

**City of Goleta Storm Water Management Plan
Annual Report (5/1/12-4/20/13)**

APPENDICES

A-PEO-4 K-6 Educational Programs for Children

Art from Scrap Green Schools Water Quality Education Presentations
to Goleta Schools, May 1, 2012 – April 30, 2013

Date	School	Grade	First time Students	Repeat Students	Curricula
5/2/12	Brandon	K	23	0	WRC/Creek
5/14/12	Kellogg	2	22	0	WRC/Creek
5/24/12	Brandon	2	25	0	WRC/Creek
5/30/12	La Patera	2	28	0	WRC/Creek
5/30/12	La Patera	2	29	0	WRC/Creek
5/31/12	La Patera	2	24	0	WRC/Creek
9/24/12	Kellogg	2/3	24	0	WRC/Creek
10/10/12	Brandon	5	24	0	CK #1
10/10/12	Brandon	5	28	0	CK #1
10/24/12	Brandon	5	0	28	WRC/Creek
11/2/12	Brandon	5	0	28	WRC/Creek
11/28/12	Brandon	5	0	28	CK#3
11/28/12	Brandon	5	0	26	CK #3
12/4/12	La Patera	4	22	0	CK #1
12/7/12	La Patera	4	24	0	CK #1
12/7/12	La Patera	4	23	0	CK #1
12/10/12	La Patera	4	0	24	WRC/Creek
12/11/12	La Patera	4	0	23	WRC/Creek
12/12/12	La Patera	4	0	23	WRC/Creek
12/14/12	La Patera	4	0	24	CK #2
12/14/12	La Patera	4	0	23	CK #2
12/14/12	La Patera	4	0	24	CK #2
1/25/13	Ellwood	1	22	0	WRC/Creek
4/10/13	Brandon	K	16	0	WRC/Creek
4/18/13	Montessori	1-3	19	0	WRC/Creek
TOTALS			353	251	

A-PEO-7

MTD Bus Ad Campaign

THE OCEAN BEGINS ON YOUR STREET

EL OCÉANO COMIENZA EN TU CALLE

LOS DRENAJES PLUVIALES VAN DIRECTAMENTE A LOS ARROYOS Y AL MAR.

¿QUE PUEDES HACER?

Lave su auto en los lavaderos comerciales en donde el agua tiene tratamiento. Si lava su automóvil en su casa, lávelo sobre superficies no pavimentadas como el césped, usando una manguera que tenga válvula de cierre en la boquilla y no permita que el agua llegue hasta la calle.

www.sbcreeks.com
1-877-OUR OCEAN



STORM DRAINS FLOW DIRECTLY INTO CREEKS AND THE OCEAN

WHAT CAN YOU DO?

Wash cars at a commercial car wash where water is treated. If you wash your vehicle at home, wash cars on unpaved surfaces such as your lawn, use a shutoff nozzle on your hose, and do not let wash water reach the street.

www.sbcreeks.com
1-877-OUR OCEAN



THE OCEANO BEGINS ON YOUR STREET

EL OCÉANO COMIENZA EN TU CALLE

LOS DRENAJES PLUVIALES VAN DIRECTAMENTE A LOS ARROYOS Y AL MAR.

¿QUE PUEDES HACER?

Nunca deseche el aceite de motor en las bocas de tormentas, ni en el suelo, ni en la calle. Recicle el aceite de motor usado llevándolo a los sitios autorizados como a las tiendas de auto-partes, a las gasolineras o a los centros de recolección de desechos peligrosos.

www.sbcreeks.com
1-877-OUR OCEAN



STORM DRAINS FLOW DIRECTLY INTO CREEKS AND THE OCEAN

WHAT CAN YOU DO?

Never pour used motor oil down storm drains, on the ground, or in the street. Recycle used motor oil by taking it to an authorized auto parts store, gas station, or hazardous waste collection center.

www.sbcreeks.com
1-877-OUR OCEAN



THE OCEANO BEGINS ON YOUR STREET

EL OCÉANO COMIENZA EN TU CALLE

LOS DRENAJES PLUVIALES VAN DIRECTAMENTE A LOS ARROYOS Y AL MAR.

¿QUE PUEDES HACER?

Use herbicidas, pesticidas, y fertilizantes en pocas cantidades. Use pesticidas no tóxicos, y técnicas de jardinería orgánica siempre que sea posible.

www.sbcreeks.com
1-877-OUR OCEAN



STORM DRAINS FLOW DIRECTLY INTO CREEKS AND THE OCEAN

WHAT CAN YOU DO?

Use herbicides, pesticides, and fertilizers sparingly. Use non-toxic alternatives to pesticides, and use organic gardening techniques when possible.

www.sbcreeks.com
1-877-OUR OCEAN



THE OCEAN BEGINS ON YOUR STREET

EL OCÉANO COMIENZA EN TU CALLE

LOS DRENAJES PLUVIALES VAN DIRECTAMENTE A LOS ARROYOS Y AL MAR.

¿QUE PUEDES HACER?

Los desechos de los animales contienen bacterias que pueden causar enfermedades a la vida acuática, a la vida silvestre y a los seres humanos. Recoja los desechos de los animales y deséchelos en el sanitario o en la basura, pero no en las bocas de tormentas.

www.sbcreeks.com
1-877-OUR OCEAN



STORM DRAINS FLOW DIRECTLY INTO CREEKS AND THE OCEAN

WHAT CAN YOU DO?

Animal waste contains bacteria that can cause illness in aquatic life, wildlife, and humans. Always pick up animal waste and dispose of it in the toilet or trash can, not down the storm drain.

www.sbcreeks.com
1-877-OUR OCEAN



THE OCEAN BEGINS ON YOUR STREET

EL OCÉANO COMIENZA EN TU CALLE

LOS DRENAJES PLUVIALES VAN DIRECTAMENTE A LOS ARROYOS Y AL MAR.

¿QUE PUEDES HACER?

Nunca tires productos químicos en las bocas de tormenta, ni en las canaletas ni en las calles, ni en los arroyos. Los químicos que no usa, tales como los pesticidas y pinturas, llévalas al centro más cercano de recolección de desechos peligrosos.

www.sbcreeks.com
1-877-OUR OCEAN



STORM DRAINS FLOW DIRECTLY INTO CREEKS AND THE OCEAN

WHAT CAN YOU DO?

