



Robert Bein, William Frost & Associates
PROFESSIONAL ENGINEERS, PLANNERS & SURVEYORS

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

DATE: February 3, 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, Pete Van Riper, Richard Gordon, Dean Messer, Brown and Caldwell, Montgomery Watson/Law, KLI, RBF
COPIES TO: File
SUBJECT: BMP Pilot Study Status

AGENDA ITEMS

1. Non-Storm Water Discharge Report - District 7 and 11 Report
2. D7 Design/Construction Status: Metro MS, Paxton MS, CDS design
3. Vector Issues
4. Environmental/Biological Survey
5. District 7 Operation/Maintenance (OMM) Status Activities
6. District 11 Operation/Maintenance (OMM) Status Activities
7. Cost Workgroup Update

>>Next Biweekly proposed for February 17, 2000 Thursday at 10AM<<



BMP Pilot Studies

Bi-weekly Status Report

BMP Pilot Projects in District 7 and District 11

January 28, 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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NON-STORMWATER RUNOFF INSPECTIONS

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	Brown and Caldwell Sites – D7				Law Crandall Sites – D7					KLI Sites – D11						
	Foothill MS: SF	Alameda MS: OWS	5/605 EDB	Via Verde: MCTT	Foothill MS: DIIs	Las Flores MS: DIIs	Rosemead MS: DIIs	605/91: IB	Altadena MS: Strip/IT	15/78 EDB	Escondido MS: SF II	5/78 P&R: MF	5/56 EDB	Kearny Mesa MF	Palomar Bioswale	Carlsbad MS
July 12	N	-	-	-	N	N	N	N	Y	-	-	-	-	-	-	-
July 19	N	-	-	-	N	N	N	Y	Y	-	-	-	-	-	-	-
July 26	N	-	-	-	N	N	N	Y	Y	-	-	-	-	-	-	-
Aug 2	Y	-	-	-	Y	N	N	N	N	N	N	Y	Y	N	-	-
Aug 9	N	Y	Y	Y	N	N	N	N	Y	Y	N	Y	Y	N	-	-
Aug 16	N	N	Y	N	N	D	D	Y	Y	Y	N	N	Y	N	Y	-
Aug 23	Y	N	Y	N	Y	D	D	N	N	N	N	N	Y	N	Y	-
Aug 30	Y	N	N	N	N	D	D	N	Y	N	-	N	Y	N	Y	N
Sept 6	Y	N	Y	N	N	D	D	N	Y	N	Y	N	Y	-	Y	N
Sept 13	N	N	N	N	N	D	D	N	N	N	N	N	Y	-	Y	N
Sept 20	N	N	N	Y	N	D	D	N	N	N	N	N	Y	-	Y	N
Sept 27	N	N	N	Y	N	D	D	N	N	N	N	N	Y	-	Y	N
Oct 4	N	N	N	N	N	D	D	N	N	N	N	N	Y	N	Y	N
Oct 11	D	D	D	N	D	D	D	D	D	D	D	D	Y	N	N	D

Caltrans BMP Pilot Studies
Bi-Weekly Status Report
January 28, 2000

Week of	Brown and Caldwell Sites – D7				Law Crandall Sites – D7					KLI Sites – D11						
	Foothill MS: SF	Alameda MS: OWS	5/605 EDB	Via Verde: MCTT	Foothill 1 MS: DIIs	Las Flores MS: DIIs	Rosemead MS: DIIs	605/91: IB	Altadena MS: Strip/IT	15/78 EDB	Escondido MS: SF II	5/78 P&R: MF	5/56 EDB	Kearny Mesa MF	Palomar Bioswale	Carlsbad MS
Oct 18	D	D	D	N	D	D	D	D	D	D	D	D	Y	N	N	D
Oct 25	D	D	D	D	D	D	D	D	D	D	D	D	Y	N	Y	D
Nov 1	D	D	D	D	D	D	D	D	D	D	D	D	Y	D	Y	D
Nov 8	D	D	D	D	D	D	D	D	D	D	D	D	Y	D	Y	D
Nov 15	D	D	D	D	D	D	D	D	D	D	D	D	Y	D	Y	D
Nov 22	D	D	D	D	D	D	D	D	D	D	D	D	Y	D	Y	D
Nov 29	D	D	D	D	D	D	D	D	D	D	D	D	Y	D	Y	D
Dec 6	D	D	D	Y	D	D	D	D	D	D	D	D	Y	D	Y	D
Dec 13	D	D	D	N	D	D	D	D	D	D	D	D	Y	D	N	D
Dec 20	D	D	D	N	D	D	D	D	D	D	D	D	N	N	N	D
Dec 30	D	D	D	N	D	D	D	D	D	D	D	D	N	N	N	D
Jan 4/00	D	D	D	N	D	D	D	D	D	D	D	D	N	N	N	D
Jan 10/00	D	D	D	D	D	D	D	D	D	D	D	D	Y	N	N	D
Jan. 17,00	D	D	D	D	D	D	D	D	D	D	D	D	N	D	D	D
Jan. 24, 00	D	D	D	D	D	D	D	D	D	D	D	D	N	D	D	D

N – No evidence of non-stormwater runoff discharged into BMP

Y – Non-stormwater runoff was observed

- - No Inspection was held during the week.

