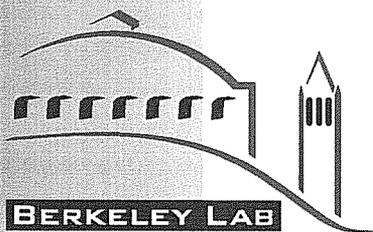


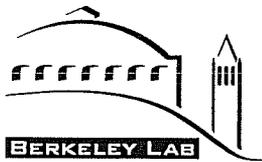
Stormwater Discharges Associated with Industrial Activity

prepared for the State of California
State Water Resources Control Board



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

July 1, 2002



Environment, Health & Safety Division
Environmental Services Group

Mr. Rico Duazo
San Francisco Bay Regional Water Quality Control Board
1515 Clay St., Suite 1400
Oakland, CA 94612

June 21, 2002
ES-02-061

HAND DELIVERED

Subject: Transmittal of Storm Water Annual Report
General Industrial Permit
Facility WDID No. 2 01S002421

Dear Mr. Duazo:

In accordance with the terms of the California general permit referenced above, enclosed you will find Berkeley Lab's 2001-2002 Annual Report for storm water discharges associated with industrial activities. We have used the forms provided by the State Water Resources Control Board on its website for this purpose, and have also included backup information on our own forms, plus the required analytical laboratory reports. If you have any further questions on the report, please call me at (510) 486-7413.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, this information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

Regina Lackner
Environmental Specialist

REL

cc: wo/attachment
S. Benson
J. Jelinski
D. McGraw
R. Pauer
N. Shepard
H. Carwell DOE/BSO

w/partial attachment
S. Black DOE/OAK
C. Schwab DOE/BSO

w/attachment
N. Al-Hadithy, COB

State of California
STATE WATER RESOURCES CONTROL BOARD

2001-2002
ANNUAL REPORT
FOR
STORM WATER DISCHARGES ASSOCIATED
WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2001 through June 30, 2002

An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year. This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. **Retain a copy of the completed Annual Report for your records.**

If any information contained in Items A, B, C, and D below differs from the information provided in your Notice of Intent (NOI), circle or highlight the information that differs from your NOI so we can update our records. Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility is relocated or changes ownership.

If you have any questions, please contact your Regional Board Storm Water Program Contact. The address of the Regional Board (where the Annual Report must be filed) along with the name, telephone number and e-mail address of the contact is indicated on page 9 of this Annual Report. To find your Regional Board information, match the first digit of your WDID number with the corresponding number that appears in parenthesis on the first line of each Regional Board office.

GENERAL INFORMATION:

Facility WDID No: 2 01S002421

A. Facility Location:

Facility Name: Lawrence Berkeley National Laboratory

Address: 1 Cyclotron Road, 75B-101

City: Berkeley State: CA Zip: 94720 Phone: (510) 486-7413

B. Facility Operator Information:

Operator Name: Lawrence Berkeley National Laboratory Contact Person: Regina Lackner

Mailing Address: 1 Cyclotron Road, 75B-101 Title: Environmental Specialist

City: Berkeley State: CA Zip: 94720 Phone: (510) 486-7413

Standard Industrial Classification (SIC) Code(s): 8733, 3499, 4953

C. Facility Information: (Complete if different from facility mailing address in Item A above)

Street Address: _____

City: _____ State: _____ Zip: _____

2001-2002
ANNUAL REPORT

SPECIFIC INFORMATION

MONITORING AND REPORTING PROGRAM

D. SAMPLING AND ANALYSIS EXEMPTIONS AND REDUCTIONS

1. For the reporting period, was your facility exempt from collecting and analyzing samples from **two** storm events in accordance with sections B.12 or 15 of the General Permit?

YES Go to Item D.2

NO Go to Section E

2. Indicate the reason your facility is exempt from collecting and analyzing samples from **two** storm events. Attach a copy of the first page of the appropriate certification if you check boxes ii, iii, iv, or v.

i. Participating in an Approved Group Monitoring Plan

Group Name: _____

ii. Submitted **No Exposure Certification (NEC)**

Date Submitted: _____

Re-evaluation Date: _____

Does facility continue to satisfy NEC conditions?

YES

NO

iii. Submitted **Sampling Reduction Certification (SRC)**

Date Submitted: _____

Re-evaluation Date: _____

Does facility continue to satisfy SRC conditions?

YES

NO

iv. Received Regional Board Certification

Certification Date: _____

v. Received Local Agency Certification

Certification Date: _____

3. If you checked boxes i or iii above, were you scheduled to sample **one** storm event during the reporting year?

YES Go to Section E

NO Go to Section F

4. If you checked boxes ii, iv, or v, go to Section F.

E. SAMPLING AND ANALYSIS RESULTS

1. How many storm events did you sample? 3

If less than 2, **attach explanation** (if you checked item D.2.i or iii. above, only attach explanation if you answer "0").

2. Did you collect storm water samples from the first storm of the wet season that produced a discharge during scheduled facility operating hours? (Section B.5 of the General Permit).

YES

NO, attach explanation (Please note that if you do not sample the first storm event, you are still required to sample 2 storm events)

3. How many storm water discharge locations are at your facility?

3 Discharge, 1 Influent

2001-2002
ANNUAL REPORT

4. For each storm event sampled, did you collect and analyze a sample from each of the facilities storm water discharge locations? YES NO
5. Was sample collection or analysis reduced in accordance with Section B.7.d of the General Permit? YES NO, **attach explanation**

If "YES", **attach documentation** supporting your determination that two or more drainage areas are substantially identical.

