1.82E+02
Sinclair/Dyes Inlet	125	579	89	120	1202	4.74E+02	4.74E+03
South Sound East	125	579	89	170	1702	6.71E+02	6.71E+03
South Sound West	125	579	89	74	739	2.91E+02	2.91E+03
Strait of Georgia	125	579	89	39	386	1.52E+02	1.52E+03
Whidbey Basin	125	579	89	44	440	1.73E+02	1.73E+03
Subtotal				657	6566	2588	25882
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	50	579	89	38	384	6.06E+01	6.06E+02
Commencement Bay				0	0	0	0
Hood Canal North	50	579	89	146	1458	2.30E+02	2.30E+03
Elliott Bay				0	0	0	0
Hood Canal South	50	579	89	574	5741	9.05E+02	9.05E+03
Strait of Juan de Fuca	50	579	89	53	528	8.32E+01	8.32E+02
Main Basin	50	579	89	132	1319	2.08E+02	2.08E+03
Port Gardner	50	579	89	14	139	2.20E+01	2.20E+02
San Juan Islands	50	579	89	100	996	1.57E+02	1.57E+03
Sinclair/Dyes Inlet	50	579	89	52	520	8.20E+01	8.20E+02
South Sound East	50	579	89	193	1929	3.04E+02	3.04E+03
South Sound West	50	579	89	549	5486	8.65E+02	8.65E+03
Strait of Georgia	50	579	89	108	1076	1.70E+02	1.70E+03
Whidbey Basin	50	579	89	168	1683	2.65E+02	2.65E+03
Subtotal				2126	21258	3352	33520
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						6241	62409

Table C-26. Groundwater Discharge Concentration and Mass Flux Summary - Arsenic (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	2.2	9	22	0	2	146E-02	146E-01
Commencement Bay	3.0	223	43	10	99	9.35E-01	9.35E+00
Hood Canal North	13	17	18	1	6	2.53E-01	2.53E+00
Elliott Bay	1.45	104	46	3.3	33	150E-01	150E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	1.2	45	7	2	23	8.89E-02	8.89E-01
Port Gardner	4.0	69	6	2	20	2.49E-01	2.49E+00
San Juan Islands	1.5	28	36	0	3	144E-02	144E-01
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	1.8	73	62	3	33	188E-01	188E+00
Strait of Georgia	0.75	22	23	2	20	4.77E-02	4.77E-01
Whidbey Basin				0	0	0	0
Subtotal				24.0	240	19	19
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.5	12	58	5	45	7.13E-02	7.13E-01
Commencement Bay	0.5	12	58	25	255	4.01E-01	4.01E+00
Hood Canal North	0.5	6	67	18	179	2.82E-01	2.82E+00
Elliott Bay	0.5	12	58	8	81	128E-01	128E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.5	12	58	12	124	195E-01	195E+00
Main Basin	0.5	12	58	144	1442	2.27E+00	2.27E+01
Port Gardner	0.5	12	58	5	53	8.42E-02	8.42E-01
San Juan Islands	0.5	12	58	5	48	7.65E-02	7.65E-01
Sinclair/Dyes Inlet	0.5	12	58	126	1257	198E+00	198E+01
South Sound East	0.5	12	58	170	1702	2.68E+00	2.68E+01
South Sound West	0.5	12	58	81	815	128E+00	128E+01
Strait of Georgia	0.5	12	58	37	365	5.76E-01	5.76E+00
Whidbey Basin	0.5	12	58	44	444	7.00E-01	7.00E+00
Subtotal				681	6812	11	107
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.95	43	67	38	384	1.15E+00	1.15E+01
Commencement Bay				0	0	0	0
Hood Canal North	0.5	9	67	145	1451	2.29E+00	2.29E+01
Elliott Bay				0	0	0	0
Hood Canal South	0.95	43	67	574	5741	1.72E+01	1.72E+02
Strait of Juan de Fuca	0.95	43	67	53	528	158E+00	158E+01
Main Basin	2.5	16	63	133	1331	1.05E+01	1.05E+02
Port Gardner	0.95	43	67	14	139	4.18E-01	4.18E+00
San Juan Islands	0.5	18	72	100	996	157E+00	157E+01
Sinclair/Dyes Inlet	0.95	43	67	52	520	156E+00	156E+01
South Sound East	0.95	43	67	193	1929	5.78E+00	5.78E+01
South Sound West	0.95	43	67	549	5486	1.64E+01	1.64E+02
Strait of Georgia	0.95	43	67	108	1076	3.22E+00	3.22E+01
Whidbey Basin	0.95	43	67	169	1686	5.05E+00	5.05E+01
Subtotal				2127	21269	67	668
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						79	794