D – Discontinued Inspections (no- non-stormwater discharge observed previous 4 weeks)

o – Has not been conducted at the time of preparation of this report.

**ACTIVITY DESCRIBED IN THIS BI-WEEKLY COVERS THE PERIOD FROM
 JANUARY 15, 2000 – JANUARY 28, 2000**

January 25, 2000 Storm Event Rainfall Summary			
Location	BMP Type	Monitor Consultant	Rainfall Amount (inches)
DISTRICT 7			
I-605/SR-91	IB	MW/Law	0.55
I-5/I-605	EDB	BC	0.52
I-605/SR-91	EDB	BC	0.48
Alameda MS	OWS	BC	0.43
Eastern MS	MF	BC	0.55
Foothill MS	MF	BC	0.64
Termination Park & Ride	MF	BC	0.54
Via Verde Park & Ride	MCTT	BC	0.58
Lakewood Park & Ride	MCTT	BC	0.46
Altadena	Bio Strip/IT	MW/Law	0.45
Foothill	DII	MW/Law	0.65
LasFlores	DII	MW/Law	0.86
Rosemead	DII	MW/Law	0.72
I-605/SR-91	Bio Strip/Swale	MW/Law	0.48
Cerritos MS	BioSwale	MW/Law	0.55
I-5/I-605	BioSwale	MW/Law	0.52
I-605/ Del Amo	BioSwale	MW/Law	0.55
DISTRICT 11			
I-5/SR-56	EDB	KLI	0.17
I-15/SR-78	EDB	KLI	0.30
I-5/La Costa (East)	WB	KLI	0.16
I-5/Manchester (East)	EDB	KLI	0.20
Kearney Mesa MS	StormFilter	KLI	0.08
Escondido MS	MF	KLI	0.29
La Costa Park & Ride	MF	KLI	0.19
SR-78/I-5 Park & Ride	MF	KLI	0.27
Melrose Ave/SR-78	Bio Swale	KLI	0.22
I-5 Palomar Airport Road	Bio Swale	KLI	0.24
Carlsbad MS	Bio Strip/IT	KLI	0.29

District 7 BMP Sites

1-605/SR-91 Interchange Infiltration Basin (Site ID 73101) MW/Law

Monitoring/Sampling Activities

1/16/00: Checked functionality of bubbler. Forecasted storm did not produce measurable rain. No crews were mobilized.

1/25/00: Storm produced 0.55 inch of rainfall. Empirical observations were made.

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/25/00: Erosion was observed on the north side slope (same area that previously eroded and was repaired). This area is immediately beneath an asphalt depression on the access road. Erosion will be repaired by 1/31/00. Flow discharged into the infiltration basin through the 12-inch pipe on the east side; flow did not discharge into the infiltration basin through the 24-inch pipe in the southeast corner. Runoff ponded in isolated pools and then infiltrated.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

It is recommended that sand bags be placed at the asphalt depression to prevent future erosion.

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

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

Status

A preconstruction meeting was held on Jan 27. The contract is 45 working days. The contractor has not submitted the Water Pollution Control Program (WPCP) to the RE for approval. Contractor will be permitted to mobilize onto the site but no work having potential to cause water pollution shall be performed until the WPCP has been approved by the RE. The RE has 3 days to review/approve the WPCP. Begin of construction is expected no later than Feb. 7.

The CDS units and flumes are stored at the Altadena MS. Model Nos. were checked and dimensions verified per the project plan. The end plates for the flumes were not received and are expected to arrive within the next few weeks.

Schedule

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

Activities	Scheduled Dates	Actual Dates	Duration (calendar weeks)
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		4
Complete Construction	03/31/00		6
Fully Operational	04/14/00		2

General Comments Applicable to Brown and Caldwell Sites

The storm of Tuesday, January 25, 2000 was not successfully captured. Sufficient volume for laboratory analyses was not collected. Based upon the predicted intensity and length of the forecasted storm, BMP sampling parameters were set for conditions that did not occur. The majority of rainfall occurred in the first three hours of the morning, while the predicted duration was for a full day of steady rainfall. Because intensity and duration expectations were far from actual, sampling parameters could not be adjusted accordingly in time to capture viable samples. The sampling effort was aborted after determining that the majority of the storm had passed and that the captured influent sample volumes were not adequate to conduct minimal analyses. Empirical observations were recorded for this event at each BMP.

Future storms will be approached more conservatively by adjusting the sampling parameters to less-than-predicted intensities (oversampling in case of short-lived events). In this manner, if storm forecast predictions hold true, oversampling will occur, but percent capture will be maximized for each storm.

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

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain samples. See General Issues/Solutions above. Rainfall total was 0.52 inches with an additional 0.04 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

None this period.

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

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain viable samples. See General Issues/Solutions above. Rainfall total was 0.48 inches.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

A large amount of granular sediment washed down from the conveyance system and covered the influent sample port, during the storm of January 25. BC will work with Caltrans to determine suitable cleaning methods.

