

## TBWC Trends Program Sampling Stations

### *Tomales Bay Watershed Council Sorted by ID*

	<b>Station ID</b>	<b>Station Name</b>	<b>Station Type</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Elev.</b>
1	FV1	First Valley Creek upstream of SFD (38.09729°)	River/Stream (122.85241°)	38°5'50.244" North	122°51'8.676" West	
2	KYS1	Keyes Creek at Hwy. 1 Bridge (38.2411°)	River/Stream (122.9052°)	38°14'27.96" North	122°54'18.72" West	
3	LAG1	Lagunitas Creek at Green Bridge (Hwy 1) (38.0645°)	River/Stream (122.8056°)	38°3'52.2" North	122°48'20.1599" West	
4	LAG6	Lagunitas Creek - Wetland-Bay Interface (38.084609°)	River/Stream (122.829063°)	38°5'4.590684" North	122°49'44.62503" West	
5	LAGSPT	Lagunitas Creek in Samuel P Taylor at the USGS streamgage	River/Stream (38.02698°)	38°1'37.128" North (122.73641°)	122°44'11.0761" West	
6	MC1	Millerton Creek upstream of tidal influence (38.11216°)	River/Stream (122.835°)	38°6'43.776" North	122°50'5.9999" West	
7	MC1A	Millerton Creek River/Stream (38.10929°)	38°6'33.444" North (122.83977°)	122°50'23.172" West		
8	MP36.17	Tributary at MP 36.17, near Marconi (38.14012°)	River/Stream (122.87154°)	38°8'24.432" North	122°52'17.544" West	
9	OLM11	Olema Creek at Bear Valley Road bridge - NPS gage site	River/Stream (38.04165°)	38°2'29.94" North (122.78957°)	122°47'22.4519" West	
10	SG1	San Geronimo Creek at MMWD Gage (38.00955°)	River/Stream (122.701°)	38°0'34.38" North	122°42'3.6001" West	208 ft
11	TB11	Tomales Bay - Inner Bay Site (38.10695°)	Ocean: Pacific Ocean (122.853164°)	38°6'25.02" North	122°51'11.3901" West	
12	TB2	Tomales Bay - Outer Bay Site (38.206106°)	Ocean: Pacific Ocean (122.936967°)	38°12'21.98" North	122°56'13.0801" West	
13	TB4	Tomales Bay - mid bay site (38.172725°)	Ocean: Pacific Ocean (122.906222°)	38°10'21.81" North	122°54'22.4" West	
14	WG1	White Gulch just upstream of Bay input (38.19501°)	River/Stream (122.95138°)	38°11'42.036" North	122°57'4.9681" West	
15	WKR1	Walker Creek at Hwy. 1 Bridge (38.23254°)	River/Stream (122.91295°)	38°13'57.144" North	122°54'46.62" West	

**TBWC Trends Program Sampling Stations cont...**

<i>Tomales Bay Watershed Council</i>			<i>Sorted by ID</i>			
Station ID	Station Name	Station Type	Latitude	Longitude	Elev.	
16	WKR2 Walker Creek at Walker Creek Ranch (USGS gage site)	River/Stream (38.17511°)	38°10'30.396" North (122.81768°)	122°49'3.6479" West		

**Number of Stations for Tomales Bay Watershed Council: 16**

- Stations filtered for:  
 Organization = TBWC: Tomales Bay Watershed Council  
 Project = TRENDS: Long-Term Water-Quality Trends in Tomales Bay & Tributaries  
 Station = FV1: First Valley Creek upstream of SFD  
 KYS1: Keyes Creek at Hwy. 1 Bridge  
 LAG1: Lagunitas Creek at Green Bridge (Hwy 1)  
 LAG6: Lagunitas Creek - Wetland-Bay Interface  
 LAGSPT: Lagunitas Creek in Samuel P Taylor at the USGS streamgage  
 MC1: Millerton Creek upstream of tidal influence  
 MC1A: Millerton Creek  
 MP36.17: Tributary at MP 36.17, near Marconi  
 OLM11: Olema Creek at Bear Valley Road bridge - NPS gage site  
 SG1: San Geronimo Creek at MMWD Gage  
 TB11: Tomales Bay - Inner Bay Site  
 TB2: Tomales Bay - Outer Bay Site  
 TB4: Tomales Bay - mid bay site  
 WG1: White Gulch just upstream of Bay input  
 WKR1: Walker Creek at Hwy. 1 Bridge  
 WKR2: Walker Creek at Walker Creek Ranch (USGS gage site)

## **Appendix C – WY08 and WY09 Station Visit and Result Summary Tables**

The tables below were originally included in the body of the 2008-2009 Annual Water Quality Report and Program Summary (Carson 2009). The tables summarize sampling events for each water year as well as the means and ranges of data collected for the 2007-08 and 2008-09 Water Years.