Table C-27. Groundwater Discharge Concentration and Mass Flux Summary - Cadmium (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	1.15	179	78	10	101	3.65E-01	3.65E+00
Hood Canal North				0	0	0	0
Elliott Bay	0.1	82	84	4.0	40	1.25E-02	1.25E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.5	17	100	3	26	4.1E-02	4.1E-01
Port Gardner	2.5	36	64	2	21	1.67E-01	1.67E+00
San Juan Islands	2.0	28	100	0	3	1.88E-02	1.88E-01
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	1.0	41	95	3	33	1.04E-01	1.04E+00
Strait of Georgia	0.19	22	68	3	26	1.52E-02	1.52E-01
Whidbey Basin				0	0	0	0
Subtotal				24.9	249	0.72	7.2
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.5	11	100	5	47	7.46E-02	7.46E-01
Commencement Bay	0.5	11	100	25	253	3.99E-01	3.99E+00
Hood Canal North	0.5	5	100	18	179	2.82E-01	2.82E+00
Elliott Bay	0.5	11	100	7	74	1.17E-01	1.17E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.5	11	100	12	124	1.95E-01	1.95E+00
Main Basin	0.5	11	100	144	1440	2.27E+00	2.27E+01
Port Gardner	0.5	11	100	5	52	8.20E-02	8.20E-01
San Juan Islands	0.5	11	100	5	48	7.63E-02	7.63E-01
Sinclair/Dyes Inlet	0.5	11	100	126	1257	1.98E+00	1.98E+01
South Sound East	0.5	11	100	170	1702	2.68E+00	2.68E+01
South Sound West	0.5	11	100	82	815	1.29E+00	1.29E+01
Strait of Georgia	0.5	11	100	36	360	5.67E-01	5.67E+00
Whidbey Basin	0.5	11	100	44	444	7.00E-01	7.00E+00
Subtotal				680	6796	11	107
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.5	19	95	38	384	6.06E-01	6.06E+00
Commencement Bay				0	0	0	0
Hood Canal North	0.5	9	89	146	1458	2.30E+00	2.30E+01
Elliott Bay				0	0	0	0
Hood Canal South	0.5	19	95	574	5741	9.05E+00	9.05E+01
Strait of Juan de Fuca	0.5	19	95	53	528	8.32E-01	8.32E+00
Main Basin	0.05	8	100	133	1331	2.10E-01	2.10E+00
Port Gardner	0.5	19	95	14	139	2.20E-01	2.20E+00
San Juan Islands	0.5	19	95	100	997	1.57E+00	1.57E+01
Sinclair/Dyes Inlet	0.5	19	95	52	520	8.20E-01	8.20E+00
South Sound East	0.5	19	95	193	1929	3.04E+00	3.04E+01
South Sound West	0.5	19	95	549	5486	8.65E+00	8.65E+01
Strait of Georgia	0.5	19	95	108	1076	1.70E+00	1.70E+01
Whidbey Basin	0.5	19	95	169	1686	2.66E+00	2.66E+01
Subtotal				2128	21275	32	317
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						43	431