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 are moving forward to District clearance. Revisions are presently being made by Brown and Caldwell based on comments from HQ Structures and D7 Office of Engineer

Schedule

Design/Construction Schedule for Paxton PR Media Filter and Metro MS MCTT

Activities	Scheduled	Actual	Duration
Obtain EA	06/01/99	07/15/99	
Begin Clearance Process	06/28/99	07/16/99	
Obtain District Clearances/to Dist OE	02/25/00		
Obtain District OE Approval/to HQ	04/07/00		
End HQ Review, Advertise & Bid Opening	05/28/00		12
Award Contract	06/19/00		4
Begin Construction	07/03/00		4
Complete Construction	10/30/00		16
Fully Operational	11/24/00		2

Alameda Maintenance Station (Site ID 74201) Brown and Caldwell

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain viable samples. See General Issues/Solutions above. Rainfall total was 0.43 inches with an additional 0.08 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

None this period.

Eastern Regional Maintenance Station (Site ID 74202) Brown and Caldwell

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain samples. See General Issues/Solutions above. Rainfall total was 0.55 inches with an additional 0.16 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

None this period.

Foothill Maintenance Station (Site ID 74203) Brown and Caldwell

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain samples. See General Issues/Solutions above. Rainfall total was 0.64 inches with an additional 0.04 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

None this period.

Termination Park and Ride (Site ID 74204) Brown and Caldwell

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain samples. See General Issues/Solutions above. Rainfall total was 0.54 inches with and additional 0.07 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

None this period.

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

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain samples. See General Issues/Solutions above. Rainfall total was 0.58 inches with and additional 0.31 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

The site was found breeding on January 27. For the past several months, water levels in the sedimentation vault have been maintained below the tops of the sedimentation tubes. During this period, VCD field technicians have monitored this site by removing five to six sedimentation tube “units” at random and sampling the exposed water for mosquito

larvae. Using these sampling protocols, this site has not shown any breeding for several weeks. Recently, the water level has become elevated to a point above the sedimentation tubes, exposing numerous mosquito larvae and pupae. Since pupae were encountered, the field technician felt it necessary to treat the sedimentation vault with Golden Bear oil – the only material available for eliminating pupae.

Issues/Solutions

None this period.

Lakewood Park and Ride (Site ID 74206) Brown and Caldwell

Monitoring/Sampling Activities

A storm occurred January 25 for which BC mobilized but did not obtain samples. See General Issues/Solutions above. Rainfall total was 0.46 inches with an additional 0.07 inches reported after a dry period of approximately six hours.

January 27: Post-storm inspections were conducted. The dirty sample bottles were collected and are scheduled for decontamination. Clean sample bottles were put in place.

Operation and Maintenance

None this period.

Vector Activities

None noted during routine inspection.

Issues/Solutions

A malfunctioning pump was removed, replaced, and transferred on Jan 28th.

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

Monitoring/Sampling Activities

1/15/00 through 1/28/00: Data was downloaded from the monitoring equipment.

1/15/00: Samplers were programmed for forecasted storm and checked functionality of pressure transducer.

1/16/00: Forecasted storm produced 0.04 inch of rain. No crews were mobilized.

1/18/00: Obtained a new set of keys from the maintenance station supervisor.

1/24/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/25/00: Storm produced 0.45 inch of rainfall. Grab and composite samples were collected at both the influent and effluent locations and sent to the laboratory for analysis. Influent and effluent samples represented 86% and 95%

storm capture, respectively, and enough volume was collected to run the entire analytical suite. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/19/00: Drained spreader ditch; runoff was produced during 16/17 January storm event (0.04 inch rainfall total).

1/25/00: Flow passed through the entire strip and discharged into the infiltration trench. No channelization or ponding was observed. Of note, earthworms were flooded from the biofilter and then discharged into the collector ditch.

1/26/00: Drained spreader ditch.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

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

Monitoring/Sampling Activities

1/15/00 through 1/28/00: Data was downloaded from the monitoring equipment.

1/15/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/16/00: Forecasted storm did not produce measurable rain. No crews were mobilized.

1/19/00: Re-attached west edge of rubber monitoring vault berm.

1/24/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/25/00: Storm produced 0.65 inch of rainfall. Composite samples were collected at both the Fossil Filter and StreamGuard DII locations and sent to the laboratory for analysis. Both samples represented 100% storm capture and enough volume was collected to run the entire analytical suite. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/15/00: Conducted pre-storm inspection of DIIs. No maintenance was required.

1/24/00: Conducted pre-storm inspection of DIIs. Trash was removed from the Fossil Filter DII in accordance with the MID. No maintenance was required at the StreamGuard DII.

1/25/00: Organic matter accumulated in the Fossil Filter DII blocking the filter cartridge causing flow bypass. DII was subsequently cleaned once during the storm event in accordance with the MID. Bypass did not occur after cleaning.

Some leaves accumulated in the StreamGuard DII. No bypass occurred and no maintenance was required.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

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

Monitoring/Sampling Activities

1/15/00 through 1/28/00: Data was downloaded from the monitoring equipment.

1/15/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/16/00: Forecasted storm produced 0.07 inch of rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/25/00: Storm produced 0.86 inch of rainfall. A composite sample was collected at the Fossil Filter DII location and sent to the laboratory for analysis. A composite sample was also collected at the StreamGuard DII location but not enough sample volume was obtained for laboratory analysis. The Fossil Filter DII sample represented 100% storm capture and enough volume was collected to run the entire analytical suite. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/15/00: Conducted pre-storm inspection of DIIs. Leaves were removed from the Fossil Filter DII in accordance with the MID. No maintenance was required at the StreamGuard DII.