Never dump chemicals down storm drains, in gutters or streets, or in creeks. Take unwanted chemicals like pesticides and paint to your local hazardous waste collection center.

www.sbcreeks.com
1-877-OUR OCEAN





THE OCEAN BEGINS ON YOUR STREET

EL OCÉANO COMIENZA EN SU CALLE

**1-877-OUR OCEAN
sbcreeks.com**

Funded in part by hotel visitors through Measure B



THE OCEAN BEGINS ON YOUR STREET

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sbcreeks.com**

Funded in part by hotel visitors through Measure B



A-PEO-9a

2012 Creek Week Schedule

13th Annual

CREEK WEEK

September 15 - 23, 2012

Saturday, September 15th

- **9am-12pm ~ 28th Annual Coastal Clean-Up Day** Various beach and creek locations. For more info contact [Alan Nakashima](#) at (805) 882-3616 www.lessismore.org
- **11am - 2pm ~ 11th Annual Carpinteria Creek Watershed Coalition Celebration at Linden Field**
Contact [Erin Brown](#) via email or www.carpinteriacreek.org
- **10 am ~ Tour of the Carpinteria Salt Marsh Nature Park** Meet at the park entrance at the corner of Sandyland & Ash Ave. Contact: [Andrea Adams-Morden](#) at (805) 684-8077
- **9 am - 12 noon ~ Ellwood Beach and Bluff Cleanup** Meet at the chimney at Ellwood Mesa Bluff. Contact: [Everett King](#) (805) 961-7565



Sunday, September 16th

- **1 - 4 pm ~ Arroyo Burro Creek Visioning Event**
Held at the WRC, 2981 Cliff Drive at Arroyo Burro Beach County Park. Contact SBUC at (805)729-0172

Monday, September 17th

- **5:30 - 7:30 pm ~ Tree Planting and Care at La Goleta Open Space adjacent to Las Vegas Creek with Goleta Valley Beautiful**
Meet at the corner of La Goleta and Manzanillo. Contact (805) 252-1952 kknight@goletavalleybeautiful.org

Tuesday, September 18th

- **12:00 noon ~ Walking Tour of San Clemente Village Storm Water Management System and Restoration Site.**
Meeting location: CCBER Office, Harder South Building 578 at UCSB Contact: [Bryan Apple](#) at (805)893-3648
- **10am - 2pm ~ Higgins Springs Clean-Up and Weeding**
Meet at Higgins Springs in Carpinteria, cross over Calle Ocho by the large Eucalyptus tree.



Wednesday, September 19th

- **5pm—Sunset ~ Creek Cleanup at Old Mission Creek**
Meeting point: behind 610-616 W Carrillo, the Arroyo Gardens at Old Mission Creek. Contact: [Marcus Lopez](#); (805) 897-1070
- **4:30 - 6 pm ~ Bird Walk with the City of Goleta** Meet at the foot of the pier at Goleta Beach County Park. Contact: [Everett King](#) at (805) 961-7565



Thursday, September 20th

- **9 - 11 am ~ Beach Cleanup at East Beach**
Meet at East Beach Grill to help keep our coastline clean and beautiful. Contact [Jen Hollywood](#) (805) 897-2658
- **3:30-5 pm ~ Presentation: Methods for Tracking Bacterial Sources in Arroyo Burro Creek and Project Clean Water Stakeholders Meeting**
Held at the Watershed Resource Center 2981 Cliff Drive at Arroyo Burro Beach County Park. Contact: [Joy Hufschmid](#) (805) 568-3373



Friday, September 21st

- **1 pm - 3 pm ~ Mission Creek Walking Tour** Meet at the Tallant Road bridge at Oak Park. Contact Brian Trautwein at 963-1622 ext. 108 or Rachel Couch at rcouch@scc.ca.gov or (805) 845-8853

Saturday, September 22nd

- **9 am - 12 pm ~ Palm to Linden Trail Restoration Project Meet at East Entrance of Tomol Park**
Contact [Andrea Adams-Morden](#) (805) 684-8077
- **10 am ~ Tour of the Carpinteria Salt Marsh Nature Park**
Meet at the corner of Sandyland & Ash Ave. Contact: [Andrea Adams-Morden](#) at (805) 684-8077
- **10am - 2pm ~ Ocean Friendly Gardens Hands On Workshop**
Meet at Spencer Adams Park 1216 De La Vina
RSVP to: santabarbaraofg@gmail.com

Sunday, September 23rd

- **11am-3pm ~ Creek Week Closing Celebration at the Watershed Resource Center**
2981 Cliff Drive at Arroyo Burro Beach County Park.
884-0459 x16
education@artfromscrap.org



Creek Week Logo Contest!

We are seeking designs for a Creek Week Logo. The Logo will be used in conjunction with future Creek Week Events. All are encouraged to submit designs by September 19th! For full rules and guidelines, visit www.sbcreekweek.com



Check the website for newly added and updated events!

www.sbcreekweek.com



A-PEO-9b: Earth Day 2013 Advertisement
Noozhawk (4/8/13 – 4/22/13), Santa Barbara Independent (4/18/13)

This is your beach



This is your beach
on pollution

Protect
Our Ocean!

Keep trash and
other pollutants
out of streets,
storm drains,
and creeks!

Visit our booths at Earth Day:





A-PEO-10 Storm Water Website Tracking Log

Date	Number of Visits		
	SW Main Page	SW Hotline	SW Events Calendar
	260	19	0
	260	19	0

A-PP-1

Goleta Stormwater Community Interest Group
Meeting Agendas and Attendance Logs



**STORM WATER MANAGEMENT PLAN
STAKEHOLDER MEETING**

Wednesday, July 18, 2012

City Hall

130 Cremona Drive, Suite B
Goleta, California

4:00 PM

Council Chamber

Steve Wagner, Community Services Director
Everett King, Environmental Services Coordinator

- | | |
|--|--------------|
| I. Introductions/Announcements | (5 minutes) |
| II. Review of Draft Stormwater Annual Report | (45 minutes) |
| III. Public Comment | (10 minutes) |
| IV. Adjourn | |

Americans with Disabilities Act: In compliance with the ADA, if special assistance is needed to participate in a City Council meeting (including assisted listening devices), please contact the City Clerk's office at (805) 961-7500. Notification at least 72 hours prior to the meeting helps to ensure that reasonable arrangements can be made to provide accessibility to the meeting.



**Goleta Storm Water
Community Interest Group Meeting
July 18, 2012**

SIGN IN

Name	Affiliation	E-mail or phone
1. Kira Redmond	SBCIK	
2. Everett King	City of Goleta	
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**STORM WATER MANAGEMENT PLAN
STAKEHOLDER MEETING**

Wednesday, November 7, 2012

City Hall

130 Cremona Drive, Suite B

Goleta, California

4:00 PM

Council Chamber

Steve Wagner, Community Services Director
Everett King, Environmental Services Coordinator

- I. Introductions / Announcements
- II. Program Updates
- III. Post-Construction Requirements for Hydromodification Control
- IV. Public Comment
- V. Adjourn

Americans with Disabilities Act: In compliance with the ADA, if special assistance is needed to participate in a City Council meeting (including assisted listening devices), please contact the City Clerk's office at (805) 961-7500. Notification at least 72 hours prior to the meeting helps to ensure that reasonable arrangements can be made to provide accessibility to the meeting.



