

# VENTURA COUNTY



PUBLIC WORKS AGENCY  
JEFF PRATT, P.E.  
Agency Director

## WATERSHED PROTECTION DISTRICT

August 29, 2011

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

**Sergio Vargas**  
Planning/Regulatory

**Karl Novak, P.E.**  
Operations/Maintenance

Subject: **REVISED AUGUST REPORT (JULY RESULTS) FOR MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of July 2011. Sites were sampled weekly on Tuesdays (July 5, 12, and 19), except for once when sites were sampled on Wednesday (July 27) due to staffing conflicts. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with greater than 0.1" of rain within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Norma Camacho, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles

**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)		
				E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	-	7/5/2011 ♦	Dry	Dry		Dry
MCW-8b	-	7/12/2011 ♦	Dry	Dry		Dry
MCW-8b	-	7/19/2011 ♦	Dry	Dry		Dry
MCW-8b	-	7/27/2011 ♦	Dry	Dry		Dry
MCW-9	-	7/5/2011 ♦	Dry	Dry		Dry
MCW-9	-	7/12/2011 ♦	Dry	Dry		Dry
MCW-9	-	7/19/2011 ♦	Dry	Dry		Dry
MCW-9	-	7/27/2011 ♦	Dry	Dry		Dry
MCW-12	910	7/5/2011 ♦	=	130	=	1,100
MCW-12	925	7/12/2011 ♦	=	110	=	400
MCW-12	915	7/19/2011 ♦	=	20	=	90
MCW-12	925	7/27/2011 ♦	=	170	=	1,700
MCW-14b	850	7/5/2011 ♦	=	1,300	=	2,400
MCW-14b	855	7/12/2011 ♦	=	500	=	500
MCW-14b	840	7/19/2011 ♦	=	800	=	1,300
MCW-14b	846	7/27/2011 ♦	=	140	=	500
MCW-15c	820	7/5/2011 ♦	=	500	=	1,300
MCW-15c	830	7/12/2011 ♦	=	20	=	140
MCW-15c	815	7/19/2011 ♦	=	60	=	1,300
MCW-15c	800	7/27/2011 ♦	=	1,100	=	1,700
MCW-17	755	7/5/2011 ♦	=	230	=	230
MCW-17	800	7/12/2011 ♦	=	500	=	500
MCW-17	-	7/19/2011 ♦	Dry	Dry		Dry
MCW-17	-	7/27/2011 ♦	Dry	Dry		Dry
MCW-18	-	7/5/2011 ♦	Dry	Dry		Dry
MCW-18	-	7/12/2011 ♦	Dry	Dry		Dry
MCW-18	-	7/19/2011 ♦	Dry	Dry		Dry
MCW-18	-	7/27/2011 ♦	Dry	Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli (235 MPN)	Fecal (400 MPN)		E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	-	7/1/2011	Dry	< 10	< 10		67	86
MCW-8b	-	7/2/2011	Dry	< 10	< 10		62	77
MCW-8b	-	7/3/2011	Dry	< 10	< 10		57	69
MCW-8b	-	7/4/2011	Dry	< 10	< 10		52	62
MCW-8b	-	7/5/2011 ♦	Dry	< 10	< 10		48	55
MCW-8b	-	7/6/2011	Dry	< 10	< 10		44	49
MCW-8b	-	7/7/2011	Dry	< 10	< 10		38	43
MCW-8b	-	7/8/2011	Dry	< 10	< 10		33	37
MCW-8b	-	7/9/2011	Dry	< 10	< 10		29	32
MCW-8b	-	7/10/2011	Dry	< 10	< 10		25	28
MCW-8b	-	7/11/2011	Dry	< 10	< 10		22	24
MCW-8b	-	7/12/2011 ♦	Dry	< 10	< 10		19	21
MCW-8b	-	7/13/2011	Dry	< 10	< 10		16	18
MCW-8b	-	7/14/2011	Dry	< 10	< 10		15	17
MCW-8b	-	7/15/2011	Dry	< 10	< 10		14	15
MCW-8b	-	7/16/2011	Dry	< 10	< 10		13	14
MCW-8b	-	7/17/2011	Dry	< 10	< 10		12	13
MCW-8b	-	7/18/2011	Dry	< 10	< 10		11	12
MCW-8b	-	7/19/2011 ♦	Dry	< 10	< 10		11	11
MCW-8b	-	7/20/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/21/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/22/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/23/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/24/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/25/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/26/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/27/2011 ♦	Dry	< 10	< 10		10	10
MCW-8b	-	7/28/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/29/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/30/2011	Dry	< 10	< 10		10	10
MCW-8b	-	7/31/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/1/2011	Dry	< 10	< 10		10	12
MCW-9	-	7/2/2011	Dry	< 10	< 10		10	11
MCW-9	-	7/3/2011	Dry	< 10	< 10		10	11
MCW-9	-	7/4/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/5/2011 ♦	Dry	< 10	< 10		10	10
MCW-9	-	7/6/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/7/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/8/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/9/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/10/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/11/2011	Dry	< 10	< 10		10	10
MCW-9	-	7/12/2011 ♦	Dry	< 10	< 10		10	10
MCW-9	-	7/13/2011	Dry	< 10	< 10		10	10

MCW-9	-	7/14/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/15/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/16/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/17/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/18/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/19/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	7/20/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/21/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/22/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/23/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/24/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/25/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/26/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	7/28/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/29/2011	Dry	<	10	<	10	10	10
MCW-9	-	7/30/2011	Dry	<	10	<	10	10	10
		7/31/2011							
MCW-12	915	7/1/2011		=	60	=	1,700	46	81
MCW-12	915	7/2/2011		=	60	=	1,700	47	90
MCW-12	915	7/3/2011		=	60	=	1,700	48	100
MCW-12	915	7/4/2011		=	60	=	1,700	48	110
MCW-12	910	7/5/2011 ♦		=	130	=	1,100	50	121
MCW-12	910	7/6/2011		=	130	=	1,100	52	132
MCW-12	910	7/7/2011		=	130	=	1,100	54	147
MCW-12	910	7/8/2011		=	130	=	1,100	57	164
MCW-12	910	7/9/2011		=	130	=	1,100	59	183
MCW-12	910	7/10/2011		=	130	=	1,100	61	205
MCW-12	910	7/11/2011		=	130	=	1,100	64	229
MCW-12	925	7/12/2011 ♦		=	110	=	400	66	247
MCW-12	925	7/13/2011		=	110	=	400	68	266
MCW-12	925	7/14/2011		=	110	=	400	68	277
MCW-12	925	7/15/2011		=	110	=	400	68	289
MCW-12	925	7/16/2011		=	110	=	400	67	301
MCW-12	925	7/17/2011		=	110	=	400	67	313
MCW-12	925	7/18/2011		=	110	=	400	67	326
MCW-12	915	7/19/2011 ♦		=	20	=	90	63	323
MCW-12	915	7/20/2011		=	20	=	90	60	319
MCW-12	915	7/21/2011		=	20	=	90	60	336
MCW-12	915	7/22/2011		=	20	=	90	60	353
MCW-12	915	7/23/2011		=	20	=	90	60	371
MCW-12	915	7/24/2011		=	20	=	90	60	390
MCW-12	915	7/25/2011		=	20	=	90	60	410
MCW-12	915	7/26/2011		=	20	=	90	60	432
MCW-12	925	7/27/2011 ♦		=	170	=	1,700	64	500
MCW-12	925	7/28/2011		=	170	=	1,700	66	500
MCW-12	925	7/29/2011		=	170	=	1,700	69	500
MCW-12	925	7/30/2011		=	170	=	1,700	71	500
MCW-12	925	7/31/2011		=	170	=	1,700	73	500

MCW-14b	850	7/1/2011		=	230	=	500	804	961
MCW-14b	850	7/2/2011		=	230	=	500	806	975
MCW-14b	850	7/3/2011		=	230	=	500	809	988
MCW-14b	850	7/4/2011		=	230	=	500	811	1,002
MCW-14b	850	7/5/2011 ♦		=	1,300	=	2,400	862	1,071
MCW-14b	850	7/6/2011		=	1,300	=	2,400	916	1,144
MCW-14b	850	7/7/2011		=	1,300	=	2,400	914	1,165
MCW-14b	850	7/8/2011		=	1,300	=	2,400	912	1,186
MCW-14b	850	7/9/2011		=	1,300	=	2,400	909	1,207
MCW-14b	850	7/10/2011		=	1,300	=	2,400	907	1,229
MCW-14b	850	7/11/2011		=	1,300	=	2,400	905	1,252
MCW-14b	855	7/12/2011 ♦		=	500	=	500	874	1,209
MCW-14b	855	7/13/2011		=	500	=	500	845	1,169
MCW-14b	855	7/14/2011		=	500	=	500	767	1,061
MCW-14b	855	7/15/2011		=	500	=	500	697	964
MCW-14b	855	7/16/2011		=	500	=	500	633	875
MCW-14b	855	7/17/2011		=	500	=	500	575	795
MCW-14b	855	7/18/2011		=	500	=	500	522	722
MCW-14b	840	7/19/2011 ♦		=	800	=	1,300	481	677
MCW-14b	840	7/20/2011		=	800	=	1,300	444	634
MCW-14b	840	7/21/2011		=	800	=	1,300	464	673
MCW-14b	840	7/22/2011		=	800	=	1,300	484	714
MCW-14b	840	7/23/2011		=	800	=	1,300	505	758
MCW-14b	840	7/24/2011		=	800	=	1,300	528	804
MCW-14b	840	7/25/2011		=	800	=	1,300	551	853
MCW-14b	840	7/26/2011		=	800	=	1,300	575	905
MCW-14b	846	7/27/2011 ♦		=	140	=	500	566	930
MCW-14b	846	7/28/2011		=	140	=	500	557	930
MCW-14b	846	7/29/2011		=	140	=	500	548	930
MCW-14b	846	7/30/2011		=	140	=	500	539	930
MCW-14b	846	7/31/2011		=	140	=	500	530	930
MCW-15c	825	7/1/2011		=	3,000	=	3,000	222	313
MCW-15c	825	7/2/2011		=	3,000	=	3,000	251	338
MCW-15c	825	7/3/2011		=	3,000	=	3,000	285	365
MCW-15c	825	7/4/2011		=	3,000	=	3,000	323	394
MCW-15c	820	7/5/2011 ♦		=	500	=	1,300	345	414
MCW-15c	820	7/6/2011		=	500	=	1,300	368	434
MCW-15c	820	7/7/2011		=	500	=	1,300	382	465
MCW-15c	820	7/8/2011		=	500	=	1,300	396	497
MCW-15c	820	7/9/2011		=	500	=	1,300	410	532
MCW-15c	820	7/10/2011		=	500	=	1,300	425	570
MCW-15c	820	7/11/2011		=	500	=	1,300	441	610
MCW-15c	830	7/12/2011 ♦		=	20	=	140	410	606
MCW-15c	830	7/13/2011		=	20	=	140	382	602
MCW-15c	830	7/14/2011		=	20	=	140	361	598
MCW-15c	830	7/15/2011		=	20	=	140	341	594
MCW-15c	830	7/16/2011		=	20	=	140	322	590
MCW-15c	830	7/17/2011		=	20	=	140	304	586
MCW-15c	830	7/18/2011		=	20	=	140	288	583

MCW-15c	815	7/19/2011 ♦		=	60	=	1,300	282	623
MCW-15c	815	7/20/2011		=	60	=	1,300	276	667
MCW-15c	815	7/21/2011		=	60	=	1,300	262	701
MCW-15c	815	7/22/2011		=	60	=	1,300	248	736
MCW-15c	815	7/23/2011		=	60	=	1,300	235	773
MCW-15c	815	7/24/2011		=	60	=	1,300	223	811
MCW-15c	815	7/25/2011		=	60	=	1,300	211	852
MCW-15c	815	7/26/2011		=	60	=	1,300	200	895
MCW-15c	800	7/27/2011 ♦		=	1,100	=	1,700	209	948
MCW-15c	800	7/28/2011		=	1,100	=	1,700	202	930
MCW-15c	800	7/29/2011		=	1,100	=	1,700	196	913
MCW-15c	800	7/30/2011		=	1,100	=	1,700	189	896
MCW-15c	800	7/31/2011		=	1,100	=	1,700	183	879
MCW-17	800	7/1/2011		=	40	=	80	36	54
MCW-17	800	7/2/2011		=	40	=	80	37	53
MCW-17	800	7/3/2011		=	40	=	80	38	52
MCW-17	800	7/4/2011		=	40	=	80	39	52
MCW-17	755	7/5/2011 ♦		=	230	=	230	42	53
MCW-17	755	7/6/2011		=	230	=	230	46	54
MCW-17	755	7/7/2011		=	230	=	230	46	54
MCW-17	755	7/8/2011		=	230	=	230	47	55
MCW-17	755	7/9/2011		=	230	=	230	47	55
MCW-17	755	7/10/2011		=	230	=	230	47	56
MCW-17	755	7/11/2011		=	230	=	230	48	56
MCW-17	800	7/12/2011 ♦		=	500	=	500	50	58
MCW-17	800	7/13/2011		=	500	=	500	52	61
MCW-17	800	7/14/2011		=	500	=	500	57	67
MCW-17	800	7/15/2011		=	500	=	500	64	75
MCW-17	800	7/16/2011		=	500	=	500	71	84
MCW-17	800	7/17/2011		=	500	=	500	79	93
MCW-17	800	7/18/2011		=	500	=	500	88	104
MCW-17	-	7/19/2011 ♦	Dry	<	10	<	10	86	101
MCW-17	-	7/20/2011	Dry	<	10	<	10	84	99
MCW-17	-	7/21/2011	Dry	<	10	<	10	82	97
MCW-17	-	7/22/2011	Dry	<	10	<	10	80	94
MCW-17	-	7/23/2011	Dry	<	10	<	10	78	92
MCW-17	-	7/24/2011	Dry	<	10	<	10	77	90
MCW-17	-	7/25/2011	Dry	<	10	<	10	75	88
MCW-17	-	7/26/2011	Dry	<	10	<	10	73	86
MCW-17	-	7/27/2011 ♦	Dry	<	10	<	10	72	84
MCW-17	-	7/28/2011	Dry	<	10	<	10	68	78
MCW-17	-	7/29/2011	Dry	<	10	<	10	65	73
MCW-17	-	7/30/2011	Dry	<	10	<	10	62	68
MCW-17	-	7/31/2011	Dry	<	10	<	10	59	64
MCW-18	-	7/1/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/2/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/3/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/4/2011	Dry	<	10	<	10	10	10



MCW-18	-	7/5/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	7/6/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/7/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/8/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/9/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/10/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/11/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/12/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	7/13/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/14/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/15/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/16/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/17/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/18/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/19/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	7/20/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/21/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/22/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/23/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/24/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/25/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/26/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	7/28/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/29/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/30/2011	Dry	<	10	<	10	10	10
MCW-18	-	7/31/2011	Dry	<	10	<	10	10	10

Notes:

Weeks with rain >0.1" within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

# VENTURA COUNTY



**PUBLIC WORKS AGENCY**  
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Agency Director

## WATERSHED PROTECTION DISTRICT

September 22, 2011

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Los Angeles, CA 90013  
(213) 576-6780

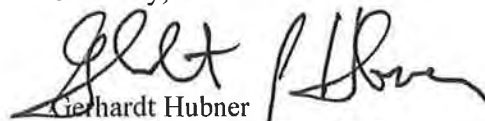
**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of August 2011. Sites were sampled weekly on Tuesdays (August 2, 9, 16, 23, and 30). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with greater than 0.1" of rain within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

  
Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Norma Camacho, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles



**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)		
				E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	-	8/2/2011 ♦	Dry	Dry		Dry
MCW-8b	-	8/9/2011 ♦	Dry	Dry		Dry
MCW-8b	-	8/16/2011 ♦	Dry	Dry		Dry
MCW-8b	-	8/23/2011 ♦	Dry	Dry		Dry
MCW-8b	-	8/30/2011 ♦	Dry	Dry		Dry
MCW-9	-	8/2/2011 ♦	Dry	Dry		Dry
MCW-9	-	8/9/2011 ♦	Dry	Dry		Dry
MCW-9	-	8/16/2011 ♦	Dry	Dry		Dry
MCW-9	-	8/23/2011 ♦	Dry	Dry		Dry
MCW-9	-	8/30/2011 ♦	Dry	Dry		Dry
MCW-12	930	8/2/2011 ♦	=	1,100	=	1,100
MCW-12	935	8/9/2011 ♦	=	170	=	3,000
MCW-12	925	8/16/2011 ♦	=	1,300	=	9,000
MCW-12	940	8/23/2011 ♦	=	300	=	300
MCW-12	955	8/30/2011 ♦	=	40	=	90
MCW-14b	900	8/2/2011 ♦	=	220	=	500
MCW-14b	845	8/9/2011 ♦	=	1,100	=	1,100
MCW-14b	845	8/16/2011 ♦	=	300	=	700
MCW-14b	840	8/23/2011 ♦	=	500	=	500
MCW-14b	930	8/30/2011 ♦	=	140	=	170
MCW-15c	835	8/2/2011 ♦	=	500	=	800
MCW-15c	820	8/9/2011 ♦	=	260	=	340
MCW-15c	820	8/16/2011 ♦	=	300	=	5,000
MCW-15c	810	8/23/2011 ♦	=	800	=	1,100
MCW-15c	900	8/30/2011 ♦	=	110	=	500
MCW-17	-	8/2/2011 ♦	Dry	Dry		Dry
MCW-17	-	8/9/2011 ♦	Dry	Dry		Dry
MCW-17	-	8/16/2011 ♦	Dry	Dry		Dry
MCW-17	-	8/23/2011 ♦	Dry	Dry		Dry
MCW-17	-	8/30/2011 ♦	Dry	Dry		Dry
MCW-18	-	8/2/2011 ♦	Dry	Dry		Dry
MCW-18	-	8/9/2011 ♦	Dry	Dry		Dry
MCW-18	-	8/16/2011 ♦	Dry	Dry		Dry
MCW-18	-	8/23/2011 ♦	Dry	Dry		Dry
MCW-18	-	8/30/2011 ♦	Dry	Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli		Fecal	E. coli	Fecal
				(235 MPN)		(400 MPN)	(126 MPN)	(200 MPN)
MCW-8b	-	8/1/2011	Dry	<	10	<	10	10
MCW-8b	-	8/2/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	8/3/2011	Dry	<	10	<	10	10
MCW-8b	-	8/4/2011	Dry	<	10	<	10	10
MCW-8b	-	8/5/2011	Dry	<	10	<	10	10
MCW-8b	-	8/6/2011	Dry	<	10	<	10	10
MCW-8b	-	8/7/2011	Dry	<	10	<	10	10
MCW-8b	-	8/8/2011	Dry	<	10	<	10	10
MCW-8b	-	8/9/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	8/10/2011	Dry	<	10	<	10	10
MCW-8b	-	8/11/2011	Dry	<	10	<	10	10
MCW-8b	-	8/12/2011	Dry	<	10	<	10	10
MCW-8b	-	8/13/2011	Dry	<	10	<	10	10
MCW-8b	-	8/14/2011	Dry	<	10	<	10	10
MCW-8b	-	8/15/2011	Dry	<	10	<	10	10
MCW-8b	-	8/16/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	8/17/2011	Dry	<	10	<	10	10
MCW-8b	-	8/18/2011	Dry	<	10	<	10	10
MCW-8b	-	8/19/2011	Dry	<	10	<	10	10
MCW-8b	-	8/20/2011	Dry	<	10	<	10	10
MCW-8b	-	8/21/2011	Dry	<	10	<	10	10
MCW-8b	-	8/22/2011	Dry	<	10	<	10	10
MCW-8b	-	8/23/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	8/24/2011	Dry	<	10	<	10	10
MCW-8b	-	8/25/2011	Dry	<	10	<	10	10
MCW-8b	-	8/26/2011	Dry	<	10	<	10	10
MCW-8b	-	8/27/2011	Dry	<	10	<	10	10
MCW-8b	-	8/28/2011	Dry	<	10	<	10	10
MCW-8b	-	8/29/2011	Dry	<	10	<	10	10
MCW-8b	-	8/30/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	8/31/2011	Dry	<	10	<	10	10
MCW-9	-	8/1/2011	Dry	<	10	<	10	10
MCW-9	-	8/2/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	8/3/2011	Dry	<	10	<	10	10
MCW-9	-	8/4/2011	Dry	<	10	<	10	10
MCW-9	-	8/5/2011	Dry	<	10	<	10	10
MCW-9	-	8/6/2011	Dry	<	10	<	10	10
MCW-9	-	8/7/2011	Dry	<	10	<	10	10
MCW-9	-	8/8/2011	Dry	<	10	<	10	10
MCW-9	-	8/9/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	8/10/2011	Dry	<	10	<	10	10
MCW-9	-	8/11/2011	Dry	<	10	<	10	10
MCW-9	-	8/12/2011	Dry	<	10	<	10	10
MCW-9	-	8/13/2011	Dry	<	10	<	10	10