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**Table C1 - Summary of Trend Sampling Events for the 2007-2008 Water Year**

Site Name	Site Type	Description	Period of Record	Number of Samples
<b>Lagunitas Creek</b>				
SG1	Tributary Site	San Geronimo Creek at Lagunitas Rd	12/17/07-9/30/08	28
LAGSPT	Mainstem Stream Site	Lagunitas Creek in SPT State Park (at USGS streamgage)	12/17/07-9/30/08	28
OLM11	Tributary Site	Olema Creek at NPS streamgage	12/17/07-9/30/08	28
LAG1	Mainstem Stream Site	Lagunitas Creek at Hwy. 1 (Green Bridge)	12/17/07-9/30/08	28
<b>West Shore</b>				
FV1	Mainstem Stream Site	First Valley Creek at SFD Blvd.	12/17/07-9/30/08	28
WG1	Mainstem Stream Site	White Gulch upstream of Bay inflow	12/17/07-6/10/08	20
<b>East Shore</b>				
MC1*	Mainstem Stream Site	Millerton Gulch at upstream CA State Park boundary*	3/18/08-4/22/08	5
MC1A*	Mainstem Stream Site	Millerton Gulch at Hwy. 1*	12/17/08-7/22/08	17
MP36.17	Mainstem Stream Site	Reference stream at Hwy. 1	1/2/08-9/30/08	27
<b>Walker Creek</b>				
WKR2	Mainstem Stream Site	Walker Creek at Walker Creek Ranch	1/22/08-9/30/08	24
WKR1	Mainstem Stream Site	Walker Creek at Hwy.1	12/17/07-9/30/08	28
KYS1	Tributary Site	Keyes Creek at Hwy. 1	1/2/08-6/24/08	20
<b>Tomales Bay Sites</b>				
TB2	Outer Bay Site	Bay Site near Walker Crk input	12/18/08-9/16/08	24
TB4	Mid-Bay Site	Bay Site North of Marshall	12/18/08-9/16/08	24
TB11	Inner Bay Site	Bay site near Millerton Point	12/18/08-9/16/08	27
LAG6	Wetlands/Bay Interface	Lagunitas Creek downstream of levees	1/29/08-9/30/08	21

\* Millerton Gulch sampling site was moved upstream from Hwy. 1 sampling site to eliminate tidal influence.

**Table C2– Summary of Trend Sampling Events for the 2008-2009 Water Year**

Site Name	Site Type	Description	Period of Record	Number of Samples
<b>Lagunitas Creek</b>				
SG1	Tributary Site	San Geronimo Creek at Lagunitas Rd	10/14/08-9/15/09	33
LAGSPT	Mainstem Stream Site	Lagunitas Creek in SPT State Park (at USGS streamgage)	10/14/08-9/15/09	33
OLM11	Tributary Site	Olema Creek at NPS streamgage	10/14/08-9/15/09	33
LAG1	Mainstem Stream Site	Lagunitas Creek at Hwy. 1 (Green Bridge)	10/14/08-9/15/09	33
<b>West Shore</b>				
FV1	Mainstem Stream Site	First Valley Creek at SFD Blvd.	10/14/08-9/15/09	33
WG1	Mainstem Stream Site	White Gulch upstream of Bay inflow	12/16/08-3/24/09	10
<b>East Shore</b>				
MC1	Mainstem Stream Site	Millerton Gulch at upstream CA State Park boundary	12/30/08-6/16/09	19
MP36.17	Mainstem Stream Site	Reference stream at Hwy. 1	10/14/08-9/15/09	33
<b>Walker Creek</b>				
WKR2	Mainstem Stream Site	Walker Creek at Walker Creek Ranch	10/14/08-9/15/09	33
WKR1	Mainstem Stream Site	Walker Creek at Hwy.1	10/14/08-9/15/09	33
KYS1	Tributary Site	Keyes Creek at Hwy. 1	11/4/08-5/5/09	16
<b>Tomales Bay Sites</b>				
TB2	Outer Bay Site	Bay Site near Walker Crk input	10/14/08-9/1/09	13
TB4	Mid-Bay Site	Bay Site North of Marshall	10/14/08-9/1/09	13
TB11	Inner Bay Site	Bay site near Millerton Point	10/14/08-9/1/09	20
LAG6	Wetlands/Bay Interface	Lagunitas Creek downstream of levees	11/4/08-9/15/09	28