**Goleta Storm Water
Community Interest Group Meeting
November 7, 2012**

SIGN IN

Name	Affiliation	E-mail or phone
1. Rick Frickmann	S.B. Urban Creeks Council	rfrickmann@cox.net
2. Everett King	City of Goleta	
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COOPERATIVE STORMWATER STAKEHOLDER MEETING

Thursday, May 2nd, 2013
County of Santa Barbara, Planning Commission Hearing Room
123 E. Anapamu St., Santa Barbara
2:00 - 4:00pm

Thursday, May 9th, 2013
Santa Maria Library, Shepard Hall
421 South McClelland St., Santa Maria
1:00 - 3:00pm

- | | | |
|------|--|--------------|
| I. | Introductions/Announcements | (5 minutes) |
| II. | New State Municipal General Permit Requirements | (15 minutes) |
| III. | New Central Coast Post Construction Requirements | (15 minutes) |
| IV. | Jurisdictional Updates | (30 minutes) |
| V. | Adjourn | |



**Stakeholders Meeting
Santa Barbara; May, 2013**

NAME	AFFILIATION	ADD or CHANGE CONTACT INFO
Jon Frye	SB Co Flood Control	—
Mark Luehr		
Nick Bruckbauer	"	
Olga Ready	- -	
James Hawkins	Heal the Ocean	jamesohawkins@healtheocean.org
Wes Barber	Flowers & Associates, INC.	wbarber@flowersassoc.com
Lee Moldaver	Creeks ORCA Audubon br CC	
Everett King	City of Goleta	eking@cityofgoleta.org
Ben Pitterle	Santa Barbara Channelkeeper	ben@sbckc.org
Erin Maker	City of Carpinteria	erinm@ci.carpinteria.ca.us
Autumn Malanca	City of S.B. - Creeks	amalanca@santabarbaraca.gov
Craig Steward	Penfield & Smith	craig@penfieldsmith.com
MIKE HAMILTON	PENFIELD & SMITH	mch@penfieldsmith.com
JASON GOTSIS	ASHLEY & VANCE	jason@ashleyvance.com
ADAM KANOLD	TETRA TECH	adam.kanold@tetratech.com

A-PP-2

Santa Barbara County Association of MS4 Managers
Meeting Agendas and Attendance Logs



Santa Barbara County Association of MS4 Managers

Wednesday, July 24, 2012
10:00 pm – 11:30 pm
City of Buellton Planning Conference Room
107 West Highway 246

Agenda

- I. Introductions
- II. Program Status Updates from Attendees
- III. Update on the Draft Revised Phase II Permit - Cathleen Garnand
- IV. Update on the Joint Effort - Cathleen Garnand
- V. Prop 84 Grant – Cathleen Garnand
- VI. Rotating SBCAMM Chair for Next Meeting

Next Meeting Date: October 24, 2012

Location: Buellton Planning Conference Room



Santa Barbara County Association of MS4 Managers

Wednesday, October 24, 2012
10:00 pm – 11:30 pm
City of Buellton Planning Conference Room
107 West Highway 246

Agenda

- I. Introductions
- II. Program Status Updates from Attendees
- III. Joint Effort Discussion – Dominic Roques
- IV. Rotating SBCAMM Chair for Next Meeting

Next Meeting Date: January 23, 2013

Location: Buellton Planning Conference Room

Name	Agency	email
Erin Maker	Carpinteria	erinm@ci.carpinteria.ca.us
Ellen Pritchett	Santa Maria	epritchett@santa-maria.ca.us
STEVE KAHN	SANTA MARIA	skahn@ci.santa-maria-ca.us
Joy Hufschmid	S.B County	
Everett King	City of Goleta	eking@cityofgoleta.org
Charlie Ebeling	City of Carpinteria	cebeling@ci.carpinteria.ca.us
MATT VANDERLINDEN	CITY OF SOLVANG	mattv@cityofsolvang.com
Rose Hess	City of Buellton	roseh@cityofbuellton.com
Jamie Harlan-Denton	city of Buellton & Solvang	jharlan@mnsengineers.com
Cathleen Garnand	County of S.B.	cgarnan@cosbpw.net
BILL SCOTT	CITY OF SANTA MARIA	bscott@ci.santa-maria.ca.us
RAY ARONSOV	UCLSA	Ray.aronsov@dcu.ucsb.edu
Shari Hammond	UCSB	shari.hammond@planning.ucsb.edu
Stacey Callaway	UCSB	stacey.callaway@ehs.ucsb.edu
Kathleen Jenkins	CALTRANS	kathleen.jenkins@dot.ca.gov
Autumn Malanca	City of S.B.	amalanca@santabarbaraca.gov
David Janis	RB3	dbinnis@waterboards.ca.gov
Tara Wiskowski	Vandenberg AFB	tara.wiskowski@us.af.mil
ANNE POWER	TETRA TECH	anne.power@tetra tech.com



Santa Barbara County Association of MS4 Managers

Wednesday January 23, 2013
10:00 am – 12:00 pm
City of Buellton Planning Conference Room
107 West Highway 246

Agenda

- I. Introductions
- II. Program Status Updates from Attendees
- III. Update on the SWRCB Board Hearing January 8, 2013
- IV. Discussion with Jon Rohrbough and David Innis regarding implementation of Post-Construction requirements
- V. Rotating SBCAMM Chair for Next Meeting

Next Meeting Date: April 24, 2013

Location: Buellton Planning Conference Room

SBCamm

1-23-2013

<u>Name</u>	<u>Organization</u>
Stacey Callaway	UCSB
ALI AGHAYAN	"
Joy Hutschmid	S.B. County
Cathleen Garrand	SB County
Ellen Pittslett	CSM
Erin Maker	Carpinteria
Tony Sittin	SMS SMSHSO
Everett King	City of Goleta
ADAM KANOLD	TETRA TECH/VAFB
JAMIE HARLAN	BOULTON & SOLVANG
MATT VANDER LINDEN	CITY OF SOLVANG
Autumn Malanca	City of SB / Creeks
PETE RIEHELHUTH	CALTRANS
KATHLEEN JENKINS	CALTRANS
JON FOURBOUGH	CCRWQCB
David Innis	"
Rose Hess	Buellton



Santa Barbara County Association of MS4 Managers

Wednesday, April 24, 2013
10:00 pm – 11:30 pm
City of Buellton Planning Conference Room
107 West Highway 246

Agenda

- I. Introductions
- II. Dan Cloak?
- III. Upcoming Stakeholder Meetings Dates/Times/ Locations
- IV. Program Status Updates from Attendees
- V. General Permit - Guidance Document, Discussion
- VI. Regional Effort to Apply CBSM?, Discussion
- VII. Rotating SBCAMM Chair for Next Meeting

Next Meeting Date: July 24, 2013

Location: Buellton Planning Conference Room

Sign In Sheet

SBOCMM

4/24/13

Ellen Pritchett
DENNIS DELZETT

City of Santa Maria
CITY OF GUADALUPE

Stacy Lawson
Tara Wiskowski
Jodi Woods

City of Lompoc
Vandenberg AFB
UCSB

Erin Maker

City of Carpinteria

Stacey Callaway
Joy Hulschmidt

UCSB

S.B. County

Autumn Malanca

City of S.B. / Creeks

Jamie Harlan

City of Buellton

Tim Tainor

Tierra Teeth, Inc.