MCW-9	-	8/14/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/15/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/16/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	8/17/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/18/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/19/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/20/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/21/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/22/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/23/2011 ♦	Dry	<	10	<	10	10	10
MCW-9		8/24/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/25/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/26/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/27/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/28/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/29/2011	Dry	<	10	<	10	10	10
MCW-9	-	8/30/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	8/31/2011	Dry	<	10	<	10	10	10
MCW-12	925	8/1/2011		=	170	=	1,700	76	500
MCW-12	930	8/2/2011 ♦		=	1,100	=	1,100	84	493
MCW-12	930	8/3/2011		=	1,100	=	1,100	92	486
MCW-12	930	8/4/2011		=	1,100	=	1,100	99	486
MCW-12	930	8/5/2011		=	1,100	=	1,100	106	486
MCW-12	930	8/6/2011		=	1,100	=	1,100	114	486
MCW-12	930	8/7/2011		=	1,100	=	1,100	123	486
MCW-12	930	8/8/2011		=	1,100	=	1,100	132	486
MCW-12	935	8/9/2011 ♦		=	170	=	3,000	133	503
MCW-12	935	8/10/2011		=	170	=	3,000	134	520
MCW-12	935	8/11/2011		=	170	=	3,000	136	556
MCW-12	935	8/12/2011		=	170	=	3,000	138	595
MCW-12	935	8/13/2011		=	170	=	3,000	140	636
MCW-12	935	8/14/2011		=	170	=	3,000	142	680
MCW-12	935	8/15/2011		=	170	=	3,000	144	727
MCW-12	925	8/16/2011 ♦		=	1,300	=	9,000	157	807
MCW-12	925	8/17/2011		=	1,300	=	9,000	170	895
MCW-12	925	8/18/2011		=	1,300	=	9,000	196	1,043
MCW-12	925	8/19/2011		=	1,300	=	9,000	225	1,217
MCW-12	925	8/20/2011		=	1,300	=	9,000	258	1,418
MCW-12	925	8/21/2011		=	1,300	=	9,000	297	1,654
MCW-12	925	8/22/2011		=	1,300	=	9,000	341	1,928
MCW-12	940	8/23/2011 ♦		=	300	=	300	373	2,007
MCW-12	940	8/24/2011		=	300	=	300	409	2,089
MCW-12	940	8/25/2011		=	300	=	300	447	2,175
MCW-12	940	8/26/2011		=	300	=	300	456	2,053
MCW-12	940	8/27/2011		=	300	=	300	464	1,937
MCW-12	940	8/28/2011		=	300	=	300	473	1,829
MCW-12	940	8/29/2011		=	300	=	300	482	1,726
MCW-12	955	8/30/2011 ♦		=	40	=	90	460	1,565
MCW-12	955	8/31/2011		=	40	=	90	438	1,419

MCW-14b	846	8/1/2011	=	140	=	500	521	930
MCW-14b	900	8/2/2011 ♦	=	220	=	500	521	930
MCW-14b	900	8/3/2011	=	220	=	500	520	930
MCW-14b	900	8/4/2011	=	220	=	500	490	883
MCW-14b	900	8/5/2011	=	220	=	500	462	838
MCW-14b	900	8/6/2011	=	220	=	500	435	795
MCW-14b	900	8/7/2011	=	220	=	500	410	755
MCW-14b	900	8/8/2011	=	220	=	500	387	716
MCW-14b	845	8/9/2011 ♦	=	1,100	=	1,100	384	698
MCW-14b	845	8/10/2011	=	1,100	=	1,100	382	680
MCW-14b	845	8/11/2011	=	1,100	=	1,100	393	698
MCW-14b	845	8/12/2011	=	1,100	=	1,100	403	717
MCW-14b	845	8/13/2011	=	1,100	=	1,100	414	736
MCW-14b	845	8/14/2011	=	1,100	=	1,100	425	755
MCW-14b	845	8/15/2011	=	1,100	=	1,100	436	775
MCW-14b	845	8/16/2011 ♦	=	300	=	700	429	784
MCW-14b	845	8/17/2011	=	300	=	700	421	793
MCW-14b	845	8/18/2011	=	300	=	700	408	777
MCW-14b	845	8/19/2011	=	300	=	700	395	761
MCW-14b	845	8/20/2011	=	300	=	700	382	745
MCW-14b	845	8/21/2011	=	300	=	700	370	730
MCW-14b	845	8/22/2011	=	300	=	700	358	715
MCW-14b	840	8/23/2011 ♦	=	500	=	500	352	693
MCW-14b	840	8/24/2011	=	500	=	500	347	671
MCW-14b	840	8/25/2011	=	500	=	500	341	650
MCW-14b	840	8/26/2011	=	500	=	500	356	650
MCW-14b	840	8/27/2011	=	500	=	500	372	650
MCW-14b	840	8/28/2011	=	500	=	500	388	650
MCW-14b	840	8/29/2011	=	500	=	500	405	650
MCW-14b	930	8/30/2011 ♦	=	140	=	170	405	627
MCW-14b	930	8/31/2011	=	140	=	170	405	605
MCW-15c	800	8/1/2011	=	1,100	=	1,700	177	862
MCW-15c	835	8/2/2011 ♦	=	500	=	800	167	825
MCW-15c	835	8/3/2011	=	500	=	800	157	790
MCW-15c	835	8/4/2011	=	500	=	800	157	777
MCW-15c	835	8/5/2011	=	500	=	800	157	764
MCW-15c	835	8/6/2011	=	500	=	800	157	752
MCW-15c	835	8/7/2011	=	500	=	800	157	740
MCW-15c	835	8/8/2011	=	500	=	800	157	728
MCW-15c	820	8/9/2011 ♦	=	260	=	340	154	696
MCW-15c	820	8/10/2011	=	260	=	340	150	666
MCW-15c	820	8/11/2011	=	260	=	340	164	686
MCW-15c	820	8/12/2011	=	260	=	340	178	706
MCW-15c	820	8/13/2011	=	260	=	340	194	728
MCW-15c	820	8/14/2011	=	260	=	340	211	749
MCW-15c	820	8/15/2011	=	260	=	340	230	772
MCW-15c	820	8/16/2011 ♦	=	300	=	5,000	252	870
MCW-15c	820	8/17/2011	=	300	=	5,000	276	980
MCW-15c	820	8/18/2011	=	300	=	5,000	291	1,025

MCW-15c	820	8/19/2011		=	300	=	5,000	307	1,072
MCW-15c	820	8/20/2011		=	300	=	5,000	324	1,121
MCW-15c	820	8/21/2011		=	300	=	5,000	342	1,173
MCW-15c	820	8/22/2011		=	300	=	5,000	361	1,226
MCW-15c	810	8/23/2011 ♦		=	800	=	1,100	393	1,220
MCW-15c	810	8/24/2011		=	800	=	1,100	429	1,213
MCW-15c	810	8/25/2011		=	800	=	1,100	468	1,206
MCW-15c	810	8/26/2011		=	800	=	1,100	463	1,189
MCW-15c	810	8/27/2011		=	800	=	1,100	458	1,172
MCW-15c	810	8/28/2011		=	800	=	1,100	453	1,155
MCW-15c	810	8/29/2011		=	800	=	1,100	448	1,138
MCW-15c	900	8/30/2011 ♦		=	110	=	500	415	1,093
MCW-15c	900	8/31/2011		=	110	=	500	384	1,049
MCW-17	-	8/1/2011	Dry	<	10	<	10	57	59
MCW-17	-	8/2/2011 ♦	Dry	<	10	<	10	54	55
MCW-17	-	8/3/2011	Dry	<	10	<	10	52	52
MCW-17	-	8/4/2011	Dry	<	10	<	10	47	47
MCW-17	-	8/5/2011	Dry	<	10	<	10	42	42
MCW-17	-	8/6/2011	Dry	<	10	<	10	38	38
MCW-17	-	8/7/2011	Dry	<	10	<	10	34	34
MCW-17	-	8/8/2011	Dry	<	10	<	10	31	31
MCW-17	-	8/9/2011 ♦	Dry	<	10	<	10	28	28
MCW-17	-	8/10/2011	Dry	<	10	<	10	25	25
MCW-17	-	8/11/2011	Dry	<	10	<	10	22	22
MCW-17	-	8/12/2011	Dry	<	10	<	10	19	19
MCW-17	-	8/13/2011	Dry	<	10	<	10	17	17
MCW-17	-	8/14/2011	Dry	<	10	<	10	15	15
MCW-17	-	8/15/2011	Dry	<	10	<	10	13	13
MCW-17	-	8/16/2011 ♦	Dry	<	10	<	10	11	11
MCW-17	-	8/17/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/18/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/19/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/20/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/21/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/22/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/23/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	8/24/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/25/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/26/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/27/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/28/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/29/2011	Dry	<	10	<	10	10	10
MCW-17	-	8/30/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	8/31/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/1/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/2/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	8/3/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/4/2011	Dry	<	10	<	10	10	10

MCW-18	-	8/5/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/6/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/7/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/8/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/9/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	8/10/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/11/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/12/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/13/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/14/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/15/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/16/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	8/17/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/18/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/19/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/20/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/21/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/22/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/23/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	8/24/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/25/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/26/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/27/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/28/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/29/2011	Dry	<	10	<	10	10	10
MCW-18	-	8/30/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	8/31/2011	Dry	<	10	<	10	10	10

Notes:

Weeks with rain >0.1" within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling



File

# VENTURA COUNTY



PUBLIC WORKS AGENCY  
JEFF PRATT, P.E.  
Agency Director

## WATERSHED PROTECTION DISTRICT

October 19, 2011

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

**Sergio Vargas**  
Planning/Regulatory

**Karl Novak, P.E.**  
Operations/Maintenance

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang,

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of September 2011. Sites were sampled weekly on Tuesdays (September 6, 13, 20, and 27). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with greater than 0.1" of rain within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Norma Camacho, Watershed Protection District

- ✓ Ewelina Mutkowska, County of Ventura
- Bob Carson, City of Thousand Oaks
- Joe Bellomo, Wildan Associates
- Fred Gonzales, County of Los Angeles

**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample		(as sampled)	
				E. coli		Fecal	
				(235 MPN)		(400 MPN)	
MCW-8b	-	9/6/2011 ♦	Dry		Dry		Dry
MCW-8b	-	9/13/2011 ♦	Dry		Dry		Dry
MCW-8b	-	9/20/2011 ♦	Dry		Dry		Dry
MCW-8b	-	9/27/2011 ♦	Dry		Dry		Dry
MCW-9	-	9/6/2011 ♦	Dry		Dry		Dry
MCW-9	-	9/13/2011 ♦	Dry		Dry		Dry
MCW-9	-	9/20/2011 ♦	Dry		Dry		Dry
MCW-9	-	9/27/2011 ♦	Dry		Dry		Dry
MCW-12	915	9/6/2011 ♦		=	330	=	1,100
MCW-12	925	9/13/2011 ♦		=	300	=	1,300
MCW-12	905	9/20/2011 ♦		=	170	=	210
MCW-12	925	9/27/2011 ♦		=	300	=	16,000
MCW-14b	850	9/6/2011 ♦		=	500	=	800
MCW-14b	900	9/13/2011 ♦		=	500	=	500
MCW-14b	840	9/20/2011 ♦		=	1,100	=	1,100
MCW-14b	845	9/27/2011 ♦		=	800	=	9,000
MCW-15c	820	9/6/2011 ♦		<	20	=	40
MCW-15c	830	9/13/2011 ♦		=	110	=	900
MCW-15c	810	9/20/2011 ♦		=	40	=	170
MCW-15c	820	9/27/2011 ♦		=	300	=	1,300
MCW-17	-	9/6/2011 ♦	Dry		Dry		Dry
MCW-17	-	9/13/2011 ♦	Dry		Dry		Dry
MCW-17	-	9/20/2011 ♦	Dry		Dry		Dry
MCW-17	-	9/27/2011 ♦	Dry		Dry		Dry
MCW-18	-	9/6/2011 ♦	Dry		Dry		Dry
MCW-18	-	9/13/2011 ♦	Dry		Dry		Dry
MCW-18	-	9/20/2011 ♦	Dry		Dry		Dry
MCW-18	-	9/27/2011 ♦	Dry		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

				Single Sample (adjusted for rain, dry and NDs)			Geomean		
Location	Time	Date	Rain		E. coli (235 MPN)		Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	-	9/1/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/2/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/3/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/4/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/5/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/6/2011 ♦	Dry	<	10	<	10	10	10
MCW-8b	-	9/7/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/8/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/9/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/10/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/11/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/12/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/13/2011 ♦	Dry	<	10	<	10	10	10
MCW-8b	-	9/14/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/15/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/16/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/17/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/18/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/19/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/20/2011 ♦	Dry	<	10	<	10	10	10
MCW-8b	-	9/21/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/22/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/23/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/24/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/25/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/26/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-8b	-	9/28/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/29/2011	Dry	<	10	<	10	10	10
MCW-8b	-	9/30/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/1/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/2/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/3/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/4/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/5/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/6/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	9/7/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/8/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/9/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/10/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/11/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/12/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/13/2011 ♦	Dry	<	10	<	10	10	10

MCW-9	-	9/14/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/15/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/16/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/17/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/18/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/19/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/20/2011♦	Dry	<	10	<	10	10	10
MCW-9	-	9/21/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/22/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/23/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/24/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/25/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/26/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/27/2011♦	Dry	<	10	<	10	10	10
MCW-9	-	9/28/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/29/2011	Dry	<	10	<	10	10	10
MCW-9	-	9/30/2011	Dry	<	10	<	10	10	10
MCW-12	955	9/1/2011		=	40	=	90	392	1,305
MCW-12	955	9/2/2011		=	40	=	90	351	1,201
MCW-12	955	9/3/2011		=	40	=	90	314	1,105
MCW-12	955	9/4/2011		=	40	=	90	282	1,016
MCW-12	955	9/5/2011		=	40	=	90	252	935
MCW-12	915	9/6/2011♦		=	330	=	1,100	242	935
MCW-12	915	9/7/2011		=	330	=	1,100	233	935
MCW-12	915	9/8/2011		=	330	=	1,100	238	904
MCW-12	915	9/9/2011		=	330	=	1,100	243	874
MCW-12	915	9/10/2011		=	330	=	1,100	249	846
MCW-12	915	9/11/2011		=	330	=	1,100	254	818
MCW-12	915	9/12/2011		=	330	=	1,100	260	791
MCW-12	925	9/13/2011♦		=	300		1,300	265	769
MCW-12	925	9/14/2011		=	300		1,300	270	748
MCW-12	925	9/15/2011		=	300		1,300	257	701
MCW-12	925	9/16/2011		=	300		1,300	245	657
MCW-12	925	9/17/2011		=	300		1,300	233	616
MCW-12	925	9/18/2011		=	300		1,300	222	578
MCW-12	925	9/19/2011		=	300		1,300	211	542
MCW-12	905	9/20/2011♦		=	170	=	210	198	478
MCW-12	905	9/21/2011		=	170	=	210	185	422
MCW-12	905	9/22/2011		=	170	=	210	181	417
MCW-12	905	9/23/2011		=	170	=	210	178	412
MCW-12	905	9/24/2011		=	170	=	210	174	407
MCW-12	905	9/25/2011		=	170	=	210	171	402
MCW-12	905	9/26/2011		=	170	=	210	168	397
MCW-12	925	9/27/2011♦		=	300	=	16,000	168	454
MCW-12	925	9/28/2011		=	300	=	16,000	168	518
MCW-12	925	9/29/2011		=	300	=	16,000	180	616
MCW-12	925	9/30/2011		=	300	=	16,000	192	732

MCW-14b	930	9/1/2011	=	140	=	170	399	584
MCW-14b	930	9/2/2011	=	140	=	170	393	563
MCW-14b	930	9/3/2011	=	140	=	170	387	543
MCW-14b	930	9/4/2011	=	140	=	170	381	524
MCW-14b	930	9/5/2011	=	140	=	170	375	505
MCW-14b	850	9/6/2011 ♦	=	500	=	800	386	513
MCW-14b	850	9/7/2011	=	500	=	800	396	521
MCW-14b	850	9/8/2011	=	500	=	800	386	516
MCW-14b	850	9/9/2011	=	500	=	800	376	511
MCW-14b	850	9/10/2011	=	500	=	800	366	505
MCW-14b	850	9/11/2011	=	500	=	800	357	500
MCW-14b	850	9/12/2011	=	500	=	800	348	495
MCW-14b	900	9/13/2011 ♦	=	500	=	500	339	482
MCW-14b	900	9/14/2011	=	500	=	500	330	469
MCW-14b	900	9/15/2011	=	500	=	500	335	464
MCW-14b	900	9/16/2011	=	500	=	500	341	459
MCW-14b	900	9/17/2011	=	500	=	500	347	454
MCW-14b	900	9/18/2011	=	500	=	500	353	449
MCW-14b	900	9/19/2011	=	500	=	500	359	444
MCW-14b	840	9/20/2011 ♦	=	1,100	=	1,100	375	450
MCW-14b	840	9/21/2011	=	1,100	=	1,100	392	457
MCW-14b	840	9/22/2011	=	1,100	=	1,100	402	469
MCW-14b	840	9/23/2011	=	1,100	=	1,100	413	482
MCW-14b	840	9/24/2011	=	1,100	=	1,100	424	495
MCW-14b	840	9/25/2011	=	1,100	=	1,100	435	508
MCW-14b	840	9/26/2011	=	1,100	=	1,100	447	521
MCW-14b	845	9/27/2011 ♦	=	800	=	9,000	454	574
MCW-14b	845	9/28/2011	=	800	=	9,000	461	632
MCW-14b	845	9/29/2011	=	800	=	9,000	488	722
MCW-14b	845	9/30/2011	=	800	=	9,000	518	824
MCW-15c	900	9/1/2011	=	110	=	500	365	1,033
MCW-15c	900	9/2/2011	=	110	=	500	347	1,017
MCW-15c	900	9/3/2011	=	110	=	500	330	1,001
MCW-15c	900	9/4/2011	=	110	=	500	314	985
MCW-15c	900	9/5/2011	=	110	=	500	299	970
MCW-15c	820	9/6/2011 ♦	<	10	=	40	262	878
MCW-15c	820	9/7/2011	<	10	=	40	230	794
MCW-15c	820	9/8/2011	<	10	=	40	206	740
MCW-15c	820	9/9/2011	<	10	=	40	185	689
MCW-15c	820	9/10/2011	<	10	=	40	166	641
MCW-15c	820	9/11/2011	<	10	=	40	149	597
MCW-15c	820	9/12/2011	<	10	=	40	134	556
MCW-15c	830	9/13/2011 ♦	=	110	=	900	130	574
MCW-15c	830	9/14/2011	=	110	=	900	126	593
MCW-15c	830	9/15/2011	=	110	=	900	122	560
MCW-15c	830	9/16/2011	=	110	=	900	118	529
MCW-15c	830	9/17/2011	=	110	=	900	114	500
MCW-15c	830	9/18/2011	=	110	=	900	110	472