1/24/00: Conducted pre-storm inspection of DIIs. Leaves were removed from the Fossil Filter DII in accordance with the MID. No maintenance was required at the StreamGuard DII.

1/25/00: Sediment and leaves accumulated in the Fossil Filter DII blocking part of the filter cartridge but bypass was not observed. DII was subsequently cleaned once during the storm event in accordance with the MID.

Some leaves accumulated in the StreamGuard DII. No bypass occurred and no maintenance was required.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

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

Monitoring/Sampling Activities

1/15/00 through 1/28/00: Data was downloaded from the monitoring equipment.

1/15/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/16/00: Forecasted storm produced 0.01 inch of rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm and flumes were cleaned.

1/25/00: Storm produced 0.72 inch of rainfall. Composite samples were collected at both the Fossil Filter and StreamGuard DII locations and sent to the laboratory for analysis. Both samples represented 100% storm capture and enough volume was collected to run the entire analytical suite. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/15/00: Conducted pre-storm inspection of DIIs. Leaves, sediment, and trash were removed from the Fossil Filter DII in accordance with the MID. No maintenance was required at the StreamGuard DII.

1/24/00: Conducted pre-storm inspection of DIIs. Trash and debris were removed from the Fossil Filter DII in accordance with the MID. No maintenance was required at the StreamGuard DII.

1/25/00: Some leaves, debris, and sediment accumulated in the Fossil Filter DII blocking part of the filter cartridge but bypass was not observed. DII was subsequently cleaned once during the storm event in accordance with the MID.

Some leaves and debris accumulated in the StreamGuard DII. No bypass occurred and no maintenance was required.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

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

Monitoring/Sampling Activities

Strip:

1/16/00: Samplers were programmed for forecasted storm and flumes were cleaned. Forecasted storm did not produce measurable rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm.

1/25/00: Storm produced 0.55 inch of rainfall. Collection of a paired sample was unsuccessful. Empirical observations were made.

Swale:

1/16/00: Samplers were programmed for forecasted storm and flumes were cleaned. Forecasted storm did not produce measurable rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm.

1/25/00: Storm produced 0.55 inch of rainfall. Collection of a paired sample was unsuccessful. Empirical observations were made.

Operations and Maintenance

Strip:

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/14/00: Two gopher traps set.

1/18/00: No gophers caught from traps set on 1/14/00. Old burrows filled in with soil and one trap set in fresh burrow.

1/25/00: Flow was not perceptible through the biofilter and no flow was recorded by the monitoring equipment. No channelization or ponding was observed within the strip.

1/28/00: Gopher traps to be set in fresh burrows and old burrows filled in with soil.

Swale:

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/14/00: Two gopher traps set.

1/18/00: No gophers caught from traps set on 1/14/00. Old burrows filled in with soil and two traps set in fresh burrows.

1/25/00: Flow passed through 3/4 of the swale. No channelization or ponding was observed within the swale.

1/28/00: Gopher traps to be set in fresh burrows and old burrows filled in with soil.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

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

Monitoring/Sampling Activities

1/15/00 through 1/28/00: Data was downloaded from the monitoring equipment.

1/16/00: Samplers were programmed for forecasted storm and flumes were cleaned. Forecasted storm did not produce measurable rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm.

1/25/00: Storm produced 0.55 inch of rainfall. Collection of a paired samples was unsuccessful. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/14/00: Two gopher traps set.

1/18/00: One gopher caught from traps set on 1/14/00. Old burrows filled in with soil and four traps set in fresh burrows. Old burrows filled in with soil and one more gopher caught.

1/25/00: Flow passed through 2/3 of the swale. As flow progressed through the swale, it infiltrated through previously filled-in gopher holes causing the runoff to flow into the subsurface gopher hole laterals. Flow eventually eroded areas of the side slope where gopher holes had been previously filled in and where new gopher holes had been burrowed during the storm event, resulting in damage to the swale and flow bypass. As a temporary measure to promote flow to pass through the entire length of the swale, onsite soil and sand bags were used to repair the eroded areas. The eroded areas will be repaired by 1/31/00.

1/28/00: Gopher traps to be set in fresh burrows and old burrows filled in with soil.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

1-51/I-605 Bio Swale (Site ID 73224) MW/Law

Monitoring/Sampling Activities

1/15/00 through 1/28/00: Data was downloaded from the monitoring equipment.

1/16/00: Samplers were programmed for forecasted storm and flumes were cleaned. Battery was changed out at the effluent monitoring location. Forecasted storm did not produce measurable rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm.

1/25/00: Storm produced 0.55 inch of rainfall. Collection of a paired sample was unsuccessful. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/25/00: Flow passed through 1/4 of the swale. No channelization or ponding was observed within the swale.

1/28/00: Gopher traps to be set in fresh burrows and old burrows filled in with soil.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

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

Monitoring/Sampling Activities

1/16/00: Samplers were programmed for forecasted storm and flumes were cleaned. Forecasted storm did not produce measurable rain. No crews were mobilized.

