



*Robert Bein, William Frost & Associates*

PROFESSIONAL ENGINEERS, PLANNERS & SURVEYORS

***BI-WEEKLY CONFERENCE CALL  
DRAFT AGENDA***

DATE: April 13, 2000 Thursday  
TIME: 10:00 am – 12 noon  
PLACE: RBF, Irvine or via phone (916-657-4102)  
ATTENDEES: Rich Horner/Chris May, Jeremy Johnstone, Rick Graff, Bruce Reznik, Steve Fleischli, Bob Wu, Steve Borroum, Brian Currier, Cid Tesoro, Sayra Ramos, Lanny Chronert, Pete Van Riper, Richard Gordon, Dean Messer, Brown and Caldwell, Montgomery Watson/Law, KLI, RBF  
COPIES TO: File 34123, 34218  
SUBJECT: BMP Pilot Study Status

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**AGENDA ITEMS**

1. Non-stormwater Runoff Inspections
  - a. Biweekly Update
  - b. I-5/Machester EDB Investigation
2. CDS sites:
  - a. Construction Status
  - b. Equipment Installation Schedule
3. Metro and Paxton sites:
  - a. Design Schedule
  - b. Construction Schedule
4. Vector Issues
  - a. Biweekly Vector Issues Update
  - b. MCTT Vector Issues/DHS Update
5. Environmental/Biological Survey
  - a. Biweekly Environmental Update
  - b. Pocket Gopher Issues
6. Monitoring Issues:
  - a. 48-hour Dry Period Criterion Revised Proposal
  - b. Aliquot/Percent Capture Minimum Goals and Qualified Data Acceptance Criteria
7. District 7 Operation/Maintenance (OMM) Status Activities
8. District 11 Operation/Maintenance (OMM) Status Activities
9. Maintenance Indicator Document (MID) version 13a
10. Cost Workgroup Update

>>Next call: April 27, 2000 Thursday 10AM<<



# **BMP Pilot Studies**

## **Bi-weekly Status Report**

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**BMP Pilot Projects in District 7 and District 11**

**April 7, 2000**

**Robert Bein, William Frost & Associates**

(Contributing Authors: Brown and Caldwell, Montgomery  
Watson Chaudhary/Law Crandall, Kinnetic Laboratories, Dudek  
and Associates, Larry Walker and Associates, and UCR)

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- Attachment 1: PS&E Location 3, I-5/La Costa Ave Infiltration Basin – Water Surface Elevation Summary
- Attachment 2: Letter from Dudek and Associates Regarding Reassessment of Botta's Pocket Gopher Issues Pertaining to BMP Study
- Attachment 3: Preliminary Water Quality Data

**ACTIVITY DESCRIBED IN THIS BIWEEKLY COVERS THE PERIOD FROM  
 MARCH 25, 2000 – APRIL 7, 2000**

**NON-STORMWATER RUNOFF INSPECTIONS**

Non-stormwater Weekly Inspections have been discontinued at all locations. Should non-stormwater discharge be noted during routine inspections, weekly non-stormwater discharge inspections will resume. NEED TO UPDATE THIS.

Weekly inspections have been performed at the sites where non-stormwater runoff was previously noted. The following table summarizes when non-stormwater runoff was noted at the sites inspected.

Week of	KLI Sites – D11		
	15/78 EDB	5/78 P&R MF	Carlsbad MS BioStrip + Trench
April 3	Y	Y	Y

Y – Non-stormwater runoff was observed

**District 7 BMP Pilot Sites**

**I-605/SR-91 Interchange Infiltration Basin (Site ID 73101) MW/Law**

*Monitoring/Sampling Activities*

3/30/00: Replaced desiccant cartridges.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

3/30/00: Began pulling weeds greater than 12 inches tall, repairing erosion on the north side slope, compacting gopher holes, and removing trash and debris.

3/31/00: Completed activities that were started on 3/30/00

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None this period.

**605/91 Infiltration Basin Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.09	N	N	NA	NA	N
12/31/99	0.52	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.55	Y	Y	NA	NA	Y
1/30-31/00	0.25	N	N	NA	NA	N
2/10-11/00	0.26	N	N	NA	NA	N
2/12-14/00	1.14	Y	Y	NA	NA	Y
2/16/00	0.62	Y	Y	NA	NA	Y
2/20-21/00	2.14	Y	Y	NA	NA	Y
2/23/00	0.98	N	N	NA	NA	N
2/27/00	0.16	Y	Y	NA	NA	Y
3/3-4/00	0.40	N	N	NA	NA	N
3/5-6/00	1.01	Y	Y	NA	NA	Y
3/7-8/00	0.83	Y	Y	NA	NA	Y

**I-210/East of Orcas Avenue Continuous Deflective Separators (Site ID 73102) MW/Law**

*Status*

First day of construction was Jan. 28, 2000. Construction is complete. Walk-thru and Punch List development is scheduled for April 7.

*Issues / Solutions*

The contract plans specify the use of 5/8 inch bolts, nuts, and washers to be used for securing the Unistrut frame to the flume approach section and concrete pad. This size is just slightly larger than the size of the slots in the Unistrut frame. The hardware used for the similar setups at the Litter Management Pilots was checked, and 1/2 inch hardware was used there. The Contractor was therefore directed to use 1/2 inch bolts, nuts, and washers.

Estimated cost of CCO for this site - \$0.

**I-210/East of Filmore Street Continuous Deflective Separators (Site ID 73103) MW/Law**

*Status*

First day of construction was Jan. 28, 2000. Construction is complete. Walk-thru and Punch List development is scheduled for April 7.

*Issues / Solutions*

The contract plans specify the use of 5/8 inch bolts, nuts, and washers to be used for securing the Unistrut frame to the flume approach section and concrete pad. This size is just slightly larger than the size of the slots in the Unistrut frame. The hardware used for the similar setups at the Litter Management Pilots was checked, and 1/2 inch hardware was used there. The Contractor was therefore directed to use 1/2 inch bolts, nuts, and washers.

Estimated cost of CCO for this site - \$0.