MCW-15c	830	9/19/2011		=	110	=	900	107	446
MCW-15c	810	9/20/2011 ♦		=	40	=	170	100	398
MCW-15c	810	9/21/2011		=	40	=	170	93	356
MCW-15c	810	9/22/2011		=	40	=	170	84	334
MCW-15c	810	9/23/2011		=	40	=	170	76	314
MCW-15c	810	9/24/2011		=	40	=	170	69	295
MCW-15c	810	9/25/2011		=	40	=	170	63	277
MCW-15c	810	9/26/2011		=	40	=	170	57	261
MCW-15c	820	9/27/2011 ♦		=	300	=	1,300	55	262
MCW-15c	820	9/28/2011		=	300	=	1,300	53	264
MCW-15c	820	9/29/2011		=	300	=	1,300	55	272
MCW-15c	820	9/30/2011		=	300	=	1,300	57	281
MCW-17	-	9/1/2011	Dry	<	10	<	10	57	59
MCW-17	-	9/2/2011	Dry	<	10	<	10	54	55
MCW-17	-	9/3/2011	Dry	<	10	<	10	52	52
MCW-17	-	9/4/2011	Dry	<	10	<	10	47	47
MCW-17	-	9/5/2011	Dry	<	10	<	10	42	42
MCW-17	-	9/6/2011 ♦	Dry	<	10	<	10	38	38
MCW-17	-	9/7/2011	Dry	<	10	<	10	34	34
MCW-17	-	9/8/2011	Dry	<	10	<	10	31	31
MCW-17	-	9/9/2011	Dry	<	10	<	10	28	28
MCW-17	-	9/10/2011	Dry	<	10	<	10	25	25
MCW-17	-	9/11/2011	Dry	<	10	<	10	22	22
MCW-17	-	9/12/2011	Dry	<	10	<	10	19	19
MCW-17	-	9/13/2011 ♦	Dry	<	10	<	10	17	17
MCW-17	-	9/14/2011	Dry	<	10	<	10	15	15
MCW-17	-	9/15/2011	Dry	<	10	<	10	13	13
MCW-17	-	9/16/2011	Dry	<	10	<	10	11	11
MCW-17	-	9/17/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/18/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/19/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/20/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	9/21/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/22/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/23/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/24/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/25/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/26/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	9/28/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/29/2011	Dry	<	10	<	10	10	10
MCW-17	-	9/30/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/1/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/2/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/3/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/4/2011	Dry	<	10	<	10	10	10



MCW-18	-	9/5/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/6/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	9/7/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/8/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/9/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/10/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/11/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/12/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/13/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	9/14/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/15/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/16/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/17/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/18/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/19/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/20/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	9/21/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/22/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/23/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/24/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/25/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/26/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/27/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	9/28/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/29/2011	Dry	<	10	<	10	10	10
MCW-18	-	9/30/2011	Dry	<	10	<	10	10	10

## Notes:

Weeks with rain >0.1" within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

# VENTURA COUNTY



**PUBLIC WORKS AGENCY**  
**JEFF PRATT, P.E.**  
Agency Director

# WATERSHED PROTECTION DISTRICT

November 23, 2011

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

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Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang,

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of October 2011. Sites were sampled weekly on Tuesdays (October 4, 11, 18, and 25). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with greater than 0.1" of rain within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Norma Camacho, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles

**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample		(as sampled)	
				E. coli		Fecal	
				(235 MPN)		(400 MPN)	
MCW-8b	-	10/4/2011 ♦	Dry		Dry		Dry
MCW-8b	-	10/11/2011 ♦	Dry		Dry		Dry
MCW-8b	-	10/18/2011 ♦	Dry		Dry		Dry
MCW-8b	-	10/25/2011 ♦	Dry		Dry		Dry
MCW-9	-	10/4/2011 ♦	Dry		Dry		Dry
MCW-9	-	10/11/2011 ♦	Dry		Dry		Dry
MCW-9	-	10/18/2011 ♦	Dry		Dry		Dry
MCW-9	-	10/25/2011 ♦	Dry		Dry		Dry
MCW-12	930	10/4/2011 ♦		=	140	=	16,000
MCW-12	920	10/11/2011 ♦		=	220	=	1,700
MCW-12	915	10/18/2011 ♦		=	220	=	500
MCW-12	940	10/25/2011 ♦		=	300	=	2,800
MCW-14b	900	10/4/2011 ♦		=	110	=	1,700
MCW-14b	850	10/11/2011 ♦		=	700	=	1,100
MCW-14b	850	10/18/2011 ♦		=	3,000	=	3,000
MCW-14b	904	10/25/2011 ♦		=	300	=	3,000
MCW-15c	1110	10/4/2011 ♦		=	130	=	2,200
MCW-15c	825	10/11/2011 ♦		=	700	=	9,000
MCW-15c	825	10/18/2011 ♦		=	500	=	900
MCW-15c	835	10/25/2011 ♦		=	40	=	590
MCW-17	-	10/4/2011 ♦	Dry		Dry		Dry
MCW-17	-	10/11/2011 ♦	Dry		Dry		Dry
MCW-17	-	10/18/2011 ♦	Dry		Dry		Dry
MCW-17	-	10/25/2011 ♦	Dry		Dry		Dry
MCW-18	-	10/4/2011 ♦	Dry		Dry		Dry
MCW-18	-	10/11/2011 ♦	Dry		Dry		Dry
MCW-18	-	10/18/2011 ♦	Dry		Dry		Dry
MCW-18	-	10/25/2011 ♦	Dry		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain		Single Sample (adjusted for rain, dry and NDs)		Geomean	
					E. coli (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	-	10/1/2011	Dry	<	10	<	10	10
MCW-8b	-	10/2/2011	Dry	<	10	<	10	10
MCW-8b	-	10/3/2011	Dry	<	10	<	10	10
MCW-8b	-	10/4/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	10/5/2011	Dry	<	10	<	10	10
MCW-8b	-	10/6/2011	Dry	<	10	<	10	10
MCW-8b	-	10/7/2011	Dry	<	10	<	10	10
MCW-8b	-	10/8/2011	Dry	<	10	<	10	10
MCW-8b	-	10/9/2011	Dry	<	10	<	10	10
MCW-8b	-	10/10/2011	Dry	<	10	<	10	10
MCW-8b	-	10/11/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	10/12/2011	Dry	<	10	<	10	10
MCW-8b	-	10/13/2011	Dry	<	10	<	10	10
MCW-8b	-	10/14/2011	Dry	<	10	<	10	10
MCW-8b	-	10/15/2011	Dry	<	10	<	10	10
MCW-8b	-	10/16/2011	Dry	<	10	<	10	10
MCW-8b	-	10/17/2011	Dry	<	10	<	10	10
MCW-8b	-	10/18/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	10/19/2011	Dry	<	10	<	10	10
MCW-8b	-	10/20/2011	Dry	<	10	<	10	10
MCW-8b	-	10/21/2011	Dry	<	10	<	10	10
MCW-8b	-	10/22/2011	Dry	<	10	<	10	10
MCW-8b	-	10/23/2011	Dry	<	10	<	10	10
MCW-8b	-	10/24/2011	Dry	<	10	<	10	10
MCW-8b	-	10/25/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	10/26/2011	Dry	<	10	<	10	10
MCW-8b	-	10/27/2011	Dry	<	10	<	10	10
MCW-8b	-	10/28/2011	Dry	<	10	<	10	10
MCW-8b	-	10/29/2011	Dry	<	10	<	10	10
MCW-8b	-	10/30/2011	Dry	<	10	<	10	10
MCW-8b	-	10/31/2011	Dry	<	10	<	10	10
MCW-9	-	10/1/2011	Dry	<	10	<	10	10
MCW-9	-	10/2/2011	Dry	<	10	<	10	10
MCW-9	-	10/3/2011	Dry	<	10	<	10	10
MCW-9	-	10/4/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	10/5/2011	Dry	<	10	<	10	10
MCW-9	-	10/6/2011	Dry	<	10	<	10	10
MCW-9	-	10/7/2011	Dry	<	10	<	10	10
MCW-9	-	10/8/2011	Dry	<	10	<	10	10
MCW-9	-	10/9/2011	Dry	<	10	<	10	10
MCW-9	-	10/10/2011	Dry	<	10	<	10	10
MCW-9	-	10/11/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	10/12/2011	Dry	<	10	<	10	10
MCW-9	-	10/13/2011	Dry	<	10	<	10	10

MCW-9	-	10/14/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/15/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/16/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/17/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/18/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	10/19/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/20/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/21/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/22/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/23/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/24/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/25/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	10/26/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/27/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/28/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/29/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/30/2011	Dry	<	10	<	10	10	10
MCW-9	-	10/31/2011	Dry	<	10	<	10	10	10
MCW-12	925	10/1/2011		=	300	=	16,000	205	870
MCW-12	925	10/2/2011		=	300	=	16,000	220	1,034
MCW-12	925	10/3/2011		=	300	=	16,000	235	1,228
MCW-12	930	10/4/2011 ♦		=	140	=	16,000	245	1,460
MCW-12	930	10/5/2011		=	140	=	16,000	255	1,735
MCW-12	930	10/6/2011		=	140	=	16,000	248	1,897
MCW-12	930	10/7/2011		=	140	=	16,000	241	2,074
MCW-12	930	10/8/2011		=	140	=	16,000	234	2,268
MCW-12	930	10/9/2011		=	140	=	16,000	228	2,479
MCW-12	930	10/10/2011		=	140	=	16,000	221	2,711
MCW-12	920	10/11/2011 ♦		=	220	=	1,700	218	2,751
MCW-12	920	10/12/2011		=	220	=	1,700	215	2,791
MCW-12	920	10/13/2011		=	220	=	1,700	213	2,816
MCW-12	920	10/14/2011		=	220	=	1,700	211	2,841
MCW-12	920	10/15/2011		=	220	=	1,700	209	2,867
MCW-12	920	10/16/2011		=	220	=	1,700	207	2,892
MCW-12	920	10/17/2011		=	220	=	1,700	205	2,918
MCW-12	915	10/18/2011 ♦		=	220	=	500	202	2,827
MCW-12	915	10/19/2011		=	220	=	500	200	2,738
MCW-12	915	10/20/2011		=	220	=	500	202	2,819
MCW-12	915	10/21/2011		=	220	=	500	204	2,901
MCW-12	915	10/22/2011		=	220	=	500	206	2,986
MCW-12	915	10/23/2011		=	220	=	500	207	3,074
MCW-12	915	10/24/2011		=	220	=	500	209	3,164
MCW-12	940	10/25/2011 ♦		=	300	=	2,800	213	3,450
MCW-12	940	10/26/2011		=	300	=	2,800	217	3,761
MCW-12	940	10/27/2011		=	300	=	2,800	217	3,548
MCW-12	940	10/28/2011		=	300	=	2,800	217	3,348
MCW-12	940	10/29/2011		=	300	=	2,800	217	3,159
MCW-12	940	10/30/2011		=	300	=	2,800	217	2,981
MCW-12	940	10/31/2011		=	300	=	2,800	217	2,813

MCW-14b	845	10/1/2011	=	800	=	9,000	548	940
MCW-14b	845	10/2/2011	=	800	=	9,000	581	1,073
MCW-14b	845	10/3/2011	=	800	=	9,000	616	1,225
MCW-14b	900	10/4/2011 ♦	=	110	=	1,700	611	1,323
MCW-14b	900	10/5/2011	=	110	=	1,700	606	1,428
MCW-14b	900	10/6/2011	=	110	=	1,700	576	1,465
MCW-14b	900	10/7/2011	=	110	=	1,700	548	1,502
MCW-14b	900	10/8/2011	=	110	=	1,700	521	1,540
MCW-14b	900	10/9/2011	=	110	=	1,700	495	1,579
MCW-14b	900	10/10/2011	=	110	=	1,700	471	1,620
MCW-14b	850	10/11/2011 ♦	=	700	=	1,100	476	1,637
MCW-14b	850	10/12/2011	=	700	=	1,100	482	1,654
MCW-14b	850	10/13/2011	=	700	=	1,100	487	1,698
MCW-14b	850	10/14/2011	=	700	=	1,100	493	1,744
MCW-14b	850	10/15/2011	=	700	=	1,100	498	1,790
MCW-14b	850	10/16/2011	=	700	=	1,100	504	1,838
MCW-14b	850	10/17/2011	=	700	=	1,100	510	1,887
MCW-14b	850	10/18/2011 ♦	=	3,000	=	3,000	541	2,003
MCW-14b	850	10/19/2011	=	3,000	=	3,000	574	2,126
MCW-14b	850	10/20/2011	=	3,000	=	3,000	594	2,198
MCW-14b	850	10/21/2011	=	3,000	=	3,000	614	2,273
MCW-14b	850	10/22/2011	=	3,000	=	3,000	635	2,350
MCW-14b	850	10/23/2011	=	3,000	=	3,000	656	2,430
MCW-14b	850	10/24/2011	=	3,000	=	3,000	679	2,513
MCW-14b	904	10/25/2011 ♦	=	300	=	3,000	650	2,598
MCW-14b	904	10/26/2011	=	300	=	3,000	622	2,687
MCW-14b	904	10/27/2011	=	300	=	3,000	602	2,590
MCW-14b	904	10/28/2011	=	300	=	3,000	583	2,497
MCW-14b	904	10/29/2011	=	300	=	3,000	564	2,407
MCW-14b	904	10/30/2011	=	300	=	3,000	546	2,321
MCW-14b	904	10/31/2011	=	300	=	3,000	528	2,237
MCW-15c	820	10/1/2011	=	300	=	1,300	59	290
MCW-15c	820	10/2/2011	=	300	=	1,300	61	299
MCW-15c	820	10/3/2011	=	300	=	1,300	63	309
MCW-15c	1110	10/4/2011 ♦	=	130	=	2,200	63	325
MCW-15c	1110	10/5/2011	=	130	=	2,200	63	341
MCW-15c	1110	10/6/2011	=	130	=	2,200	69	390
MCW-15c	1110	10/7/2011	=	130	=	2,200	75	446
MCW-15c	1110	10/8/2011	=	130	=	2,200	82	509
MCW-15c	1110	10/9/2011	=	130	=	2,200	89	582
MCW-15c	1110	10/10/2011	=	130	=	2,200	97	665
MCW-15c	825	10/11/2011 ♦	=	700	=	9,000	112	797
MCW-15c	825	10/12/2011	=	700	=	9,000	129	955
MCW-15c	825	10/13/2011	=	700	=	9,000	137	1,031
MCW-15c	825	10/14/2011	=	700	=	9,000	146	1,113
MCW-15c	825	10/15/2011	=	700	=	9,000	155	1,202
MCW-15c	825	10/16/2011	=	700	=	9,000	165	1,298
MCW-15c	825	10/17/2011	=	700	=	9,000	176	1,401
MCW-15c	825	10/18/2011 ♦	=	500	=	900	185	1,401



MCW-15c	825	10/19/2011		=	500	=	900	194	1,401
MCW-15c	825	10/20/2011		=	500	=	900	212	1,481
MCW-15c	825	10/21/2011		=	500	=	900	230	1,566
MCW-15c	825	10/22/2011		=	500	=	900	250	1,655
MCW-15c	825	10/23/2011		=	500	=	900	272	1,750
MCW-15c	825	10/24/2011		=	500	=	900	296	1,850
MCW-15c	835	10/25/2011 ♦		=	40	=	590	296	1,928
MCW-15c	835	10/26/2011		=	40	=	590	296	2,010
MCW-15c	835	10/27/2011		=	40	=	590	277	1,958
MCW-15c	835	10/28/2011		=	40	=	590	259	1,907
MCW-15c	835	10/29/2011		=	40	=	590	242	1,857
MCW-15c	835	10/30/2011		=	40	=	590	226	1,809
MCW-15c	835	10/31/2011		=	40	=	590	212	1,762
MCW-17	-	10/1/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/2/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/3/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/4/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	10/5/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/6/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/7/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/8/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/9/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/10/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/11/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	10/12/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/13/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/14/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/15/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/16/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/17/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/18/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	10/19/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/20/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/21/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/22/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/23/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/24/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/25/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	10/26/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/27/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/28/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/29/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/30/2011	Dry	<	10	<	10	10	10
MCW-17	-	10/31/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/1/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/2/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/3/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/4/2011 ♦	Dry	<	10	<	10	10	10

MCW-18	-	10/5/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/6/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/7/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/8/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/9/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/10/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/11/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	10/12/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/13/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/14/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/15/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/16/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/17/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/18/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	10/19/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/20/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/21/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/22/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/23/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/24/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/25/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	10/26/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/27/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/28/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/29/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/30/2011	Dry	<	10	<	10	10	10
MCW-18	-	10/31/2011	Dry	<	10	<	10	10	10

Notes:

Weeks with rain >0.1" within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event.  
Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

# VENTURA COUNTY



PUBLIC WORKS AGENCY  
JEFF PRATT, P.E.  
Agency Director

## WATERSHED PROTECTION DISTRICT

December 19, 2011

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

**Sergio Vargas**  
Planning/Regulatory

**Karl Novak, P.E.**  
Operations/Maintenance

Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS

Dear Dr. Wang,

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of November 2011. Sites were sampled weekly on Tuesdays (November 1, 8, 15, 22, and 29). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with greater than 0.1" of rain within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Norma Camacho, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles

**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)		
				E. coli		Fecal
				(235 MPN)		(400 MPN)
MCW-8b	-	11/1/2011 ♦	Dry		Dry	Dry
MCW-8b	-	11/8/2011 ♦	Dry		Dry	Dry
MCW-8b	-	11/15/2011 ♦	Dry		Dry	Dry
MCW-8b	-	11/22/2011 ♦	Dry		Dry	Dry
MCW-8b	-	11/29/2011 ♦	Dry		Dry	Dry
MCW-9	-	11/1/2011 ♦	Dry		Dry	Dry
MCW-9	-	11/8/2011 ♦	Dry		Dry	Dry
MCW-9	-	11/15/2011 ♦	Dry		Dry	Dry
MCW-9	-	11/22/2011 ♦	Dry		Dry	Dry
MCW-9	-	11/29/2011 ♦	Dry		Dry	Dry
MCW-12	1045	11/1/2011 ♦		=	220	= 270
MCW-12	1030	11/8/2011 ♦		=	1,300	= 2,400
MCW-12	1025	11/15/2011 ♦		=	230	= 230
MCW-12	1015	11/22/2011 ♦	Rain	=	500	= 500
MCW-12	1015	11/29/2011 ♦		=	230	= 230
MCW-14b	1005	11/1/2011 ♦		=	300	= 1,300
MCW-14b	955	11/8/2011 ♦		=	800	= 1,300
MCW-14b	950	11/15/2011 ♦		=	300	= 800
MCW-14b	935	11/22/2011 ♦	Rain	=	2,800	= 2,800
MCW-14b	940	11/29/2011 ♦		=	500	= 500
MCW-15c	940	11/1/2011 ♦		=	20	= 170
MCW-15c	920	11/8/2011 ♦		=	140	= 500
MCW-15c	915	11/15/2011 ♦		<	20	< 20
MCW-15c	900	11/22/2011 ♦	Rain	=	300	= 300
MCW-15c	915	11/29/2011 ♦		=	1,300	= 1,300
MCW-17	-	11/1/2011 ♦	Dry		Dry	Dry
MCW-17	-	11/8/2011 ♦	Dry		Dry	Dry
MCW-17	-	11/15/2011 ♦	Dry		Dry	Dry
MCW-17	-	11/22/2011 ♦	Dry		Dry	Dry
MCW-17	-	11/29/2011 ♦	Dry		Dry	Dry
MCW-18	-	11/1/2011 ♦	Dry		Dry	Dry
MCW-18	-	11/8/2011 ♦	Dry		Dry	Dry
MCW-18	-	11/15/2011 ♦	Dry		Dry	Dry
MCW-18	-	11/22/2011 ♦	Dry		Dry	Dry
MCW-18	-	11/29/2011 ♦	Dry		Dry	Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain		Single Sample (adjusted for rain, dry and NDs)		Geomean	
					E. coli (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	-	11/1/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	11/2/2011	Dry	<	10	<	10	10
MCW-8b	-	11/3/2011	Dry	<	10	<	10	10
MCW-8b	-	11/4/2011	Dry	<	10	<	10	10
MCW-8b	-	11/5/2011	Dry	<	10	<	10	10
MCW-8b	-	11/6/2011	Dry	<	10	<	10	10
MCW-8b	-	11/7/2011	Dry	<	10	<	10	10
MCW-8b	-	11/8/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	11/9/2011	Dry	<	10	<	10	10
MCW-8b	-	11/10/2011	Dry	<	10	<	10	10
MCW-8b	-	11/11/2011	Dry	<	10	<	10	10
MCW-8b	-	11/12/2011	Dry	<	10	<	10	10
MCW-8b	-	11/13/2011	Dry	<	10	<	10	10
MCW-8b	-	11/14/2011	Dry	<	10	<	10	10
MCW-8b	-	11/15/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	11/16/2011	Dry	<	10	<	10	10
MCW-8b	-	11/17/2011	Dry	<	10	<	10	10
MCW-8b	-	11/18/2011	Dry	<	10	<	10	10
MCW-8b	-	11/19/2011	Dry	<	10	<	10	10
MCW-8b	-	11/20/2011	Dry	<	10	<	10	10
MCW-8b	-	11/21/2011	Dry	<	10	<	10	10
MCW-8b	-	11/22/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	11/23/2011	Dry	<	10	<	10	10
MCW-8b	-	11/24/2011	Dry	<	10	<	10	10
MCW-8b	-	11/25/2011	Dry	<	10	<	10	10
MCW-8b	-	11/26/2011	Dry	<	10	<	10	10
MCW-8b	-	11/27/2011	Dry	<	10	<	10	10
MCW-8b	-	11/28/2011	Dry	<	10	<	10	10
MCW-8b	-	11/29/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	11/30/2011	Dry	<	10	<	10	10
MCW-9	-	11/1/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	11/2/2011	Dry	<	10	<	10	10
MCW-9	-	11/3/2011	Dry	<	10	<	10	10
MCW-9	-	11/4/2011	Dry	<	10	<	10	10
MCW-9	-	11/5/2011	Dry	<	10	<	10	10
MCW-9	-	11/6/2011	Dry	<	10	<	10	10
MCW-9	-	11/7/2011	Dry	<	10	<	10	10
MCW-9	-	11/8/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	11/9/2011	Dry	<	10	<	10	10
MCW-9	-	11/10/2011	Dry	<	10	<	10	10
MCW-9	-	11/11/2011	Dry	<	10	<	10	10
MCW-9	-	11/12/2011	Dry	<	10	<	10	10
MCW-9	-	11/13/2011	Dry	<	10	<	10	10

MCW-9	-	11/14/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/15/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	11/16/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/17/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/18/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/19/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/20/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/21/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/22/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	11/23/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/24/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/25/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/26/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/27/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/28/2011	Dry	<	10	<	10	10	10
MCW-9	-	11/29/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	11/30/2011	Dry	<	10	<	10	10	10
MCW-12	1045	11/1/2011 ♦		=	220	=	270	215	2,455
MCW-12	1045	11/2/2011		=	220	=	270	213	2,142
MCW-12	1045	11/3/2011		=	220	=	270	216	1,870
MCW-12	1045	11/4/2011		=	220	=	270	219	1,632
MCW-12	1045	11/5/2011		=	220	=	270	223	1,424
MCW-12	1045	11/6/2011		=	220	=	270	226	1,243
MCW-12	1045	11/7/2011		=	220	=	270	229	1,085
MCW-12	1030	11/8/2011 ♦		=	1,300	=	2,400	247	1,019
MCW-12	1030	11/9/2011		=	1,300	=	2,400	266	956
MCW-12	1030	11/10/2011		=	1,300	=	2,400	282	967
MCW-12	1030	11/11/2011		=	1,300	=	2,400	300	978
MCW-12	1030	11/12/2011		=	1,300	=	2,400	318	990
MCW-12	1030	11/13/2011		=	1,300	=	2,400	337	1,001
MCW-12	1030	11/14/2011		=	1,300	=	2,400	358	1,013
MCW-12	1025	11/15/2011 ♦		=	230	=	230	359	947
MCW-12	1025	11/16/2011		=	230	=	230	359	886
MCW-12	1025	11/17/2011		=	230	=	230	360	864
MCW-12	1025	11/18/2011		=	230	=	230	360	842
MCW-12	1025	11/19/2011		=	230	=	230	361	820
MCW-12	1025	11/20/2011		=	230	=	230	361	799
MCW-12	1025	11/21/2011		=	230	=	230	362	779
MCW-12	1015	11/22/2011 ♦	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/23/2011	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/24/2011	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/25/2011	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/26/2011	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/27/2011	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/28/2011	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1015	11/29/2011 ♦		=	230	=	230	362	759
MCW-12	1015	11/30/2011		=	230	=	230	363	739



MCW-14b	1005	11/1/2011 ♦		=	300	=	1,300	511	2,097
MCW-14b	1005	11/2/2011		=	300	=	1,300	495	1,966
MCW-14b	1005	11/3/2011		=	300	=	1,300	512	1,949
MCW-14b	1005	11/4/2011		=	300	=	1,300	529	1,932
MCW-14b	1005	11/5/2011		=	300	=	1,300	547	1,914
MCW-14b	1005	11/6/2011		=	300	=	1,300	566	1,897
MCW-14b	1005	11/7/2011		=	300	=	1,300	585	1,880
MCW-14b	955	11/8/2011 ♦		=	800	=	1,300	625	1,864
MCW-14b	955	11/9/2011		=	800	=	1,300	668	1,847
MCW-14b	955	11/10/2011		=	800	=	1,300	671	1,857
MCW-14b	955	11/11/2011		=	800	=	1,300	674	1,868
MCW-14b	955	11/12/2011		=	800	=	1,300	677	1,878
MCW-14b	955	11/13/2011		=	800	=	1,300	680	1,889
MCW-14b	955	11/14/2011		=	800	=	1,300	683	1,899
MCW-14b	950	11/15/2011 ♦		=	300	=	800	664	1,879
MCW-14b	950	11/16/2011		=	300	=	800	645	1,859
MCW-14b	950	11/17/2011		=	300	=	800	598	1,779
MCW-14b	950	11/18/2011		=	300	=	800	554	1,703
MCW-14b	950	11/19/2011		=	300	=	800	513	1,629
MCW-14b	950	11/20/2011		=	300	=	800	475	1,559
MCW-14b	950	11/21/2011		=	300	=	800	440	1,492
MCW-14b	935	11/22/2011 ♦	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	935	11/23/2011	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	935	11/24/2011	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	935	11/25/2011	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	935	11/26/2011	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	935	11/27/2011	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	935	11/28/2011	Rain	=	2,800	=	2,800	**Rain**	**Rain**
MCW-14b	940	11/29/2011 ♦		=	500	=	500	414	1,405
MCW-14b	940	11/30/2011		=	500	=	500	390	1,324
MCW-15c	940	11/1/2011 ♦		=	20	=	170	193	1,646
MCW-15c	940	11/2/2011		=	20	=	170	177	1,539
MCW-15c	940	11/3/2011		=	20	=	170	166	1,413
MCW-15c	940	11/4/2011		=	20	=	170	156	1,297
MCW-15c	940	11/5/2011		=	20	=	170	147	1,191
MCW-15c	940	11/6/2011		=	20	=	170	138	1,094
MCW-15c	940	11/7/2011		=	20	=	170	129	1,004
MCW-15c	920	11/8/2011 ♦		=	140	=	500	130	956
MCW-15c	920	11/9/2011		=	140	=	500	130	910
MCW-15c	920	11/10/2011		=	140	=	500	123	826
MCW-15c	920	11/11/2011		=	140	=	500	117	750
MCW-15c	920	11/12/2011		=	140	=	500	111	681
MCW-15c	920	11/13/2011		=	140	=	500	105	619
MCW-15c	920	11/14/2011		=	140	=	500	99	562
MCW-15c	915	11/15/2011 ♦		<	10	<	10	86	448
MCW-15c	915	11/16/2011		<	10	<	10	75	357
MCW-15c	915	11/17/2011		<	10	<	10	66	307
MCW-15c	915	11/18/2011		<	10	<	10	58	265

MCW-15c	915	11/19/2011		<	10	<	10	51	228
MCW-15c	915	11/20/2011		<	10	<	10	44	196
MCW-15c	915	11/21/2011		<	10	<	10	39	169
MCW-15c	900	11/22/2011 ♦	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	900	11/23/2011	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	900	11/24/2011	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	900	11/25/2011	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	900	11/26/2011	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	900	11/27/2011	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	900	11/28/2011	Rain	=	300	=	300	**Rain**	**Rain**
MCW-15c	915	11/29/2011 ♦		=	1,300	=	1,300	40	171
MCW-15c	915	11/30/2011		=	1,300	=	1,300	42	173
MCW-17	-	11/1/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	11/2/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/3/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/4/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/5/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/6/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/7/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/8/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	11/9/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/10/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/11/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/12/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/13/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/14/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/15/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	11/16/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/17/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/18/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/19/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/20/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/21/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/22/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	11/23/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/24/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/25/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/26/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/27/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/28/2011	Dry	<	10	<	10	10	10
MCW-17	-	11/29/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	11/30/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/1/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	11/2/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/3/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/4/2011	Dry	<	10	<	10	10	10

MCW-18	-	11/5/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/6/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/7/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/8/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	11/9/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/10/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/11/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/12/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/13/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/14/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/15/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	11/16/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/17/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/18/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/19/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/20/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/21/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/22/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	11/23/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/24/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/25/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/26/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/27/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/28/2011	Dry	<	10	<	10	10	10
MCW-18	-	11/29/2011♦	Dry	<	10	<	10	10	10
MCW-18	-	11/30/2011	Dry	<	10	<	10	10	10

Notes:

Weeks with rain >0.1" within 72 hours prior to sampling use the single sample value from the previous non-rain sampling event.  
Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦Date of sampling

# VENTURA COUNTY



**PUBLIC WORKS AGENCY**  
**JEFF PRATT, P.E.**  
Agency Director

## WATERSHED PROTECTION DISTRICT

January 23, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

**Sergio Vargas**  
Planning/Regulatory

**Karl Novak, P.E.**  
Operations/Maintenance

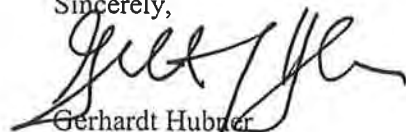
**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of December 2011. Sites were sampled weekly on Tuesdays (December 6, 13, 20, and 27). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner  
Deputy Director

CC: Norma Camacho, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles

**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample			(as sampled)	
					E. coli		Fecal	
					(235 MPN)			(400 MPN)
MCW-8b	-	12/6/2011 ♦	Dry		Dry		Dry	
MCW-8b	-	12/13/2011 ♦	Dry		Dry		Dry	
MCW-8b	-	12/20/2011 ♦	Dry		Dry		Dry	
MCW-8b	-	12/27/2011 ♦	Dry		Dry		Dry	
MCW-9	-	12/6/2011 ♦	Dry		Dry		Dry	
MCW-9	-	12/13/2011 ♦	Dry		Dry		Dry	
MCW-9	-	12/20/2011 ♦	Dry		Dry		Dry	
MCW-9	-	12/27/2011 ♦	Dry		Dry		Dry	
MCW-12	1025	12/6/2011 ♦		=	80	=	80	
MCW-12	1005	12/13/2011 ♦	Rain	=	2,200	=	2,200	
MCW-12	955	12/20/2011 ♦		<	20	<	20	
MCW-12	945	12/27/2011 ♦		=	40	=	40	
MCW-14b	935	12/6/2011 ♦		=	80	=	230	
MCW-14b	935	12/13/2011 ♦	Rain	=	5,000	=	5,000	
MCW-14b	915	12/20/2011 ♦		=	130	=	130	
MCW-14b	910	12/27/2011 ♦		=	40	=	80	
MCW-15c	855	12/6/2011 ♦		=	20	=	20	
MCW-15c	905	12/13/2011 ♦		=	1,100	=	1,100	
MCW-15c	850	12/20/2011 ♦		=	20	=	20	
MCW-15c	845	12/27/2011 ♦		=	20	=	20	
MCW-17	-	12/6/2011 ♦	Dry		Dry		Dry	
MCW-17	-	12/13/2011 ♦	Dry		Dry		Dry	
MCW-17	-	12/20/2011 ♦	Dry		Dry		Dry	
MCW-17	-	12/27/2011 ♦	Dry		Dry		Dry	
MCW-18	-	12/6/2011 ♦	Dry		Dry		Dry	
MCW-18	-	12/13/2011 ♦	Dry		Dry		Dry	
MCW-18	-	12/20/2011 ♦	Dry		Dry		Dry	
MCW-18	-	12/27/2011 ♦	Dry		Dry		Dry	

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
					E. coli (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	-	12/1/2011	Dry	<	10	<	10	10
MCW-8b	-	12/2/2011	Dry	<	10	<	10	10
MCW-8b	-	12/3/2011	Dry	<	10	<	10	10
MCW-8b	-	12/4/2011	Dry	<	10	<	10	10
MCW-8b	-	12/5/2011	Dry	<	10	<	10	10
MCW-8b	-	12/6/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	12/7/2011	Dry	<	10	<	10	10
MCW-8b	-	12/8/2011	Dry	<	10	<	10	10
MCW-8b	-	12/9/2011	Dry	<	10	<	10	10
MCW-8b	-	12/10/2011	Dry	<	10	<	10	10
MCW-8b	-	12/11/2011	Dry	<	10	<	10	10
MCW-8b	-	12/12/2011	Dry	<	10	<	10	10
MCW-8b	-	12/13/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	12/14/2011	Dry	<	10	<	10	10
MCW-8b	-	12/15/2011	Dry	<	10	<	10	10
MCW-8b	-	12/16/2011	Dry	<	10	<	10	10
MCW-8b	-	12/17/2011	Dry	<	10	<	10	10
MCW-8b	-	12/18/2011	Dry	<	10	<	10	10
MCW-8b	-	12/19/2011	Dry	<	10	<	10	10
MCW-8b	-	12/20/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	12/21/2011	Dry	<	10	<	10	10
MCW-8b	-	12/22/2011	Dry	<	10	<	10	10
MCW-8b	-	12/23/2011	Dry	<	10	<	10	10
MCW-8b	-	12/24/2011	Dry	<	10	<	10	10
MCW-8b	-	12/25/2011	Dry	<	10	<	10	10
MCW-8b	-	12/26/2011	Dry	<	10	<	10	10
MCW-8b	-	12/27/2011 ♦	Dry	<	10	<	10	10
MCW-8b	-	12/28/2011	Dry	<	10	<	10	10
MCW-8b	-	12/29/2011	Dry	<	10	<	10	10
MCW-8b	-	12/30/2011	Dry	<	10	<	10	10
MCW-8b	-	12/31/2011	Dry	<	10	<	10	10
MCW-9	-	12/1/2011	Dry	<	10	<	10	10
MCW-9	-	12/2/2011	Dry	<	10	<	10	10
MCW-9	-	12/3/2011	Dry	<	10	<	10	10
MCW-9	-	12/4/2011	Dry	<	10	<	10	10
MCW-9	-	12/5/2011	Dry	<	10	<	10	10
MCW-9	-	12/6/2011 ♦	Dry	<	10	<	10	10
MCW-9	-	12/7/2011	Dry	<	10	<	10	10
MCW-9	-	12/8/2011	Dry	<	10	<	10	10
MCW-9	-	12/9/2011	Dry	<	10	<	10	10
MCW-9	-	12/10/2011	Dry	<	10	<	10	10
MCW-9	-	12/11/2011	Dry	<	10	<	10	10
MCW-9	-	12/12/2011	Dry	<	10	<	10	10
MCW-9	-	12/13/2011 ♦	Dry	<	10	<	10	10



MCW-9	-	12/14/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/15/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/16/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/17/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/18/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/19/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/20/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	12/21/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/22/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/23/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/24/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/25/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/26/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-9	-	12/28/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/29/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/30/2011	Dry	<	10	<	10	10	10
MCW-9	-	12/31/2011	Dry	<	10	<	10	10	10
MCW-12	1015	12/1/2011		=	230	=	230	360	680
MCW-12	1015	12/2/2011		=	230	=	230	356	626
MCW-12	1015	12/3/2011		=	230	=	230	353	576
MCW-12	1015	12/4/2011		=	230	=	230	350	530
MCW-12	1015	12/5/2011		=	230	=	230	347	488
MCW-12	1025	12/6/2011 ♦		=	80	=	80	332	433
MCW-12	1025	12/7/2011		=	80	=	80	318	385
MCW-12	1025	12/8/2011		=	80	=	80	307	369
MCW-12	1025	12/9/2011		=	80	=	80	297	355
MCW-12	1025	12/10/2011		=	80	=	80	287	341
MCW-12	1025	12/11/2011		=	80	=	80	278	327
MCW-12	1025	12/12/2011		=	80	=	80	268	314
MCW-12	1005	12/13/2011 ♦	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	1005	12/14/2011	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	1005	12/15/2011	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	1005	12/16/2011	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	1005	12/17/2011	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	1005	12/18/2011	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	1005	12/19/2011	Rain	=	2,200	=	2,200	**Rain**	**Rain**
MCW-12	955	12/20/2011 ♦		<	10	<	10	242	281
MCW-12	955	12/21/2011		<	10	<	10	218	252
MCW-12	955	12/22/2011		<	10	<	10	186	210
MCW-12	955	12/23/2011		<	10	<	10	158	175
MCW-12	955	12/24/2011		<	10	<	10	134	146
MCW-12	955	12/25/2011		<	10	<	10	114	121
MCW-12	955	12/26/2011		<	10	<	10	97	101
MCW-12	945	12/27/2011 ♦		=	40	=	40	86	88
MCW-12	945	12/28/2011		=	40	=	40	77	77
MCW-12	945	12/29/2011		=	40	=	40	91	73
MCW-12	945	12/30/2011		=	40	=	40	68	68
MCW-12	945	12/31/2011		=	40	=	40	65	65