Table C-28. Groundwater Discharge Concentration and Mass Flux Summary - Copper (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	3.0	9	44	0	2	2.10E-02	2.10E-01
Commencement Bay	3.26	180	21	5	53	5.44E-01	5.44E+00
Hood Canal North				0	0	0	0
Elliott Bay	2.35	80	39	2.4	24	1.75E-01	1.75E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner	10	37	46	2	16	5.01E-01	5.01E+00
San Juan Islands	1.45	28	64	0	3	1.37E-02	1.37E-01
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	3.55	18	39	2	21	2.35E-01	2.35E+00
Strait of Georgia	5.0	25	28	3	27	4.25E-01	4.25E+00
Whidbey Basin				0	0	0	0
Subtotal				14.6	146	19	19
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	5	11	91	5	45	7.11E-01	7.11E+00
Commencement Bay	5	11	91	30	300	4.74E+00	4.74E+01
Hood Canal North	5	5	100	18	179	2.82E+00	2.82E+01
Elliott Bay	5	11	91	9	90	1.43E+00	1.43E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	5	11	91	12	124	1.95E+00	1.95E+01
Main Basin	5	11	91	147	1466	2.31E+01	2.31E+02
Port Gardner	5	11	91	6	57	9.03E-01	9.03E+00
San Juan Islands	5	11	91	5	48	7.64E-01	7.64E+00
Sinclair/Dyes Inlet	5	11	91	126	1257	1.98E+01	1.98E+02
South Sound East	5	11	91	170	1702	2.68E+01	2.68E+02
South Sound West	5	11	91	83	827	1.30E+01	1.30E+02
Strait of Georgia	5	11	91	36	359	5.65E+00	5.65E+01
Whidbey Basin	5	11	91	44	444	7.00E+00	7.00E+01
Subtotal				690	6899	109	1088
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	5	19	84	38	384	6.06E+00	6.06E+01
Commencement Bay				0	0	0	0
Hood Canal North	5	9	100	146	1458	2.30E+01	2.30E+02
Elliott Bay				0	0	0	0
Hood Canal South	5	19	84	574	5741	9.05E+01	9.05E+02
Strait of Juan de Fuca	5	19	84	53	528	8.32E+00	8.32E+01
Main Basin	0.54	8	63	133	1331	2.27E+00	2.27E+01
Port Gardner	5	19	84	14	139	2.20E+00	2.20E+01
San Juan Islands	5	19	84	100	996	1.57E+01	1.57E+02
Sinclair/Dyes Inlet	5	19	84	52	520	8.20E+00	8.20E+01
South Sound East	5	19	84	193	1929	3.04E+01	3.04E+02
South Sound West	5	19	84	549	5486	8.65E+01	8.65E+02
Strait of Georgia	5	19	84	108	1076	1.70E+01	1.70E+02
Whidbey Basin	5	19	84	169	1686	2.66E+01	2.66E+02
Subtotal				2128	21275	317	3167
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						427	4274

* - All non-detect results substituted with one half the reporting limit.

Table C-29. Groundwater Discharge Concentration and Mass Flux Summary - Lead (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	10	23	26	1	6	1.96E-01	1.96E+00
Commencement Bay	1.0	28	58	11	107	3.37E-01	3.37E+00
Hood Canal North				0	0	0	0
Elliott Bay	0.76	130	68	6.8	68	1.61E-01	1.61E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.5	65	95	6	56	8.84E-02	8.84E-01
Port Gardner	2.5	37	54	2	20	1.59E-01	1.59E+00
San Juan Islands	0.5	35	94	0	4	6.68E-03	6.68E-02
Sinclair/Dyes Inlet	0.5	63	54	3	32	5.09E-02	5.09E-01
South Sound East				0	0	0	0
South Sound West	1.0	110	74	4	43	1.36E-01	1.36E+00
Strait of Georgia	0.5	25	56	2	23	3.67E-02	3.67E-01
Whidbey Basin	1.3	5	0	0	3	1.11E-02	1.11E-01
Subtotal				36.3	363	12	12
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	5	10	80	4	41	6.48E-01	6.48E+00
Commencement Bay	5	10	80	25	247	3.89E+00	3.89E+01
Hood Canal North	5	5	100	18	179	2.82E+00	2.82E+01
Elliott Bay	5	10	80	5	46	7.29E-01	7.29E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	5	10	80	12	124	1.95E+00	1.95E+01
Main Basin	5	10	80	142	1419	2.24E+01	2.24E+02
Port Gardner	5	10	80	5	53	8.36E-01	8.36E+00
San Juan Islands	5	10	80	5	47	7.43E-01	7.43E+00
Sinclair/Dyes Inlet	5	10	80	123	1225	1.93E+01	1.93E+02
South Sound East	5	10	80	170	1702	2.68E+01	2.68E+02
South Sound West	5	10	80	81	805	1.27E+01	1.27E+02
Strait of Georgia	5	10	80	36	362	5.71E+00	5.71E+01
Whidbey Basin	5	10	80	44	441	6.96E+00	6.96E+01
Subtotal				669	6692	106	1055
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	1.36	19	74	38	384	1.65E+00	1.65E+01
Commencement Bay				0	0	0	0
Hood Canal North	5	9	67	146	1458	2.30E+01	2.30E+02
Elliott Bay				0	0	0	0
Hood Canal South	1.36	19	74	574	5741	2.46E+01	2.46E+02
Strait of Juan de Fuca	1.36	19	74	53	528	2.26E+00	2.26E+01
Main Basin	0.163	8	75	132	1322	6.78E-01	6.78E+00
Port Gardner	1.36	19	74	14	139	5.98E-01	5.98E+00
San Juan Islands	1.36	19	74	100	997	4.27E+00	4.27E+01
Sinclair/Dyes Inlet	1.36	19	74	52	520	2.23E+00	2.23E+01
South Sound East	1.36	19	74	193	1929	8.27E+00	8.27E+01
South Sound West	1.36	19	74	549	5486	2.35E+01	2.35E+02
Strait of Georgia	1.36	19	74	108	1076	4.61E+00	4.61E+01
Whidbey Basin	1.36	19	74	169	1686	7.23E+00	7.23E+01
Subtotal				2127	21266	103	1029
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						210	2096