1/24/00: Samplers were programmed for forecasted storm.

1/25/00: Storm produced 0.55 inch of rainfall. Collection of a paired sample was unsuccessful. Empirical observations were made.

Operations and Maintenance

1/3/00 : Monthly site inspection was completed . Minor trash pick-up occurred during this inspection.

1/25/00: Flow passed through the entire swale but only 2 cubic feet of flow discharged passed the effluent monitoring location. No channelization or ponding was observed within the swale.

Vector Activities

12/8, 14, 20, 27: All sites were inspected. No activity was noted during routine inspections.

Issues / Solutions

None reported this period.

District 11 BMP Pilot Sites

Monitoring Activities Applicable to All Sites

On the morning of January 25, exactly one year to date from the first monitored event of a BMP in 1999, the National Weather Service predicted a 70% chance of measurable rainfall in San Diego. The Quantitative Precipitation Forecast predicted 0.6" in North County San Diego and 0.5" in San Diego. Caltrans was notified and a full mobilization occurred. However, the storm system did not produce the quantities that were predicted and rainfall in San Diego County ranged from a high of 0.3" at I-15/SR-78 EDB to a low of 0.08" at Kearny Mesa Maintenance Station. However, representative storm samples from the inlet and the outlet were retrieved from the following BMPs: I-15/SR-78 EDB, Escondido Maintenance Station, I-5/SR-78 Park and Ride, the La Costa Park and Ride, the La Costa Wet Basin and Kearny Mesa Maintenance Station. Collection of a paired sample was unsuccessful for the following sites: Palomar Biofiltration Swale, Carlsbad Maintenance Station, Manchester EDB, 5/56 EDB.

Maintenance Activities Applicable to all sites

Site inspections were completed at all sites after the monitored January 25 event.

Vector Activities Applicable to all sites

Vector inspections of all BMP sites occurred on January 3, 10, 18, and 24.

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

Monitoring/Sampling Activities

During the January 25 event, 0.17" of rainfall fell at the 5/56 EDB and the inlet took 11 samples. A max stage of 0.36 ft was recorded on January 25 at 12:20 PST. The outlet, however, took only 4 samples and had a max stage of 0.053 ft on January 25 at 02:00 PST. Collection of paired samples was unsuccessful.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, both the inlet rip rap and the rip rap berm were full of standing water. No mosquito breeding was noted. The mosquito larval samples taken on December 27, 1999 for laboratory rearing, following treatment with Altosid pellets, had all died prior to adult emergence. On January 10, the inlet rip rap basin and the rip rap berm had shallow standing water with no mosquito breeding. On January 18, about 1/3 of the first basin had shallow standing water. The second basin had standing water throughout the rip rap. No mosquito breeding was noted. On January 24, the

first basin was dry. The second basin was breeding mosquito larvae. The site was treated with Altosid pellets, and a live sample was collected for lab rearing.

Issues / Solutions

No non-stormwater discharges were noted during this time period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.3" of rainfall fell at 15/78 EDB and the inlet took 53 samples with a 100% storm capture. A max stage of 0.198 ft was recorded on January 26 at 01:20 PST. The outlet took 11 samples with 100% storm capture and had a max stage of 0.082 ft on January 26 at 01:58 PST. Grabs for the inlet and outlet were collected on January 25. The collection of paired samples was unsuccessful.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, 10, 18, and 24, the site was dry.

Issues / Solutions

None this period.

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

Monitoring/Sampling Activities

The La Costa Infiltration Basin was instrumented with monitoring equipment on January 12. Baseline well samples were taken on January 19. Attempts to recover baseline sediment samples using the OMM procedure and a Geo-probe Macro Corer on January 17 failed because of a layer of coarse aggregate. An alternative method using a powered vibracore will be used to get these samples.

Required water level data from the January 25 storm event was obtained at the La Costa Infiltration Basin.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3 and 10, the site was dry with the water table 2-3 inches below surface (as revealed in a footprint). On January 18 and 24, the site was dry.

Issues / Solutions

None this period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.16" of rainfall fell at the site and the inlet took 9 samples with a 100% storm capture. A max stage of 0.117 ft was recorded on January 25 at 11:38 PST. The outlet took 18 samples with 100% storm capture and had a max stage of 0.755 ft on January 25 at 14:37 PST. Grabs for the inlet and outlet were collected on January 25. The composite bottles from the inlet and outlet were sub-sampled on January 26 and sent to the Laboratory for chemical analysis.

Analytical and QA/QC results for the baseline monthly 48-hour time weighted composite samples of the Wet Basin are provided for the months of September, October, and November.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3 and 10, no mosquito breeding was noted in the standing water and the Gambusia were plentiful. On January 18, mosquito breeding was noted and sampled at the north end of the wet basin. No treatment was made. On January 24, no mosquito breeding was noted.

Issues / Solutions

None this period.

I-6/Manchester Avenue Extended Detention Basin (Site ID 111105) KLI

Monitoring/Sampling Activities

During the January 25 event, 0.2" of rainfall fell at the site and the inlet took 11 samples with a 100% storm capture. A max stage of 0.127 ft was recorded on January 25 at 12:37 PST. The outlet did not take any samples

and had a max stage of 0.01 ft on January 25 at 14:09 PST. Visual observations confirmed the slow flow at the outlet. Collection of paired samples was unsuccessful.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, the site was damp, but no standing water was noted. On January 10, 18, and 24, the site was dry.