**Table C3– WY08 Field Parameter Results by Station for Trends Monitoring**

Site Name	# of Samples	Water Temp °C			Specific Conductance (µS/cm)			Salinity (ppt)			Dissolved Oxygen (mg/L)			pH		
		Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean
<b>Lagunitas Creek</b>																
SG1	28	6	16.8	10.38	58.1	394.7	315.6	0.0	0.2	0.154	5.57	11.2	9.273	7	8.01	7.68
LAGSPT	28	8	14.3	9.99	154.9	340.9	195.9	0.1	0.2	0.104	9.15	11.29	10.22	7.07	8.18	7.75
OLM11	27	7.1	16.1	10.76	130.8	333	244.2	0.1	0.2	0.119	7.67	12.03	9.79	7.19	7.77	7.49
LAG1	28	7.1	18.8	12.01	147.4	1822	537.8	0.1	0.9	0.27	6.65	10.85	8.76	6.47	7.82	7.23
<b>West Shore</b>																
FV1	28	8.1	15.1	11.14	130.8	210.7	171	0.1	0.1	0.1	7.38	11.84	10.31	6.97	7.87	7.24
WG1	20	7.3	20.6	10.76	233.1	5690	647.4	0.1	3.1	0.335	2.01	10.68	9.1	6.43	7.17	6.98
<b>East Shore</b>																
MC1	5	9	10.5	9.74	240.7	283.9	266.7	0.1	0.1	0.1	5.26	9.19	7.45	6.34	6.81	6.61
MC1A**	17	7	19.5	11.01	151.3	41800	13219	0.1	26.9	8.31	3.4	11.15	8.71	7.06	7.81	7.31
MP36.17	27	7.2	15.3	11.06	127	335.6	243	0.1	0.2	0.115	9.05	11.63	10.19	7.19	7.95	7.53
<b>Walker Creek</b>																
WKR2	24	8.3	16.3	11.69	130.5	185.2	145	0.1	0.1	0.1	8.86	11.85	10.18	6.92	7.69	7.26
WKR1	28	7	21.7	12.98	143.2	18230	2187	0.1	10.8	1.218	6.46	10.98	9.147	6.98	7.8	7.39
KYS1	20	6.7	14.5	10.45	167.4	460.3	308.9	0.1	0.2	0.15	6.47	11.29	9.416	7.03	7.56	7.21
<b>Tomales Bay Sites</b>																
TB2	22	8.7	18.3	12.72	*	*	*	16	41	35.71	*	*	*	*	*	*
TB4	22	8.8	18.2	13.71	*	*	*	16	42	34.75	*	*	*	*	*	*
TB11	23	7.8	16.7	12.51	*	*	*	*	*	*	*	*	*	*	*	*
LAG6	21	9	24.9	16.04	220.9	40690	13173	0.1	26.1	7.82	6.17	14.68	8.79	7.27	8.8	7.78

\* Parameter not collected or analyzed for this site

\*\*Millerton Gulch sampling site was moved upstream during this water year to eliminate tidal influence.

MC1A refers to sampling site at Shoreline Hwy bridge, MC1 is upstream site.