Date facility's drainage areas were last evaluated _____

6. Were all samples collected during the first hour of discharge? YES NO, **attach explanation**
7. Was all storm water sampling preceded by three (3) working days without a storm water discharge? YES NO, **attach explanation**
8. Were there any discharges of stormwater that had been temporarily stored or contained? (such as from a pond) YES NO, go to Item E.10
9. Did you collect and analyze samples of temporarily stored or contained storm water discharges from two storm events? (or one storm event if you checked item D.2.i or iii. above) YES NO, **attach explanation**
10. Section B.5. of the General Permit requires you to analyze storm water samples for pH, Total Suspended Solids (TSS), Specific Conductance (SC), Total Organic Carbon (TOC) or Oil and Grease (O&G), other pollutants likely to be present in storm water discharges in significant quantities, and analytical parameters listed in Table D of the General Permit.
- a. Does Table D contain any additional parameters related to your facility's SIC code(s)? YES NO, Go to Item E.11
- b. Did you analyze all storm water samples for the applicable parameters listed in Table D? YES NO
- c. If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:

 X In prior sampling years, the parameter(s) have not been detected in significant quantities from two consecutive sampling events. **Attach explanation**

 The parameter(s) is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the facility operator's evaluation. **Attach explanation**

 Other. **Attach explanation**

11. For each storm event sampled, attach a copy of the laboratory analytical reports and report the sampling and analysis results using **Form 1** or its equivalent. The following must be provided for each sample collected:

- Date and time of sample collection
- Name and title of sampler.
- Parameters tested.
- Name of analytical testing laboratory.
- Discharge location identification.
- Testing results.
- Test methods used.
- Test detection limits.
- Date of testing.
- Copies of the laboratory analytical results.

2001-2002
ANNUAL REPORT

F. QUARTERLY VISUAL OBSERVATIONS

1. Authorized Non-Storm Water Discharges

Section B.3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources.

a. Do authorized non-storm water discharges occur at your facility?

YES NO Go to Item F.2

b. Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. **Attach an explanation for any "NO" answers.** Indicate "N/A" for quarters without any authorized non-storm water discharges.

July -September YES NO N/A October-December YES NO N/A

January-March YES NO N/A April-June YES NO N/A

c. Use **Form 2** to report quarterly visual observations of authorized non-storm water discharges or provide the following information.

- i. name of each authorized non-storm water discharge
- ii. date and time of observation
- iii. source and location of each authorized non-storm water discharge
- iv. characteristics of the discharge at its source and impacted drainage area/discharge location
- v. name, title, and signature of observer
- vi. **any** new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date.

2. Unauthorized Non-Storm Water Discharges

Section B.3.a of the General Permit requires quarterly visual observations of all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources.

a. Indicate whether you visually observed all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources. **Attach an explanation for any "NO" answers.**

July -September YES NO October-December YES NO

January-March YES NO April-June YES NO

b. Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected?

YES NO Go to Item F.2D

c. Have each of the unauthorized non-storm water discharges been eliminated or permitted?

YES NO **Attach explanation**

d. Use **Form 3** to report quarterly unauthorized non-storm water discharge visual observations or provide the following information.

- i. name of each unauthorized non-storm water discharge.
- ii. date and time of observation.
- iii. source and location of each unauthorized non-storm water discharge.
- iv. characteristics of the discharge at its source and impacted drainage area/discharge location.
- v. name, title, and signature of observer.
- vi. **any** corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water discharge(s) was eliminated or scheduled to be eliminated.

2001-2002
ANNUAL REPORT

G. MONTHLY WET SEASON VISUAL OBSERVATIONS

Section B.4.a of the General Permit requires you to conduct monthly visual observations of storm water discharges at all storm water discharge locations during the wet season. These observations shall occur during the first hour of discharge or, in the case of temporarily stored or contained storm water, at the time of discharge.

1. Indicate below whether monthly visual observations of storm water discharges occurred at all discharge locations. **Attach an explanation for any "NO" answers.** Include in this explanation whether any eligible storm events occurred during scheduled facility operating hours that did not result in a storm water discharge, and provide the date, time, name and title of the person who observed that there was no storm water discharge.

October	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	February	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
November	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	March	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
December	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	April	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
January	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	May	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

2. Report monthly wet season visual observations using **Form 4** or provide the following information.
- date, time, and location of observation
 - name and title of observer
 - characteristics of the discharge (i.e., odor, color, etc.) and source of any pollutants observed.
 - any** new or revised BMPs necessary to reduce or prevent pollutants in storm water discharges. Provide new or revised BMP implementation date.

ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION (ACSCE)

H. ACSCE CHECKLIST

Section A.9 of the General Permit requires the facility operator to conduct one ACSCE in each reporting period (July 1-June 30). Evaluations must be conducted within 8-16 months of each other. The SWPPP and monitoring program shall be revised and implemented, as necessary, within 90 days of the evaluation. The checklist below includes the minimum steps necessary to complete a ACSCE. Indicate whether you have performed each step below. **Attach an explanation for any "NO" answers.**

1. Have you inspected all potential pollutant sources and industrial activities areas? The following areas should be inspected: YES NO
- areas where spills and leaks have occurred during the last year.
 - outdoor wash and rinse areas.
 - process/manufacturing areas.
 - loading, unloading, and transfer areas.
 - waste storage/disposal areas.
 - dust/particulate generating areas.
 - erosion areas.
 - building repair, remodeling, and construction
 - material storage areas
 - vehicle/equipment storage areas
 - truck parking and access areas
 - rooftop equipment areas
 - vehicle fueling/maintenance areas
 - non-storm water discharge generating areas
2. Have you reviewed your SWPPP to assure that its BMPs address existing potential pollutant sources and industrial activities areas? YES NO
3. Have you inspected the entire facility to verify that the SWPPP's site map is up-to-date? The following site map items should be verified: YES NO
- facility boundaries
 - outline of all storm water drainage areas
 - areas impacted by run-on
 - storm water discharges locations
 - storm water collection and conveyance system
 - structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.