MCW-14b	940	12/1/2011		=	500	=	500	397	1,247
MCW-14b	940	12/2/2011		=	500	=	500	404	1,175
MCW-14b	940	12/3/2011		=	500	=	500	411	1,107
MCW-14b	940	12/4/2011		=	500	=	500	418	1,042
MCW-14b	940	12/5/2011		=	500	=	500	425	982
MCW-14b	935	12/6/2011 ♦		=	80	=	230	407	901
MCW-14b	935	12/7/2011		=	80	=	230	389	828
MCW-14b	935	12/8/2011		=	80	=	230	372	781
MCW-14b	935	12/9/2011		=	80	=	230	356	737
MCW-14b	935	12/10/2011		=	80	=	230	341	696
MCW-14b	935	12/11/2011		=	80	=	230	326	657
MCW-14b	935	12/12/2011		=	80	=	230	312	620
MCW-14b	935	12/13/2011 ♦	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	935	12/14/2011	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	935	12/15/2011	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	935	12/16/2011	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	935	12/17/2011	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	935	12/18/2011	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	935	12/19/2011	Rain	=	5,000	=	5,000	**Rain**	**Rain**
MCW-14b	915	12/20/2011 ♦		=	130	=	130	304	574
MCW-14b	915	12/21/2011		=	130	=	130	295	532
MCW-14b	915	12/22/2011		=	130	=	130	278	492
MCW-14b	915	12/23/2011		=	130	=	130	262	456
MCW-14b	915	12/24/2011		=	130	=	130	246	422
MCW-14b	915	12/25/2011		=	130	=	130	232	391
MCW-14b	915	12/26/2011		=	130	=	130	218	362
MCW-14b	910	12/27/2011 ♦		=	40	=	80	197	330
MCW-14b	910	12/28/2011		=	40	=	80	179	301
MCW-14b	910	12/29/2011		=	40	=	80	172	279
MCW-14b	910	12/30/2011		=	40	=	80	156	258
MCW-14b	910	12/31/2011		=	40	=	80	146	239
MCW-15c	915	12/1/2011		=	1,300	=	1,300	47	177
MCW-15c	915	12/2/2011		=	1,300	=	1,300	52	182
MCW-15c	915	12/3/2011		=	1,300	=	1,300	59	187
MCW-15c	915	12/4/2011		=	1,300	=	1,300	66	192
MCW-15c	915	12/5/2011		=	1,300	=	1,300	74	197
MCW-15c	855	12/6/2011 ♦		=	20	=	20	73	176
MCW-15c	855	12/7/2011		=	20	=	20	71	157
MCW-15c	855	12/8/2011		=	20	=	20	71	147
MCW-15c	855	12/9/2011		=	20	=	20	71	136
MCW-15c	855	12/10/2011		=	20	=	20	71	127
MCW-15c	855	12/11/2011		=	20	=	20	71	118
MCW-15c	855	12/12/2011		=	20	=	20	71	110
MCW-15c	905	12/13/2011 ♦		=	1,100	=	1,100	**Rain**	**Rain**
MCW-15c	905	12/14/2011		=	1,100	=	1,100	**Rain**	**Rain**
MCW-15c	905	12/15/2011		=	1,100	=	1,100	**Rain**	**Rain**
MCW-15c	905	12/16/2011		=	1,100	=	1,100	**Rain**	**Rain**
MCW-15c	905	12/17/2011		=	1,100	=	1,100	**Rain**	**Rain**
MCW-15c	905	12/18/2011		=	1,100	=	1,100	**Rain**	**Rain**

MCW-15c	905	12/19/2011		=	1,100	=	1,100	**Rain**	**Rain**
MCW-15c	850	12/20/2011 ♦		=	20	=	20	71	103
MCW-15c	850	12/21/2011		=	20	=	20	71	95
MCW-15c	850	12/22/2011		=	20	=	20	67	86
MCW-15c	850	12/23/2011		=	20	=	20	62	77
MCW-15c	850	12/24/2011		=	20	=	20	58	69
MCW-15c	850	12/25/2011		=	20	=	20	55	62
MCW-15c	850	12/26/2011		=	20	=	20	51	56
MCW-15c	845	12/27/2011 ♦		=	20	=	20	48	50
MCW-15c	845	12/28/2011		=	20	=	20	45	45
MCW-15c	845	12/29/2011		=	20	=	20	51	46
MCW-15c	845	12/30/2011		=	20	=	20	47	47
MCW-15c	845	12/31/2011		=	20	=	20	48	48
MCW-17	-	12/1/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/2/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/3/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/4/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/5/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/6/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	12/7/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/8/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/9/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/10/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/11/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/12/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/13/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	12/14/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/15/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/16/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/17/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/18/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/19/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/20/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	12/21/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/22/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/23/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/24/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/25/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/26/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-17	-	12/28/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/29/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/30/2011	Dry	<	10	<	10	10	10
MCW-17	-	12/31/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/1/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/2/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/3/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/4/2011	Dry	<	10	<	10	10	10

MCW-18	-	12/5/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/6/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	12/7/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/8/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/9/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/10/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/11/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/12/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/13/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	12/14/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/15/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/16/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/17/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/18/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/19/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/20/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	12/21/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/22/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/23/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/24/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/25/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/26/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/27/2011 ♦	Dry	<	10	<	10	10	10
MCW-18	-	12/28/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/29/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/30/2011	Dry	<	10	<	10	10	10
MCW-18	-	12/31/2011	Dry	<	10	<	10	10	10

Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with  $>0.1''$  rain) use the previous non-rain single sample value to calculate the geomean.

Results of  $<20$  are adjusted to use half the MDL ( $=10$ ) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

# VENTURA COUNTY



**PUBLIC WORKS AGENCY**  
**JEFF PRATT, P.E.**  
Agency Director

## WATERSHED PROTECTION DISTRICT

February 17, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

**Sergio Vargas**  
Planning/Regulatory

**Karl Novak, P.E.**  
Operations/Maintenance

**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang,

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of January 2012. Sites were sampled weekly on Tuesdays (January 3, 10, 17, 24, and 31). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Norma Camacho, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles

**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample		(as sampled)	
					E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	-	1/3/2012♦	Dry		Dry		Dry
MCW-8b	-	1/10/2012♦	Dry		Dry		Dry
MCW-8b	-	1/17/2012♦	Dry		Dry		Dry
MCW-8b	1205	1/24/2012♦	Rain	=	20	=	20
MCW-8b	1126	1/31/2012♦		=	40	=	110
MCW-9	-	1/3/2012♦	Dry		Dry		Dry
MCW-9	-	1/10/2012♦	Dry		Dry		Dry
MCW-9	-	1/17/2012♦	Dry		Dry		Dry
MCW-9	-	1/24/2012♦	Dry		Dry		Dry
MCW-9	-	1/31/2012♦	Dry		Dry		Dry
MCW-12	1045	1/3/2012♦		=	40	=	40
MCW-12	1000	1/10/2012♦		=	40	=	40
MCW-12	1030	1/17/2012♦		=	40	=	40
MCW-12	1040	1/24/2012♦	Rain	=	500	=	500
MCW-12	950	1/31/2012♦		=	80	=	80
MCW-14b	1005	1/3/2012♦		=	230	=	230
MCW-14b	930	1/10/2012♦		=	230	=	230
MCW-14b	1005	1/17/2012♦		=	20	=	80
MCW-14b	1005	1/24/2012♦	Rain	=	1,300	=	1,300
MCW-14b	918	1/31/2012♦		=	170	=	170
MCW-15c	940	1/3/2012♦		=	80	=	80
MCW-15c	900	1/10/2012♦		=	20	=	20
MCW-15c	940	1/17/2012♦		<	20	=	1,400
MCW-15c	945	1/24/2012♦	Rain	<	20	<	20
MCW-15c	849	1/31/2012♦		=	20	=	70
MCW-17	-	1/3/2012♦	Dry		Dry		Dry
MCW-17	-	1/10/2012♦	Dry		Dry		Dry
MCW-17	-	1/17/2012♦	Dry		Dry		Dry
MCW-17	-	1/24/2012♦	Dry		Dry		Dry
MCW-17	-	1/31/2012♦	Dry		Dry		Dry
MCW-18	-	1/3/2012♦	Dry		Dry		Dry
MCW-18	-	1/10/2012♦	Dry		Dry		Dry
MCW-18	-	1/17/2012♦	Dry		Dry		Dry
MCW-18	-	1/24/2012♦	Dry		Dry		Dry
MCW-18	-	1/31/2012♦	Dry		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦Date of sampling



**Table 2. Computation of daily geomean**

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli		Fecal	E. coli	Fecal
				(235 MPN)		(400 MPN)	(126 MPN)	(200 MPN)
MCW-8b	-	1/1/2012	Dry	<	10	<	10	10
MCW-8b	-	1/2/2012	Dry	<	10	<	10	10
MCW-8b	-	1/3/2012♦	Dry	<	10	<	10	10
MCW-8b	-	1/4/2012	Dry	<	10	<	10	10
MCW-8b	-	1/5/2012	Dry	<	10	<	10	10
MCW-8b	-	1/6/2012	Dry	<	10	<	10	10
MCW-8b	-	1/7/2012	Dry	<	10	<	10	10
MCW-8b	-	1/8/2012	Dry	<	10	<	10	10
MCW-8b	-	1/9/2012	Dry	<	10	<	10	10
MCW-8b	-	1/10/2012♦	Dry	<	10	<	10	10
MCW-8b	-	1/11/2012	Dry	<	10	<	10	10
MCW-8b	-	1/12/2012	Dry	<	10	<	10	10
MCW-8b	-	1/13/2012	Dry	<	10	<	10	10
MCW-8b	-	1/14/2012	Dry	<	10	<	10	10
MCW-8b	-	1/15/2012	Dry	<	10	<	10	10
MCW-8b	-	1/16/2012	Dry	<	10	<	10	10
MCW-8b	-	1/17/2012♦	Dry	<	10	<	10	10
MCW-8b	-	1/18/2012	Dry	<	10	<	10	10
MCW-8b	-	1/19/2012	Dry	<	10	<	10	10
MCW-8b	-	1/20/2012	Dry	<	10	<	10	10
MCW-8b	-	1/21/2012	Dry	<	10	<	10	10
MCW-8b	-	1/22/2012	Dry	<	10	<	10	10
MCW-8b	-	1/23/2012	Dry	<	10	<	10	10
MCW-8b	1205	1/24/2012♦	Rain	=	20	=	20	**Rain**
MCW-8b	1205	1/25/2012	Rain	=	20	=	20	**Rain**
MCW-8b	1205	1/26/2012	Rain	=	20	=	20	**Rain**
MCW-8b	1205	1/27/2012	Rain	=	20	=	20	**Rain**
MCW-8b	1205	1/28/2012	Rain	=	20	=	20	**Rain**
MCW-8b	1205	1/29/2012	Rain	=	20	=	20	**Rain**
MCW-8b	1205	1/30/2012	Rain	=	20	=	20	**Rain**
MCW-8b	1126	1/31/2012♦		=	40	=	110	10
MCW-9	-	1/1/2012	Dry	<	10	<	10	10
MCW-9	-	1/2/2012	Dry	<	10	<	10	10
MCW-9	-	1/3/2012♦	Dry	<	10	<	10	10
MCW-9	-	1/4/2012	Dry	<	10	<	10	10
MCW-9	-	1/5/2012	Dry	<	10	<	10	10
MCW-9	-	1/6/2012	Dry	<	10	<	10	10
MCW-9	-	1/7/2012	Dry	<	10	<	10	10
MCW-9	-	1/8/2012	Dry	<	10	<	10	10
MCW-9	-	1/9/2012	Dry	<	10	<	10	10
MCW-9	-	1/10/2012♦	Dry	<	10	<	10	10
MCW-9	-	1/11/2012	Dry	<	10	<	10	10
MCW-9	-	1/12/2012	Dry	<	10	<	10	10
MCW-9	-	1/13/2012	Dry	<	10	<	10	10

MCW-9	-	1/14/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/15/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/16/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/17/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	1/18/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/19/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/20/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/21/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/22/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/23/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/24/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	1/25/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/26/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/27/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/28/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/29/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/30/2012	Dry	<	10	<	10	10	10
MCW-9	-	1/31/2012♦	Dry	<	10	<	10	10	10
MCW-12	945	1/1/2012		=	40	=	40	61	61
MCW-12	945	1/2/2012		=	40	=	40	58	58
MCW-12	1045	1/3/2012♦		=	40	=	40	54	54
MCW-12	1045	1/4/2012		=	40	=	40	51	51
MCW-12	1045	1/5/2012		=	40	=	40	48	48
MCW-12	1045	1/6/2012		=	40	=	40	46	46
MCW-12	1045	1/7/2012		=	40	=	40	43	43
MCW-12	1045	1/8/2012		=	40	=	40	41	41
MCW-12	1045	1/9/2012		=	40	=	40	38	38
MCW-12	1000	1/10/2012♦		=	40	=	40	36	36
MCW-12	1000	1/11/2012		=	40	=	40	34	34
MCW-12	1000	1/12/2012		=	40	=	40	33	33
MCW-12	1000	1/13/2012		=	40	=	40	32	32
MCW-12	1000	1/14/2012		=	40	=	40	32	32
MCW-12	1000	1/15/2012		=	40	=	40	31	31
MCW-12	1000	1/16/2012		=	40	=	40	30	30
MCW-12	1030	1/17/2012♦		=	40	=	40	30	30
MCW-12	1030	1/18/2012		=	40	=	40	29	29
MCW-12	1030	1/19/2012		=	40	=	40	30	30
MCW-12	1030	1/20/2012		=	40	=	40	32	32
MCW-12	1030	1/21/2012		=	40	=	40	33	33
MCW-12	1030	1/22/2012		=	40	=	40	35	35
MCW-12	1030	1/23/2012		=	40	=	40	36	36
MCW-12	1040	1/24/2012♦	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1040	1/25/2012	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1040	1/26/2012	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1040	1/27/2012	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1040	1/28/2012	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1040	1/29/2012	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	1040	1/30/2012	Rain	=	500	=	500	**Rain**	**Rain**
MCW-12	950	1/31/2012♦		=	80	=	80	39	41

MCW-14b	910	1/1/2012		=	40	=	80	137	221
MCW-14b	910	1/2/2012		=	40	=	80	128	205
MCW-14b	1005	1/3/2012♦		=	230	=	230	127	197
MCW-14b	1005	1/4/2012		=	230	=	230	125	189
MCW-14b	1005	1/5/2012		=	230	=	230	122	184
MCW-14b	1005	1/6/2012		=	230	=	230	119	179
MCW-14b	1005	1/7/2012		=	230	=	230	116	175
MCW-14b	1005	1/8/2012		=	230	=	230	113	170
MCW-14b	1005	1/9/2012		=	230	=	230	110	166
MCW-14b	930	1/10/2012♦		=	230	=	230	107	161
MCW-14b	930	1/11/2012		=	230	=	230	105	157
MCW-14b	930	1/12/2012		=	230	=	230	108	157
MCW-14b	930	1/13/2012		=	230	=	230	112	157
MCW-14b	930	1/14/2012		=	230	=	230	116	157
MCW-14b	930	1/15/2012		=	230	=	230	120	157
MCW-14b	930	1/16/2012		=	230	=	230	125	157
MCW-14b	1005	1/17/2012♦		=	20	=	80	119	152
MCW-14b	1005	1/18/2012		=	20	=	80	114	147
MCW-14b	1005	1/19/2012		=	20	=	80	107	144
MCW-14b	1005	1/20/2012		=	20	=	80	100	142
MCW-14b	1005	1/21/2012		=	20	=	80	94	140
MCW-14b	1005	1/22/2012		=	20	=	80	89	137
MCW-14b	1005	1/23/2012		=	20	=	80	83	135
MCW-14b	1005	1/24/2012♦	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	1005	1/25/2012	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	1005	1/26/2012	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	1005	1/27/2012	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	1005	1/28/2012	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	1005	1/29/2012	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	1005	1/30/2012	Rain	=	1,300	=	1,300	**Rain**	**Rain**
MCW-14b	918	1/31/2012♦		=	170	=	170	84	153
MCW-15c	845	1/1/2012		=	20	=	20	49	49
MCW-15c	845	1/2/2012		=	20	=	20	51	51
MCW-15c	940	1/3/2012♦		=	80	=	80	54	54
MCW-15c	940	1/4/2012		=	80	=	80	58	58
MCW-15c	940	1/5/2012		=	80	=	80	53	53
MCW-15c	940	1/6/2012		=	80	=	80	48	48
MCW-15c	940	1/7/2012		=	80	=	80	44	44
MCW-15c	940	1/8/2012		=	80	=	80	40	40
MCW-15c	940	1/9/2012		=	80	=	80	37	37
MCW-15c	900	1/10/2012♦		=	20	=	20	32	32
MCW-15c	900	1/11/2012		=	20	=	20	28	28
MCW-15c	900	1/12/2012		=	20	=	20	28	28
MCW-15c	900	1/13/2012		=	20	=	20	28	28
MCW-15c	900	1/14/2012		=	20	=	20	28	28
MCW-15c	900	1/15/2012		=	20	=	20	28	28
MCW-15c	900	1/16/2012		=	20	=	20	28	28
MCW-15c	940	1/17/2012♦		<	10	=	1,400	27	32
MCW-15c	940	1/18/2012		<	10	=	1,400	26	37

MCW-15c	940	1/19/2012		<	10	=	1,400	26	42
MCW-15c	940	1/20/2012		<	10	=	1,400	25	49
MCW-15c	940	1/21/2012		<	10	=	1,400	25	56
MCW-15c	940	1/22/2012		<	10	=	1,400	24	65
MCW-15c	940	1/23/2012		<	10	=	1,400	24	74
MCW-15c	945	1/24/2012◆	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	945	1/25/2012	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	945	1/26/2012	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	945	1/27/2012	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	945	1/28/2012	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	945	1/29/2012	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	945	1/30/2012	Rain	<	10	<	10	**Rain**	**Rain**
MCW-15c	849	1/31/2012◆		=	20	=	70	24	109
MCW-17	-	1/1/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/2/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/3/2012◆	Dry	<	10	<	10	10	10
MCW-17	-	1/4/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/5/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/6/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/7/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/8/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/9/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/10/2012◆	Dry	<	10	<	10	10	10
MCW-17	-	1/11/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/12/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/13/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/14/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/15/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/16/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/17/2012◆	Dry	<	10	<	10	10	10
MCW-17	-	1/18/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/19/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/20/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/21/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/22/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/23/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/24/2012◆	Dry	<	10	<	10	10	10
MCW-17	-	1/25/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/26/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/27/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/28/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/29/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/30/2012	Dry	<	10	<	10	10	10
MCW-17	-	1/31/2012◆	Dry	<	10	<	10	10	10
MCW-18	-	1/1/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/2/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/3/2012◆	Dry	<	10	<	10	10	10
MCW-18	-	1/4/2012	Dry	<	10	<	10	10	10

MCW-18	-	1/5/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/6/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/7/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/8/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/9/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/10/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	1/11/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/12/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/13/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/14/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/15/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/16/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/17/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	1/18/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/19/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/20/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/21/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/22/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/23/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/24/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	1/25/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/26/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/27/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/28/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/29/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/30/2012	Dry	<	10	<	10	10	10
MCW-18	-	1/31/2012♦	Dry	<	10	<	10	10	10

Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦Date of sampling

# VENTURA COUNTY



**PUBLIC WORKS AGENCY**  
**JEFF PRATT, P.E.**  
Agency Director

## WATERSHED PROTECTION DISTRICT

March 19, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

**Norma Camacho**  
District Director

**Gerhardt Hubner**  
Water & Environmental  
Resources

**Peter Sheydayi**  
Design/Construction

**Sergio Vargas**  
Planning/Regulatory

**Karl Novak, P.E.**  
Operations/Maintenance

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of February 2012. Sites were sampled weekly on Tuesdays (February 7, 14, 21, and 28). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,