* - All non-detect results substituted with one half the reporting limit.

Table C-30. Groundwater Discharge Concentration and Mass Flux Summary - Mercury (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.1	147	90	11	106	3.33E-02	3.33E-01
Hood Canal North				0	0	0	0
Elliott Bay	0.05	80	84	3.2	32	5.00E-03	5.00E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.01	45	100	2	20	6.34E-04	6.34E-03
Port Gardner	0.1	36	94	2	17	5.39E-03	5.39E-02
San Juan Islands	0.063	28	100	0	3	5.52E-04	5.52E-03
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	0.1	60	97	1	8	2.45E-03	2.45E-02
Strait of Georgia	0.002	23	96	2	24	1.50E-04	1.50E-03
Whidbey Basin				0	0	0	0
Subtotal				20.9	209	0.05	0.47
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.05	10	100	5	47	7.46E-03	7.46E-02
Commencement Bay	0.05	10	100	25	248	3.91E-02	3.91E-01
Hood Canal North	0.05	5	100	18	179	2.82E-02	2.82E-01
Elliott Bay	0.05	10	100	8	82	1.30E-02	1.30E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.05	10	100	12	124	1.95E-02	1.95E-01
Main Basin	0.05	10	100	145	1446	2.28E-01	2.28E+00
Port Gardner	0.05	10	100	6	56	8.84E-03	8.84E-02
San Juan Islands	0.05	10	100	5	49	7.66E-03	7.66E-02
Sinclair/Dyes Inlet	0.05	10	100	126	1257	1.98E-01	1.98E+00
South Sound East	0.05	10	100	170	1702	2.68E-01	2.68E+00
South Sound West	0.05	10	100	84	840	1.33E-01	1.33E+00
Strait of Georgia	0.05	10	100	36	362	5.70E-02	5.70E-01
Whidbey Basin	0.05	10	100	44	444	7.00E-02	7.00E-01
Subtotal				684	6836	1.1	11
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.05	19	100	38	384	6.06E-02	6.06E-01
Commencement Bay				0	0	0	0
Hood Canal North	0.05	9	100	146	1458	2.30E-01	2.30E+00
Elliott Bay				0	0	0	0
Hood Canal South	0.05	19	100	574	5741	9.05E-01	9.05E+00
Strait of Juan de Fuca	0.05	19	100	53	528	8.32E-02	8.32E-01
Main Basin	0.1	8	100	133	1331	4.20E-01	4.20E+00
Port Gardner	0.05	19	100	14	139	2.20E-02	2.20E-01
San Juan Islands	0.05	19	100	100	997	1.57E-01	1.57E+00
Sinclair/Dyes Inlet	0.05	19	100	52	520	8.20E-02	8.20E-01
South Sound East	0.05	19	100	193	1929	3.04E-01	3.04E+00
South Sound West	0.05	19	100	549	5486	8.65E-01	8.65E+00
Strait of Georgia	0.05	19	100	108	1076	1.70E-01	1.70E+00
Whidbey Basin	0.05	19	100	169	1686	2.66E-01	2.66E+00
Subtotal				2128	21275	3.6	36