**Design/Construction Schedule for CDS Units – PS&E Process**

<b>Activities</b>	<b>Scheduled Dates</b>	<b>Actual Dates</b>	<b>Duration (calendar weeks)</b>
Obtain EA	06/01/99	06/04/99	
Begin Clearance	06/21/99	06/28/99	
Obtain District Clearances/To Santa Ana	07/26/99	09/14/99	4
End Santa Ana Review, Advertise, and Bid Opening	12/07/99	11/16/99	12
Award Contract	12/14/99	12/14/99	4
Begin Construction	02/01/00	01/28/00	4
Complete Construction	04/13/00		8
Fully Operational	04/27/00		2

**District 7 CDS Sites Construction Cost Summary**

<b>Location</b>	<b>First Working Day</b>	<b>Scheduled Completion Date</b>	<b>Adjusted Completion Date</b>	<b>Bid Amount</b>	<b>Estimated CCOs</b>	<b>State Furnished Material</b>	<b>Estimated Total Final Cost<sup>1</sup></b>
I-210 East Orcas Ave.	1/28/99	3/31/00	4/17/00	\$47,263	CCO No. 2 = \$500 CMP Tee coupler and flange  CCO No. 3 = No Cost Using 1/2 inch Unistrut Assembly hardware instead of 5/8 inch hardware	\$13,401 (CDS unit) \$3,523 (flume approach) \$529 (flume)	\$65,216
I-210/East of Filmore Ave.	1/28/99	3/31/00	4/17/00	Included in Orcas	CCO No. 1 = No Cost for relocation of chain link gate from east to west.  CCO No. 2 = \$500 CMP Tee coupler and flange  CCO No. 3 = No Cost Using 1/2 inch Unistrut Assembly hardware instead of 5/8 inch hardware	\$13,401 (CDS unit) \$3,750 (flume approach) \$593 (flume)	\$18,244
<b>Total CDS Sites</b>				<b>\$47,263</b>	<b>\$1,000</b>	<b>\$35,197</b>	<b>\$83,460</b>

<sup>1</sup> Including CCO and state-furnished material.

**I-5/I-605 Extended Detention Basin (Site ID 74101) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: Site inspection was conducted; no maintenance required; average grass height is approximately 16 inches in length with some varieties over 18 inches.

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**5/605 EDB Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.17	N	N	NA	NA	N
12/31/99	0.21	N	N	NA	NA	N
1/16/00	0.01	N	N	NA	NA	N
1/25/00	0.56	Y	Y	N	N	Y
1/30-31/00	0.35	N	N	NA	NA	N
2/10-11/00	0.51	N	N	NA	NA	N
2/12-14/00	0.98	N	N	NA	NA	N
2/16/00	0.65	N	N	NA	NA	N
2/20-21/00	2.29	Y	Y	Y	Y	Y
2/23/00	1.06	N	N	NA	NA	N
2/27/00	0.21	Y	Y	Y	Y	Y
3/8/00	0.96	Y	Y	Y	Y	Y

**I-605/SR-91 Extended Detention Basin (Site ID 74102) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: Site inspection was conducted; no maintenance required; average grass length is 16 inches.

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**605/91 EDB Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.08	N	N	NA	NA	N
12/31/99	0.41	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.48	Y	Y	N	N	Y
1/30-31/00	0.18	N	N	NA	NA	N
2/10-11/00	0.46	N	N	NA	NA	N
2/12-14/00	1.07	N	N	NA	NA	N
2/16/00	0.45	N	N	NA	NA	N
2/20-21/00	1.73	Y	Y	Y	Y	Y
2/23/00	0.19	N	N	NA	NA	N
2/27/00	0.04	Y	Y	Y	Y	Y
3/8/00	0.82	Y	Y	Y	Y	Y

**Paxton Maintenance Station Media Filter (Site ID 74103) BC**

**Metro Maintenance Station Multi-Chamber Treatment Train (Site ID 74104) BC**

*Status*

Both Paxton and Metro plans and specifications continue moving forward to District clearance.

*Schedule*

<b>Action</b>	<b>Duration</b>	<b>Milestone</b>	<b>Estimated Completion Date</b>
Incorporate preliminary Structures and D7OE review comments;		Submit entire PS&E package	3/8/00 (actual)
Structures and D7OE Review	2.5 weeks		
		Receive comments from Structures and D7OE	3/24/00
Consultant revise PS&E	1.5 weeks		
		Submit final to D7	4/5/00
D7 process and format PS&E	4 weeks		
		D7 submit to HQ	5/3/00
HQ review and processing; advertise contract	12 – 16 weeks		
		Advertise contract	7/26/00
Bid Period and evaluate bids	5 weeks		
		Notice to Proceed	8/30/00
Construction	16 weeks		
		Construction complete	12/20/00

**Alameda Maintenance Station Oil Water Separator (Site ID 74201) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: The weekly site inspection was conducted. No maintenance required. The inspection ports were loosened sufficiently for easy access (as requested by Greater Los Angeles Vector Control District personnel for inspection of the tank).

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**Alameda MS OWS Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.38	N	N	NA	NA	N
12/31/99	0.11	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.51	Y	Y	NA*	N	Y
1/30-31/00	0.25	N	N	NA	NA	N
2/10-11/00	0.31	N	N	NA	NA	N
2/12-14/00	1.05	N	N	NA	NA	N
2/16/00	0.79	N	N	NA	NA	N
2/20-21/00	1.73	Y	Y	NA*	Y	Y
2/23/00	1.40	N	N	NA	NA	N
2/27/00	0.20	Y	Y	NA*	Y	Y
3/8/00	0.68	Y	Y	NA*	Y	Y

\* The Alameda site is an Oil/Water Separator and does not have a composite sampler (as do the other BMP's).

**Eastern Regional Maintenance Station Media Filter - Sand(Site ID 74202) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: Site inspection was conducted; no maintenance required; average grass length is 16 inches.

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**Eastern MS Media Filter Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.15	N	N	NA	NA	N
12/31/99	0.27	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.71	Y	Y	N	N	Y
1/30-31/00	0.20	N	N	NA	NA	N
2/10-11/00	0.49	N	N	NA	NA	N
2/12-14/00	1.51	N	N	NA	NA	N
2/16/00	0.72	N	N	NA	NA	N
2/20-21/00	2.35	Y	Y	Y	Y	Y
2/23/00	1.44	N	N	NA	NA	N
2/27/00	0.33	Y	Y	Y	Y	Y
3/8/00	1.21	Y	Y	Y	Y	Y

**Foothill Maintenance Station Media Filter – Sand (Site ID 74203) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: Site inspection was conducted; no maintenance required.

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**Foothill MS MF Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.1	N	N	NA	NA	N
12/31/99	0.28	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.68	Y	Y	N	N	Y
1/30-31/00	0.34	N	N	NA	NA	N
2/10-11/00	0.78	N	N	NA	NA	N
2/12-14/00	1.42	N	N	NA	NA	N
2/16/00	0.91	N	N	NA	NA	N
2/20-21/00	2.95	Y	Y	Y	Y	Y
2/23/00	1.59	N	N	NA	NA	N
2/27/00	0.49	Y	Y	Y	Y	Y
3/8/00	0.80	Y	Y	Y	Y	Y

**Termination Park and Ride Media Filter – Sand (Site ID 74204) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: A site inspection was conducted; no maintenance required.