Issues/Solutions

None

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

Monitoring/Sampling Activities

During the January 25 event, 0.08" of rainfall fell at the site and the inlet took 7 samples with a 100% storm capture. A max stage of 0.292 ft was recorded on January 26 at 01:34 PST. The outlet took 22 samples with 100% storm capture and had a max stage of 0.194 ft on January 26 at 01:47 PST. The difference in sample numbers at the inlet and outlet was due to a difference in Volume to Sample ratio set into the respective samplers at the beginning of the storm event. The inlet was set to 0.08 kcf and the outlet was set to 0.03 kcf. The composite bottles from the inlet and outlet were sub-sampled on January 26 and sent to the Laboratory for chemical analysis.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, no mosquito breeding was noted in the standing water. On January 10, the pre-sedimentation chamber held about two feet of standing water and the spreader trough for the first media chamber also had standing water. No mosquito breeding was noted. On January 18 and 24, the first chamber held about two feet of standing water, and the spreader trough for the second chamber also had standing water. No mosquito breeding was noted.

Issues / Solutions

No non-stormwater discharges were noted during this time period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.29" of rainfall fell at the site and the inlet took 49 samples with a 100% storm capture. A max stage of 0.213 ft was recorded on January 25 at 12:16 PST. The outlet took 42 samples and had a max stage of 0.136 ft on January 26 at 09:00 PST. Grabs for the inlet were collected on January 25 and grabs for the outlet were collected on January 26. The composite bottles from the inlet and outlet were sub-sampled on January 26 and sent to the Laboratory for chemical analysis.

Operations and Maintenance

No maintenance activities to note during this period.

Vector Activities

On January 3, no mosquito breeding was noted in the standing water. On January 10, there was about 10-12" of standing water throughout the pre-sedimentation basin, but no mosquito breeding was noted. On January 18, there was about 5" of standing water throughout the first basin; no breeding was noted. On January 24, there was 5-10" of standing water throughout the first basin. No mosquito breeding was noted.

Issues / Solutions

None this period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.19" of rainfall fell at the site and the inlet took 18 samples with a 100% storm capture. A max stage of 0.301 ft was recorded on January 25 at 11:39 PST. At the time of this report, the outlet had taken 5 samples with 100% storm capture and had a max stage of 0.175 ft on January 25 at 13:14 PST. Grabs for the inlet and outlet were collected on January 25. The composite bottle from the inlet was sub-sampled on January 26 and sent to the Laboratory for chemical analysis. The outlet was still flowing at the time of this report.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, standing water was noted in the pre-sedimentation basin and the outlet bay (2-3" in both), but no mosquito breeding was observed. On January 10, the pre-sedimentation basin had small patches of standing water less than 1/2" deep and there was standing water in the outlet bay. No mosquito breeding was noted. On January 18, there was standing water in the spreader trough of the second basin, but no breeding was noted. On January 24, there was standing water in two of the three small depressions in the spreader trough of the second basin. No breeding was noted. Cast pupal skins of chironomid midges were collected in the above-mentioned depressions.

Issues / Solutions

None this period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.27" of rainfall fell at the site and the inlet took 13 samples with a 100% storm capture. A max stage of 0.239 ft was recorded on January 25 at 11:08 PST. The outlet took 13 samples with 100% storm capture and had a max stage of 0.106 ft on January 25 at 12:17 PST. Grabs for the inlet and outlet were collected on January 25. The composite bottles from the inlet and outlet were sub-sampled on January 26 and sent to the Laboratory for chemical analysis.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, no mosquito breeding was noted in the small amount of standing water in the first basin. On January 10, no mosquito breeding was noted in standing water present in the outlet bay. On January 18, less than ¼' of standing water was noted in the first basin; no breeding was noted. On January 24, standing water was present in two of the three small depressions in the spreader trough in the second basin. No mosquito breeding was noted.

Issues / Solutions

None this period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.22" of rainfall fell at the site and the inlet took 3 samples. A max stage of 0.254 ft was recorded on January 25 at 11:42 PST. The outlet took no samples and there was no change in stage throughout the event. Collection of paired samples was unsuccessful.

Operations and Maintenance

No maintenance activities to note during this time period.

Vector Activities

On January 3, 10, 18 and 24, the site was dry and active signs of gophers were noted.

Issues / Solutions

None

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

Monitoring/Sampling Activities

During the January 25 event, 0.24" of rainfall fell at the site and the inlet took 10 samples with a 100% storm capture. A max stage of 0.347 ft was recorded on January 25 at 12:10 PST. The outlet took no samples and there was no significant change in stage throughout the event. Collection of paired samples was unsuccessful.

Operation and Maintenance

No maintenance activities to note for this time period.

Vector Activities

On January 3 and 10 the site was dry and signs of active gophers were noted. On January 18, about four square feet of standing water ¼' deep was noted near the drain at the south end of the BMP; no breeding was noted. On January 24, the site was dry and signs of active gophers were noted.

Issues / Solutions

No non-stormwater discharges were noted during this time period.