2001-2002
ANNUAL REPORT

4. Have you reviewed all General Permit compliance records generated since the last annual evaluation? YES NO

The following records should be reviewed:

- quarterly authorized non-storm water discharge visual observations
- monthly storm water discharge visual observation
- records of spills/leaks and associated clean-up/response activities
- quarterly unauthorized non-storm water discharge visual observations
- Sampling and Analysis records
- preventative maintenance inspection and maintenance records

5. Have you reviewed the major elements of the SWPPP to assure compliance with the General Permit? YES NO

The following SWPPP items should be reviewed:

- pollution prevention team
- list of significant materials
- description of potential pollutant sources
- assessment of potential pollutant sources
- identification and description of the BMPs to be implemented for each potential pollutant source

6. Have you reviewed your SWPPP to assure that a) the BMPs are adequate in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges, and b) the BMPs are being implemented? YES NO

The following BMP categories should be reviewed:

- good housekeeping practices
- spill response
- employee training
- erosion control
- quality assurance
- preventative maintenance
- material handling and storage practices
- waste handling/storage
- structural BMPs

7. Has all material handling equipment and equipment needed to implement the SWPPP been inspected? YES NO

I. ACSCE EVALUATION REPORT

The facility operator is required to provide an evaluation report that includes:

- identification of personnel performing the evaluation
- the date(s) of the evaluation
- necessary SWPPP revisions
- schedule for implementing SWPPP revisions
- any incidents of non-compliance and the corrective actions taken.

Use **Form 5** to report the results of your evaluation or develop an equivalent form.

J. ACSCE CERTIFICATION

The facility operator is required to certify compliance with the Industrial Activities Storm Water General Permit. To certify compliance, both the SWPPP and Monitoring Program must be up to date and be fully implemented.

Based upon your ACSCE, do you certify compliance with the Industrial Activities Storm Water General Permit? YES NO

If you answered "NO" **attach an explanation** to the ACSCE Evaluation Report why you are not in compliance with the Industrial Activities Storm Water General Permit.

2001-2002
ANNUAL REPORT

ATTACHMENT SUMMARY

Answer the questions below to help you determine what should be attached to this annual report. Answer NA (Not Applicable) to questions 2-4 if you are not required to provide those attachments.

1. Have you attached Forms 1,2,3,4, and 5 or their equivalent? YES (Mandatory)
2. If you conducted sampling and analysis, have you attached the laboratory analytical reports? YES NO NA
3. If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications? YES NO NA
4. Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E.10.c, F.1.b, F.2.a, F.2.c, G.1, H.1-H.7, or J? YES NO NA

ANNUAL REPORT CERTIFICATION

I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C.9) and I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Regina Lackner

Signature: *Regina Lackner* Date: 6/30/02

Title: Environmental Specialist

ATTACHMENTS/EXPLANATIONS

E.5

Sample collection was not actually reduced. However, in last year's report we had reported taking a previous influent sampling point off-line for safety reasons and had committed to investigating other options in order to monitor the flow of stormwater onto our site in this area. After investigation and consideration of several alternatives, it was decided that none was feasible and actually captured all the runoff from the steep ravine above this area. There does not appear to be enough water channeled into a dry stream bed to sample even during winter storms, the actual storm sewer pipes are not accessible at this point, and other locations where it would be feasible to monitor do not capture the runoff from the southern face of the ravine. Therefore we have decided to permanently discontinue monitoring at this location. All runoff from this area is routed through the storm sewer system down the hill to the outfall into the North Fork of Strawberry, where stormwater monitoring is performed (StW02).

E.10.c

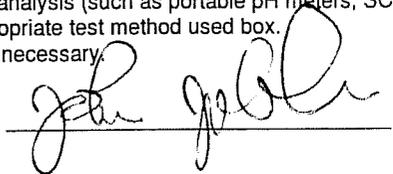
This question pertains to analysis of all storm water samples for applicable Table D parameters. We monitor for all applicable parameters (NH₃, Mg, COD, TSS, Fe, Al, Zn, N+N) except cyanide and the metals As, Cd, Pb, Hg, Se, and Ag. As explained in previous years, cyanide is no longer in general use on this site. The only outfall where cyanide monitoring would be required by the permit would be the outfall that drains the area where the Hazardous Waste Handling Facility (HWHF) is located. As stated in our Storm Water Monitoring Program, cyanide will not be monitored for at StW05 (East Canyon, the outfall that drains the area of the HWHF). Berkeley Lab had previously monitored the entire site for cyanide from 1992 through 1995 (3 storm water years, 6 samplings). The lack of any significant results justifies no further monitoring for this parameter in accordance with Section B.5.c.iii of the General Permit, and was first noted in our 1994/95 Annual Report. Additionally, baseline monitoring before the facility was built and placed in operation in 1997 showed no cyanide in runoff.

Similarly, during the review and revision of the Storm Water Monitoring Program in 2001, it was determined that many total metals had not been detected in several years. And under an agreement with the City of Berkeley, since 1996 LBL had been analyzing metals once a year for dissolved metals in addition to total metals as required by the permit. These analyses had also shown no detectable levels of these metals for at least two years, and in many cases longer. After the City of Berkeley had been duly notified and had raised no objections, the Storm Water Monitoring Program was revised to discontinue analysis of dissolved metals and of total arsenic, cadmium, lead, mercury, selenium, and silver. Starting with this 2001/2002 storm water season, and in accordance with B.5.c.iii of the General Permit, metals analyses have been reduced to four (Mg, Al, Fe, and Zn).

FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): John Jelinski TITLE: Quality Coordinator SIGNATURE: 

DESCRIBE DISCHARGE LOCATION	DATE / TIME OF SAMPLE LOCATION	TIME DISCHARGE STARTED	BASIC PARAMETERS					Total Metals (Mg, Al, Fe, Zn)	Ammonia as NH3	Nitrate Nitrite	COD	Gross Alpha	Gross Beta	Tritium
			pH	TSS	SC	O & G	TPH Diesel							
STW 2 N. Fork Straw Crk. Effluent	11/10/01 15:25 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	11/10/01 15:00 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	6.45	89	35	ND	200	Mg = 2.6 Al = 4.9 Fe = 5.9 Zn = ND	0.06	0.38	ND	ND	ND	ND
STW 3 B69 Manhole Influent	12/1/01 06:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	12/1/01 12:01 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	7.25	7	206	ND	400	Mg = 1.4 Al = 0.10 Fe = 0.2 Zn = 0.089	0.04	0.76	71	ND	5.8	1640
STW 4 Chicken Crk. Effluent	11/10/01 15:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	11/10/01 15:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	7.41	17	405	ND	1,100	Mg = 15 Al = 0.5 Fe = 0.72 Zn = ND	0.8	ND	170	ND	6	ND
STW 5 East Canyon Effluent	12/1/01 04:10 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	12/1/01 12:01 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	7.01	15	85	ND	ND	Mg = 2.7 Al = 1.0 Fe = 1.3 Zn = ND	0.05	0.17	35	ND	3.8	ND
TEST REPORTING UNITS:			pH Units	mg/L	umho/cm	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
TEST METHOD DETECTION LIMIT:			0.01	3-5	1.0	5.0	50-100	0.05	0.2-0.02	1.0-0.1	25	3	2	200
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 1664	EPA 8015M	EPA 200.7	EPA 350.1	EPA 353.2	EPA 410.4	E 900	E 900	E 906EP
ANALYZED BY (SELF/LAB):			SELF / LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

TOC - Total Organic Carbon

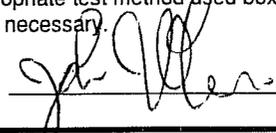
ND = Non Detected

NA = Not Sampled

FORM 1-SAMPLING & ANALYSIS RESULTS

SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): John Jelinski TITLE: Quality Coordinator SIGNATURE: 

DESCRIBE DISCHARGE LOCATION	DATE / TIME OF SAMPLE LOCATION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS (For Second Storm Event)											
			BASIC PARAMETERS					OTHER PARAMETERS						
			pH	TSS	SC	O & G	TPH Diesel	Total Metals (Mg, Al, Fe, Zn)	Ammonia as NH3	Nitrate Nitrite	COD	Gross Alpha	Gross Beta	Tritium
STW 2 N. Fork Straw Crk. Effluent	3/6/2002 02:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	3/6/2002 02:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	8.13	5.4	705	ND	260	Mg = 30 Al = 0.1 Fe = ND Zn = ND	0.2	1.3	46	ND	ND	219
STW 3 B69 Manhole Influent	3/6/2002 04:01 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	3/6/2002 02:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	8.27	ND	206	ND	110	Mg = 6.7 Al = ND Fe = ND Zn = ND	0.06	0.32	ND	ND	ND	274
STW 4 Chicken Crk. Effluent	3/6/2002 02:59 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	3/6/2002 02:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	7.45	35	104	ND	420	Mg = 3.7 Al = 0.5 Fe = 0.7 Zn = ND	0.26	0.53	75	ND	ND	547
STW 5 East Canyon Effluent	3/6/2002 03:27 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	3/6/2002 02:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	8.17	ND	904	ND	ND	Mg = 51 Al = ND Fe = ND Zn = ND	0.03	2.6	ND	ND	ND	ND
TEST REPORTING UNITS:			pH Units	mg/L	umho/cm	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
TEST METHOD DETECTION LIMIT:			0.01	2 - 5	1.0	5.0	50	0.005	0.02	0.1 ate 0.02 ite	20-25	2	3	200
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 413.1	EPA 8015M	EPA 200.7	EPA 753.1	EPA 353.2	EPA 410.4	E 900	E 900	E 906
ANALYZED BY (SELF/LAB):			SELF / LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

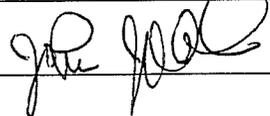
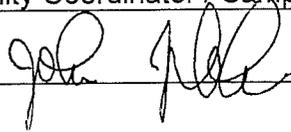
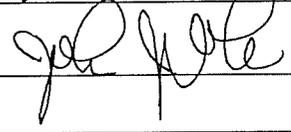
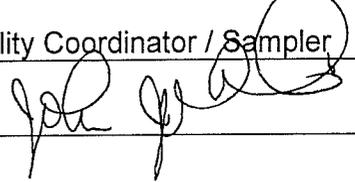
TOC - Total Organic Carbon

ND = Non Detected

NA = Not Sampled

FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

- Quarterly dry weather visual observations are required of each authorized NSWD.
- Observe each authorized NSWD source, impacted drainage area, and discharge location.
- Authorized NSWDs must meet the conditions provided in Section D (pages 5-6), of the General Permit.
- Make additional copies of this form as necessary.