Everett King

City of Grobta

MATT VANDERLINDEN

City of Solvang

Cathleen Garnand

County SB

PETE RIEGELHOFF

CALTRANS NPDES

Dan Cloak

Dan Cloak Environmental Co.

STEVE KAYN

CITY OF SANTA MARIA

A-PP-3

Creek Cleanup Log

**Santa Barbara Channelkeeper
2012-2013 Goleta Watershed Clean-ups**

Event	Date	Location	# Volunteers	Time	Total Volunteer Hours	Amount of trash	Meters of Creek/Beach Cleaned
Adopt-A-Stream Clean-up	5/17/2012	5 creeks, 5 sites	5	3	15	26	901.23
Adopt-A-Stream Clean-up	6/22/2012	1 creek, 3 sites	5	2	10	94	844.9
Adopt-A-Stream Clean-up	7/28/2012	7 creeks, 10 sites	12	3	36	114	3492.28
Adopt-A-Stream Clean-up	12/8/2012	2 creeks, 2 sites	2	3	6	25	804.72
TOTAL			24		67	259	6,043.13 m of creek/beach

In addition to conducting water quality monitoring throughout the Goleta watersheds since 2002, Channelkeeper is also committed to conducting cleanup events to remove litter from creeks to improve the quality of habitat in the creeks as well as to prevent litter from reaching the Goleta Slough and ultimately the ocean. During the May 2012-2013 time period, Channelkeeper organized four community creek cleanups within Goleta watersheds with 24 volunteers picking up more than 259 pounds of trash from a total of 6.04 km of creeks. Cleanup efforts were conducted in nine Goleta waterways including Atascadero Creek, Cieneguitas Creek, Glen Annie Creek, Los Carneros Creek, Las Vegas Creek, Phelps Ditch, San Jose Creek, San Pedro Creek and Tecolote Creek.

Channelkeeper utilized the Rapid Trash Assessment protocol, which was developed by the State Water Resources Control Board as a means for citizen monitoring groups to systematically assess trash levels in streams, at each of the Adopt-A-Stream clean-up events. Cleanup volunteers helped collect valuable water quality data by counting and recording items of trash removed along a 100-foot reach of the waterway. During the May 2012-2013 time period, Channelkeeper conducted 20 Rapid Trash Assessment surveys. The trash data was entered into a database and will be submitted to the Water Board as part of their biannual data solicitation.

Channelkeeper Goleta Creek clean-up events collected the typical assortment of urban trash items including plastic bags (approximately 64 on the 20 transects plus many more outside of the transects), plastic bottles and caps, plastic wrappers, Styrofoam pieces, metal cans and other food-related litter. The Rapid Trash Assessment protocols looks at types of trash including plastic, glass, metal, biodegradable, fabric and cloth, toxic, biohazard and construction debris. As in past years, the 2012-2013 survey period also found that plastic items made up the majority of items removed from the surveys sites in Goleta's creeks.

A-IDDE-4

**City of Goleta Storm Water Management Plan
Illicit Discharge Detection and Elimination Incident Log**

Date of reported Discharge	Reporting or observing party	Discharge Site Address	Description	Comments
3/27/13	Everett King	Goleta Valley Athletic Club 170 Los Carneros Way	Pool water discharging to gutter	As I was investigating Santa Barbara Motor Sports, a separate stream of water was identified originating at the opposite edge of common driveway. A nearly buried pvc pipe was draining chlorinated water from the pool. SBMS employee mentioned this has been on-going, and has eroded the asphalt down the middle of the driveway. I spoke with the Club manager and we walked out to where the water was emerging. I explained the need to address this flow asap, and recommended plumbing into the sanitary sewer system, in coordination w/ Goleta San. District. Followed up with a written letter.
3/27/13	Everett King	Santa Barbara Motor Sports 6466 Hollister Ave.	Washing motorcycles in drive way	Driving back to office, noticed standing water in gutter, and flow from Santa Barbara Motor Sports. Staff was washing motorcycles in the driveway. Discussed need to keep wash water out of the storm drain system with employee who was washing, and suggested washing in a location where runoff could enter landscaped area. Followed up with written letter.
3/6/13	Beth Anna Cornet	Robin Hill Rd.	Bus Washing	Clean Air Express (managed under contract by Storer Transport) parks its commuter busses on Robin Hill Road during the work day. Reporting party notified the City that a contract mobile washing operation that cleans the bus exteriors may not be employing proper BMPs. A site visit on March 27 determined that the contractor was equipped with an effluent containment and recovery system, but that so little run-off was generated by the exterior washing that it was rarely needed. However, due to traffic safety concerns at this site, and a determination by the Public Works Director that the washing operation was not an appropriate activity to take place in the Public ROW, City asked that the activity discontinue. Storer complied and discontinued the practice.
1/29/13	Anonymous	39 Calaveras	Wash- Machine effluent discharged to gutter	Call to report washing machine effluent draining from the garage, down the driveway and into the street. Code Enforcement Officer Greg Nordyke spoke with the tenant, who indicated there was some kind of drainage issue with the house plumbing. Greg advised the tenant that the discharge was illegal, needed to discontinue, and that the landlord