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**Termination PR MF Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.15	N	N	NA	NA	N
12/31/99	0.10	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.61	Y	Y	N	N	Y
1/30-31/00	1.13	N	N	NA	NA	N
2/10-11/00	0.21	N	N	NA	NA	N
2/12-14/00	0.95	N	N	NA	NA	N
2/16/00	0.66	N	N	NA	NA	N
2/20-21/00	2.16	Y	Y	Y	Y	Y
2/23/00	1.01	N	N	NA	NA	N
2/27/00	0.15	Y	Y	Y	Y	Y
3/8/00	0.94	Y	Y	Y	Y	Y

**Via Verde Park and Ride MCTT (Site ID 74206) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: Weekly site inspection was conducted; no maintenance required.

*Vector Activities*

None noted during routine inspection.

*Issues/Solutions*

None this period.

**Via Verde PR MCTT Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.14	N	N	NA	NA	N
12/31/99	0.35	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.88	Y	Y	N	N	Y
1/30-31/00	0.34	N	N	NA	NA	N
2/10-11/00	0.90	N	N	NA	NA	N
2/12-14/00	1.02	N	N	NA	NA	N
2/16/00	1.15	N	N	NA	NA	N
2/20-21/00	2.52	Y	Y	Y	Y	Y
2/23/00	1.47	N	N	NA	NA	N
2/27/00	0.40	Y	Y	Y	Y	Y
3/8/00	0.75	Y	Y	Y	Y	Y

**Lakewood Park and Ride MCTT (Site ID 74208) Brown and Caldwell**

*Monitoring/Sampling Activities*

None to report this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

April 3: The weekly site inspection was conducted. No maintenance required at this time.

*Vector Activities*

The site was found breeding during this period. The site was abated with Altosid liquid on March 31, 2000.

*Issues/Solutions*

None this period.

**Lakewood PR MCTT Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.17	N	N	NA	NA	N
12/31/99	0.06	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.53	Y	Y	N	N	Y
1/30-31/00	0.32	N	N	NA	NA	N
2/10-11/00	0.34	N	N	NA	NA	N
2/12-14/00	0.46	N	N	NA	NA	N
2/16/00	0.55	N	N	NA	NA	N
2/20-21/00	1.89	Y	Y	Y	Y	Y
2/23/00	1.06	N	N	NA	NA	N
2/27/00	0.14	Y	Y	Y	Y	Y
3/8/00	0.98	Y	Y	Y	Y	Y

**Altadena Maintenance Station Bio Strip and Infiltration Trench  
 (Site ID 73211 a, b) MW/Law**

*Monitoring/Sampling Activities*

3/23/00: Replaced desiccant cartridges.

3/24/00 through 4/7/00: Data was downloaded from the monitoring equipment.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

3/23/00: Removed weeds greater than 12 inches tall, covered a small exposed section beneath the north wall of the Infiltration Trench with gravel, and removed trash and debris.

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None

**Altadena MS Bio Strip and Infiltration Trench Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.19	N	N	NA	NA	N
12/31/99	0.25	N	N	NA	NA	N
1/16/00	0.04	N	N	NA	NA	N
1/25/00	0.45	Y	Y	Y	Y	Y
1/30-31/00	0.83	N	N	NA	NA	N
2/10-11/00	0.27	N	N	NA	NA	N
2/12-14/00	0.76	N	N	NA	NA	N
2/16/00	0.90	Y	Y	Y	N	Y
2/20-21/00	3.11	Y	Y	Y	N	Y
2/23/00	1.84	N	N	NA	NA	N
2/27/00	0.77	Y	Y	Y	Y	Y
3/3-4/00	0.40	N	N	NA	NA	N
3/5-6/00	1.01	N	N	NA	NA	Y
3/7-8/00	0.83	Y	Y	Y	NA	Y

**Foothill Maintenance Station Drain Inlet Insert (StreamGuard and Fossil Filter Inserts) (Site ID 73216 a, b) MW/Law**

*Monitoring/Sampling Activities*

3/24/00 through 4/7/00: Data was downloaded from the monitoring equipment.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

None.

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None.

**Foothill MS DII Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.10	N	N	NA	NA	N
12/31/99	0.28	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.65	Y	Y	Y	NA	Y
1/30-31/00	0.31	Y	Y	Y	NA	Y
2/10-11/00	0.79	N	N	NA	NA	N
2/12-14/00	1.34	N	N	NA	NA	N
2/16/00	0.92	Y	Y	Y	NA	Y
2/20-21/00	3.05	Y	Y	Y	NA	Y
2/23/00	1.60	N	N	NA	NA	N
2/27/00	0.48	Y	Y	Y	NA	Y
3/3-4/00	0.37	N	N	NA	NA	N
3/5-6/00	1.77	N	Y*	NA	NA	Y
3/7-8/00	0.82	Y	Y	Y	NA	Y

\* Deployment criteria met; team mobilized to conduct during-storm inspection.

**Las Flores Maintenance Station Drain Inlet Insert (StreamGuard and Fossil Filter Inserts) (Site ID 73217 a, b) MW/Law**

*Monitoring/Sampling Activities*

3/24/00 through 4/7/00: Data was downloaded from the monitoring equipment.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

None.

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None.

**Las Flores MS DII Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.48	N	N	NA	NA	N
12/31/99	0.03	N	N	NA	NA	N
1/16/00	0.07	N	N	NA	NA	N
1/25/00	0.86	Y	Y	Y*	NA	Y
1/30-31/00	0.42	Y	Y	Y**	NA	Y
2/10-11/00	0.45	Y	Y	Y	NA	Y
2/12-14/00	1.67	N	N	NA	NA	N
2/16/00	0.48	N	Y***	NA	NA	Y
2/20-21/00	2.38	Y	Y	Y	NA	Y
2/23/00	1.80	N	N	NA	NA	N
2/27/00	0.50	Y	Y	Y	NA	Y
3/3-4/00	0.20	N	N	NA	NA	N
3/5-6/00	1.06	N	Y***	NA	NA	Y
3/7-8/00	0.91	N	Y***	NA	NA	Y

\* Not enough sample collected from StreamGuard DII for analysis

\*\* Not enough sample collected from Fossil Filter DII for analysis

\*\*\* Deployment criteria met; team mobilized to conduct during-storm inspection.

**Rosemead Maintenance Station Drain Inlet Insert (StreamGuard and Fossil Filter Inserts) (Site ID 73218 a, b) MW/Law**

*Monitoring/Sampling Activities*

3/24/00 through 4/7/00: Data was downloaded from the monitoring equipment.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

None.

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None.