<p>QUARTER: JULY - SEPTEMBER</p> <p>DATE: 9/28/01</p>	<p>Observers Name: <u>John Jelinski</u></p> <p>Title: <u>Quality Coordinator / Sampler</u></p> <p>Signature: </p>	<p>WERE ANY AUTHORIZED NSWD'S DISCHARGED DURING THIS QUARTER?</p> <p style="text-align: right;"><input type="checkbox"/> YES If YES, Complete the reverse side of this form</p> <p style="text-align: right;"><input checked="" type="checkbox"/> NO</p> <p>The SWPP includes a number of possible authorized NSWDs, however, none were observed at this time</p>
<p>QUARTER: OCTOBER - DECEMBER</p> <p>DATE: 12/21/01</p>	<p>Observers Name: <u>John Jelinski</u></p> <p>Title: <u>Quality Coordinator / Sampler</u></p> <p>Signature: </p>	<p>WERE ANY AUTHORIZED NSWD'S DISCHARGED DURING THIS QUARTER?</p> <p style="text-align: right;"><input type="checkbox"/> YES If YES, Complete the reverse side of this form</p> <p style="text-align: right;"><input checked="" type="checkbox"/> NO</p> <p>The SWPP includes a number of possible authorized NSWDs, however, none were observed at this time</p>
<p>QUARTER: JANUARY - MARCH</p> <p>DATE: 3/6/02</p>	<p>Observers Name: <u>John Jelinski</u></p> <p>Title: <u>Quality Coordinator / Sampler</u></p> <p>Signature: </p>	<p>WERE ANY AUTHORIZED NSWD'S DISCHARGED DURING THIS QUARTER?</p> <p style="text-align: right;"><input type="checkbox"/> YES If YES, Complete the reverse side of this form</p> <p style="text-align: right;"><input checked="" type="checkbox"/> NO</p> <p>The SWPP includes a number of possible authorized NSWDs, however, none were observed at this time</p>
<p>QUARTER: APRIL - JUNE</p> <p>DATE: 5/20/02 & 6/5/02</p>	<p>Observers Name: <u>John Jelinski</u></p> <p>Title: <u>Quality Coordinator / Sampler</u></p> <p>Signature: </p>	<p>WERE ANY AUTHORIZED NSWD'S DISCHARGED DURING THIS QUARTER?</p> <p style="text-align: right;"><input type="checkbox"/> YES If YES, Complete the reverse side of this form</p> <p style="text-align: right;"><input checked="" type="checkbox"/> NO</p> <p>The SWPP includes a number of possible authorized NSWDs, however, none were observed at this time</p>

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Sept 28, 2001 11:00 Am
 Date: July - Sept 2001
 Observer: John JELNICKI

Quarterly Visual Observations of Authorized Non-Stormwater Discharges

Site	STW 1 B71 Manhole	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NO Water Stains: NO Other: NO					
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments: NO Authorized Non-Stormwater discharges occurred

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

December 21, 2001 12²⁰
 Date: October - December 2001
 Observer: John. Jelinski

Quarterly Visual Observations of Authorized Non-Stormwater Discharges

Site	STW 1	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NO Water Stains: NO Other: NO					
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments: No Authorized discharged occurred

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date: 3/6/02
 Observer: John JELINSKI
 for JANUARY - MARCH 2002

Quarterly Visual Observations of Authorized Non-Stormwater Discharges

Site	STW 1	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NONE Sheen: NONE Water Stains: NONE Other: NONE					
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments:

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Period
 Date: April - June 2002

Observer: J. JELINSKI

Observed date 5/20/02 14:00

Quarterly Visual Observations of Authorized Non-Stormwater Discharges

Site	STW 1 Bld 71	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NA Water Stains: NO Other: No	Runoff: Small Sheen: NO Water Stains: NO Other: NO	Runoff: Trickle Sheen: NO Water Stains: NO Other: NO	Runoff: Small Sheen: NO Water Stains: NO Other: NO	Runoff: Trickle Sheen: NO Water Stains: NO Other: NO	Runoff: small storm slight rain Sheen: NO Water Stains: NO Other: NO
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments:

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date: 6/5/02 13⁰⁰
 Observer: John White

Quarterly Visual Observations of Authorized Non-Stormwater Discharges

Site	STW 1 B71	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NO Water Stains: NO Other: NO	Runoff: NO Slight Sheen: NO Water Stains: NO Other: NO	Runoff: NO Sheen: NO Water Stains: NO Other: NO	Runoff: Slight Sheen: NO Water Stains: NO Other: NO	Runoff: NO Sheen: NO Water Stains: NO Other: NO	Runoff: NO Sheen: NO Water Stains: NO Other: NO
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments:

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

September 28, 2001 11:00 AM
 Date: July - Sept 2001
 Observer: John JELINSKI

Quarterly Visual Observations of Non-Authorized Non-Stormwater Discharges

Site	STW 1	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NO Water Stains: NO Other: NO					
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments: NO Un-Authorized Non-Stormwater discharges occurred

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

December 21, 2001 12:30
 Date: October - December 2001
 Observer: John JELINSKI

Quarterly Visual Observations of Non-Authorized Non-Stormwater Discharges

Site	STW 1	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NO Water Stains: NO Other: NO					
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments: NO Un-Authorized Stormwater Discharges Observed

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date: 3/6/02 10:00
 Observer: John JELINSKI
JANUARY - MARCH 2002

Quarterly Visual Observations of Non-Authorized Non-Stormwater Discharges

Site	STW 1	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NONE Sheen: NONE Water Stains: NONE Other: NONE					
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments:

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date: 5/20/02 14:00

Observer: J. JELINSKI

Period: April - June 2002

Quarterly Visual Observations of Non-Authorized Non-Stormwater Discharges

Site	STW 1 Bld 71	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NA Water Stains: NO Other: NO	Runoff: small Sheen: NO Water Stains: NO Other: NO	Runoff: Trickle Sheen: NO Water Stains: NO Other: NO	Runoff: small Sheen: NO Water Stains: NO Other: NO	Runoff: THICKLE Sheen: NO Water Stains: NO Other: NO	Runoff: storm slight rain Sheen: NO Water Stains: NO Other: NO
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments:

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date: 6/5/02 130L
 Observer: [Signature]

Quarterly Visual Observations of Non-Authorized Non-Stormwater Discharges

Site	STW 1 B71	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	Sitewide
Visual Observations	Runoff: NO Sheen: NO Water Stains: NO Other: NO	Runoff: NO Slight Sheen: NO Water Stains: NO Other: NO	Runoff: NO Sheen: NO Water Stains: NO Other: NO	Runoff: Slight Sheen: NO Water Stains: NO Other: NO	Runoff: NO Sheen: NO Water Stains: NO Other: NO	Runoff: NO Sheen: NO Water Stains: NO Other: NO
Non-Stormwater Discharge Observed (Y/N)	NO	NO	NO	NO	NO	NO
Corrective Action Taken	NA	NA	NA	NA	NA	NA