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
4.7	47

Table C-31. Groundwater Discharge Concentration and Mass Flux Summary - Zinc (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	5	9	78	0	3	5.14E-02	5.14E-01
Commencement Bay	5	104	40	4	42	6.61E-01	6.61E+00
Hood Canal North				0	0	0	0
Elliott Bay	5	82	63	4.1	41	6.50E-01	6.50E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	5	35	71	2	22	3.43E-01	3.43E+00
Port Gardner	34	31	35	1	15	1.59E+00	1.59E+01
San Juan Islands	12.5	28	96	0	4	1.42E-01	1.42E+00
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	14	14	50	1	6	2.74E-01	2.74E+00
Strait of Georgia	10	25	40	3	31	9.67E-01	9.67E+00
Whidbey Basin				0	0	0	0
Subtotal				16.3	163	4.7	47
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	23	11	18	4	44	3.15E+00	3.15E+01
Commencement Bay	23	11	18	31	312	2.23E+01	2.23E+02
Hood Canal North	24	5	20	18	179	1.35E+01	1.35E+02
Elliott Bay	23	11	18	7	73	5.21E+00	5.21E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	23	11	18	12	124	8.84E+00	8.84E+01
Main Basin	23	11	18	144	1444	1.03E+02	1.03E+03
Port Gardner	23	11	18	6	58	4.17E+00	4.17E+01
San Juan Islands	23	11	18	5	48	3.45E+00	3.45E+01
Sinclair/Dyes Inlet	23	11	18	126	1257	9.00E+01	9.00E+02
South Sound East	23	11	18	170	1702	1.22E+02	1.22E+03
South Sound West	23	11	18	84	842	6.03E+01	6.03E+02
Strait of Georgia	23	11	18	35	355	2.54E+01	2.54E+02
Whidbey Basin	23	11	18	44	444	3.18E+01	3.18E+02
Subtotal				688	6882	493	4934
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	21	19	0	38	384	2.54E+01	2.54E+02
Commencement Bay				0	0	0	0
Hood Canal North	47	9	0	146	1458	2.16E+02	2.16E+03
Elliott Bay				0	0	0	0
Hood Canal South	21	19	0	574	5741	3.80E+02	3.80E+03
Strait of Juan de Fuca	21	19	0	53	528	3.49E+01	3.49E+02
Main Basin	6.9	8	0	133	1331	2.88E+01	2.88E+02
Port Gardner	21	19	0	14	139	9.24E+00	9.24E+01
San Juan Islands	21	19	0	100	996	6.60E+01	6.60E+02
Sinclair/Dyes Inlet	21	19	0	52	520	3.45E+01	3.45E+02
South Sound East	21	19	0	193	1929	1.28E+02	1.28E+03
South Sound West	21	19	0	549	5486	3.63E+02	3.63E+03
Strait of Georgia	21	19	0	108	1076	7.12E+01	7.12E+02
Whidbey Basin	21	19	0	169	1686	1.12E+02	1.12E+03
Subtotal				2127	21275	1469	14691
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						1967	19672

* - All non-detect results substituted with one half the reporting limit.