**Rosemead MS DII Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.12	N	N	NA	NA	N
12/31/99	0.34	N	N	NA	NA	N
1/16/00	0.01	N	N	NA	NA	N
1/25/00	0.72	Y	Y	Y	NA	Y
1/30-31/00	0.21	Y	Y	Y	NA	Y
2/10-11/00	0.46	N	N	NA	NA	N
2/12-14/00	1.05	N	N	NA	NA	N
2/16/00	0.90	N	Y*	NA	NA	Y
2/20-21/00	2.65	Y	Y	Y	NA	Y
2/23/00	1.89	N	N	NA	NA	N
2/27/00	0.46	Y	Y	Y	NA	Y
3/3-4/00	0.53	N	N	NA	NA	N
3/5-6/00	1.57	N	Y*	NA	NA	Y
3/7-8/00	0.81	Y	Y	N	NA	Y

- Deployment criteria met; team mobilized to conduct during-storm inspection.

## **I-605/SR-91 Interchange Bio Strip & Swale (Site ID 73222 a, b) MW/Law**

### *Monitoring/Sampling Activities*

Strip:

3/23/00: Prepared grab sample bottles for sample collection.

3/28/00: Cleaned flumes.

Swale:

3/23/00: Prepared grab sample bottles for sample collection.

3/30/00: Replaced desiccant at the influent monitoring station.

Monitoring Summary Tables for events to date are provided on the following pages.

### *Operations and Maintenance*

Strip:

3/28/00: Began pulling weeds greater than 12 inches tall, compacting gopher holes, and removing trash and debris.

3/30/00: Completed activities that were started on 3/28/00.

4/4/00: Conducted gopher inspection and abatement. Two traps were set but no gophers caught.

Swale:

3/30/00: Removed weeds that were greater than 12 inches tall.

4/4/00: Conducted gopher inspection and abatement. Two traps were set but no gophers caught.

### *Vector Activities*

None noted during routine inspection.

### *Issues / Solutions*

None.

**605/91 Bio Swale Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.09	N	N	NA	NA	N
12/31/99	0.52	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.55	Y	Y	N	N	Y
1/30-31/00	0.25	N	N	NA	NA	N
2/10-11/00	0.26	N	N	NA	NA	N
2/12-14/00	1.14	N	Y*	NA	NA	Y
2/16/00	0.62	N	N	NA	NA	N
2/20-21/00	2.14	Y	Y	N	Y	Y
2/23/00	0.98	N	N	NA	NA	N
2/27/00	0.16	Y	Y	N	N	Y
3/3-4/00	0.40	N	N	NA	NA	N
3/5-6/00	1.01	N	Y**	NA	NA	Y
3/7-8/00	0.83	Y	Y	Y	Y	Y

\*A team was mobilized to the Cerritos Maintenance Station swale to conduct hydraulic residence time measurements. Empirical observations of the swale were made while the team was in the area.

\*\* A team was mobilized to the swale to conduct hydraulic residence timer measurements.

605/91 Bio Strip Monitoring Summary

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.09	N	N	NA	NA	N
12/31/99	0.52	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.55	Y	Y	N	N	Y
1/30-31/00	0.25	N	N	NA	NA	N
2/10-11/00	0.26	N	N	NA	NA	N
2/12-14/00	1.14	N	Y*	NA	NA	Y
2/16/00	0.62	N	N	NA	NA	N
2/20-21/00	2.14	Y	Y	N	Y	Y
2/23/00	0.98	N	N	NA	NA	N
2/27/00	0.16	Y	Y	N	N	Y
3/3-4/00	0.40	N	N	NA	NA	N
3/5-6/00	1.01	N	Y**	NA	NA	Y
3/7-8/00	0.83	Y	Y	Y	Y	Y

\*A team was mobilized to the Cerritos Maintenance Station swale to conduct hydraulic residence time measurements. Empirical observations of the strip were made while the team was in the area.

\*\*A team was mobilized to the I-605/SR-91 swale to conduct hydraulic residence time measurements. Empirical observations of the strip were made while the team was in the area.

### Cerritos Maintenance Station Bio Swale (Site ID 73223) MW/Law

#### Monitoring/Sampling Activities

3/24/00 through 4/7/00: Data was downloaded from the monitoring equipment.

3/28/00: Replaced desiccant cartridges at the influent and effluent monitoring stations and cleaned the flumes.

Monitoring Summary Table for events to date is provided below.

#### Operations and Maintenance

3/22/00: Removed trash and debris from the energy dissipater and the swale.

3/28/00: Repaired slumping on south bank of swale, removed weeds that were greater than 12 inches tall, and compacted gopher holes.

4/4/00: Conducted gopher inspection and abatement. One trap was set but no gophers caught.

#### Vector Activities

None noted during routine inspection.

#### Issues / Solutions

Gophers continue to burrow through the swale.

**Cerritos MS Bioswale Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.09	N	N	NA	NA	N
12/31/99	0.52	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.55	Y	Y	N	N	Y
1/30-31/00	0.25	N	N	NA	NA	N
2/10-11/00	0.26	N	N	NA	NA	N
2/12-14/00	1.14	N*	Y**	NA	NA	Y
2/16/00	0.62	N	N	NA	NA	N
2/20-21/00	2.14	Y	Y	Y	Y	Y
2/23/00	0.98	N	N	NA	NA	N
2/27/00	0.16	Y	Y	N	Y	Y
3/3-4/00	0.40	N	N	NA	NA	N
3/5-6/00	1.01	N	Y***	NA	NA	Y
3/7-8/00	0.83	Y	Y	Y	NA	Y

\*Criteria were not met for sampling.

\*\*Hydraulic residence time measurements were taken.

\*\*\*A team was mobilized to the I-605/SR-91 swale to conduct hydraulic residence timer measurements. Empirical observations of the swale were made while the team was in the area.

### I-5/I-605 Bio Swale (Site ID 73224) MW/Law

#### Monitoring/Sampling Activities

3/24/00 through 4/7/00: Data was downloaded from the monitoring equipment.

3/28/00: Replaced desiccant cartridge at the effluent monitoring station.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

3/28/00: Removed weeds and compacted gopher burrows.

4/4/00: Conducted gopher inspection and abatement. One trap was set but no gophers were caught.

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None.

**5/605 Bioswale Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.16	N	N	NA	NA	N
12/31/99	0.22	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.55	Y	Y	N	N	Y
1/30-31/00	0.30	N	N	NA	NA	N
2/10-11/00	0.45	N	N	NA	NA	N
2/12-14/00	1.01	N	N	NA	NA	N
2/16/00	0.58	N	N	NA	NA	N
2/20-21/00	2.29	Y	Y	Y	Y	Y
2/23/00	1.23	N	N	NA	NA	N
2/27/00	0.21	Y	Y	Y	Y	Y
3/3-4/00	0.37	N	N	NA	NA	N
3/5-6/00	1.30	N	Y*	NA	NA	Y
3/7-8/00	0.93	Y	Y	Y	NA	Y

\*\* A team was mobilized to the swale to conduct hydraulic residence timer measurements.