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

Monitoring/Sampling Activities

During the January 25 event, 0.29" of rainfall fell at the site and the inlet took 38 samples with a 100% storm capture. A max stage of 0.373 ft was recorded on January 25 at 11:31 PST. However, the outlet of the western bio-filtration strip took no samples and had no change in stage throughout the event. Collection of paired samples was unsuccessful.

Operations and Maintenance

Strip: No maintenance activities to note during this time period.

Trench: No maintenance activities to note during this time period.

Vector Activities

On January 3, 10, 18, and 24, the site was dry.

Issues / Solutions

None this period.

BMP OPERATIONS STATUS OF REMAINING SITES TO BE CONSTRUCTED

Location	BMP Type	Monitor Consultant	Estimated Date Site "On-line" ²	Begin Instrument Install ¹	Complete Instrument Install	Operational ³ (start empirical and maintain)	Ready for Water Quality Monitoring ⁴
DISTRICT 7							
I-210 East of Orcas	CDS	MW/Law	3/31/00	3/31/00	4/14/00	4/14/00	4/14/00
I-210 East of Filmore	CDS	MW/Law	3/31/00	3/31/00	4/14/00	4/14/00	4/14/00
Paxton Park & Ride	MF	BC	11/10/00	11/10/00	11/24/00	11/24/00	11/24/00
Metro MS	MCTT	BC	11/10/00	11/10/00	11/24/00	11/24/00	11/24/00

¹ Equipment installation schedule is dependent upon construction schedule.

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

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

⁴ 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	1998-1999 Successfully Sampled Storms ¹	1999-2000 Successfully Sampled Storms
District 7							
I-605/SR-91	IB	MW/Law	Yes	4/9/99	4		
I-210 East of Orcas	CDS	MW/Law		4/14/00 ³	8		
I-210 East of Filmore	CDS	MW/Law		4/14/00 ³	8		
I-5/I-605	EDB	BC	Yes	2/26/99	10	2	
I-605/SR-91	EDB	BC	Yes	2/22/99	10	3	
Paxton Park & Ride	MF	BC		11/24/00 ³	8		
Metro MS	MCTT	BC		11/24/00 ³	8		
Alameda MS	OWS	BC	Yes	5/17/99	8		
Eastern MS	MF	BC	Yes	2/15/99	8	1	
Foothill MS	MF	BC	Yes	3/8/99	8	2	
Termination Park & Ride	MF	BC	Yes	5/17/99	8		
Via Verde Park & Ride	MCTT	BC	Yes	5/17/99	8		
Lakewood Park & Ride	MCTT	BC	Yes	5/17/99	8		
Altadena	Bio Strip	MW/Law	Yes	10/1/99	8		1
	Infiltration Trench	MW/Law	Yes	10/1/99	8		1
Foothill MS	DII north- StreamGuard Insert	MW/Law	Yes	1/22/99	8	3	1
	DII south- Fossil Filter Insert	MW/Law	Yes	1/22/99	8	3	1
LasFlores MS	DII north-StreamGuard Insert	MW/Law	Yes	1/22/99	8	5 ²	1
	DII south-Fossil Filter Insert	MW/Law	Yes	1/22/99	8	2	
Rosemead MS	DII north-Fossil Filter Insert	MW/Law	Yes	1/22/99	8	3 ²	1
	DII south-StreamGuard Insert	MW/Law	Yes	1/22/99	8	3	1
I-605/SR-91	Bio Strip	MW/Law	Yes	1/22/99	8		
	Bio Swale	MW/Law	Yes	10/1/99	8		
Cerritos MS	BioSwale	MW/Law	Yes	10/1/99	8		
I-5/I-605	BioSwale	MW/Law	Yes	10/1/99	8		
I-605/ Del Amo	BioSwale	MW/Law	Yes	10/1/99	8		
District 11							
I-5/SR-56	EDB	KLI	Yes	1/24/99	4	5	
I-15/SR-78	EDB	KLI	Yes	1/24/99	10	4	1
I-5/La Costa (West)	IB	KLI	Yes	1/24/99	4		
I-5/La Costa (East)	WB	KLI	Yes	10/1/99	4		1
I-5/Manchester (East)	EDB	KLI	Yes	10/1/99	4		
Kearney Mesa MS	StormFilter (Perlite/Zeolite)	KLI	Yes	10/1/99	8	3	1
Escondido MS	MF	KLI	Yes	2/16/99	8	3	1
La Costa Park & Ride	MF	KLI	Yes	2/16/99	4	3	1
SR-78/I-5 Park & Ride	MF	KLI	Yes	2/26/99	8	2	1
Melrose Ave/SR-78	Bio Swale	KLI	Yes	3/1/99	8		
I-5 Palomar Airport Road	Bio Swale	KLI	Yes	10/1/99	8		
Carlsbad MS	Bio Strip	KLI	Yes	10/1/99	4		
	Infiltration Trench	KLI	Yes	10/1/99	4		

1. All DII data in question. A criteria for acceptance will be established
2. Pending result of inlet analysis
3. Subject to Schedule Update

OMM PLAN ACTIVITIES

Volumes I and II

The documents have been finalized and adopted.

Maintenance Indicator Document

Minor revisions to several BMPs are being made. A draft revised MID is forthcoming.