				needed to address the plumbing issue.
1/22/13	Kimberly Clayton (SB county PHD)	7560 Cathedral Oaks Rd.	Sewage Overflow	Kimberly left a voice message at approximately 1002 to report she had received a phone message on Sunday, 1/20, from a resident reporting a sewage overflow, leak, or break at Evergreen West Terrace. The resident was complaining that sewage on her lawn had yet to be cleaned up, and noted that at least some of the spill entered into the street gutter, and possibly a catch basin on the street. The closest mapped catch basins are all > 400 ft. from the property boundary. It was not clear when the spill occurred, its duration or the approximate amount involved. Kim indicated that if she obtained additional details re: estimated amount and duration, she would report back to me.
10/10/12	Willie Brummett (SB county, PCW)	636 Rossmore	Radiator water discharged to gutter	Willie called me at approximately 0920 to report he had received a call from a resident (Teri Bowen 964-1353) last week reporting orange water in the gutter that looked like rusty radiator water. The RP traced it from the catch basin at Stow Canyon Rd. & Las Vegas Creek to the source address, which also had the orange staining. I spoke to the home owner at about 0945. He understood the concern re: the MS4 and indicated that his radiator had blown and there wasn't anything he could do about it. He indicated that the water was free of anti-freeze. I provided him with The Ocean Begins On Your Street.
8/27/12	Mike Page	165 Sylvan Dr.	Paint washout into gutter	Mike spoke w/ the generating party, and explained the nature of the violation. Instructed them to clean out the remaining paint residue from the gutter.
5/2/12	Officer Jeff Farmer	5940 Calle Real	Kitchen mat washing	Officer Farmer called an unknown discharge apparently coming from Fresco Café North into Greg who informed me. I arrived on site at around 12:10 pm. It was evident that the kitchen mats had been washed in the parking lot behind the restaurant. Washing had stopped before my arrival, but water laden with grease and what appeared to be either a detergent or bleach or both (milky white) was still draining into a drop inlet that led to an open concrete lined ditch that runs along the western property line, and out to the street, where the discharge entered a catch basin a few meters to the west on Calle Real. I spoke to Mr. Indras Govender who identified himself as the owner, about the illicit discharge, asked that he clean out any remaining grease and discharge water from the open ditch, and that any future such violations would lead to a citation. Followed up with a letter. Mr. Govender received a site visit from Beth Anna Cornett working for the City under contract, April 2011. The questionnaire from the visit indicated that floor mats were washed in a floor sink plumbed to the sanitary sewer.

A-IDDE-5

Summary of Water Quality Standard Exceedences

	Conductivity			Dissolved Oxygen ^a			pH			Turbidity			E. Coli			Enterococcus			Total Coliforms		
	x of n		%	x of n		%	x of n		%	x of n		%	x of n		%	x of n		%	x of n		%
AT1*	8	17	47	4	17	24	0	17	0	0	12	0	4	13	31	0	0	n/a	0	13	0
AT2*	0	14	0	1	14	7	0	14	0	0	10	0	5	13	38	0	0	n/a	2	13	15
AT3*	0	15	0	0	12	0	6	15	40	0	11	0	5	11	45	0	0	n/a	2	11	18
BL01	n/a	12	n/a	0	11	0	1	12	8	0	10	0	4	10	40	5	11	45	4	10	40
BL02*	8	12	67	0	11	0	0	12	0	0	10	0	10	12	83	0	0	n/a	4	12	33
CG1*	0	14	0	1	14	7	0	14	0	1	10	10	7	12	58	0	0	n/a	5	12	42
DV21	10	12	83	2	11	18	1	12	8	2	10	20	11	13	85	0	0	n/a	10	13	77
DV22	10	12	83	1	11	9	7	12	58	0	10	0	14	15	93	0	0	n/a	8	15	53
DV24	12	12	100	1	12	8	0	12	0	0	10	0	6	13	46	0	0	n/a	5	13	38
DV25	12	12	100	6	12	50	0	12	0	0	10	0	2	13	15	0	0	n/a	3	13	23
GA1	10	17	59	0	16	0	0	16	0	0	11	0	7	11	64	0	0	n/a	7	11	64
GA2*	1	17	6	1	16	6	0	17	0	0	11	0	9	14	64	0	0	n/a	7	14	50
GS1	n/a	16	n/a	1	15	7	1	16	6	0	11	0	5	13	38	2	10	20	3	13	23
LC2*	2	16	13	0	14	0	0	16	0	0	11	0	5	12	42	0	0	n/a	4	12	33
LV1*	6	6	100	0	5	0	0	6	0	0	5	0	5	6	83	0	0	n/a	3	6	50
MY1	0	5	0	1	5	20	0	5	0	0	4	0	1	5	20	0	0	n/a	1	5	20
MY2*	0	14	0	0	12	0	0	14	0	1	9	11	10	12	83	0	0	n/a	3	12	25
SJ1	0	8	0	0	7	0	0	8	0	1	4	25	4	7	57	0	0	n/a	4	7	57
SJ2*	4	15	27	0	14	0	0	15	0	0	10	0	10	12	83	0	0	n/a	3	12	25
SP1	0	17	0	0	15	0	6	17	35	0	10	0	9	12	75	0	0	n/a	8	12	67
SP3*	1	15	7	0	14	0	0	15	0	0	10	0	10	11	91	0	0	n/a	2	11	18
TC01	n/a	12	n/a	2	11	18	0	12	0	0	10	0	9	10	90	7	11	64	3	10	30
TC02*	0	11	0	1	10	10	0	11	0	0	9	0	5	10	50	0	0	n/a	2	10	20

Table 1. Summary of water quality standard exceedences measured at GST sites from May 2012 to April 2013

* near or above City of Goleta boundary

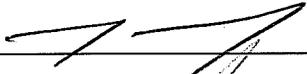
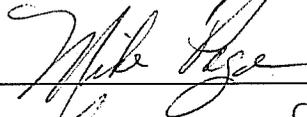
^a Dissolved oxygen measurements taken mid-morning and not necessarily indicative of minimum daily concentrations

A-IDDE-7a

Illicit Discharge Detection and Elimination Training Log



**Goleta Storm Water – IDDE 7
Illicit Discharge Detection and Elimination Training
Goleta City Council Chamber
May 8, 2013**

	Sign	Date
1. Greg Nordyke, Code Enforcement Officer		5/8/13
2. Mike Page, Public Works Inspector		5/8/13
3. Everett King, Environmental Services Coordinator		5/8/13

A-IDDE-7b

Illicit Discharge Detection and Elimination Training Test

IDDE 7 Quiz: Illicit Discharge Detection and Elimination Training

1. Which is NOT true about Municipal Separate Storm Sewer Systems?

- A. A conveyance or system or conveyances owned by a state, city, town, or other public entity that discharges to waters of the U.S
- B. Can either be a pipe or an open channel
- C. Usually leads to a treatment facility
- D. Is designed or used for collecting or conveying stormwater

2. Which best describes a transitory discharge?

- A. Occurs over a *shorter period of time* (e.g., a few hours per day, or a few days per year)
- B. Occurs *most or all of the time*
- C. Occurs only at night
- D. *Occurs rarely*, usually in response to a singular event

3. True or False: a transportation accident which leads to contamination of a storm drain is an example of an intermittent discharge. If false, identify the correct discharge frequency.