Comments:

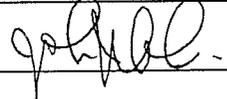
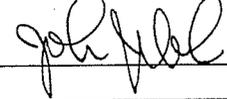
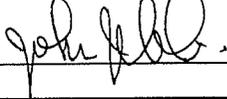
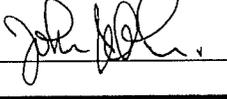
FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: October 30 2001 Observers Name: <u>John Jelinski</u> Title: <u>Quality Coordinator</u> Signature:	Drainage Location Description STW 1 B71 Water Tower	STW 2 N. Fork Strawberry	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	
	Observation Time 10/30/01 X AM 0930 PM	10/30/01 X AM 0930 PM	10/30/01 X AM 0930 PM	10/30/01 X AM 0930 PM	10/30/01 X AM 0930 PM	10/30/01 X AM 0930 PM
	Time Discharge Began 10/30/01 X AM 0200 PM	10/30/01 X AM 0200 PM	10/30/01 X AM 0200 PM	10/30/01 X AM 0200 PM	10/30/01 X AM 0200 PM	10/30/01 X AM 0200 PM
	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
	Drainage Location Description STW 1 B71 Water Tower					
Observation Date: November 12 2001 Observers Name: <u>John Jelinski</u> Title: <u>Quality Coordinator</u> Signature:	Drainage Location Description STW 1 B71 Water Tower	STW 2 N. Fork Strawberry	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	
	Observation Time 11/12/01 X AM 0930 PM	11/12/01 X AM 0930 PM	11/12/01 X AM 0930 PM	11/12/01 X AM 0930 PM	11/12/01 X AM 0930 PM	11/12/01 X AM 0930 PM
	Time Discharge Began 11/11/01 X AM 0700 PM	11/11/01 X AM 0700 PM	11/11/01 X AM 0700 PM	11/11/01 X AM 0700 PM	11/11/01 X AM 0700 PM	11/11/01 X AM 0700 PM
	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
	Drainage Location Description STW 1 B71 Water Tower					
Observation Date: December 4 2001 Observers Name: <u>John Jelinski</u> Title: <u>Quality Coordinator</u> Signature:	Drainage Location Description STW 1 B71 Water Tower	STW 2 N. Fork Strawberry	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	
	Observation Time 12/4/01 X AM 1100 PM	12/4/01 X AM 1100 PM	12/4/01 X AM 1100 PM	12/4/01 X AM 1100 PM	12/4/01 X AM 1100 PM	12/4/01 X AM 1100 PM
	Time Discharge Began 12/4/01 X AM 0800 PM	12/4/01 X AM 0800 PM	12/4/01 X AM 0800 PM	12/4/01 X AM 0800 PM	12/4/01 X AM 0800 PM	12/4/01 X AM 0800 PM
	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
	Drainage Location Description STW 1 B71 Water Tower					
Observation Date: January 26 2002 Observers Name: <u>John Jelinski</u> Title: <u>Quality Coordinator</u> Signature:	Drainage Location Description STW 1 B71 Water Tower	STW 2 N. Fork Strawberry	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon	
	Observation Time 1/26/02 X AM 1015 PM	1/26/02 X AM 1100 PM	1/26/02 X AM 1000 PM	1/26/02 X AM 1030 PM	1/26/02 X AM 1050 PM	1/26/02 X AM 1050 PM
	Time Discharge Began 1/26/02 X AM 0200 PM	1/26/02 X AM 0200 PM	1/26/02 X AM 0200 PM	1/26/02 X AM 0200 PM	1/26/02 X AM 0200 PM	1/26/02 X AM 0200 PM
	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
	Drainage Location Description STW 1 B71 Water Tower					

FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: February 7 2002	Drainage Location Description	STW 1	STW 2	STW 3	STW 4	STW 5
Observers Name: John Jelinski		B71 Water Tower	N. Fork Strawberry	B69 Manhole	Chicken Creek	East Canyon
Title: Quality Coordinator	Observation Time	2/7/02 AM 1500 X PM	2/7/02 AM 1600 X PM	2/7/02 AM 1430 X PM	2/7/02 AM 1540 X PM	2/7/02 AM 1520 X PM
	Time Discharge Began	2/7/02 AM 1300 X PM				
Signature: 	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
Observation Date: March 6 2002	Drainage Location Description	STW 1	STW 2	STW 3	STW 4	STW 5
Observers Name: John Jelinski		B71 Water Tower	N. Fork Strawberry	B69 Manhole	Chicken Creek	East Canyon
Title: Quality Coordinator	Observation Time	3/6/02 X AM 1025 PM	3/6/02 AM 1215 X PM	3/6/02 X AM 1000 PM	3/6/02 X AM 1145 PM	3/6/02 X AM 1100 PM
	Time Discharge Began	3/6/02 X AM 0230 PM				
Signature: 	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
Observation Date: April 9 2002	Drainage Location Description	STW 1	STW 2	STW 3	STW 4	STW 5
Observers Name: John Jelinski		B71 Water Tower	N. Fork Strawberry	B69 Manhole	Chicken Creek	East Canyon
Title: Quality Coordinator	Observation Time	4/9/02 AM 1500 X PM	4/9/02 AM 1300 X PM	4/9/02 AM 1515 X PM	4/9/02 AM 1400 X PM	4/9/02 AM 1430 X PM
	Time Discharge Began	4/9/02 X AM 1100 PM				
Signature: 	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
Observation Date: May 20 2002	Drainage Location Description	STW 1	STW 2	STW 3	STW 4	STW 5
Observers Name: John Jelinski		B71 Water Tower	N. Fork Strawberry	B69 Manhole	Chicken Creek	East Canyon
Title: Quality Coordinator	Observation Time	5/20/02 AM 1300 X PM	5/20/02 AM 1400 X PM	5/20/02 AM 1320 X PM	5/20/02 AM 1340 X PM	5/20/02 AM 1350 X PM
	Time Discharge Began	5/20/02 X AM 0200 PM				
Signature: 	Were Pollutants observed (if YES, complete reverse side)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				