Database

Updated reports (January) are currently posted on the website www.rbf.com/caltrans. The database now has the ability to generate site-specific reports (in addition to the currently available sorting by BMP type or by District). A site-by site reporting will be implemented on the web site for the February posting.

O&M Cost

Updated Maintenance & Operation Cost Accounting Summaries for 1999/00 are attached to this Biweekly Report. OMM Costs are provided through the month of December 1999.

VECTOR ACTIVITIES

SUMMARY OF VECTOR ISSUES FROM 1/15/99 TO 1/28/00

Site-specific details on vector activities are provided in the OMM section.

DISTRICT 7

San Gabriel Valley Vector Control District

The MCTT at the Via Verde P&R (site #74206) was found breeding on January 27. For the past several months, water levels in the sedimentation vault have been maintained below the tops of the sedimentation tubes. During this period, VCD field technicians have monitored this site by removing five to six sedimentation tube "units" at random and sampling the exposed water for mosquito larvae. Using these sampling protocols, this site has not shown any breeding for several weeks. Recently, the water level has become elevated to a point above the sedimentation tubes, exposing numerous mosquito larvae and pupae. Since pupae were encountered, the field technician felt it necessary to treat the sedimentation vault with Golden Bear oil – the only material available for eliminating pupae.

Greater Los Angeles County Vector Control District

No sites were found breeding during this period.

No abatement was carried out during this period.

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

Two sites - I5/56 EDB and the La Costa Wet Basin were found breeding during this period. The I5/56 EDB was treated with Altosid pellets on Jan 24, 2000.

DEPARTMENT OF HEALTH SERVICES

The Department of Health Services (DHS) continues soliciting vector production information from other states and municipalities with structural BMPs. DHS has mailed surveys to over 300 mosquito abatement and public health offices across the country. An interim report on the progress of this task is included as an attachment to the biweekly report.

DHS continues its vector production study and will be collecting data on a bi-weekly basis through the winter months.

DHS continues to oversee all aspects of vector monitoring and data collection by the local vector control districts and incorporate this information into its database.

DHS is currently searching for engineering expertise within its organization to assist in undertaking a general design review and formulating design recommendations with regard to vector production problems associated with the BMPs.

ADULT MONITORING

All adult monitoring data is currently being statistically analyzed by UC Riverside and appears to be taking longer than anticipated. Once this analysis is complete, UC Riverside will meet with Caltrans, consultants, DHS and VCD representatives to determine whether the adult monitoring program should be continued. This meeting was originally scheduled for Friday January 28, but has been re-scheduled for Monday, January 31st. The final report from UCR will be ready for the next bi-weekly report.

The sites monitored by each VCD are summarized in the following table:

Sites Monitored by Vector Control District

Location	BMP Type	Monitor Consultant	Vector Control District	Activities
DISTRICT 7				
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	January 27: Breeding found and treated with Golden Bear oil.
Lakewood Park & Ride	MCTT	BC	GLACVCD	None noted during routine inspection.
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.

DISTRICT 11				
I-5/SR-56	EDB	KLI	SD Co VC	January 24: Breeding found in the second basin; site treated with Altosid.
I-15/SR-78	EDB	KLI	SD Co VC	None noted during routine inspection.
I-5/La Costa (West)	IB	KLI	SD Co VC	None noted during routine inspection.
I-5/La Costa (East)	WB	KLI	SD Co VC	January 18: Breeding noted and sampled at the north end of the basin; no treatment made.
I-5/Manchester (East)	EDB	KLI	SD Co VC	None noted during routine inspection.
Kearney 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/TT	KLI	SD Co VC	None noted during routine inspection.

ENVIRONMENTAL ISSUES

No surveys were conducted this period.

As noted in the previous biweekly report, a letter was received from the USFWS provided further direction in the type of surveys we should conduct for light-footed clapper rail (visual as opposed to tape playback) and requested coordination with regard to maintenance at the La Costa wet basin. A letter to USFWS is being prepared acknowledging receipt of the letter and adhering to USFWS' preference of conducting a visual survey of the light-footed clapper rail.

WEATHER

Precipitation data for Los Angeles and San Diego were obtained from NOAA (see Tables, next page).

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.

January 2000

Los Angeles – Downtown/USC				San Diego			
Day	Precip. (Inches)	Day	Precip. (Inches)	Day	Precip. (Inches)	Day	Precip. (Inches)
1	0.12	16	0.00	1	0.28	16	0.03
2	0.00	17	0.02	2	0.04	17	Trace
3	0.00	18	0.01	3	0.00	18	0.00
4	0.00	19	0.00	4	0.00	19	0.00
5	0.00	20	0.00	5	0.00	20	0.00
6	0.00	21	0.00	6	0.00	21	0.00
7	0.00	22	0.00	7	0.00	22	0.00
8	0.00	23	0.02	8	0.00	23	0.00
9	0.00	24	0.00	9	0.00	24	0.00
10	0.00	25	0.42	10	0.00	25	Trace
11	0.00	26	0.14	11	0.00	26	0.03
12	0.00	27		12	0.00	27	
13	0.00	28		13	0.00	28	
14	0.00	29		14	0.00	29	
15	0.00	30		15	0.00	30	
		31				31	