Gerhardt Hubner

Deputy Director, Watershed Protection District

CC: Bruce Rindahl, Watershed Protection District

✓ Ewelina Mutkowska, County of Ventura

Bob Carson, City of Thousand Oaks

Joe Bellomo, Wildan Associates

Fred Gonzales, County of Los Angeles



**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample		(as sampled)	
					E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	1018	2/7/2012 ♦		=	40	=	70
MCW-8b	1200	2/14/2012 ♦		<	20	=	40
MCW-8b	1015	2/21/2012 ♦		=	70	=	70
MCW-8b	1025	2/28/2012 ♦		=	110	=	170
MCW-9	-	2/7/2012 ♦	Dry		Dry		Dry
MCW-9	-	2/14/2012 ♦	Dry		Dry		Dry
MCW-9	-	2/21/2012 ♦	Dry		Dry		Dry
MCW-9	-	2/28/2012 ♦	Dry		Dry		Dry
MCW-12	900	2/7/2012 ♦		=	20	=	300
MCW-12	1015	2/14/2012 ♦		=	20	=	40
MCW-12	920	2/21/2012 ♦		<	20	<	20
MCW-12	900	2/28/2012 ♦		=	20	=	140
MCW-14b	828	2/7/2012 ♦		=	110	=	500
MCW-14b	950	2/14/2012 ♦		=	140	=	800
MCW-14b	855	2/21/2012 ♦		=	170	=	170
MCW-14b	830	2/28/2012 ♦		=	230	=	800
MCW-15c	800	2/7/2012 ♦		=	20	=	140
MCW-15c	925	2/14/2012 ♦		<	20	<	20
MCW-15c	830	2/21/2012 ♦		=	40	=	40
MCW-15c	805	2/28/2012 ♦		<	20	=	40
MCW-17	-	2/7/2012 ♦	Dry		Dry		Dry
MCW-17	-	2/14/2012 ♦	Dry		Dry		Dry
MCW-17	-	2/21/2012 ♦	Dry		Dry		Dry
MCW-17	-	2/28/2012 ♦	Dry		Dry		Dry
MCW-18	-	2/7/2012 ♦	Dry		Dry		Dry
MCW-18	-	2/14/2012 ♦	Dry		Dry		Dry
MCW-18	-	2/21/2012 ♦	Dry		Dry		Dry
MCW-18	-	2/28/2012 ♦	Dry		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
					E. coli (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	1126	2/1/2012		=	40	= 110	11	12
MCW-8b	1126	2/2/2012		=	40	= 110	11	13
MCW-8b	1126	2/3/2012		=	40	= 110	12	14
MCW-8b	1126	2/4/2012		=	40	= 110	13	15
MCW-8b	1126	2/5/2012		=	40	= 110	13	16
MCW-8b	1126	2/6/2012		=	40	= 110	14	17
MCW-8b	1018	2/7/2012♦		=	40	= 70	14	19
MCW-8b	1018	2/8/2012		=	40	= 70	15	20
MCW-8b	1018	2/9/2012		=	40	= 70	16	21
MCW-8b	1018	2/10/2012		=	40	= 70	17	23
MCW-8b	1018	2/11/2012		=	40	= 70	17	24
MCW-8b	1018	2/12/2012		=	40	= 70	18	26
MCW-8b	1018	2/13/2012		=	40	= 70	19	28
MCW-8b	1200	2/14/2012♦		<	10	= 40	19	29
MCW-8b	1200	2/15/2012		<	10	= 40	19	30
MCW-8b	1200	2/16/2012		<	10	= 40	19	32
MCW-8b	1200	2/17/2012		<	10	= 40	19	33
MCW-8b	1200	2/18/2012		<	10	= 40	19	35
MCW-8b	1200	2/19/2012		<	10	= 40	19	36
MCW-8b	1200	2/20/2012		<	10	= 40	19	38
MCW-8b	1015	2/21/2012♦		=	70	= 70	20	41
MCW-8b	1015	2/22/2012		=	70	= 70	22	43
MCW-8b	1015	2/23/2012		=	70	= 70	23	46
MCW-8b	1015	2/24/2012		=	70	= 70	25	49
MCW-8b	1015	2/25/2012		=	70	= 70	26	53
MCW-8b	1015	2/26/2012		=	70	= 70	28	56
MCW-8b	1015	2/27/2012		=	70	= 70	30	60
MCW-8b	1025	2/28/2012♦		=	110	= 170	33	66
MCW-8b	1025	2/29/2012		=	110	= 170	35	72
MCW-9	-	2/1/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/2/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/3/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/4/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/5/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/6/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/7/2012♦	Dry	<	10	< 10	10	10
MCW-9	-	2/8/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/9/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/10/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/11/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/12/2012	Dry	<	10	< 10	10	10
MCW-9	-	2/13/2012	Dry	<	10	< 10	10	10

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[illegible]

MCW-14b	918	2/1/2012		=	170	=	170	85	138
MCW-14b	918	2/2/2012		=	170	=	170	89	141
MCW-14b	918	2/3/2012		=	170	=	170	93	145
MCW-14b	918	2/4/2012		=	170	=	170	98	148
MCW-14b	918	2/5/2012		=	170	=	170	103	152
MCW-14b	918	2/6/2012		=	170	=	170	108	156
MCW-14b	828	2/7/2012♦		=	110	=	500	112	166
MCW-14b	828	2/8/2012		=	110	=	500	115	176
MCW-14b	828	2/9/2012		=	110	=	500	113	181
MCW-14b	828	2/10/2012		=	110	=	500	110	186
MCW-14b	828	2/11/2012		=	110	=	500	107	191
MCW-14b	828	2/12/2012		=	110	=	500	105	196
MCW-14b	828	2/13/2012		=	110	=	500	102	201
MCW-14b	950	2/14/2012♦		=	140	=	800	100	209
MCW-14b	950	2/15/2012		=	140	=	800	99	218
MCW-14b	950	2/16/2012		=	140	=	800	97	227
MCW-14b	950	2/17/2012		=	140	=	800	96	237
MCW-14b	950	2/18/2012		=	140	=	800	94	247
MCW-14b	950	2/19/2012		=	140	=	800	92	258
MCW-14b	950	2/20/2012		=	140	=	800	91	269
MCW-14b	855	2/21/2012♦		=	170	=	170	90	266
MCW-14b	855	2/22/2012		=	170	=	170	89	263
MCW-14b	855	2/23/2012		=	170	=	170	96	270
MCW-14b	855	2/24/2012		=	170	=	170	103	277
MCW-14b	855	2/25/2012		=	170	=	170	110	284
MCW-14b	855	2/26/2012		=	170	=	170	119	291
MCW-14b	855	2/27/2012		=	170	=	170	127	298
MCW-14b	830	2/28/2012♦		=	230	=	800	138	322
MCW-14b	830	2/29/2012		=	230	=	800	150	348
MCW-15c	849	2/1/2012		=	20	=	70	24	81
MCW-15c	849	2/2/2012		=	20	=	70	24	84
MCW-15c	849	2/3/2012		=	20	=	70	24	88
MCW-15c	849	2/4/2012		=	20	=	70	24	92
MCW-15c	849	2/5/2012		=	20	=	70	24	96
MCW-15c	849	2/6/2012		=	20	=	70	24	100
MCW-15c	800	2/7/2012♦		=	20	=	140	24	106
MCW-15c	800	2/8/2012		=	20	=	140	24	114
MCW-15c	800	2/9/2012		=	20	=	140	22	116
MCW-15c	800	2/10/2012		=	20	=	140	21	118
MCW-15c	800	2/11/2012		=	20	=	140	20	120
MCW-15c	800	2/12/2012		=	20	=	140	20	122
MCW-15c	800	2/13/2012		=	20	=	140	19	125
MCW-15c	925	2/14/2012♦		<	10	<	10	17	116
MCW-15c	925	2/15/2012		<	10	<	10	16	109
MCW-15c	925	2/16/2012		<	10	<	10	16	106
MCW-15c	925	2/17/2012		<	10	<	10	16	104
MCW-15c	925	2/18/2012		<	10	<	10	15	101

MCW-15c	925	2/19/2012		<	10	<	10	15	99
MCW-15c	925	2/20/2012		<	10	<	10	14	97
MCW-15c	830	2/21/2012♦		=	40	=	40	15	99
MCW-15c	830	2/22/2012		=	40	=	40	15	101
MCW-15c	830	2/23/2012		=	40	=	40	16	90
MCW-15c	830	2/24/2012		=	40	=	40	17	80
MCW-15c	830	2/25/2012		=	40	=	40	17	71
MCW-15c	830	2/26/2012		=	40	=	40	18	63
MCW-15c	830	2/27/2012		=	40	=	40	19	56
MCW-15c	805	2/28/2012♦		<	10	=	40	19	50
MCW-15c	805	2/29/2012		<	10	=	40	19	44
MCW-17	-	2/1/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/2/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/3/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/4/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/5/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/6/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/7/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	2/8/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/9/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/10/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/11/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/12/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/13/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/14/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	2/15/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/16/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/17/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/18/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/19/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/20/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/21/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	2/22/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/23/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/24/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/25/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/26/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/27/2012	Dry	<	10	<	10	10	10
MCW-17	-	2/28/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	2/29/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/1/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/2/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/3/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/4/2012	Dry	<	10	<	10	10	10

MCW-18	-	2/5/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/6/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/7/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	2/8/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/9/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/10/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/11/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/12/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/13/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/14/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	2/15/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/16/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/17/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/18/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/19/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/20/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/21/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	2/22/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/23/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/24/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/25/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/26/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/27/2012	Dry	<	10	<	10	10	10
MCW-18	-	2/28/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	2/29/2012	Dry	<	10	<	10	10	10

## Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦Date of sampling



April 23, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

Watershed Protection District  
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**R. Reddy Pakala**, Director

Central Services Department  
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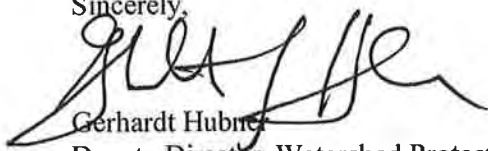
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of March 2012. Sites were sampled weekly on Tuesdays (March 6, 13, 20, and 27). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Interim Director, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles



**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample		(as sampled)	
					E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	1045	3/6/2012 ♦		=	700	=	700
MCW-8b	1250	3/13/2012 ♦		=	300	=	300
MCW-8b	1135	3/20/2012 ♦	Rain	<	20	=	20
MCW-8b	1145	3/27/2012 ♦	Rain	=	800	=	800
MCW-9	-	3/6/2012 ♦	Dry		Dry		Dry
MCW-9	-	3/13/2012 ♦	Dry		Dry		Dry
MCW-9	-	3/20/2012 ♦	Dry		Dry		Dry
MCW-9	-	3/27/2012 ♦	Dry		Dry		Dry
MCW-12	950	3/6/2012 ♦		=	20	=	20
MCW-12	1120	3/13/2012 ♦		=	40	=	40
MCW-12	1005	3/20/2012 ♦	Rain	=	130	=	130
MCW-12	1030	3/27/2012 ♦	Rain	=	300	=	300
MCW-14b	920	3/6/2012 ♦		=	500	=	500
MCW-14b	1045	3/13/2012 ♦		=	20	=	20
MCW-14b	940	3/20/2012 ♦	Rain	=	1,700	=	1,700
MCW-14b	1005	3/27/2012 ♦	Rain	=	500	=	1,300
MCW-15c	855	3/6/2012 ♦		<	20	=	80
MCW-15c	1010	3/13/2012 ♦		<	20	<	20
MCW-15c	920	3/20/2012 ♦	Rain	=	110	=	110
MCW-15c	945	3/27/2012 ♦	Rain	=	40	=	40
MCW-17	-	3/6/2012 ♦	Dry		Dry		Dry
MCW-17	-	3/13/2012 ♦	Dry		Dry		Dry
MCW-17	-	3/20/2012 ♦	Dry		Dry		Dry
MCW-17	-	3/27/2012 ♦	Dry		Dry		Dry
MCW-18	-	3/6/2012 ♦	Dry		Dry		Dry
MCW-18	-	3/13/2012 ♦	Dry		Dry		Dry
MCW-18	-	3/20/2012 ♦	Dry		Dry		Dry
MCW-18	-	3/27/2012 ♦	Dry		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

				Single Sample (adjusted for rain, dry and NDs)			Geomean		
Location	Time	Date	Rain		E. coli (235 MPN)		Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	1025	3/1/2012		=	110	=	170	36	73
MCW-8b	1025	3/2/2012		=	110	=	170	38	75
MCW-8b	1025	3/3/2012		=	110	=	170	39	76
MCW-8b	1025	3/4/2012		=	110	=	170	40	77
MCW-8b	1025	3/5/2012		=	110	=	170	42	78
MCW-8b	1045	3/6/2012♦		=	700	=	700	46	83
MCW-8b	1045	3/7/2012		=	700	=	700	51	88
MCW-8b	1045	3/8/2012		=	700	=	700	56	95
MCW-8b	1045	3/9/2012		=	700	=	700	61	103
MCW-8b	1045	3/10/2012		=	700	=	700	67	111
MCW-8b	1045	3/11/2012		=	700	=	700	74	120
MCW-8b	1045	3/12/2012		=	700	=	700	81	129
MCW-8b	1250	3/13/2012♦		=	300	=	300	87	136
MCW-8b	1250	3/14/2012		=	300	=	300	93	142
MCW-8b	1250	3/15/2012		=	300	=	300	104	152
MCW-8b	1250	3/16/2012		=	300	=	300	117	163
MCW-8b	1250	3/17/2012		=	300	=	300	131	174
MCW-8b	1250	3/18/2012		=	300	=	300	147	186
MCW-8b	1250	3/19/2012		=	300	=	300	164	199
MCW-8b	1135	3/20/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1135	3/21/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1135	3/22/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1135	3/23/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1135	3/24/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1135	3/25/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1135	3/26/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1145	3/27/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1145	3/28/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1145	3/29/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1145	3/30/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1145	3/31/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-9	-	3/1/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/2/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/3/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/4/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/5/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/6/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	3/7/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/8/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/9/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/10/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/11/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/12/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/13/2012♦	Dry	<	10	<	10	10	10

MCW-9	-	3/14/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/15/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/16/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/17/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/18/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/19/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/20/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	3/21/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/22/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/23/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/24/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/25/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/26/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/27/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	3/28/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/29/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/30/2012	Dry	<	10	<	10	10	10
MCW-9	-	3/31/2012	Dry	<	10	<	10	10	10
MCW-12	900	3/1/2012		=	20	=	140	22	60
MCW-12	900	3/2/2012		=	20	=	140	21	61
MCW-12	900	3/3/2012		=	20	=	140	20	63
MCW-12	900	3/4/2012		=	20	=	140	20	64
MCW-12	900	3/5/2012		=	20	=	140	19	65
MCW-12	950	3/6/2012♦		=	20	=	20	18	62
MCW-12	950	3/7/2012		=	20	=	20	17	59
MCW-12	950	3/8/2012		=	20	=	20	17	54
MCW-12	950	3/9/2012		=	20	=	20	17	49
MCW-12	950	3/10/2012		=	20	=	20	17	45
MCW-12	950	3/11/2012		=	20	=	20	17	41
MCW-12	950	3/12/2012		=	20	=	20	17	38
MCW-12	1120	3/13/2012♦		=	40	=	40	17	35
MCW-12	1120	3/14/2012		=	40	=	40	18	33
MCW-12	1120	3/15/2012		=	40	=	40	18	33
MCW-12	1120	3/16/2012		=	40	=	40	19	33
MCW-12	1120	3/17/2012		=	40	=	40	19	33
MCW-12	1120	3/18/2012		=	40	=	40	20	33
MCW-12	1120	3/19/2012		=	40	=	40	20	33
MCW-12	1005	3/20/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1005	3/21/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1005	3/22/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1005	3/23/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1005	3/24/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1005	3/25/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1005	3/26/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1030	3/27/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1030	3/28/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1030	3/29/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1030	3/30/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1030	3/31/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**

MCW-14b	830	3/1/2012		=	230	=	800	151	366
MCW-14b	830	3/2/2012		=	230	=	800	153	386
MCW-14b	830	3/3/2012		=	230	=	800	154	406
MCW-14b	830	3/4/2012		=	230	=	800	156	428
MCW-14b	830	3/5/2012		=	230	=	800	158	450
MCW-14b	920	3/6/2012♦		=	500	=	500	163	467
MCW-14b	920	3/7/2012		=	500	=	500	169	484
MCW-14b	920	3/8/2012		=	500	=	500	178	484
MCW-14b	920	3/9/2012		=	500	=	500	187	484
MCW-14b	920	3/10/2012		=	500	=	500	197	484
MCW-14b	920	3/11/2012		=	500	=	500	207	484
MCW-14b	920	3/12/2012		=	500	=	500	218	484
MCW-14b	1045	3/13/2012♦		=	20	=	20	206	435
MCW-14b	1045	3/14/2012		=	20	=	20	194	391
MCW-14b	1045	3/15/2012		=	20	=	20	182	345
MCW-14b	1045	3/16/2012		=	20	=	20	171	305
MCW-14b	1045	3/17/2012		=	20	=	20	160	270
MCW-14b	1045	3/18/2012		=	20	=	20	150	239
MCW-14b	1045	3/19/2012		=	20	=	20	141	211
MCW-14b	940	3/20/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	940	3/21/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	940	3/22/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	940	3/23/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	940	3/24/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	940	3/25/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	940	3/26/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	1005	3/27/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	1005	3/28/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	1005	3/29/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	1005	3/30/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	1005	3/31/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	805	3/1/2012		<	10	=	40	19	43
MCW-15c	805	3/2/2012		<	10	=	40	18	43
MCW-15c	805	3/3/2012		<	10	=	40	18	42
MCW-15c	805	3/4/2012		<	10	=	40	17	41
MCW-15c	805	3/5/2012		<	10	=	40	17	40
MCW-15c	855	3/6/2012♦		<	10	=	80	17	40
MCW-15c	855	3/7/2012		<	10	=	80	16	41
MCW-15c	855	3/8/2012		<	10	=	80	16	40
MCW-15c	855	3/9/2012		<	10	=	80	16	39
MCW-15c	855	3/10/2012		<	10	=	80	15	38
MCW-15c	855	3/11/2012		<	10	=	80	15	38
MCW-15c	855	3/12/2012		<	10	=	80	14	37
MCW-15c	1010	3/13/2012♦		<	10	<	10	14	34
MCW-15c	1010	3/14/2012		<	10	<	10	14	31
MCW-15c	1010	3/15/2012		<	10	<	10	14	31
MCW-15c	1010	3/16/2012		<	10	<	10	14	31
MCW-15c	1010	3/17/2012		<	10	<	10	14	31
MCW-15c	1010	3/18/2012		<	10	<	10	14	31

MCW-15c	1010	3/19/2012		<	10	<	10	14	31
MCW-15c	920	3/20/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	920	3/21/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	920	3/22/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	920	3/23/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	920	3/24/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	920	3/25/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	920	3/26/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	945	3/27/2012♦	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	945	3/28/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	945	3/29/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	945	3/30/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	945	3/31/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-17	-	3/1/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/2/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/3/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/4/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/5/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/6/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	3/7/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/8/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/9/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/10/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/11/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/12/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/13/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	3/14/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/15/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/16/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/17/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/18/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/19/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/20/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	3/21/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/22/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/23/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/24/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/25/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/26/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/27/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	3/28/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/29/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/30/2012	Dry	<	10	<	10	10	10
MCW-17	-	3/31/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/1/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/2/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/3/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/4/2012	Dry	<	10	<	10	10	10



MCW-18	-	3/5/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/6/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	3/7/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/8/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/9/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/10/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/11/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/12/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/13/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	3/14/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/15/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/16/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/17/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/18/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/19/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/20/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	3/21/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/22/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/23/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/24/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/25/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/26/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/27/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	3/28/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/29/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/30/2012	Dry	<	10	<	10	10	10
MCW-18	-	3/31/2012	Dry	<	10	<	10	10	10

Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

May 10, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

Watershed Protection District  
**Norma J. Camacho**, Director

Transportation Department  
**David L. Fleisch**, Director

Engineering Services Department  
**Phillip L. Nelson**, Director

Water & Sanitation Department  
**R. Reddy Pakala**, Director

Central Services Department  
**Janice E. Turner**, Director

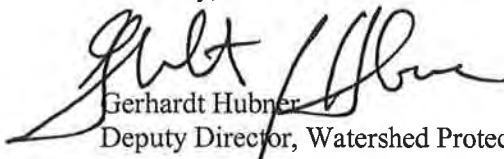
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of March 2012. Sites were sampled weekly on Tuesdays (April 3, 10, 17, and 24). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Interim Director, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample		(as sampled)	
					E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	1215	4/3/2012 ♦		=	40	=	40
MCW-8b	1210	4/10/2012 ♦		<	20	<	20
MCW-8b	1245	4/17/2012 ♦		=	20	=	40
MCW-8b	1035	4/24/2012 ♦		=	40	=	230
MCW-9	-	4/3/2012 ♦	Dry		Dry		Dry
MCW-9	-	4/10/2012 ♦	Dry		Dry		Dry
MCW-9	-	4/17/2012 ♦	Dry		Dry		Dry
MCW-9	-	4/24/2012 ♦	Dry		Dry		Dry
MCW-12	1030	4/3/2012 ♦		=	110	=	110
MCW-12	1050	4/10/2012 ♦		<	20	<	20
MCW-12	1030	4/17/2012 ♦		=	80	=	260
MCW-12	935	4/24/2012 ♦		=	140	=	210
MCW-14b	70	4/3/2012 ♦		=	230	=	230
MCW-14b	1010	4/10/2012 ♦		=	220	=	220
MCW-14b	955	4/17/2012 ♦		=	110	=	140
MCW-14b	915	4/24/2012 ♦		=	340	=	3,000
MCW-15c	935	4/3/2012 ♦		=	80	=	80
MCW-15c	930	4/10/2012 ♦		=	70	=	70
MCW-15c	930	4/17/2012 ♦		=	20	=	40
MCW-15c	850	4/24/2012 ♦		=	170	=	170
MCW-17	-	4/3/2012 ♦			Dry		Dry
MCW-17	-	4/10/2012 ♦			Dry		Dry
MCW-17	900	4/17/2012 ♦		<	20	=	1,100
MCW-17	-	4/24/2012 ♦			Dry		Dry
MCW-18	-	4/3/2012 ♦	Dry		Dry		Dry
MCW-18	-	4/10/2012 ♦	Dry		Dry		Dry
MCW-18	-	4/17/2012 ♦	Dry		Dry		Dry
MCW-18	-	4/24/2012 ♦	Dry		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli (235 MPN)		Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	1145	4/1/2012	Rain	**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1145	4/2/2012	Rain	**Rain**		**Rain**	**Rain**	**Rain**
MCW-8b	1215	4/3/2012♦		=	40	=	40	172
MCW-8b	1215	4/4/2012		=	40	=	40	180
MCW-8b	1215	4/5/2012		=	40	=	40	177
MCW-8b	1215	4/6/2012		=	40	=	40	174
MCW-8b	1215	4/7/2012		=	40	=	40	170
MCW-8b	1215	4/8/2012		=	40	=	40	167
MCW-8b	1215	4/9/2012		=	40	=	40	164
MCW-8b	1210	4/10/2012♦		<	10	<	10	154
MCW-8b	1210	4/11/2012		<	10	<	10	144
MCW-8b	1210	4/12/2012		<	10	<	10	133
MCW-8b	1210	4/13/2012		<	10	<	10	123
MCW-8b	1210	4/14/2012		<	10	<	10	113
MCW-8b	1210	4/15/2012		<	10	<	10	105
MCW-8b	1210	4/16/2012		<	10	<	10	97
MCW-8b	1245	4/17/2012♦		=	20	=	40	91
MCW-8b	1245	4/18/2012		=	20	=	40	86
MCW-8b	1245	4/19/2012		=	20	=	40	77
MCW-8b	1245	4/20/2012		=	20	=	40	68
MCW-8b	1245	4/21/2012		=	20	=	40	60
MCW-8b	1245	4/22/2012		=	20	=	40	54
MCW-8b	1245	4/23/2012		=	20	=	40	48
MCW-8b	1035	4/24/2012♦		=	40	=	230	43
MCW-8b	1035	4/25/2012		=	40	=	230	39
MCW-8b	1035	4/26/2012		=	40	=	230	37
MCW-8b	1035	4/27/2012		=	40	=	230	34
MCW-8b	1035	4/28/2012		=	40	=	230	32
MCW-8b	1035	4/29/2012		=	40	=	230	30
MCW-8b	1035	4/30/2012		=	40	=	230	28
MCW-9	-	4/1/2012	Dry	<	10	<	10	10
MCW-9	-	4/2/2012	Dry	<	10	<	10	10
MCW-9	-	4/3/2012♦	Dry	<	10	<	10	10
MCW-9	-	4/4/2012	Dry	<	10	<	10	10
MCW-9	-	4/5/2012	Dry	<	10	<	10	10
MCW-9	-	4/6/2012	Dry	<	10	<	10	10
MCW-9	-	4/7/2012	Dry	<	10	<	10	10
MCW-9	-	4/8/2012	Dry	<	10	<	10	10
MCW-9	-	4/9/2012	Dry	<	10	<	10	10
MCW-9	-	4/10/2012♦	Dry	<	10	<	10	10
MCW-9	-	4/11/2012	Dry	<	10	<	10	10
MCW-9	-	4/12/2012	Dry	<	10	<	10	10
MCW-9	-	4/13/2012	Dry	<	10	<	10	10



MCW-14b	1005	4/1/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	1005	4/2/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	70	4/3/2012◆		=	230	=	230	143	203
MCW-14b	70	4/4/2012		=	230	=	230	145	194
MCW-14b	70	4/5/2012		=	230	=	230	147	196
MCW-14b	70	4/6/2012		=	230	=	230	148	198
MCW-14b	70	4/7/2012		=	230	=	230	150	200
MCW-14b	70	4/8/2012		=	230	=	230	151	202
MCW-14b	70	4/9/2012		=	230	=	230	153	204
MCW-14b	1010	4/10/2012◆		=	220	=	220	154	206
MCW-14b	1010	4/11/2012		=	220	=	220	155	208
MCW-14b	1010	4/12/2012		=	220	=	220	155	199
MCW-14b	1010	4/13/2012		=	220	=	220	155	191
MCW-14b	1010	4/14/2012		=	220	=	220	155	183
MCW-14b	1010	4/15/2012		=	220	=	220	155	175
MCW-14b	1010	4/16/2012		=	220	=	220	154	168
MCW-14b	955	4/17/2012◆		=	110	=	140	151	158
MCW-14b	955	4/18/2012		=	110	=	140	147	149
MCW-14b	955	4/19/2012		=	110	=	140	140	143
MCW-14b	955	4/20/2012		=	110	=	140	133	137
MCW-14b	955	4/21/2012		=	110	=	140	126	131
MCW-14b	955	4/22/2012		=	110	=	140	120	126
MCW-14b	955	4/23/2012		=	110	=	140	114	121
MCW-14b	915	4/24/2012◆		=	340	=	3,000	113	128
MCW-14b	915	4/25/2012		=	340	=	3,000	111	136
MCW-14b	915	4/26/2012		=	340	=	3,000	122	161
MCW-14b	915	4/27/2012		=	340	=	3,000	134	190
MCW-14b	915	4/28/2012		=	340	=	3,000	148	225
MCW-14b	915	4/29/2012		=	340	=	3,000	162	265
MCW-14b	915	4/30/2012		=	340	=	3,000	178	314
MCW-15c	945	4/1/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	945	4/2/2012	Rain		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	935	4/3/2012◆		=	80	=	80	15	33
MCW-15c	935	4/4/2012		=	80	=	80	16	36
MCW-15c	935	4/5/2012		=	80	=	80	16	36
MCW-15c	935	4/6/2012		=	80	=	80	17	37
MCW-15c	935	4/7/2012		=	80	=	80	17	38
MCW-15c	935	4/8/2012		=	80	=	80	17	39
MCW-15c	935	4/9/2012		=	80	=	80	18	40
MCW-15c	930	4/10/2012◆		=	70	=	70	18	41
MCW-15c	930	4/11/2012		=	70	=	70	18	42
MCW-15c	930	4/12/2012		=	70	=	70	20	42
MCW-15c	930	4/13/2012		=	70	=	70	21	43
MCW-15c	930	4/14/2012		=	70	=	70	22	44
MCW-15c	930	4/15/2012		=	70	=	70	24	45
MCW-15c	930	4/16/2012		=	70	=	70	26	46
MCW-15c	930	4/17/2012◆		=	20	=	40	26	46
MCW-15c	930	4/18/2012		=	20	=	40	27	46



MCW-15c	930	4/19/2012		=	20	=	40	27	45
MCW-15c	930	4/20/2012		=	20	=	40	28	44
MCW-15c	930	4/21/2012		=	20	=	40	29	43
MCW-15c	930	4/22/2012		=	20	=	40	29	42
MCW-15c	930	4/23/2012		=	20	=	40	30	41
MCW-15c	850	4/24/2012◆		=	170	=	170	33	42
MCW-15c	850	4/25/2012		=	170	=	170	36	43
MCW-15c	850	4/26/2012		=	170	=	170	40	47
MCW-15c	850	4/27/2012		=	170	=	170	44	52
MCW-15c	850	4/28/2012		=	170	=	170	48	57
MCW-15c	850	4/29/2012		=	170	=	170	53	62
MCW-15c	850	4/30/2012		=	170	=	170	58	68
MCW-17	-	4/1/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/2/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/3/2012◆	Dry	<	10	<	10	10	10
MCW-17	-	4/4/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/5/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/6/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/7/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/8/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/9/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/10/2012◆	Dry	<	10	<	10	10	10
MCW-17	-	4/11/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/12/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/13/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/14/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/15/2012	Dry	<	10	<	10	10	10
MCW-17	-	4/16/2012	Dry	<	10	<	10	10	10
MCW-17	900	4/17/2012◆		<	10	=	1,100	10	12
MCW-17	900	4/18/2012		<	10	=	1,100	10	14
MCW-17	900	4/19/2012		<	10	=	1,100	10	16
MCW-17	900	4/20/2012		<	10	=	1,100	10	19
MCW-17	900	4/21/2012		<	10	=	1,100	10	22
MCW-17	900	4/22/2012		<	10	=	1,100	10	26
MCW-17	900	4/23/2012		<	10	=	1,100	10	30
MCW-17	-	4/24/2012◆	Dry	<	10	<	10	10	30
MCW-17	-	4/25/2012	Dry	<	10	<	10	10	30
MCW-17	-	4/26/2012	Dry	<	10	<	10	10	30
MCW-17	-	4/27/2012	Dry	<	10	<	10	10	30
MCW-17	-	4/28/2012	Dry	<	10	<	10	10	30
MCW-17	-	4/29/2012	Dry	<	10	<	10	10	30
MCW-17	-	4/30/2012	Dry	<	10	<	10	10	30
MCW-18	-	4/1/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/2/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/3/2012◆	Dry	<	10	<	10	10	10
MCW-18	-	4/4/2012	Dry	<	10	<	10	10	10

MCW-18	-	4/5/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/6/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/7/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/8/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/9/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/10/2012◆	Dry	<	10	<	10	10	10
MCW-18	-	4/11/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/12/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/13/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/14/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/15/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/16/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/17/2012◆	Dry	<	10	<	10	10	10
MCW-18	-	4/18/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/19/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/20/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/21/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/22/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/23/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/24/2012◆	Dry	<	10	<	10	10	10
MCW-18	-	4/25/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/26/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/27/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/28/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/29/2012	Dry	<	10	<	10	10	10
MCW-18	-	4/30/2012	Dry	<	10	<	10	10	10

## Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

◆Date of sampling

# county of ventura

**PUBLIC WORKS AGENCY**  
**JEFF PRATT**  
Agency Director

June 22, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

Watershed Protection District  
Interim Director

Transportation Department  
David Fleisch, Director

Engineering Services Department  
Phil Nelson, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of May 2012. Sites were sampled weekly on Tuesdays (May 1, 8, 15, 22, and 29). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Interim Director, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles



**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)	
				E. coli (235 MPN)	Fecal (400 MPN)
MCW-8b	1255	5/1/2012 ♦		= 40	= 230
MCW-8b	1100	5/8/2012 ♦		= 400	= 400
MCW-8b	1045	5/15/2012 ♦		= 500	= 700
MCW-8b	1030	5/22/2012 ♦		< 20	< 20
MCW-8b	1110	5/29/2012 ♦		< 20	< 20
MCW-9	-	5/1/2012 ♦		Dry	Dry
MCW-9	-	5/8/2012 ♦		Dry	Dry
MCW-9	-	5/15/2012 ♦		Dry	Dry
MCW-9	-	5/22/2012 ♦		Dry	Dry
MCW-9	-	5/29/2012 ♦		Dry	Dry
MCW-12	1050	5/1/2012 ♦		= 130	= 230
MCW-12	950	5/8/2012 ♦		= 130	= 130
MCW-12	930	5/15/2012 ♦		= 40	= 70
MCW-12	930	5/22/2012 ♦		= 70	= 70
MCW-12	1010	5/29/2012 ♦		= 80	= 80
MCW-14b	1020	5/1/2012 ♦		= 170	= 800
MCW-14b	920	5/8/2012 ♦		= 9,000	= 9,000
MCW-14b	910	5/15/2012 ♦		= 110	= 110
MCW-14b	910	5/22/2012 ♦		= 230	= 230
MCW-14b	945	5/29/2012 ♦		= 300	= 300
MCW-15c	1000	5/1/2012 ♦		= 20	= 40
MCW-15c	900	5/8/2012 ♦		= 20	= 20
MCW-15c	845	5/15/2012 ♦		= 40	= 40
MCW-15c	845	5/22/2012 ♦		= 130	= 130
MCW-15c	920	5/29/2012 ♦		= 220	= 500
MCW-17	-	5/1/2012 ♦		Dry	Dry
MCW-17	-	5/8/2012 ♦		Dry	Dry
MCW-17	-	5/15/2012 ♦		Dry	Dry
MCW-17	-	5/22/2012 ♦		Dry	Dry
MCW-17	-	5/29/2012 ♦		Dry	Dry
MCW-18	-	5/1/2012 ♦		Dry	Dry
MCW-18	-	5/8/2012 ♦		Dry	Dry
MCW-18	-	5/15/2012 ♦		Dry	Dry
MCW-18	-	5/22/2012 ♦		Dry	Dry
MCW-18	-	5/29/2012 ♦		Dry	Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

Location	Time	Date	Rain	Single (adjusted for rain, dry and NDs)		Sample		Geomean	
					E. coli (235 MPN)		Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)
MCW-8b	1255	5/1/2012♦		=	40	=	230	26	49
MCW-8b	1255	5/2/2012		=	40	=	230	25	49
MCW-8b	1255	5/3/2012		=	40	=	230	25	52
MCW-8b	1255	5/4/2012		=	40	=	230	25	55
MCW-8b	1255	5/5/2012		=	40	=	230	25	58
MCW-8b	1255	5/6/2012		=	40	=	230	25	62
MCW-8b	1255	5/7/2012		=	40	=	230	25	65
MCW-8b	1100	5/8/2012♦		=	400	=	400	27	71
MCW-8b	1100	5/9/2012		=	400	=	400	29	76
MCW-8b	1100	5/10/2012		=	400	=	400	32	86
MCW-8b	1100	5/11/2012		=	400	=	400	37	98
MCW-8b	1100	5/12/2012		=	400	=	400	42	110
MCW-8b	1100	5/13/2012		=	400	=	400	47	125
MCW-8b	1100	5/14/2012		=	400	=	400	53	141
MCW-8b	1045	5/15/2012♦		=	500	=	700	60	163
MCW-8b	1045	5/16/2012		=	500	=	700	69	187
MCW-8b	1045	5/17/2012		=	500	=	700	77	206
MCW-8b	1045	5/18/2012		=	500	=	700	85	227
MCW-8b	1045	5/19/2012		=	500	=	700	95	250
MCW-8b	1045	5/20/2012		=	500	=	700	106	274
MCW-8b	1045	5/21/2012		=	500	=	700	118	302
MCW-8b	1030	5/22/2012♦		<	10	<	10	115	288
MCW-8b	1030	5/23/2012		<	10	<	10	113	275
MCW-8b	1030	5/24/2012		<	10	<	10	107	248
MCW-8b	1030	5/25/2012		<	10	<	10	103	223
MCW-8b	1030	5/26/2012		<	10	<	10	98	201
MCW-8b	1030	5/27/2012		<	10	<	10	94	181
MCW-8b	1030	5/28/2012		<	10	<	10	89	163
MCW-8b	1110	5/29/2012♦		<	10	<	10	85	147
MCW-8b	1110	5/30/2012		<	10	<	10	81	132
MCW-8b	1110	5/31/2012		<	10	<	10	78	119
MCW-9	-	5/1/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	5/2/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/3/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/4/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/5/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/6/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/7/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/8/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	5/9/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/10/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/11/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/12/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/13/2012	Dry	<	10	<	10	10	10

MCW-9	-	5/14/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/15/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	5/16/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/17/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/18/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/19/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/20/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/21/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/22/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	5/23/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/24/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/25/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/26/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/27/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/28/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/29/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	5/30/2012	Dry	<	10	<	10	10	10
MCW-9	-	5/31/2012	Dry	<	10	<	10	10	10
MCW-12	1050	5/1/2012♦		=	130	=	230	60	89
MCW-12	1050	5/2/2012		=	130	=	230	62	94
MCW-12	1050	5/3/2012		=	130	=	230	63	96
MCW-12	1050	5/4/2012		=	130	=	230	63	99
MCW-12	1050	5/5/2012		=	130	=	230	63	101
MCW-12	1050	5/6/2012		=	130	=	230	64	104
MCW-12	1050	5/7/2012		=	130	=	230	64	106
MCW-12	950	5/8/2012♦		=	130	=	130	65	107
MCW-12	950	5/9/2012		=	130	=	130	65	107
MCW-12	950	5/10/2012		=	130	=	130	71	117
MCW-12	950	5/11/2012		=	130	=	130	77	127
MCW-12	950	5/12/2012		=	130	=	130	84	139
MCW-12	950	5/13/2012		=	130	=	130	91	151
MCW-12	950	5/14/2012		=	130	=	130	100	165
MCW-12	930	5/15/2012♦		=	40	=	70	104	176
MCW-12	930	5/16/2012		=	40	=	70	109	187
MCW-12	930	5/17/2012		=	40	=	70	107	179
MCW-12	930	5/18/2012		=	40	=	70	104	172
MCW-12	930	5/19/2012		=	40	=	70	102	164
MCW-12	930	5/20/2012		=	40	=	70	100	157
MCW-12	930	5/21/2012		=	40	=	70	97	151
MCW-12	930	5/22/2012♦		=	70	=	70	97	144
MCW-12	930	5/23/2012		=	70	=	70	96	138
MCW-12	930	5/24/2012		=	70	=	70	94	133
MCW-12	930	5/25/2012		=	70	=	70	92	128
MCW-12	930	5/26/2012		=	70	=	70	90	124
MCW-12	930	5/27/2012		=	70	=	70	88	119
MCW-12	930	5/28/2012		=	70	=	70	86	115
MCW-12	1010	5/29/2012♦		=	80	=	80	84	111
MCW-12	1010	5/30/2012		=	80	=	80	83	108
MCW-12	1010	5/31/2012		=	80	=	80	81	104