**Table C4– WY09 Field Parameter Results by Station for Trends Monitoring**

Site Name	# of Samples	Water Temp °C			Specific Conductance (µS/cm)			Salinity (ppt)			Dissolved Oxygen (mg/L)			pH		
		Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean
<b>Lagunitas Creek</b>																
SG1	33	5.1	15.4	10.43	147.4	514	380.5	0.1	0.2	0.1818	5.95	11.45	9.311	7.05	8.14	7.685
LAGSPT	33	7.5	13.8	10.48	144.9	238.1	183.3	0.1	0.1	0.1	8.55	11.36	0.25	7.23	8.12	7.722
OLM11	33	4.6	16.2	10.49	114.5	360.5	286.3	0.1	0.2	0.1545	7.76	11.84	9.573	7.17	7.95	7.494
LAG1	33	7.1	19.1	12.25	147.3	6,480	1,075	0.1	3.6	0.5625	6.54	11.74	9.055	6.4	7.8	7.15
<b>West Shore</b>																
FV1	33	5.8	15.3	10.76	161.5	246.5	207.9	0.1	0.1	0.1	9.12	12.72	10.24	5.75	7.62	6.985
WG1	10	7.6	13.3	10.14	186.3	45,540	7,200	0.1	29.3	4.543	7.18	9.12	8.22	4.89	7.71	6.165
<b>East Shore</b>																
MC1	19	5.6	13.4	9.421	152.4	445.6	323.8	0.1	0.2	0.1632	0.73	12.03	7.626	6.78	7.44	7.144
MP36.17	33	5.3	15.1	10.83	171.1	621	325.2	0.1	0.3	0.1727	7.48	12.51	10.17	6.81	8.05	7.674
<b>Walker Creek</b>																
WKR2	33	6.9	15.7	11.66	128.4	192.2	157.9	0.1	0.1	0.1	9.08	12.27	10.2	6.99	8.01	7.395
WKR1	33	5.5	19.3	12.42	150.8	24,460	8,274	0.1	14.9	4.778	6.31	11.26	8.965	6.9	8.09	7.576
KYS1	15	4.9	14.6	9.113	116.1	517	380.4	0.1	0.2	0.18	4	11.49	8.019	6.7	7.69	7.218
<b>Tomales Bay Sites</b>																
TB2	11	9.4	17.8	13.29	*	*	*	35	45	36.5	*	*	*	*	*	*
TB4	11	9.3	17.9	14.15	*	*	*	35	45	36.5	*	*	*	*	*	*
TB11	12	7.2	16.7	10.92	*	*	*	*	*	*	*	*	*	*	*	*
LAG6	28	5.8	24.5	13.9	202.4	50,400	25,987	0.1	33.1	16.27	3.78	11.57	7.375	6.94	8.27	7.57

\* Parameter not collected or analyzed for this site

**Table C5– WY08 Nutrient Parameter Results for Trends Monitoring by Station**

Site Name	Nitrate as N (mg/L)					Total Kjeldahl Nitrogen (mg/L)					Ammonia as N (mg/L)					Total Phosphorus (mg/L)				
	# of detections	# of non-detects†	Min.	Max.	Mean	# of detections	# of non-detects†	Min.	Max.	Mean	# of detections	# of non-detects†	Min.	Max.	Mean	# of detections	# of non-detects†	Min.	Max.	Mean
<b>Lagunitas Creek</b>																				
SG1	22	6	<0.11	1.807	0.456	16	12	<0.25	0.79	0.344	1	27	<0.082	0.099	†	0	27	<0.1	<0.1	†
LAGSPT	17	11	<0.11	0.723	0.224	10	18	<0.25	0.82	†	0	28	<0.082	<0.082	†	0	27	<0.1	<0.1	†
OLM11	16	11	<0.11	0.655	0.252	17	10	<0.25	0.72	0.355	0	27	<0.082	<0.082	†	4	23	<0.1	0.14	†
LAG1	12	16	<0.11	0.565	†	16	12	<0.25	0.56	0.326	0	0	<0.082	<0.082	†	1	26	<0.10	0.13	†
<b>West Shore</b>																				
FV1	27	1	<0.11	0.678	0.252	17	11	<0.25	0.53	0.331	0	28	<0.082	<0.082	†	0	27	<0.10	<0.10	†
WG1	1	19	<0.11	0.208	†	17	3	<0.25	1.5	0.474	1	19	<0.082	0.165	†	2	17	<0.1	0.18	†
<b>East Shore</b>																				
MC1	4	1	<0.11	0.271	0.197	4	1	<0.25	0.49	0.336	0	5	<0.082	<0.082	†	0	27	<0.1	<0.1	†
MC1A*	10	7	<0.11	1.717	0.469	14	3	<0.25	1.3	0.511	0	17	<0.082	<0.082	†	3	13	<0.1	0.19	†
MP36.17	6	21	<0.11	0.384	†	23	4	<0.25	0.76	0.392	0	27	<0.082	<0.082	†	0	26	<0.1	<0.1	†
<b>Walker Creek</b>																				
WKR2	23	1	<0.11	0.407	0.262	20	4	<0.25	1.1	0.549	0	24	<0.082	<0.082	†	12	12	<0.10	0.28	0.126
WKR1	11	17	<0.11	0.836	†	26	2	<0.25	0.96	0.516	1	27	<0.082	0.13	†	9	18	<0.1	0.26	†
KYS1	16	4	<0.11	1.152	0.444	20	0	0.25	1.7	0.676	1	9	<0.082	0.107	†	2	17	<0.1	0.11	†
<b>Tomaes Bay Sites</b>																				
TB2	1	23	<0.11	0.294	†	16	8	<0.25	1.2	0.449	0	24	<0.082	<0.082	†	8	15	<0.1	0.31	†
TB4	1	23	<0.11	0.384	†	16	8	<0.25	1.2	0.408	0	24	<0.082	<0.082	†	5	18	<0.1	0.15	†
TB11	1	26	<0.11	0.452	†	20	7	<0.25	0.99	0.398	0	27	<0.082	<0.082	†	9	17	<0.1	0.29	†
LAG6	7	14	<0.11	0.339	†	17	4	<0.25	2.4	0.622	1	20	<0.082	0.559	†	6	15	<0.1	0.49	†