4. Direct mode of entry usually occurs when two different kinds of “plumbing” are improperly connected. Which of the following are examples of direct mode of entry?

- A. Sewage cross-connection
- B. Straight pipe
- C. Industrial and commercial cross-connections
- D. All the above

5. What is an example of indirect mode of entry?

- A. Groundwater seepage into the storm drain pipe
- B. A restaurant floor sink connected to the Storm drain
- C. Dumping a liquid into a storm drain inlet
- D. A & D

6. True or False: Water color, odor, turbidity, floatables & sedimentation are examples of qualitative assessment of any flow present at an outfall.

7. Which of the following are typically considered “floatables”?

- A. Foam or Suds
- B. Litter
- C. surface sheens
- D. A & C
- E. None of the above

8. Which type of stormdrain network investigation is best suited to a large watershed with multiple types of pollution and many suspected problems?

- A. Moving up the trunk
- B. Splitting the Storm Drain Network
- C. Moving down the network
- D. None of the above

9. True or False: Optical Brightener Monitoring (OBM) Traps are useful for isolating intermittent discharges. If false, provide the correct answer.

10. Methods used to identify sources of illicit discharges include:

- A. Smoke testing
- B. Video camera work
- C. Dye testing
- D. Infrared thermal imaging
- E. All the above

A-IDDE-8a

Hazardous Materials Spill Response and Training Log



**Goleta Storm Water – IDDE 8
Hazardous Spill Response Training
Goleta City Council Chamber
February 27, 2013**

	Sign	Date
1. Robert Morgenstern, Public Works Maintenance Manager		2/27/13
2. Jerry Lopez, Lead Maintenance Worker		2/27/13
3. Mike Calles, Maintenance Worker II		2-27-13
4. Jorge Flores, Maintenance Worker I		2/27/13
5. Mike Sobota, Lead Maintenance Worker		2/27/13
6. John Shields, Maintenance Worker II		2/27/13
7. Mike Page, Public Works Inspector		2/27/13
8. Greg Nordyke, Code Enforcement Officer		2-27-13
9. Everett King, Environmental Services Coordinator		2/27/13
<u>OPTIONAL</u>		
10. Rosemarie Gaglione, Capital Improvement Program Manager		2/27/13
11. Teresa Lopes, Senior Project Manager		2/27/13

A-IDDE-8b

Hazardous Materials Spill Response and Training Test

IDDE 8 – Hazardous Materials Spillage Response and Training, 2-27-13
Post-Quiz

1. The Worker's Right-to-Know is also called:

- A. Toxic Release Inventory
- B. Union Newsletter
- C. Hazardous Communication Standard
- D. Prop. 65 list of Chemicals
- E. A and D

2. Universal Waste is:

- A. Refuse generated at Universal Studios
- B. A category of waste that generally poses a lower threat relative to other hazardous wastes
- C. The remnants of an exploded star
- D. Ubiquitous and produced in very large quantities by a large number of generators
- E. B & D

3. Which law regulates hazardous waste and which government organization is tasked with implementing it?

- A. Solid Waste Disposal Act and the US Fish and Wildlife Service
- B. Clean Water Act and the California EPA
- C. Resource Conservation and Recovery Act and the US Environmental Protection Agency (EPA)
- D. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Regional Water Quality Control Board (RWQCB)

4. Which term(s) best describes an absorbent material that attracts petroleum-based liquids while repelling water-based liquids?

- A. Hydromorphic
- B. Hydrophobic
- C. Hydrophilic
- D. Oily

5. A Hazardous waste can be characterized as which of the following:

- A. Toxic
- B. Ignitable (i.e. flammable)
- C. Corrosive
- D. Explosive
- E. All of the above

6. True/False: the Flash Point of a flammable liquid is the minimum temperature at which enough vapor is generated in an open container to support combustion in the presence of a source of ignition. If false give the correct answer

7. In responding to a spill of unknown nature which of the following choices places the steps in the correct sequence?

- A. Obtain help, respond, assess the situation, approach cautiously, Identify the hazard
- B. Identify the hazard, approach cautiously, assess the situation, respond, secure the scene, obtain help
- C. Approach cautiously, secure the scene, identify the hazard, assess the situation, obtain help, respond
- D. Secure the scene, obtain help, assess the situation, approach cautiously, identify the hazard, respond

8. Which of the following are common entryways for toxins to enter the body?

- A. Inhalation
- B. Absorption
- C. Ingestion
- D. All the Above

9. Who should be contacted when a hazardous material spill is reported or detected?

- A. The media
- B. County Fire Department Fire Prevention Division and Hazardous Material Unit
- C. State Hazmat Response
- D. City of Goleta Police Department

10. What is the best definition of SDS in our context?

- A. Students for a Democratic Society
- B. Safety Data Sheet
- C. Simple Digital System
- D. Sexual Diversity Study

11. OSHA requires that labels on hazardous products:

- A. Be written in English
- B. Identify hazardous chemicals
- C. Have appropriate hazard warnings
- D. Indicate the name and address of the chemical manufacturer, importer or other responsible party
- E. All the above



A-CSRC-1: City of Goleta Construction Site Storm Water Inspections, May 1, 2012– April 30, 2013

Date	Inspector	Site	Comments
5/21/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Primary activity on-site is now restricted largely to installation of exterior wall panels. No compliance issues observed.
6/8/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	During inspection, spoke w/ HBE staff regarding progress. The site was generally in good order. Daily water applications to all dirt access ways appears to be adequate to control dust and track-out.
7/6/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected site in afternoon, and found it generally in good order. An excavation has recently been made to the south of the main structure, which has generated a large stockpile of dirt on one side. Located as it is near the Patterson Ave. property line, the stockpile has the potential to generate significant fugitive dust if not managed properly. HBE staff was advised of the importance of preventing such an event.
7/16/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Site was generally in good order. The large excavation remains open and the stockpile remains in place pending the construction of the hospital's concrete emergency water reservoir. About one third of the soil removed from the excavation was exported from the site last week: the rest is likely to stay put for at least a month during which the concrete reservoir will be constructed. HBE staff plans to refill much of the voids around the vault with stockpiled dirt. HBE staff also indicated that they were periodically watering down the stockpile to prevent escape of dust. Additional cleanup and repair of the perimeter fencing along the Patterson side of the project has also been undertaken to ensure no sediment escapes under the fence to the sidewalk.
7/31/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Upon inspection, site was found to be in satisfactory condition. Comstock staff indicated continuing attention to the matter of dirt accumulating in the streets in some places. These are now regularly cleaned with shovel/broom. A street sweeper is scheduled for the end of this week to further maintain control of the issue. Pour for the foundations of the final 5 houses planned for this Friday and following Tuesday. Roll off bins for the purpose of wash out already located on site.
7/31/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	HBE staff was unavailable during the inspection. Inspected recently installed water storage "tank", the excavation where it has been installed, and the associated large stockpile of earth still located just to the north. Examination of the stockpile showed evidence of frequent and recent watering (surface was "skinned" over), and no dust appears to be escaping onto the sidewalk or street located just outside the property fence.
8/10/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	During inspection, Comstock staff directed my attention to a concrete spill that had occurred earlier in the day as a result of work taking place at the home of a Bluffs resident on Elderberry Rd. located uphill from current new home construction. Evidence in the gutters and around the storm drain drop inlets indicated substantial amount of concrete had been allowed to run down the