MCW-14b	1020	5/1/2012♦	=	170	=	800	192	355
MCW-14b	1020	5/2/2012	=	170	=	800	206	401
MCW-14b	1020	5/3/2012	=	170	=	800	204	418
MCW-14b	1020	5/4/2012	=	170	=	800	202	436
MCW-14b	1020	5/5/2012	=	170	=	800	200	454
MCW-14b	1020	5/6/2012	=	170	=	800	198	474
MCW-14b	1020	5/7/2012	=	170	=	800	196	494
MCW-14b	920	5/8/2012♦	=	9,000	=	9,000	221	558
MCW-14b	920	5/9/2012	=	9,000	=	9,000	250	630
MCW-14b	920	5/10/2012	=	9,000	=	9,000	283	713
MCW-14b	920	5/11/2012	=	9,000	=	9,000	320	807
MCW-14b	920	5/12/2012	=	9,000	=	9,000	362	914
MCW-14b	920	5/13/2012	=	9,000	=	9,000	410	1,034
MCW-14b	920	5/14/2012	=	9,000	=	9,000	464	1,170
MCW-14b	910	5/15/2012♦	=	110	=	110	453	1,144
MCW-14b	910	5/16/2012	=	110	=	110	443	1,117
MCW-14b	910	5/17/2012	=	110	=	110	443	1,109
MCW-14b	910	5/18/2012	=	110	=	110	443	1,100
MCW-14b	910	5/19/2012	=	110	=	110	443	1,091
MCW-14b	910	5/20/2012	=	110	=	110	443	1,082
MCW-14b	910	5/21/2012	=	110	=	110	443	1,073
MCW-14b	910	5/22/2012♦	=	230	=	230	454	1,091
MCW-14b	910	5/23/2012	=	230	=	230	465	1,110
MCW-14b	910	5/24/2012	=	230	=	230	459	1,019
MCW-14b	910	5/25/2012	=	230	=	230	453	935
MCW-14b	910	5/26/2012	=	230	=	230	447	858
MCW-14b	910	5/27/2012	=	230	=	230	441	788
MCW-14b	910	5/28/2012	=	230	=	230	436	723
MCW-14b	945	5/29/2012♦	=	300	=	300	434	670
MCW-14b	945	5/30/2012	=	300	=	300	432	620
MCW-14b	945	5/31/2012	=	300	=	300	440	600
MCW-15c	1000	5/1/2012♦	=	20	=	40	60	82
MCW-15c	1000	5/2/2012	=	20	=	40	61	75
MCW-15c	1000	5/3/2012	=	20	=	40	58	73
MCW-15c	1000	5/4/2012	=	20	=	40	56	72
MCW-15c	1000	5/5/2012	=	20	=	40	53	70
MCW-15c	1000	5/6/2012	=	20	=	40	51	68
MCW-15c	1000	5/7/2012	=	20	=	40	48	67
MCW-15c	900	5/8/2012♦	=	20	=	20	46	64
MCW-15c	900	5/9/2012	=	20	=	20	44	61
MCW-15c	900	5/10/2012	=	20	=	20	42	59
MCW-15c	900	5/11/2012	=	20	=	20	41	56
MCW-15c	900	5/12/2012	=	20	=	20	39	54
MCW-15c	900	5/13/2012	=	20	=	20	37	52
MCW-15c	900	5/14/2012	=	20	=	20	36	50
MCW-15c	845	5/15/2012♦	=	40	=	40	35	49
MCW-15c	845	5/16/2012	=	40	=	40	35	48
MCW-15c	845	5/17/2012	=	40	=	40	35	48
MCW-15c	845	5/18/2012	=	40	=	40	36	48

MCW-15c	845	5/19/2012		=	40	=	40	37	48
MCW-15c	845	5/20/2012		=	40	=	40	38	48
MCW-15c	845	5/21/2012		=	40	=	40	39	48
MCW-15c	845	5/22/2012♦		=	130	=	130	41	50
MCW-15c	845	5/23/2012		=	130	=	130	44	52
MCW-15c	845	5/24/2012		=	130	=	130	43	51
MCW-15c	845	5/25/2012		=	130	=	130	43	51
MCW-15c	845	5/26/2012		=	130	=	130	43	50
MCW-15c	845	5/27/2012		=	130	=	130	42	50
MCW-15c	845	5/28/2012		=	130	=	130	42	49
MCW-15c	920	5/29/2012♦		=	220	=	500	42	51
MCW-15c	920	5/30/2012		=	220	=	500	43	53
MCW-15c	920	5/31/2012		=	220	=	500	46	58
MCW-17	-	5/1/2012♦	Dry	<	10	<	10	10	30
MCW-17	-	5/2/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/3/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/4/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/5/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/6/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/7/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/8/2012♦	Dry	<	10	<	10	10	30
MCW-17	-	5/9/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/10/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/11/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/12/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/13/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/14/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/15/2012♦	Dry	<	10	<	10	10	30
MCW-17	-	5/16/2012	Dry	<	10	<	10	10	30
MCW-17	-	5/17/2012	Dry	<	10	<	10	10	26
MCW-17	-	5/18/2012	Dry	<	10	<	10	10	22
MCW-17	-	5/19/2012	Dry	<	10	<	10	10	19
MCW-17	-	5/20/2012	Dry	<	10	<	10	10	16
MCW-17	-	5/21/2012	Dry	<	10	<	10	10	14
MCW-17	-	5/22/2012♦	Dry	<	10	<	10	10	12
MCW-17	-	5/23/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/24/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/25/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/26/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/27/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/28/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/29/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	5/30/2012	Dry	<	10	<	10	10	10
MCW-17	-	5/31/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/1/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	5/2/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/3/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/4/2012	Dry	<	10	<	10	10	10

MCW-18	-	5/5/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/6/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/7/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/8/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	5/9/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/10/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/11/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/12/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/13/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/14/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/15/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	5/16/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/17/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/18/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/19/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/20/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/21/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/22/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	5/23/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/24/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/25/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/26/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/27/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/28/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/29/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	5/30/2012	Dry	<	10	<	10	10	10
MCW-18	-	5/31/2012	Dry	<	10	<	10	10	10

## Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

# county of ventura

**PUBLIC WORKS AGENCY**  
**JEFF PRATT**  
Agency Director

July 23, 2012

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013  
(213) 576-6780

Watershed Protection District  
Interim Director

Transportation Department  
David Fleisch, Director

Engineering Services Department  
Phil Nelson, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of June 2012. Sites were sampled weekly on Tuesdays (June 5, 12, 19, and 26). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). Weeks with wet weather samples (collected less than 72 hours after a day with > 0.1" rain) use the previous non-rain single sample value to calculate the geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner  
Deputy Director, Watershed Protection District

CC: Interim Director, Watershed Protection District  
✓ Ewelina Mutkowska, County of Ventura  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, County of Los Angeles



**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)		
				E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	-	6/5/2012 ♦		Dry		Dry
MCW-8b	-	6/12/2012 ♦		Dry		Dry
MCW-8b	-	6/19/2012 ♦		Dry		Dry
MCW-8b	-	6/26/2012 ♦		Dry		Dry
MCW-9	-	6/5/2012 ♦		Dry		Dry
MCW-9	-	6/12/2012 ♦		Dry		Dry
MCW-9	-	6/19/2012 ♦		Dry		Dry
MCW-9	-	6/26/2012 ♦		Dry		Dry
MCW-12	950	6/5/2012 ♦	=	70	=	70
MCW-12	945	6/12/2012 ♦	=	500	=	1,700
MCW-12	950	6/19/2012 ♦	=	60	=	60
MCW-12	935	6/26/2012 ♦	=	170	=	170
MCW-14b	930	6/5/2012 ♦	=	500	=	800
MCW-14b	920	6/12/2012 ♦	=	300	=	300
MCW-14b	920	6/19/2012 ♦	=	140	=	270
MCW-14b	910	6/26/2012 ♦	=	500	=	500
MCW-15c	900	6/5/2012 ♦	=	300	=	300
MCW-15c	900	6/12/2012 ♦	=	80	=	220
MCW-15c	900	6/19/2012 ♦	=	80	=	80
MCW-15c	850	6/26/2012 ♦	<	20	<	20
MCW-17	-	6/5/2012 ♦		Dry		Dry
MCW-17	-	6/12/2012 ♦		Dry		Dry
MCW-17	-	6/19/2012 ♦		Dry		Dry
MCW-17	-	6/26/2012 ♦		Dry		Dry
MCW-18	-	6/5/2012 ♦		Dry		Dry
MCW-18	-	6/12/2012 ♦		Dry		Dry
MCW-18	-	6/19/2012 ♦		Dry		Dry
MCW-18	-	6/26/2012 ♦		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling

**Table 2. Computation of daily geomean**

				Single Sample (adjusted for rain, dry and NDs)			Geomean		
Location	Time	Date	Rain		E. coli		Fecal	E. coli	Fecal
					(235 MPN)		(400 MPN)	(126 MPN)	(200 MPN)
MCW-8b	1110	6/1/2012		<	10	<	10	74	107
MCW-8b	1110	6/2/2012		<	10	<	10	71	97
MCW-8b	1110	6/3/2012		<	10	<	10	68	87
MCW-8b	1110	6/4/2012		<	10	<	10	65	79
MCW-8b	-	6/5/2012◆	Dry	<	10	<	10	62	71
MCW-8b	-	6/6/2012	Dry	<	10	<	10	59	64
MCW-8b	-	6/7/2012	Dry	<	10	<	10	52	56
MCW-8b	-	6/8/2012	Dry	<	10	<	10	46	50
MCW-8b	-	6/9/2012	Dry	<	10	<	10	41	44
MCW-8b	-	6/10/2012	Dry	<	10	<	10	36	39
MCW-8b	-	6/11/2012	Dry	<	10	<	10	32	34
MCW-8b	-	6/12/2012◆	Dry	<	10	<	10	28	30
MCW-8b	-	6/13/2012	Dry	<	10	<	10	25	27
MCW-8b	-	6/14/2012	Dry	<	10	<	10	22	23
MCW-8b	-	6/15/2012	Dry	<	10	<	10	19	20
MCW-8b	-	6/16/2012	Dry	<	10	<	10	17	18
MCW-8b	-	6/17/2012	Dry	<	10	<	10	15	15
MCW-8b	-	6/18/2012	Dry	<	10	<	10	13	13
MCW-8b	-	6/19/2012◆	Dry	<	10	<	10	11	12
MCW-8b	-	6/20/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/21/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/22/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/23/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/24/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/25/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/26/2012◆	Dry	<	10	<	10	10	10
MCW-8b	-	6/27/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/28/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/29/2012	Dry	<	10	<	10	10	10
MCW-8b	-	6/30/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/1/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/2/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/3/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/4/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/5/2012◆	Dry	<	10	<	10	10	10
MCW-9	-	6/6/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/7/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/8/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/9/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/10/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/11/2012	Dry	<	10	<	10	10	10
MCW-9		6/12/2012◆	Dry	<	10	<	10	10	10
MCW-9	-	6/13/2012	Dry	<	10	<	10	10	10



MCW-9	-	6/14/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/15/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/16/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/17/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/18/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/19/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	6/20/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/21/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/22/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/23/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/24/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/25/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/26/2012♦	Dry	<	10	<	10	10	10
MCW-9	-	6/27/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/28/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/29/2012	Dry	<	10	<	10	10	10
MCW-9	-	6/30/2012	Dry	<	10	<	10	10	10
MCW-12	1010	6/1/2012		=	80	=	80	80	100
MCW-12	1010	6/2/2012		=	80	=	80	79	97
MCW-12	1010	6/3/2012		=	80	=	80	78	94
MCW-12	1010	6/4/2012		=	80	=	80	76	90
MCW-12	950	6/5/2012♦		=	70	=	70	75	87
MCW-12	950	6/6/2012		=	70	=	70	73	83
MCW-12	950	6/7/2012		=	70	=	70	72	82
MCW-12	950	6/8/2012		=	70	=	70	70	80
MCW-12	950	6/9/2012		=	70	=	70	69	78
MCW-12	950	6/10/2012		=	70	=	70	67	77
MCW-12	950	6/11/2012		=	70	=	70	66	75
MCW-12	945	6/12/2012♦		=	500	=	1,700	69	82
MCW-12	945	6/13/2012		=	500	=	1,700	72	89
MCW-12	945	6/14/2012		=	500	=	1,700	79	99
MCW-12	945	6/15/2012		=	500	=	1,700	86	110
MCW-12	945	6/16/2012		=	500	=	1,700	93	123
MCW-12	945	6/17/2012		=	500	=	1,700	101	137
MCW-12	945	6/18/2012		=	500	=	1,700	110	152
MCW-12	950	6/19/2012♦		=	60	=	60	112	151
MCW-12	950	6/20/2012		=	60	=	60	113	150
MCW-12	950	6/21/2012		=	60	=	60	113	150
MCW-12	950	6/22/2012		=	60	=	60	112	149
MCW-12	950	6/23/2012		=	60	=	60	111	148
MCW-12	950	6/24/2012		=	60	=	60	111	147
MCW-12	950	6/25/2012		=	60	=	60	110	147
MCW-12	935	6/26/2012♦		=	170	=	170	114	151
MCW-12	935	6/27/2012		=	170	=	170	117	156
MCW-12	935	6/28/2012		=	170	=	170	120	160
MCW-12	935	6/29/2012		=	170	=	170	123	164
MCW-12	935	6/30/2012		=	170	=	170	126	168

MCW-14b	945	6/1/2012	=	300	=	300	449	581
MCW-14b	945	6/2/2012	=	300	=	300	457	562
MCW-14b	945	6/3/2012	=	300	=	300	466	544
MCW-14b	945	6/4/2012	=	300	=	300	475	527
MCW-14b	930	6/5/2012♦	=	500	=	800	492	527
MCW-14b	930	6/6/2012	=	500	=	800	510	527
MCW-14b	930	6/7/2012	=	500	=	800	464	486
MCW-14b	930	6/8/2012	=	500	=	800	421	448
MCW-14b	930	6/9/2012	=	500	=	800	382	413
MCW-14b	930	6/10/2012	=	500	=	800	347	381
MCW-14b	930	6/11/2012	=	500	=	800	315	352
MCW-14b	920	6/12/2012♦	=	300	=	300	282	314
MCW-14b	920	6/13/2012	=	300	=	300	251	280
MCW-14b	920	6/14/2012	=	300	=	300	260	290
MCW-14b	920	6/15/2012	=	300	=	300	269	300
MCW-14b	920	6/16/2012	=	300	=	300	278	310
MCW-14b	920	6/17/2012	=	300	=	300	287	321
MCW-14b	920	6/18/2012	=	300	=	300	297	332
MCW-14b	920	6/19/2012♦	=	140	=	270	300	342
MCW-14b	920	6/20/2012	=	140	=	270	302	352
MCW-14b	920	6/21/2012	=	140	=	270	297	354
MCW-14b	920	6/22/2012	=	140	=	270	292	356
MCW-14b	920	6/23/2012	=	140	=	270	287	358
MCW-14b	920	6/24/2012	=	140	=	270	283	360
MCW-14b	920	6/25/2012	=	140	=	270	278	362
MCW-14b	910	6/26/2012♦	=	500	=	500	285	371
MCW-14b	910	6/27/2012	=	500	=	500	293	381
MCW-14b	910	6/28/2012	=	500	=	500	298	387
MCW-14b	910	6/29/2012	=	500	=	500	303	394
MCW-14b	910	6/30/2012	=	500	=	500	308	401
MCW-15c	920	6/1/2012	=	220	=	500	50	63
MCW-15c	920	6/2/2012	=	220	=	500	54	68
MCW-15c	920	6/3/2012	=	220	=	500	59	74
MCW-15c	920	6/4/2012	=	220	=	500	64	81
MCW-15c	900	6/5/2012♦	=	300	=	300	70	86
MCW-15c	900	6/6/2012	=	300	=	300	76	92
MCW-15c	900	6/7/2012	=	300	=	300	83	101
MCW-15c	900	6/8/2012	=	300	=	300	91	111
MCW-15c	900	6/9/2012	=	300	=	300	100	121
MCW-15c	900	6/10/2012	=	300	=	300	109	133
MCW-15c	900	6/11/2012	=	300	=	300	120	145
MCW-15c	900	6/12/2012♦	=	80	=	220	125	157
MCW-15c	900	6/13/2012	=	80	=	220	131	170
MCW-15c	900	6/14/2012	=	80	=	220	134	180
MCW-15c	900	6/15/2012	=	80	=	220	138	191
MCW-15c	900	6/16/2012	=	80	=	220	141	202
MCW-15c	900	6/17/2012	=	80	=	220	144	214
MCW-15c	900	6/18/2012	=	80	=	220	147	226

MCW-15c	900	6/19/2012♦		=	80	=	80	151	231
MCW-15c	900	6/20/2012		=	80	=	80	154	237
MCW-15c	900	6/21/2012		=	80	=	80	152	233
MCW-15c	900	6/22/2012		=	80	=	80	150	229
MCW-15c	900	6/23/2012		=	80	=	80	147	226
MCW-15c	900	6/24/2012		=	80	=	80	145	222
MCW-15c	900	6/25/2012		=	80	=	80	142	218
MCW-15c	850	6/26/2012♦		<	10	<	10	131	201
MCW-15c	850	6/27/2012		<	10	<	10	120	184
MCW-15c	850	6/28/2012		<	10	<	10	108	162
MCW-15c	850	6/29/2012		<	10	<	10	98	142
MCW-15c	850	6/30/2012		<	10	<	10	88	124
MCW-17	-	6/1/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/2/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/3/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/4/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/5/2012♦	Dry	<	10	<	10	10	30
MCW-17	-	6/6/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/7/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/8/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/9/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/10/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/11/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/12/2012♦	Dry	<	10	<	10	10	30
MCW-17	-	6/13/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/14/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/15/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/16/2012	Dry	<	10	<	10	10	30
MCW-17	-	6/17/2012	Dry	<	10	<	10	10	26
MCW-17	-	6/18/2012	Dry	<	10	<	10	10	22
MCW-17	-	6/19/2012♦	Dry	<	10	<	10	10	19
MCW-17	-	6/20/2012	Dry	<	10	<	10	10	16
MCW-17	-	6/21/2012	Dry	<	10	<	10	10	14
MCW-17	-	6/22/2012	Dry	<	10	<	10	10	12
MCW-17	-	6/23/2012	Dry	<	10	<	10	10	10
MCW-17	-	6/24/2012	Dry	<	10	<	10	10	10
MCW-17	-	6/25/2012	Dry	<	10	<	10	10	10
MCW-17	-	6/26/2012♦	Dry	<	10	<	10	10	10
MCW-17	-	6/27/2012	Dry	<	10	<	10	10	10
MCW-17	-	6/28/2012	Dry	<	10	<	10	10	10
MCW-17	-	6/29/2012	Dry	<	10	<	10	10	10
MCW-17	-	6/30/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/1/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/2/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/3/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/4/2012	Dry	<	10	<	10	10	10

MCW-18	-	6/5/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	6/6/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/7/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/8/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/9/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/10/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/11/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/12/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	6/13/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/14/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/15/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/16/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/17/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/18/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/19/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	6/20/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/21/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/22/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/23/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/24/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/25/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/26/2012♦	Dry	<	10	<	10	10	10
MCW-18	-	6/27/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/28/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/29/2012	Dry	<	10	<	10	10	10
MCW-18	-	6/30/2012	Dry	<	10	<	10	10	10

## Notes:

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

\* The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦ Date of sampling