\*Millerton Gulch sampling site was moved upstream during this water year to eliminate tidal influence.  
 MC1A refers to sampling site at Shoreline Hwy bridge, MC1 is upstream site.  
 † Censored data (<QL: \*non-detects) handled by Kaplan Meier Method which cannot estimate a mean if more than 50% of data is censored.

**Table C6– WY09 Nutrient Parameter Results for Trends Monitoring by Station**

Site Name	Nitrate as N (mg/L)					Total Kjeldahl Nitrogen (mg/L)					Ammonia as N (mg/L)					Total Phosphorus (mg/L)				
	# of detections	# of non-detects†	Min.	Max.	Mean	# of detections	# of non-detects†	Min.	Max.	Mean	# of detections	# of non-detects†	Min.	Max.	Mean	# of detections	# of non-detects†	Min.	Max.	Mean
<b>Lagunitas Creek</b>																				
SG1	30	2	<0.11	1.626	0.642	27	6	<0.25	5.3	1.004	0	0	<0.082	<0.493	†	3	30	<0.05	<0.10	†
LAGSPT	15	18	<0.11	0.772	†	22	11	<0.25	5.9	0.939	0	33	<0.082	<0.493	†	1	32	<0.05	<0.1	†
OLM11	16	17	<0.11	1.062	†	23	10	<0.25	5.3	0.908	0	33	<0.082	<0.493	†	5	28	<0.05	0.13	†
LAG1	11	22	<0.11	0.858	†	21	12	<0.25	5.3	0.979	0	33	<0.082	<0.082	†	1	32	<0.05	<0.10	†
<b>West Shore</b>																				
FV1	24	9	<0.11	1.468	0.302	24	9	<0.25	6.7	1.073	0	33	<0.082	<0.082	†	2	31	<0.05	<0.10	†
WG1	4	5	<0.11	2.485	†	9	0	0.33	15	2.633	0	9	<0.082	<0.493	†	2	7	<0.05	0.11	†
<b>East Shore</b>																				
MC1	9	10	<0.11	1.649	†	16	3	0.3	5.9	1.659	0	19	<0.082	<0.493	†	3	16	<0.05	<0.10	†
MP36.17	5	28	<0.11	0.429	†	29	4	<0.25	7.6	1.093	0	33	<0.082	<0.493	†	1	32	<0.05	<0.1	†
<b>Walker Creek</b>																				
WKR2	27	6	<0.11	5.873	0.396	30	3	0.37	6.7	1.165	0	33	<0.082	<0.493	†	10	23	<0.05	0.19	†
WKR1	6	27	<0.11	1.062	†	31	2	0.3	4.2	1.078	0	33	<0.082	<0.493	†	11	22	<0.05	0.11	†
KYS1	15	1	<0.11	2.937	0.561	15	0	0.61	9	2.542	0	15	<0.082	<0.082	†	6	9	<0.05	0.22	†
<b>Tomaes Bay Sites</b>																				
TB2	0	13	<0.11	<1.1	†	10	3	<0.25	1.4	0.51	1	12	<0.082	<0.493	†	1	12	<0.05	<0.10	†
TB4	0	13	<0.11	<1.1	†	9	4	<0.25	1.7	0.565	0	13	<0.082	<0.493	†	1	12	<0.05	<0.1	†
TB11	2	18	<0.11	1.401	†	18	2	<0.25	4.2	0.891	0	20	<0.082	<0.493	†	2	18	<0.05	0.11	†
LAG6	5	23	<0.11	<1.1	†	24	4	0.28	8.4	1.41	1	27	<0.1	<0.6	†	10	18	<0.05	0.12	†

† Censored data (<QL: \*non-detects) handled by Kaplan Meier Method which cannot estimate a mean if more than 50% of data is censored.