Table C-32. Groundwater Discharge Concentration and Mass Flux Summary - Bis(2-ethylhexyl)phthalate (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	5.0	117	81	5	49	7.71E-01	7.71E+00
Hood Canal North				0	0	0	0
Elliott Bay	0.5	71	70	3.7	37	5.82E-02	5.82E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.5	41	95	3	28	4.34E-02	4.34E-01
Port Gardner	3.0	19	100	1	15	1.42E-01	1.42E+00
San Juan Islands	0.5	27	100	0	3	5.30E-03	5.30E-02
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	0.75	43	88	2	19	4.47E-02	4.47E-01
Strait of Georgia	0.155	29	66	2	15	7.54E-03	7.54E-02
Whidbey Basin				0	0	0	0
Subtotal				16.6	166	1.1	11
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.5	347	83	5	47	7.46E-02	7.46E-01
Commencement Bay	0.5	347	83	30	305	4.80E-01	4.80E+00
Hood Canal North	0.5	347	83	18	179	2.82E-01	2.82E+00
Elliott Bay	0.5	347	83	8	77	1.22E-01	1.22E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.5	347	83	12	124	1.95E-01	1.95E+00
Main Basin	0.5	347	83	144	1438	2.27E+00	2.27E+01
Port Gardner	0.5	347	83	6	58	9.17E-02	9.17E-01
San Juan Islands	0.5	347	83	5	48	7.62E-02	7.62E-01
Sinclair/Dyes Inlet	0.5	347	83	126	1257	1.98E+00	1.98E+01
South Sound East	0.5	347	83	170	1702	2.68E+00	2.68E+01
South Sound West	0.5	347	83	83	829	1.31E+00	1.31E+01
Strait of Georgia	0.5	347	83	37	370	5.84E-01	5.84E+00
Whidbey Basin	0.5	347	83	44	444	7.00E-01	7.00E+00
Subtotal				688	6879	11	108
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.478	347	83	38	384	5.79E-01	5.79E+00
Commencement Bay	0.478	347	83	0	0	0	0
Hood Canal North	0.478	347	83	146	1458	2.20E+00	2.20E+01
Elliott Bay	0.478	347	83	0	0	0	0
Hood Canal South	0.478	347	83	574	5741	8.65E+00	8.65E+01
Strait of Juan de Fuca	0.478	347	83	53	528	7.95E-01	7.95E+00
Main Basin	0.478	347	83	133	1331	2.01E+00	2.01E+01
Port Gardner	0.478	347	83	14	139	2.10E-01	2.10E+00
San Juan Islands	0.478	347	83	100	996	1.50E+00	1.50E+01
Sinclair/Dyes Inlet	0.478	347	83	52	520	7.84E-01	7.84E+00
South Sound East	0.478	347	83	193	1929	2.91E+00	2.91E+01
South Sound West	0.478	347	83	549	5486	8.27E+00	8.27E+01
Strait of Georgia	0.478	347	83	108	1076	1.62E+00	1.62E+01
Whidbey Basin	0.478	347	83	169	1686	2.54E+00	2.54E+01
Subtotal				2127	21275	32	321
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						44	440

Table C-33. Groundwater Discharge Concentration and Mass Flux Summary - Total TCDD (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.065	9	100	2	20	4.04E-03	4.04E-02
Hood Canal North				0	0	0	0
Elliott Bay				0	0	0	0
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia	1.73E-06	12	100	1	12	6.49E-08	6.49E-07
Whidbey Basin				0	0	0	0
Subtotal				3.2	32	4.04E-03	0.04
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	1.49E-03	24	100	5	47	2.22E-04	2.22E-03
Commencement Bay	1.49E-03	24	100	33	334	1.57E-03	1.57E-02
Hood Canal North	1.49E-03	24	100	18	179	8.39E-04	8.39E-03
Elliott Bay	1.49E-03	24	100	11	114	5.35E-04	5.35E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	1.49E-03	24	100	12	124	5.80E-04	5.80E-03
Main Basin	1.49E-03	24	100	147	1466	6.88E-03	6.88E-02
Port Gardner	1.49E-03	24	100	7	73	3.43E-04	3.43E-03
San Juan Islands	1.49E-03	24	100	5	50	2.33E-04	2.33E-03
Sinclair/Dyes Inlet	1.49E-03	24	100	126	1257	5.90E-03	5.90E-02
South Sound East	1.49E-03	24	100	170	1702	7.99E-03	7.99E-02
South Sound West	1.49E-03	24	100	85	848	3.98E-03	3.98E-02
Strait of Georgia	1.49E-03	24	100	37	374	1.75E-03	1.75E-02
Whidbey Basin	1.49E-03	24	100	44	444	2.08E-03	2.08E-02
Subtotal				701	7012	0.03	0.33
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	6.97E-04	24	100	38	384	8.45E-04	8.45E-03
Commencement Bay				0	0	0	0
Hood Canal North	6.97E-04	24	100	146	1458	3.20E-03	3.20E-02
Elliott Bay				0	0	0	0
Hood Canal South	6.97E-04	24	100	574	5741	1.26E-02	1.26E-01
Strait of Juan de Fuca	6.97E-04	24	100	53	528	1.16E-03	1.16E-02
Main Basin	6.97E-04	24	100	133	1331	2.93E-03	2.93E-02
Port Gardner	6.97E-04	24	100	14	139	3.07E-04	3.07E-03
San Juan Islands	6.97E-04	24	100	100	998	2.19E-03	2.19E-02
Sinclair/Dyes Inlet	6.97E-04	24	100	52	520	1.14E-03	1.14E-02
South Sound East	6.97E-04	24	100	193	1929	4.24E-03	4.24E-02
South Sound West	6.97E-04	24	100	549	5486	1.21E-02	1.21E-01
Strait of Georgia	6.97E-04	24	100	108	1076	2.36E-03	2.36E-02
Whidbey Basin	6.97E-04	24	100	169	1686	3.71E-03	3.71E-02
Subtotal				2128	21277	0.05	0.47
* - All non-detect results substituted with one half the reporting limit.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.08	0.84