**I-605/Carson & Del Amo Bio Swale (Site ID 73225) MW/Law**

*Monitoring/Sampling Activities*

3/23/00: Prepared grab sample bottles for sample collection.

Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

3/22/00: Removed trash and debris from the energy dissipater and swale.

3/31/00: Removed weeds that were greater than 12 inches tall.

*Vector Activities*

None noted during routine inspection.

*Issues / Solutions*

None.

**Carson/Del Amo Bioswale Monitoring Summary**

Date	Rainfall Total	Antecedent Dry Period & Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
11/8/99	0.09	N	N	NA	NA	N
12/31/99	0.52	N	N	NA	NA	N
1/16/00	0.00	N	N	NA	NA	N
1/25/00	0.55	Y	Y	N	N	Y
1/30-31/00	0.25	N	N	NA	NA	N
2/10-11/00	0.26	N	N	NA	NA	N
2/12-14/00	1.14	N	N	NA	NA	N
2/16/00	0.62	N	N	NA	NA	N
2/20-21/00	2.14	Y	Y*	N	Y	Y
2/23/00	0.98	N	N	NA	NA	N
2/27/00	0.16	Y	Y	N	N	Y
3/3-4/00	0.40	N	N	NA	NA	N
3/5-6/00	1.01	N	N	NA	NA	N
3/7-8/00	0.83	Y	Y	Y	NA	Y

\* Hydraulic residence time measurements were taken.

## District 11 BMP Pilot Sites

### Monitoring Activities Applicable to all sites

An event was forecast for Monday, March 27 with a 80% chance of 0.25" of rain. All monitoring stations were remotely armed. However, later the forecast was downgraded to a 30% chance of showers, and it was decided to leave the stations armed but not mobilize field crews. Only two BMP sites registered measurable rainfall, Escondido MS and I-15/SR-78. Both sites received only 0.01" of rainfall. No samples were taken, and the stations were shut down on Tuesday, March 28.

### Maintenance Activities Applicable to all sites

Monthly site inspections were performed at all sites on April 3 and 4.

### Vector Activities Applicable to all sites

All BMP sites were inspected for vectors on March 27 and April 3.

### I-5/SR-56 Extended Detention Basin (Site ID 111101) KLI

#### *Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

#### *Operations and Maintenance*

No maintenance activities to note during this period.

I-5/SR-56 EDB Monitoring Summary

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.17	Y	Y	Y	N	Y
2/16/00	0.20	Y	Y	Y	Y	Y
2/20-21/00	1.64	Y	Y	Y	Y	Y
3/5-6/00	1.12	Y	Y	Y	N	Y
3/7-8/00	0.04	Y	Y	N	N	Y

#### *Vector Activities*

On March 27, the first basin had about 5-10 square feet of standing water. This was found to be breeding mosquitoes. The second basin had about 100 square feet of standing water but no mosquito breeding was noted there. On April 3, the site was dry.

*Issues / Solutions*

None this period.

**SR-78/I-15 Extended Detention Basin (Site ID 111102) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27, the site was dry. On April 3, there was standing water at the inlet leading over to the outflow. The water was about 1.5' wide and 2-3" deep. No mosquito breeding was noted.

*Issues / Solutions*

Non-stormwater discharge was noted during the site inspection and District 11 has been notified.

**I-15/SR-78 EDB Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.30	Y	Y	Y	Y	Y
2/16/00	0.38	Y	Y	Y	Y	Y
2/20-21/00	1.99	Y	Y	Y	Y	Y
3/5-6/00	1.12	Y	Y	Y	N	Y
3/7-8/00	0.10	Y	Y	N	N	Y
3/27/00	0.01	N	N	NA	NA	N

**I-5/La Costa Avenue Infiltration Basin (Site ID 111103) KLI**

*Monitoring/Sampling Activities*

Well depth measurements were taken on March 28 and are provided as Attachment 1 in this report. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

A design was formulated for the bird deterrent net at the infiltration basin and will be implemented in the coming weeks.

*Vector Activities*

On March 27, standing water was about 1.5' deep at the wet basin. Emergent vegetation and algae are beginning to grow. The mosquito breeding was found in and around the emergent vegetation. On April 3, standing water filling the basin about 1.46' deep. Mosquito larvae were noted around the perimeter of the pond in the floating algae. Raccoon prints were noted around the edge of the pond on both occasions.

*Issues / Solutions*

None this period.

**La Costa IB Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.17	Y	Y	NA	NA	Y
2/16/00	0.16	Y	Y	NA	NA	Y
2/20-21/00	1.45	Y	Y	NA	NA	Y
3/5-6/00	0.65	Y	Y	NA	NA	Y
3/7-8/00	0.06	Y	Y	NA	NA	Y

**I-5/La Costa Wet Basin (Site ID 111104) KLI**

*Monitoring/Sampling Activities*

Baseline monthly 48-hour time weighted composite samples and grab samples from the 6" pipe leading from the trapazoidal channel to the wet basin were taken on March 28-30. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27, Gambusia were plentiful at the wet basin. Emergent vegetation is thickening weekly. On April 3, Gambusia were plentiful. But, mosquito larvae were found among the cattails. A dead rabbit was noted at the site.

*Issues / Solutions*

None this period.

**La Costa WB Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.16	Y	Y	Y	Y	Y
2/16/00	0.16	Y	Y	Y	Y	Y
2/20-21/00	1.45	Y	Y	Y	Y	Y
3/5-6/00	0.63	Y	Y	Y	N	Y
3/7-8/00	0.05	Y	Y	N	N	Y

**I-5/Manchester Avenue Extended Detention Basin (Site ID 111105) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27 and April 3, the site was dry.

*Issues/Solutions*

None this period.

**Manchester EDB Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.16	Y	Y	N	N	Y
2/16/00	0.22	Y	Y	Y	Y	Y
2/20-21/00	1.53	Y	Y	Y	Y	Y
3/5-6/00	1.19	Y	Y	Y	N	Y
3/7-8/00	0.10	Y	Y	N	N	Y

**Kearny Mesa Maintenance Station StormFilter - Perlite/Zeolite (Site ID 112201) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27 and April 3, the first chamber held about two feet of water. The second, third, and fourth chambers had standing water in their spreading troughs. No mosquito breeding was noted on March 27. On April 3, staff noted a psychodid larva in the standing water in the spreader trough of the third chamber.