**Table C7 – WY08 Bacteria Parameter Results for Trends Monitoring by Station**

Site Name	Total Coliform Bacteria (MPN/100mL)						Fecal Coliform Bacteria (MPN/100mL)					
	# of samples	# Non-Detect samples	# samples >QL*	Min.	Max.	Geo. Mean	# of samples	# Non-Detect samples	# samples >QL*	Min.	Max.	Geo. Mean
<b>Lagunitas Creek</b>												
SG1	27	0	1	340	<17,600	2,212	27	0	2	110	<17,600	932.7
LAGSPT	27	0	1	130	13,000	785.6	27	0	1	40	2,400	330.5
OLM11	27	0	1	140	13,000	1,529	27	0	0	130	13,000	616.8
LAG1	27	0	1	130	3,000	962.1	27	0	0	80	5,000	519.3
<b>West Shore</b>												
FV1	27	0	1	20	13,000	990.5	27	1	1	<10	13,000	303.7
WG1	19	0	1	140	50,000	1,329	19	2	1	<10	50,000	251.4
<b>East Shore</b>												
MC1	5	0	0	130	500	201.3	5	1	0	<10	500	90.03
MC1A**	16	4	2	<10	90,000	526.8	16	4	1	<10	90,000	352.5
MP36.17	26	1	0	<10	9,000	641.2	26	5	0	<10	2,400	193.8
<b>Walker Creek</b>												
WKR2	24	0	0	300	16,000	1272	24	0	0	40	16,000	458.5
WKR1	27	1	2	<1	<17,600	627.1	27	1	1	<1	<17,600	221.7
KYS1	19	0	3	20	<176,000	2,164	19	2	1	<10	160,000	690
<b>Tomales Bay Sites</b>												
TB2	23	9	1	<1	<1,760	6.18	23	12	1	<1	<1,760	3.868
TB4	23	14	1	<1	<1,760	3.809	23	15	1	<1	<1,760	2.92
TB11	26	6	1	<1	8,000	21.78	25	9	1	<1	<1,760	7.095
LAG6	21	0	0	37	9,000	225.2	21	3	0	4	2,400	70.5
*Censored Data handled by substitution:												
(Present>QL=1.1*Upper Quantification Limit; *Non-Detect=0.5*Lower Quantification Limit;)												
**Millerton Gulch sampling site was moved upstream during this water year to eliminate tidal influence.												
MC1A refers to sampling site at Shoreline Hwy bridge, MC1 is upstream site.												

**Table C8 – WY09 Bacteria Parameter Results for Trends Monitoring by Station**

Site Name	Total Coliform Bacteria (MPN/100mL)						Fecal Coliform Bacteria (MPN/100mL)					
	# of samples	# Non-Detect samples	# samples >QL*	Min.	Max.	Geo. Mean	# of samples	# Non-Detect samples	# samples >QL*	Min.	Max.	Geo. Mean
<b>Lagunitas Creek</b>												
SG1	17	0	0	220	16,000	2,087	33	0	0	20	7,600	337.2
LAGSPT	17	0	0	110	2,800	608.8	33	0	0	5	4,000	87.64
OLM11	17	0	0	370	16,000	2,617	33	0	0	24	12,000	318
LAG1	17	0	0	130	5,000	894.4	33	0	0	14	800	137
<b>West Shore</b>												
FV1	16	0	1	1700	<17,600	4,546	32	0	0	20	2,400	215.6
WG1	4	0	1	5000	<17,600	8,471	9	0	0	2	16,000	121.2
<b>East Shore</b>												
MC1	3	0	0	20	2,900	237.2	19	1	0	5	4,000	52.64
MP36.17	17	0	0	180	16,000	1462	33	3	0	<1	2,400	46.29
<b>Walker Creek</b>												
WKR2	17	0	0	270	3,000	826.9	33	0	0	8	12,000	217
WKR1	17	0	0	40	5,000	404.7	33	2	0	<10	2,400	107
KYS1	5	0	2	500	<17,600	4,484	16	0	1	7	16,000	236
<b>Tomales Bay Sites</b>												
TB2	10	4	0	<1	1,600	7.035	13	6	0	<1	26	3.941
TB4	10	7	0	<1	37	1.767	13	10	0	<1	2	1.173
TB11	12	6	0	<1	27	3.024	20	7	0	<1	400	3.849
LAG6	13	2	0	<10	1,300	211.7	28	2	0	4	800	45.78

\*Censored Data handled by substitution:

(Present>QL=1.1\*Upper Quantification Limit; \*Non-Detect=0.5\*Lower Quantification Limit;)