ND = No significant storm events occurred for that month

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: 10/30/01 9:30 AM

Observer: John Jelencski

Date / Time Discharge Began: 10/30/01 2:00 AM

Monthly Visual Observations of Stormwater Discharges

Site	STW 1	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	Slight rain cloudy	← "	← "	← "	← "
Flow	NA	Slight	Slight	Slight	Slight
Total Discharge	NA	NA	NA	NA	NA
Floating or Suspended Material Present	—	NO	NO	NO	NO
Oil and Grease Observed	—	NO	NO	NO	NO
Discolorations	—	NO	NO	Slightly discolored presence of foam	NO
Turbidity	—	NO	NO	NO	NO
Odor	—	NO	NO	NO	NO
Measurements	pH: —	pH: —	pH: —	pH: —	pH: —
	Air Temp: —	Air Temp: —	Air Temp: —	Air Temp: —	Air Temp: —
	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —
	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —
Comments	VERY SMALL STORM	← "	← "	← "	← "

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: 11/12/01 ~ 9:30 AM

Observer: John JELINSKI

Date / Time Discharge Began: 11/11/01 7:00 AM

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 Water Tower	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	Raining, cloudy	← "	← "	← "	← "
Flow	Crk is flowing	Small flow	slight flow	slight-small flow	small flow
Total Discharge	CANNOT DETERMINE	← "	← "	← "	← "
Floating or Suspended Material Present	NO	YES small twigs natural debris	NO	YES small twigs Natural debris	NO
Oil and Grease Observed	NO	NO	NO	NO	NO
Discolorations	YES MUDDY	NO	NO	Slight discolored	YES MUDDY
Turbidity	YES	NO	NO	Slight	YES
Odor	NO	NO	NO	NO	NO
Measurements	pH: —	pH: —	pH: —	pH: —	pH: —
	Air Temp: —	Air Temp: —	Air Temp: —	Air Temp: —	Air Temp: —
	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —
	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —
Comments	Moderate storm	← "	← "	← "	← "

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: 12/4/01 1100
 Observer: John JELINSKI
 Date / Time Discharge Began: 12/4/01 0800

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 Water Tower	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	Raining Cloudy	" ←	" ←	" ←	" ←
Flow	Creek flowing	Small-Med flow	Small flow	Small-Med. Flow	Small flow
Total Discharge	Cannot Determine	←	←	←	←
Floating or Suspended Material Present	NO slight DOM	NO	NO	NO	NO
Oil and Grease Observed	NO	NO	NO	NO	NO
Discolorations	NO	NO	NO	NO	NO
Turbidity	NO	NO	NO	NO	NO
Odor	NONE	NONE	NONE	NONE	NONE
Measurements	pH: —	pH: —	pH: —	pH: —	pH: —
	Air Temp: —	Air Temp: —	Air Temp: —	Air Temp: —	Air Temp: —
	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —
	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —
Comments	Moderate - Heavy Storm 2-3 inches	" ←	" ←	" ←	" ←

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: 1/26/02 10:10 AM
 Observer: JOHN JELINSKI
 Date / Time Discharge Began: 1/26/02 2 AM

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 B71 Water Tower	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	Cloudy RAINING	Cloudy RAINING	Cloudy RAINING	Cloudy RAINING	Cloudy RAINING
Flow	Slight	Slight	Slight	Slight	TRICKLE
Total Discharge	NA	NA	NA	NA	NA
Floating or Suspended Material Present	NONE	NONE	NONE	NONE	NONE
Oil and Grease Observed	NO	NO	NO	NO	NO
Discolorations	NO	NO	NO	NO	NO
Turbidity	NO	NO	NO	NO	NO
Odor	NONE	NONE	NONE	NONE	NONE
Measurements	pH: NA	pH: NA	pH: NA	pH: NA	pH: NA
	Air Temp: NA	Air Temp: NA	Air Temp: NA	Air Temp: NA	Air Temp: NA
	Water Temp: NA	Water Temp: NA	Water Temp: NA	Water Temp: NA	Water Temp: NA
	Conductivity: NA	Conductivity: NA	Conductivity: NA	Conductivity: NA	Conductivity: NA
Comments					

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: ^{1430 - 1630} 2/7/02 ~~10:00 - 12:30~~ JJ
 Observer: John JELINSKI
 Date / Time Discharge Began: 13⁰⁰ - 20⁰⁰ 2/7/02

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 B71 (AREA)	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	RAINING WINDY	RAINY WINDY	RAINY WINDY	RAINY WINDY	RAINY WINDY
Flow	NA	low	trickle	low	Trickle
Total Discharge	NA	NA	NA	NA	NA
Floating or Suspended Material Present	NONE	NONE	NONE	NONE	NO
Oil and Grease Observed	NO	NO	NO	NO	NO
Discolorations	NO	NO	NO	NO	NO
Turbidity	very slight	NONE	NONE	NONE	NONE
Odor	NONE	NONE	NONE		
Measurements	pH: NA	pH: NA	pH: NA	pH: NA	pH: NA
	Air Temp: NA	Air Temp: NA	Air Temp: NA	Air Temp: NA	Air Temp: NA
	Water Temp: NA	Water Temp: NA	Water Temp: NA	Water Temp: NA	Water Temp: NA
	Conductivity: NA	Conductivity: NA	Conductivity: NA	Conductivity: NA	Conductivity: NA
Comments	NONE (1500)	NONE (1600)	NONE (1430)	NONE (1540)	NONE (1520)