*Issues / Solutions*

None this period.

**Kearny Mesa MS MF Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.08	Y	Y	Y	N	Y
2/16/00	0.10	Y	Y	Y	Y	Y
2/20-21/00	2.32	Y	Y	Y	Y	Y
3/5-6/00	1.00	Y	Y	Y	N	Y
3/7-8/00	0.29	Y	Y	N	N	Y

**Escondido Maintenance Station Media Filter - Sand (Site ID 112202) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27, the standing water in the first basin was about 7" deep. No mosquito breeding was noted. On April 3, the standing water in the first basin was about 1.0 - 1.5" deep. No mosquito breeding was noted.

*Issues / Solutions*

None this period.

**Escondido MS Media Filter Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.29	Y	Y	Y	Y	Y
2/16/00	0.50	Y	Y	Y	Y	Y
2/20-21/00	2.12	Y	Y	Y	Y	Y
3/5-6/00	1.19	Y	Y	Y	N	Y
3/7-8/00	0.19	Y	Y	N	N	Y
3/27/00	0.01	N	N	NA	NA	N

**La Costa Park and Ride Media Filter - Sand (Site ID 112203) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

A bird deterrent net will be installed in the next two weeks.

*Vector Activities*

On March 27, there was standing water in the spreader trough of the second basin. No mosquito breeding was noted. On April 3, the site was dry except for a minor amount of standing water in the spreader trough of the second basin. No mosquito breeding was noted. A dead rabbit was noted in the first basin.

*Issues / Solutions*

None this period.

**La Costa P&R Sand Filter Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.19	Y	Y	Y	Y	Y
2/16/00	0.16	Y	Y	Y	Y	Y
2/20-21/00	1.45	Y	Y	Y	Y	Y
3/5-6/00	0.69	Y	Y	Y	N	Y
3/7-8/00	0.07	Y	Y	N	N	Y

**SR-78/I-5 Park and Ride Media Filter - Sand (Site ID 112204) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

A bird deterrent net will be installed in the next two weeks.

*Vector Activities*

On March 27 and April 3, there was standing water in the spreader trough of the second basin. No mosquito breeding was noted.

*Issues / Solutions*

Non-stormwater discharge was noted during the site inspection, and District 11 has been notified.

**I-5/SR78 P&R Sand Filter Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.27	Y	Y	Y	Y	Y
2/16/00	0.14	Y	Y	Y	Y	Y
2/20-21/00	2.16	Y	Y	Y	Y	Y
3/5-6/00	1.15	Y	Y	N	N	Y
3/7-8/00	0.19	Y	Y	Y	N	Y

**Melrose Ave/SR-78 Bio Swale (Site ID 112205) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27 and April 3, the site was dry and signs of active gophers were noted.

*Issues / Solutions*

None this period.

**Melrose Ave./SR-78 Bio Swale Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.22	Y	Y	N	N	Y
2/16/00	0.25	Y	Y	N	N	Y
2/20-21/00	2.29	Y	Y	N	N	Y
3/5-6/00	0.58	Y	Y	N	N	Y
3/7-8/00	0.11	Y	Y	N	N	Y

**I-5 Palomar Airport Biofiltration Swale (Site ID 112206) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operation and Maintenance*

Maintenance crews cleaned off graffiti from the BMP sign at the Palomar Bio-swale.

*Vector Activities*

On March 27 and April 3, the site was dry and signs of active gophers were noted.

*Issues / Solutions*

None this period.

**I-5/Palomar Biofiltration Swale Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.17	Y	Y	N	N	Y
2/16/00	0.16	Y	Y	N	N	Y
2/20-21/00	0.62	Y	Y	Y	Y	Y
3/5-6/00	0.65	Y	Y	Y	Y	Y
3/7-8/00	0.11	Y	Y	N	N	Y

**Carlsbad Maintenance Station Bio Strip Infiltration Trench (Site ID 112207) KLI**

*Monitoring/Sampling Activities*

No monitoring activities to note during this period. Monitoring Summary Table for events to date is provided below.

*Operations and Maintenance*

No maintenance activities to note during this period.

*Vector Activities*

On March 27, the site was dry. On April 3, the site had minor amounts of standing water. No mosquito breeding was noted.

*Issues / Solutions*

Non-stormwater discharge was noted during the site inspection and District 11 has been notified.

**Carlsbad MS Bio Strip/Infiltration Trench Monitoring Summary**

Date	Rainfall Total	Deployment Criteria Met	Mobilized	Sampled		Empirical Observations
				Comp	Grab	
1/25/00	0.29	Y	Y	N	N	Y
2/16/00	0.16	Y	Y	N	N	Y
2/20-21/00	0.58	Y	Y	Y	Y	Y
3/5-6/00	0.41	Y	Y	Y	Y	Y
3/7-8/00	0.11	Y	Y	N	N	Y

**ESTIMATED BMP OPERATION SCHEDULE FOR REMAINING SITES UNDER CONSTRUCTION**

Location	BMP Type	Monitor Consultant	Estimated Date Site "On-line" <sup>2</sup>	Begin Instrument Install <sup>1</sup>	Complete Instrument Install	Operational <sup>3</sup> (start empirical and maintain)	Ready for Water Quality Monitoring <sup>4</sup>
<b>DISTRICT 7</b>							
I-210 East of Orcas	CDS	MW/Law	4/13/00	4/13/00	4/27/00	4/27/00	4/27/00
I-210 East of Filmore	CDS	MW/Law	4/13/00	4/13/00	4/27/00	4/27/00	4/27/00
Paxton Park & Ride	MF	BC	12/20/00	12/20/00	1/12/01	1/12/01	1/12/01
Metro MS	MCTT	BC	12/20/00	12/20/00	1/12/01	1/12/01	1/12/01

<sup>1</sup> Equipment installation schedule is dependent upon construction schedule.

<sup>2</sup> Site on-line means BMP will receive stormwater runoff, not necessarily ready for monitoring or operations.

<sup>3</sup> Site operational means BMP meets completion criteria and BMP is turned over to monitoring/maintenance teams to begin empirical observations and maintenance.

<sup>4</sup> Ready for water quality monitoring means BMP has a full equipment installation and the equipment is ready to draw samples.