**Table C9 – WY08 Sediment Parameter Results for Trends Monitoring by Station**

Site Name	Turbidity (NTU)					Total Suspended Solids (TSS) (mg/L)				
	# of detections†	# samples <QL	Min.	Max.	Mean	# of detections†	# samples <QL	Min.	Max.	Mean
<b>Lagunitas Creek</b>										
SG1	15	11	<0.5	10	1.827	2	21	<5	18	†
LAGSPT	21	5	<0.5	9	2.053	1	22	<5	5	†
OLM11	21	4	<0.5	16	2.773	3	20	<5	30	†
LAG1	26	0	0.6	36	6.454	4	19	<5	22	†
<b>West Shore</b>										
FV1	26	0	0.53	2.6	1.117	8	15	<5	33	†
WG1	18	0	1.1	20	6.139	1	14	<5	31	†
<b>East Shore</b>										
MC1	4	1	<0.5	1.1	0.728	0	5	<5	<5	†
MC1A*	15	0	1.2	21	6.667	6	6	<5	9.3	5.967
MP36.17	26	0	0.94	27	6.373	3	20	<5	12	†
<b>Walker Creek</b>										
WKR2	24	0	1.2	32	10.24	3	20	<5	29	†
WKR1	26	0	1	40	8.104	11	12	<5	73	†
KYS1	19	0	0.62	15	6.127	2	14	<5	5.3	†
<b>Tomales Bay Sites</b>										
TB2	23	0	0.76	11	2.397	1	1	<5	6	6
TB4	23	0	0.7	11	2.427	0	2	<5	<5	†
TB11	25	0	0.58	22	4.244	1	1	<5	5.7	†
LAG6	21	0	2.3	38	14.9	16	3	5.3	490	41.76

\*Millerton Gulch sampling site was moved upstream during this water year to eliminate tidal influence.

MC1A refers to sampling site at Shoreline Hwy bridge, MC1 is upstream site.

† Censored data (<QL) handled by exclusion.

**Table C10 – WY09 Sediment Parameter Results for Trends Monitoring by Station**

Site Name	Turbidity (NTU)					Total Suspended Solids (TSS) (mg/L)				
	# of detections†	# samples <QL	Min.	Max.	Mean	# of detections†	# samples <QL	Min.	Max.	Mean
<b>Lagunitas Creek</b>										
SG1	20	10	0.25	24.4	2.991	1	12	<5	<10	†
LAGSPT	24	6	0.38	25.7	3.08	0	13	<5	<10	†
OLM11	26	4	<0.5	142	9.355	0	13	<5	<10	†
LAG1	22	7	0.43	28.5	3.482	3	10	<5	<10	†
<b>West Shore</b>										
FV1	28	2	<0.5	8.95	1.958	0	13	<5	<10	†
WG1	7	1	<0.5	295	45.81	0	4	<5	<5	†
<b>East Shore</b>										
MC1	11	6	0.18	33.6	4.832	0	5	<5	<10	†
MP36.17	30	0	0.75	35.1	4.688	0	13	<5	<10	†
<b>Walker Creek</b>										
WKR2	30	0	0.87	267	17.74	0	13	<5	<10	†
WKR1	29	0	1.5	96.9	8.035	8	5	<5	22	10.68
KYS1	14	0	2.07	66.7	11.9	0	7	<5	<10	†
<b>Tomales Bay Sites</b>										
TB2	12	0	0.74	3.35	1.594	0	1	<5	<5	†
TB4	12	0	0.53	3.17	1.37	0	1	<5	<5	†
TB11	17	0	0.53	13.5	3.096	0	4	<5	<5	†
LAG6	24	0	0.8	30.8	8.74	9	0	9.7	43	18.3

† Censored data (<QL) handled by exclusion.

## Legacy Water Quality Datasets in TBWC WQ Database

<u>Source</u>	<u>Project</u>	<u>Time Period</u>	<u>Stations</u>	<u>Sampling Area</u>	<u>Parameters</u>
Marin County EHS	Recreational Use (Beach Program)	2003-2010	25 Sites at Recreation Sites in TB watershed, and Bolinas/Stinson Beaches; NOT all sites sampled every year	Shore and Tributary recreation sites in TB watershed	E. coli; Fecal coliform; Total coliform; Enterococcus
CA Dept. of Fish & Game	MSCARII (Marin and Sonoma County Agricultural Runoff Influence Investigation)	1991-2002	21 Sites, mostly downstream tributary sites on South and Eash Shore of Tomales Bay	Mostly bottom of tributaries to TB (Lagunitas Creek and East Shore)	pH; Temp; DO; Conductivity; NH3 total; HN3 toxic; Turbidity; BOD; Notes
MMWD		1995-2002	Nicasio Crk.; Lag@ Nicasio; Soulajule Crk.; San Geronimo; Lag @ Kent (Shafter Bridge)	Upper LAG and Nicasio watershed	pH; Tem; Turbidity; Alkalinity; Hardness; Copper; TSS; Settleable solids