Table C-34. Groundwater Discharge Concentration and Mass Flux Summary - Total TCDF (Method 1)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.11	9	100	2	20	6.84E-03	6.84E-02
Hood Canal North				0	0	0	0
Elliott Bay				0	0	0	0
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia	1.88E-06	12	92	1	12	7.05E-08	7.05E-07
Whidbey Basin				0	0	0	0
Subtotal				3.2	32	6.84E-03	0.07
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	1.73E-03	24	88	5	47	2.57E-04	2.57E-03
Commencement Bay	1.73E-03	24	88	33	334	1.82E-03	1.82E-02
Hood Canal North	1.73E-03	24	88	18	179	9.73E-04	9.73E-03
Elliott Bay	1.73E-03	24	88	11	114	6.20E-04	6.20E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	1.73E-03	24	88	12	124	6.72E-04	6.72E-03
Main Basin	1.73E-03	24	88	147	1466	7.97E-03	7.97E-02
Port Gardner	1.73E-03	24	88	7	73	3.98E-04	3.98E-03
San Juan Islands	1.73E-03	24	88	5	50	2.71E-04	2.71E-03
Sinclair/Dyes Inlet	1.73E-03	24	88	126	1257	6.84E-03	6.84E-02
South Sound East	1.73E-03	24	88	170	1702	9.26E-03	9.26E-02
South Sound West	1.73E-03	24	88	85	848	4.61E-03	4.61E-02
Strait of Georgia	1.73E-03	24	88	37	374	2.03E-03	2.03E-02
Whidbey Basin	1.73E-03	24	88	44	444	2.41E-03	2.41E-02
Subtotal				701	7012	0.04	0.38
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	1.02E-03	24	88	38	384	1.24E-03	1.24E-02
Commencement Bay				0	0	0	0
Hood Canal North	1.02E-03	24	88	146	1458	4.69E-03	4.69E-02
Elliott Bay				0	0	0	0
Hood Canal South	1.02E-03	24	88	574	5741	1.85E-02	1.85E-01
Strait of Juan de Fuca	1.02E-03	24	88	53	528	1.70E-03	1.70E-02
Main Basin	1.02E-03	24	88	133	1331	4.28E-03	4.28E-02
Port Gardner	1.02E-03	24	88	14	139	4.49E-04	4.49E-03
San Juan Islands	1.02E-03	24	88	100	998	3.21E-03	3.21E-02
Sinclair/Dyes Inlet	1.02E-03	24	88	52	520	1.67E-03	1.67E-02
South Sound East	1.02E-03	24	88	193	1929	6.21E-03	6.21E-02
South Sound West	1.02E-03	24	88	549	5486	1.76E-02	1.76E-01
Strait of Georgia	1.02E-03	24	88	108	1076	3.46E-03	3.46E-02
Whidbey Basin	1.02E-03	24	88	169	1686	5.42E-03	5.42E-02
Subtotal				2128	21277	0.07	0.68

* - All non-detect results substituted with one half the reporting limit.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
0.11	1.1