**SUMMARY OF REQUIRED AND SUCCESSFULLY SAMPLED STORMS PER SITE**

Location	BMP Type	Monitoring Consultant	Operational (yes/no)	Operational Date	Maximum Storms Required	Successfully Sampled Storms <sup>1</sup>	
						1998-1999	1999-2000 Preliminary
<b>District 7</b>							
I-605/SR-91	IB	MW/Law	Yes	4/9/99	4	N/A <sup>5</sup>	N/A <sup>5</sup>
I-210 East of Orcas	CDS	MW/Law	No	4/27/00 <sup>2</sup>	8	0	
I-210 East of Filmore	CDS	MW/Law	No	4/27/00 <sup>2</sup>	8	0	
I-5/I-605	EDB	BC	Yes	2/26/99	10	2	3
I-605/SR-91	EDB	BC	Yes	2/22/99	10	3	2 <sup>4</sup>
Paxton Park & Ride	MF	BC	No	1/12/01 <sup>2</sup>	8	0	
Metro MS	MCTT	BC	No	1/12/01 <sup>2</sup>	8	0	
Alameda MS	OWS	BC	Yes	5/17/99	8	0	3
Eastern MS	MF	BC	Yes	2/15/99	8	1	3
Foothill MS	MF	BC	Yes	3/8/99	8	2	3
Termination Park & Ride	MF	BC	Yes	5/17/99	8	0	3
Via Verde Park & Ride	MCTT	BC	Yes	5/17/99	8	0	3
Lakewood Park & Ride	MCTT	BC	Yes	5/17/99	8	0	3
Altadena	Bio Strip	MW/Law	Yes	10/1/99	8	0	5 <sup>3</sup>
	Infiltration Trench	MW/Law	Yes	10/1/99	8	N/A <sup>5</sup>	N/A <sup>5</sup>
Foothill MS	DII north- SG Insert	MW/Law	Yes	1/22/99	8	4	6
	DII south- FF Insert	MW/Law	Yes	1/22/99	8	3	6 <sup>3,6</sup>
Las Flores MS	DII north-SG Insert	MW/Law	Yes	1/22/99	8	5	4
	DII south-FF Insert	MW/Law	Yes	1/22/99	8	2	4 <sup>3</sup>
Rosemead MS	DII north-FF Insert	MW/Law	Yes	1/22/99	8	3	4 <sup>3</sup>
	DII south-SG Insert	MW/Law	Yes	1/22/99	8	3	4
I-605/SR-91	Bio Strip	MW/Law	Yes	1/22/99	8	0	1
	Bio Swale	MW/Law	Yes	10/1/99	8	0	1
Cerritos MS	BioSwale	MW/Law	Yes	10/1/99	8	0	3 <sup>7</sup>
I-5/I-605	BioSwale	MW/Law	Yes	10/1/99	8	0	3
I-605/ Del Amo	BioSwale	MW/Law	Yes	10/1/99	8	0	1
<b>District 11</b>							
I-5/SR-56	EDB	KLI	Yes	1/24/99	4	5	4 <sup>3</sup>
I-15/SR-78	EDB	KLI	Yes	1/24/99	10	4	4 <sup>3</sup>
I-5/La Costa (West)	IB	KLI	Yes	1/24/99	4	N/A <sup>5</sup>	N/A <sup>5</sup>
I-5/La Costa (East)	WB	KLI	Yes	10/1/99	4	0	4 <sup>3</sup>
I-5/Manchester (East)	EDB	KLI	Yes	10/1/99	4	0	3
Kearney Mesa MS	StormFilter (Perlite/Zeolite)	KLI	Yes	10/1/99	8	3	5 <sup>3</sup>
Escondido MS	MF	KLI	Yes	2/16/99	8	3	4
La Costa Park & Ride	MF	KLI	Yes	2/16/99	4	3	4 <sup>3</sup>
SR-78/I-5 Park & Ride	MF	KLI	Yes	2/26/99	8	2	5
Melrose Ave/SR-78	Bio Swale	KLI	Yes	3/1/99	8	0	
I-5 Palomar Airport Road	Bio Swale	KLI	Yes	10/1/99	8	0	2
Carlsbad MS	Bio Strip	KLI	Yes	10/1/99	4	0	2
	Infiltration Trench	KLI	Yes	10/1/99	4	N/A <sup>5</sup>	N/A <sup>5</sup>

1. All DII data in question. A criteria for acceptance has been established . Data will be reviewed at the end of the year.
2. Subject to Schedule Update
3. OMM Manual goal of 12 aliquot minimum sample not attained (25 January 2000 event)
4. Less than 12 aliquots collected (at the influent at Altadena, at the effluent at the 605/91 EDB)
5. N/A – Groundwater or Vadose Zone Samples
6. OMM Manual goal of 12 aliquot minimum sample not attained (30 January 2000 event)
7. OMM Manual goal of 12 aliquot minimum sample not attained (27 February 2000 event)

## OMM PLAN ACTIVITIES

### Volumes I and II

No activity this period. Documents have been finalized and adopted.

### Maintenance Indicator Document

A revised MID dated March 21, 2000, was submitted to the Plaintiffs via email on March 21. Comments were received from NRDC and EPA. The comments primarily focused on the revisions that were entered as a result of requests from the San Diego Vector Control Agency. A response to plaintiff comments will be developed and a resolution will need to be developed cooperatively with the Vector Control Agency.

### Database

The last update on the database was on March 15, 2000. Data is posted on the web site [www.rbf.com/caltrans](http://www.rbf.com/caltrans). A site-by-site reporting feature has been incorporated to the web site. The next update will occur on April 14, 2000.

### O&M Cost

The next update will be provided with the next Biweekly Report (report date April 21, 2000).

## VECTOR ACTIVITIES

Following is a summary of vector issues from 3/24/00 to 4/7/00. Site-specific details on vector activities are provided in the OMM Activities of the individual BMP sites.

### DISTRICT 7

#### San Gabriel Valley Vector Control District

No sites were found breeding during this period.

No abatement was carried out during this period.

#### Greater Los Angeles County Vector Control District

The MCTT at the Lakewood P&R (Site #74208) was found breeding during this period. The site was abated with Altosid liquid on March 31, 2000.

#### Los Angeles County West Vector Control District

No sites were found breeding during this period.

No abatement was carried out during this period.

## DISTRICT 11

### County of San Diego Vector Surveillance and Control

The Extended Detention Basin at I-5/SR-56 (Site #111101) was found breeding on March 27, 2000. Both the Infiltration Basin (Site #111103) and the Wet Basin at La Costa (Site #111104) were found breeding on March 27 and April 3, 2000.

No abatement was carried out during this period.

## DEPARTMENT OF HEALTH SERVICES

The Department of Health Services (DHS) continues its vector production study and is collecting data on a biweekly basis.

In response to Bob Pitt's recommendations for the MCTT sites, DHS, in association with the Greater Los Angeles County Vector Control District, will assist Brown and Caldwell in attempting to mosquito proofing the MCTT at the Lakewood P&R. This will consist of examining the feasibility of utilizing various barriers to prevent mosquito utilizing underground water quality structures. The memo will also comment on the monitoring and abatement experiences of agencies dealing with vector breeding in all forms of underground vaults. The final memorandum is being prepared for review and approval by the County Board of Supervisors. DHS is also providing technical assistance to the County of San Diego in the preparation of a memorandum outlining those solutions which seemed feasible at the meeting.