			street. Fortunately, the protective sand-bag barriers around the downstream drains prevented most concrete particulate from escaping to the creek drainage. Contaminated fluids, however, likely flowed into the channel with unknown consequences. Although the spill was the responsibility of a private home-owner and not the result of current Comstock activity, Comstock staff nevertheless assisted during the event to interact with the concrete truck driver, minimize the impacts of the spill and inform MCP staff in a timely manner. Comstock staff has offered to contact the homeowner responsible, and help to develop a plan for clean-up of residue still in street. A street sweeper is scheduled to visit the site on the 13 th .
8/14/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the referenced site Tuesday afternoon to check on clean-up of the concrete spill that occurred last week. Comstock staff was unavailable, but inspection of the effected storm drain inlets showed they had been completely cleaned of concrete residue, that all the sand bags and fabric protections for the drains had been cleaned and reinstalled, and that a street sweeper appeared to have recently cleaned the street's surfaces.
8/14/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Some of the dirt from the large stockpile located along the Patterson Ave. property boundary is now being moved and used to establish finish grade on the south side of the main structure. Remaining stockpile being conscientiously watered and managed to prevent escape of fugitive dust.
9/14/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Nearly the entire stockpile previously located by the southeast corner of the new hospital structure has been replaced back in the ground, spread around the project site to achieve design grade or exported.
9/14/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Recent excavation of gas lines running right along the street edge servicing many of the homes now under construction had caused some escape of dirt onto the gutter surfaces, but a street sweeper is scheduled to clean the construction zone later in the day, and all such excavations are likely to be completed in the next week.
9/26/12	John Storrer	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Spoke w/ Site Superintendent who indicated they planned to begin clearing and grubbing the remaining 15 undeveloped lots early next week. Soil re-compaction will be followed by installation of underground utilities, foundations, and structural work. Also discussed the need for elevated attention to storm water controls, since construction is likely to extend throughout the approaching rainy season. The Superintendent has begun to formulate a plan for installation of BMPs, which include at minimum: replacement of gravel-filled bags with straw bales along edges for curbs; replacement or reinforcement of sediment controls at storm drain inlets; staging of sand bags in readiness for pre-storm deployment; increased attention to general housekeeping to prevent source of pollutants from entering the storm drain system; sediment controls in association with exposed soils and stockpiles. BMPs are to be installed over the next month with the intention of achieving full rainy season preparedness by Nov. 1.
10/2/12	John Storrer	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Spoke with Site Superintendent about plans to ready site for approach of rainy season. In addition to the measures discussed on 9/26 during previous inspection, we discussed the need to export or cover stockpiles of surplus soil and better control and consolidation of washout stations. Superintendent plans to arrange for export of surplus soil, and agreed that attention to containment and control of construction-related materials (e.g. drywall waste) was in need of improvement.
10/4/12	John Storrer	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Site inspected and found in good order. Housekeeping was satisfactory, track-out controls (waffle-plates, gravel aprons) at points of ingress/egress in good condition. Attention to

			erosion/sediment/drainage controls should be elevated in the coming weeks. Measures should include repair and reinforcement of sediment barriers (e.g. silt fencing) on the site perimeter and protection of storm drain inlets.
10/5/12	Vince Semonsen	Cabrillo Business Park 6767 Hollister Ave.	10 site visits were made by the Onsite Environmental Coordinator during the month of September, and the Site Superintendent was contacted throughout the month to discuss the current and future site construction activities. With the amount of clearing, grubbing and earth movement, dust control was closely watched. For most of the month, weather was fairly calm and dust control was not an issue but on several afternoons the wind came up and the water trucks onsite were not keeping up with dust suppression. The OEC discussed this issue with the Site Superintendent who worked with the contractors to ensure that either the control efforts were ramped up or the work was slowed down. As the rainy season approaches the OEC will be working with CBP personnel to ensure that sediment control measures are in place prior to the onset of any storm systems. The problem of track-out of mud will also be revisited with the Site Superintendent
10/5/12	John Storrer	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Grubbing on lots 22-25 and 29 through 38 have been completed, and organic material to be disposed off site. Attention to dust control on exposed soil was satisfactory. Again discussed plans to prepare entire project site for approaching rainy season. These preparations to begin once satisfactory compaction achieved on undeveloped lots (by end of current week). Measures will include removal of hundreds of deteriorated gravel-filled bags and replacement of sediment controls at curb edges with straw wattle. Recessed filters at all storm drain inlets are to be removed, cleaned and surface sediment controls replaced. Surplus soil stockpiles will be removed.
10/10/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected references site in anticipation of light rain or thunder showers later this evening (NOAA predicts 40% probability). HBE staff indicated they would address the following three issues related to storm preparedness by end of the day: repair and replace as necessary the 2 drop inlets located within the project access roads, one near the new entrance on Patterson Ave., and the other in the road on the west side of the new hospital structure; cover, wattle or otherwise protect and contain potential sediment release from the 3 small stockpiles that remain on-site. Inspect the Patterson Ave. perimeter of the site near the new hospital structure to ensure that gradient/silt fence remains in good condition to prevent runoff to the street.
10/10/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected references site in anticipation of light rain or thunder showers later this evening (NOAA predicts 40% probability). Comstock staff indicted awareness of and intention to address the following 5 issues as 1 st priorities for storm preparation: cover and secure the large stockpile of unconsolidated soil located on the west side of the construction zone; repair and replace sandbags along the curb/street in all locations where site gradient appears likely to send sediment towards the street unfiltered; clean up and repair all filtration devices inside street drop inlets, and then reestablish sandbag/filter cloth protections over their surfaces to prevent sediment escape; backfill, cover or otherwise deal with the significant amounts of soil now present on top of the curbs running down the east side of the construction zone where recent installation of front wall footings has generated large spoils piles; install sandbag chevrons in numerous locations along street rain gutters to provide catchment locations for sediment fall-out before contaminated water arrives at drop inlets. A street sweeper is scheduled for a thorough pass of streets within the construction zone later this afternoon.
10/11/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800	Conducted follow-up inspection to review compliance with storm preparation "punch-list" items in report of 10/10. In all cases tasks have been satisfactorily executed.