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: 3/6/02 10⁰⁰-10³⁰

Observer: John JEUNSKI

Date / Time Discharge Began: 3/6/02 0230-2130

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 Bid 71 Area	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	NOT RAINING CLOUDY WINDY	NOT RAINING CLOUDY WINDY	NOT RAINING CLOUDY WINDY	NOT RAINING CLOUDY WINDY	NOT RAINING CLOUDY WINDY
Flow	NA	low-Medium	low	low-Medium	low
Total Discharge	NA	NA	NA	NA	NA
Floating or Suspended Material Present	small twigs	NO	NO	NO	NO
Oil and Grease Observed	NO	NO	NO	NO	NO
Discolorations	NO	NO	NO	NO	NO
Turbidity	NO	NO	NO	NO	NO
Odor	NO	NO	NO	NO	NO
Measurements	pH: NA	pH: 8.13	pH: 8.27	pH: 7.45	pH: 8.17
	Air Temp: 11°C (52°F)	Air Temp: 11°C (52°F)	Air Temp: 11°C (52°F)	Air Temp: 11°C (52°F)	Air Temp: 11°C (52°F)
	Water Temp: NA	Water Temp: NA	Water Temp: NA	Water Temp: NA	Water Temp: NA
	Conductivity: NA	Conductivity: NA	Conductivity: NA	Conductivity: NA	Conductivity: NA
Comments	NONE (1025)	NONE	NONE (1000)	NONE (1145)	NONE (1100)

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

Date / Time: ⁸⁸ 4/9/02 15:00
 Observer: John Jelencic
 Date / Time Discharge Began: 4/9/02 ~ 1100

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 BLD 71 Area	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	light rain cloudy	light RAIN cloudy	light rain cloudy	light rain cloudy	light RAIN cloudy
Flow	NONE	low	NONE	low	NONE
Total Discharge	—	NA	—	NA	—
Floating or Suspended Material Present	NO	NO	NO	NO	NO
Oil and Grease Observed	NO	NO	NO	NO	NO
Discolorations	NONE	NONE	NONE	NONE	NONE
Turbidity	—	NO	—	NO	—
Odor	NONE	NONE	NONE	NONE	NONE
Measurements	pH: —	pH: —	pH: —	pH: —	pH: —
	Air Temp: 55°F	Air Temp: 55°F	Air Temp: 55°F	Air Temp: 55°F	Air Temp: 55°F
	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —	Water Temp: —
	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —	Conductivity: —
Comments	NA	NA	NA	NA	NA

John Jelencic

Lawrence Berkeley National Laboratory
Environmental Services Group
Stormwater Monitoring Program

1300
 Date / Time: May 20th, 2002 (, 20/02)
 Observer: John Jelinski
 Date / Time Discharge Began: 5/20/02 02:00
 ⇒ storm started seen 5/19/02 09:00

Monthly Visual Observations of Stormwater Discharges

Site	STW 1 Bld 71	STW 2 North Fork Strawberry Creek	STW 3 B69 Manhole	STW 4 Chicken Creek	STW 5 East Canyon
Weather Observations	RAINY CLOUDY	RAINY CLOUDY	RAINY CLOUDY	RAINY CLOUDY	RAINY CLOUDY
Flow	NONE	Slight	Trickle	Slight	Trickle
Total Discharge	NA	NA	NA	NA	NA
Floating or Suspended Material Present	NA	NONE	NONE	NONE	NA
Oil and Grease Observed	NA	NO	NO	NO	NA
Discolorations	NA	NO	NO	NO	NA
Turbidity	NA	NO	NO	NO	NA
Odor	NO	NONE	NONE	NONE	NA
Measurements	pH: /	pH: /	pH: /	pH: /	pH: /
	Air Temp: /	Air Temp: /	Air Temp: /	Air Temp: /	Air Temp: /
	Water Temp: /	Water Temp: /	Water Temp: /	Water Temp: /	Water Temp: /
	Conductivity: /	Conductivity: /	Conductivity: /	Conductivity: /	Conductivity: /
Comments	NONE	NONE	NONE	NONE	NONE

NA = Not Applicable

**FORM 5-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS**

EVALUATION DATE: June 13-14 2002 INSPECTOR NAME: Regina Lackner TITLE: Environmental Specialist SIGNATURE: Regina Lackner

<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) Loading and Unloading 69 77D WAA's Various 85 (HWHF) FTU's</p>	<p>Have Any BMP's not been Fully Implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) Materials Storage and Use WAA's, DSA's, HWHF UST's AST's Outdoor Equipment</p>	<p>Have Any BMP's not been Fully Implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) Vehicle Washing (Fueling) and Maintenance 76 48</p>	<p>Have Any BMP's not been Fully Implemented? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p> <p>There is no roof over the fueling station at 76. Large vehicles cannot presently fit in the wash bay.</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p> <p>No funding for such capital projects exists at this time. No implementation date can be given.</p>
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) Vehicle Parking / Driving Parking Lots</p>	<p>Have Any BMP's not been Fully Implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>

**FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS**

EVALUATION DATE: June 12-14 2002 INSPECTOR NAME: Regina Lackner TITLE: Environmental Specialist SIGNATURE: Regina Lackner

<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) Construction / Maintenance</p>	<p>Have Any BMP's not been Fully Implemented? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p> <p>No covered storage is available for heavy equipment, materials, and machinery.</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p> <p>Space and funds have been requested. Planning Department cannot provide an implementation date.</p>
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP) Spills / Releases</p>	<p>Have Any BMP's not been Fully Implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)</p>	<p>Have Any BMP's not been Fully Implemented? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)</p>	<p>Have Any BMP's not been Fully Implemented? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Are Additional/revised BMP's Necessary? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If YES to either question, complete the next two columns of this form.</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>