## ADULT MONITORING

Nothing to report for this period.

## Sites Monitored by Vector Control District

Location	BMP Type	Monitor Consultant	Vector Control District	Activities
<b>DISTRICT 7</b>				
I-605/SR-91	IB	MW/Law	GLACVCD	None noted during routine inspection.
I-210 East of Orcas	CDS	MW/Law	GLACVCD	N/A
I-210 East of Filmore	CDS	MW/Law	GLACVCD	N/A
I-5/I-605	EDB	BC	GLACVCD	None noted during routine inspection.
I-605/SR-91	EDB	BC	GLACVCD	None noted during routine inspection.
Paxton Park & Ride	MF	BC	GLACVCD	N/A
Metro MS	MCTT	BC	GLACVCD	N/A
Alameda MS	OWS	BC	GLACVCD	None noted during routine inspection.
Eastern MS	MF	BC	GLACVCD	None noted during routine inspection.
Foothill MS	MF	BC	SGVVCD	None noted during routine inspection.
Termination Park & Ride	MF	BC	GLACVCD	None noted during routine inspection.
Via Verde Park & Ride	MCTT	BC	SGVVCD	None noted during routine inspection.
Lakewood Park & Ride	MCTT	BC	GLACVCD	March 31: Site abated with Altosid liquid.
Altadena	Bio Strip/IT	MW/Law	GLACVCD	None noted during routine inspection.
Foothill	DII	MW/Law	SGVVCD	None noted during routine inspection.
LasFlores	DII	MW/Law	LA Co West	None noted during routine inspection.
Rosemead	DII	MW/Law	SGVVCD	None noted during routine inspection.
I-605/SR-91	Bio Strip/Swale	MW/Law	GLACVCD	None noted during routine inspection.
Cerritos MS	BioSwale	MW/Law	GLACVCD	None noted during routine inspection.
I-5/I-605	BioSwale	MW/Law	GLACVCD	None noted during routine inspection.
I-605/ Del Amo	BioSwale	MW/Law	GLACVCD	None noted during routine inspection.
<b>DISTRICT 11</b>				
I-5/SR-56	EDB	KLI	SD Co VC	March 27: Breeding noted; no abatement performed.
I-15/SR-78	EDB	KLI	SD Co VC	None noted during routine inspection.
I-5/La Costa (West)	IB	KLI	SD Co VC	March 27: Breeding noted; no abatement performed. April 3: Breeding noted; no abatement performed.
I-5/La Costa (East)	WB	KLI	SD Co VC	March 27: Breeding noted; no abatement performed. April 3: Breeding noted; no abatement performed.
I-5/Manchester (East)	EDB	KLI	SD Co VC	None noted during routine inspection.

<b>Location</b>	<b>BMP Type</b>	<b>Monitor Consultant</b>	<b>Vector Control District</b>	<b>Activities</b>
Kearny Mesa MS	StormFilter (Perlite/Zeolite)	KLI	SD Co VC	None noted during routine inspection.
Escondido MS	MF	KLI	SD Co VC	None noted during routine inspection.
La Costa Park & Ride	MF	KLI	SD Co VC	None noted during routine inspection.
SR-78/I-5 Park & Ride	MF	KLI	SD Co VC	None noted during routine inspection.
Melrose Ave/SR-78	Bio Swale	KLI	SD Co VC	None noted during routine inspection.
I-5 Palomar Airport Road	Bio Swale	KLI	SD Co VC	None noted during routine inspection.
Carlsbad MS	Bio Strip/IT	KLI	SD Co VC	None noted during routine inspection.

## ENVIRONMENTAL ISSUES

The monthly monitoring survey will be conducted the week of March 27<sup>th</sup>.

Coordination and design efforts are underway for net deployment at three sites in San Diego: La Costa infiltration basin (to prevent waterfowl from carrying in San Diego fairy shrimp) and the media filters at I5/78 Park and Ride and the La Costa Park and Ride sites per the MID (prevent nesting of birds in the sand bed).

A recommendation letter is currently being prepared addressing the current gopher trapping protocol and the potential burrowing owl issues at the biofilter sites.

## WEATHER

Precipitation data for Los Angeles and San Diego were obtained from NOAA.

*The data presented here is as a reference only. The actual rainfall at individual BMP sites will vary from the values given in the table. The data presented above for Los Angeles is as of 4:00 p.m. for the preceding 24 hours on the date indicated. For San Diego, is as of 5:00 p.m. for the preceding 24 hours.*

March 2000							
Los Angeles – Downtown/USC				San Diego			
Day	Precip. (Inches)	Day	Precip. (Inches)	Day	Precip. (Inches)	Day	Precip. (Inches)
1	0.00	16	0.00	1	0.04	16	0.00
2	0.00	17	0.00	2	0.00	17	0.00
3	0.01	18	0.00	3	0.01	18	0.00
4	0.27	19	0.00	4	Trace	19	0.00
5	1.78	20	0.00	5	0.65	20	0.10
6	0.04	21	0.00	6	0.08	21	0.00
7	0.00	22	0.00	7	0.05	22	0.00
8	0.71	23	0.00	8	0.06	23	0.00
9	0.01	24	0.00	9	0.00	24	0.00
10	0.00	25	0.00	10	0.00	25	0.00
11	0.00	26	0.00	11	0.00	26	0.00
12	0.00	27	0.00	12	0.00	27	Trace
13	0.00	28	0.00	13	0.00	28	0.00
14	0.00	29	0.00	14	0.00	29	0.00
15	0.00	30	0.00	15	0.00	30	0.00
April 2000							
1	0.00	16		1	0.00	16	
2	0.00	17		2	0.00	17	
3	0.00	18		3	Not Available	18	
4	0.00	19		4	0.00	19	
5	0.00	20		5	0.00	20	
6		21		6		21	
7		22		7		22	
8		23		8		23	
9		24		9		24	
10		25		10		25	
11		26		11		26	
12		27		12		27	
13		28		13		28	
		31	0.00			31	0.00
14		29		14		29	
15		30		15		30	

**ATTACHMENTS**

**Attachment 1: PS&E Location 3, I-5/La Costa Ave Infiltration Basin – Water Surface  
Elevation Summary**

**Attachment 2: Letter from Dudek Associates Regarding Reassessment of Botta's  
Pocket Gopher Issues Pertaining to BMP Study**

**Attachment 3: Preliminary Water Quality Data**