NPS	TMDL and I&M and NOAA Fisheries BO	?1995-Present	8 Olema WS sites; 2-3 Lagunitas Sites	Olema Creek mainstem and tributary sites (6 TMDL; 2 NOAA Fisheries BO) ; 2-3 Lagunitas tributary sites (Cheda and Devil's Gulch)	Field (pH; Cond; Salinity; Temp); TC/FC and E.coli; Nutrient & sediment data for I&M prog
TB Shellfish TAC	Investigation of Nonpoint Pollution Sources Impacting Shellfish Growing Areas in TB	1995-1996	41 Stations in watershed and Tomales Bay	Mostly Shoreline Tribs and Bay Sites	Fecal Coliform; Total Coliform; E. Coli and Enterococcus
SFRWQCB	Pathogen TMDL	<b>Trib Sites:</b> 5-week series Winter and Summer from Jan '04-March '11 (no Summer '07); <b>Bay Sites:</b> 5-week series 1/04; 6/06; 1/07/ 7-8/08; 1/09	24 Trib Sites; 7 bay sites	11 sites in San Geronimo and Lagunitas (see SPAWN); 6 sites in Olema (see NPS); 4 sites in Walker/Keys; 3 W. shore tribs; 2 E. shore tribs	Fecal Coliform; (Some NPS data also has Total Coliform and E. coli

SFRWQCB	Pathogen TMDL	<b>Trib Sites:</b> Monthly (1st Tues): 1-6/04; 1-4/05; 8-9 & 11-12/05; 1-12/06 (NO AUG.); 1-4/07; 8,10,12/08; 1-12/09 (NO Aug or Oct); 1-6/10; 3-5/11	24 trib sites	11 sites in San Geronimo and Lagunitas (see SPAWN); 6 sites in Olema (see NPS); 4 sites in Walker/Keys; 3 W. shore tribs; 2 E. shore tribs	Fecal Coliform; (Some NPS data also has Total Coliform and E. coli)
SPAWN	Pathogen TMDL and SPAWN monitoring sites	7/2000-3/2002	7 TMDL sites in SG watershed (E.& W. Forks + mainstem Woodacre creek; Upstream and downstream on San Geronimo Crk.; Arroyo & Montezuma Crks; Lag. At Tocaloma); Some spot data from Lag. d/s of Kent; Devil's Gulch; and Park St. in Woodacre	San Geronimo Watershed and Mid-Lagunitas Creek watershed	Most data is Fecal Coliform; Some monitoring has Ammonia; TKN; NO3, NO2; Ortho Phosphate; Total Phosphorus; MBAS; Chlorophyll; pH; water temp.; DO; SC & Salinity
TBWC	Trends	12/2007-Present	11 Tributary Sites and 4 Bay Sites	TB Watershed	Temp; pH; Specific Conductance; Salinity; DO; Total Coliform; Fecal Coliform; NO3; TKN; NH3; Total Phosphorus; Turbidity; Discharge

TBWC	Source Area	12/07-Present	multiple in each tributary	Heart's Desire; San Geronimo Crk; Keyes Creek; Tomasini Creek; 3rd Valley Creek	Temp; pH; Specific Conductance; Salinity; DO; Discharge. <b>Lab parameters</b> depend on tributary but may include: Total Coliform; Fecal Coliform; E. coli; NO3; TKN; NH3; Total Phosphorus; Turbidity; TSS; VOC's; Oil/Grease; Metals.
TBWC	Stormwater (Prop 50 I)	2006-2008	13 sites in Woodacre stormwater system; 3 Woodacre Crk. and SG Crk. sites; 10 sites in PR stormwater system, 1 site each in Lag and Tomasini Crk.s; 4 sites in Tomales stormwater system	Woodacre, Tomales and Pt. Reyes Stn. Stormwater systems;	Temp; pH; Conductivity; DO; Total Coliform; Fecal Coliform; E. coli; NO3; TKN; NH3; Total Phosphorus; Turbidity; TSS; Discharge; VOC's; Metals;