		Hollister Ave.	
10/11/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Conducted follow-up inspection to review compliance with storm preparation "punch-list" items in report of 10/10. In all cases tasks have been satisfactorily executed.
10/26/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	During inspection, spoke w/ Comstock staff. Much of the disrupted soil along the street has been graded away from the curb. Erosion control installations throughout the site appeared generally to be in good condition. Areas around the graded lots where foundations have yet to be poured are well protected.
10/26/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Work on Patterson Ave. relating to installation of driveway apron, sidewalk and curb appears nearly complete. No other issues to report.
11/9/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site following very light showers in some parts of the region. Site was generally in satisfactory condition.
11/12/12	Vince Semonsen	Cabrillo Business Park 6767 Hollister Ave.	13 site visits were made by the Onsite Environmental Coordinator during the month of October to oversee the many construction activities throughout the site and to discuss the sediment control measures as the rainy season approaches. All observed construction activities were conducted in compliance with the conditions of the project with the exception of the ongoing challenge of dust control. The soil stockpile work at Building 11 was completed, and the pile hydromulched to prevent erosion and dust. During the month, several small storm systems were predicted to pass through the Goleta area, prompting discussions with the Site Superintendent about project wide sediment control measures. During the month, storm drain protections were maintained and fortified, and the rock aprons at the construction site entrances were extended and rumble plates added to further reduce incidence of track-out. Dust control continues to present a challenge, and the OEC emphasized the need to have the site thoroughly watered down at the end of the work week to stabilize the site over the weekend.
11/15/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected site in response to NOAA weather forecast calling for a 30% chance of ppt this evening before 2200. NOAA forecast for weekend now 70% chance of ppt on Saturday. Rainfall amounts for both events now predicted to total ¼ inch. The site's storm preparations were generally satisfactory. Concrete washout bin has been removed and its replacement is planned for a better location. A street sweeper and clean-up laborers are scheduled to work on the site tomorrow. Protections around storm drain inlets remain in satisfactory condition.
11/15/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected site in response to NOAA weather forecast calling for a 30% chance of pot this evening before 2200. NOAA forecast for weekend now 70% chance of pot on Saturday. Rainfall amounts for both events now predicted to total ¼ inch. Site generally in good condition. Excavations within the site pertaining to utility installations have generated a large stockpile of dirt in the center of the area on the south side of the main structure. Erosion control measures installed around the perimeter of this area appear to be adequate to prevent escape of sediment in the event of predicted rain, but the stockpile may require additional measures to control erosion or dust generation in the future.
11/16/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Briefly inspected site in the afternoon as a light rain continued to fall over the region. Site's storm preparations were performing adequately and I noticed no signs of erosion or sediment escape.
11/16/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Briefly inspected site in the afternoon as a light rain continued to fall over the region. All street surfaces and gutters were clean of track-out or other sediment, and all drain inlets were well protected.
11/21/12	Bruce Reitherman	Goleta Valley Cottage Hospital	Inspected the site, which was generally in good order and showed no signs of significant impacts

		350 S. Patterson Ave.	owing to last weekend's rain event. HBE staff indicated that the large stockpiles that have accumulated onsite over the last few weeks will be exported from the site on 11/26.
11/21/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site, which was generally in good order and showed no signs of significant impacts owing to last weekend's rain event. The concrete washout station has now been put in a well-protected location.
11/27/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site in anticipation of significant rainfall NOAA predicts for tomorrow and Thursday, with additional showery weather anticipated through the weekend and perhaps beyond. The site was in generally good condition. A crew worked with brooms and scrapers removing dirt from the street surfaces, and small soil stockpiles, curbs and gutters vulnerable to erosion appeared to be protected with sandbags and/or wattle. A street sweeper is scheduled to arrive tomorrow morning to complete clean-up.
11/27/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site in anticipation of significant rainfall NOAA predicts for tomorrow and Thursday, with additional showery weather anticipated through the weekend and perhaps beyond. In general, site was in good condition. The large stockpile located on the south side of the new structure has not been exported as expected due to contractor scheduling conflicts, but its location relative to drains, trenches and other surface features suggested that it would not be likely to generate sediment escape from the property boundary. Drain features were generally protected with adequate filtration measures (gravel, geotextile and/or screen). As wet weather is likely to generate track-out onto Hollister Ave., HBE staff were advised to schedule a street sweeper for tomorrow evening if necessary. Other measures may also prove necessary as this event develops and patterns of runoff become more obvious.
11/29/12	Lawrence Hunt	Haskell's Landing 7900 Hollister Ave.	Just before it began to rain, a truck delivering gravel for the entrance points punctured its fuel tank and leaked about 1 gallon of diesel fuel onto the rumble plates at the west entrance to the site off Hollister Ave. Driver and site superintendent immediately applied pelletized sorbent to the spill and a vacuum truck was called in to vacuum up all fuel and sorbent. Contaminated soil and sorbent material was placed in a 55-gal. drum and hauled off to a certified hazardous landfill.
11/30/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site and found it in generally good condition. Rainfall generated by the current event, which began 3 days ago, has not generated any sediment escape issues. Onsite staff were adding base to selected access path surfaces with the limits of the work area to minimize tire exposure to mud and track-out. A street sweeper had cleaned Patterson Ave. earlier in the day, and will return to the site later in the afternoon to make a final clean-up pass on Patterson Ave. to remove any remaining traces of track-out left by vehicles departing for the day.
11/30/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site in the afternoon as light rain continued to fall over the region. Site was in satisfactory condition. All road surfaces were clean and erosion measures in place on/around the lots under/awaiting construction were adequate. Small puddles had begun to form on some of the graded lots, but runoff caused by this event does not appear to generate any sediment escape.
12/3/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site, following a weekend of rain during which more than an inch of rain fell over the region. The site was in satisfactory condition, and a street sweeper had recently cleaned Patterson Ave. with good results.
12/3/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site, following a weekend of rain during which more than an inch of rain fell over the region. The site was in satisfactory condition, and Comstock staff indicated that laborers are scheduled to clean up small amounts of sediment trapped by erosion control measures in street gutters near drop inlets later this week.

12/4/12	John Storrer	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site and spoke w/ HBE staff site superintendents about track-out. They were aware of a complaint received by the City from a cyclist about track-out along the Patterson frontage which caused him to go further into the traffic lane than normal. Site conditions are extremely muddy as a result of recent rains. An unsatisfactory level of soil on the roadway at the time of the inspection was brought to HBE's attention. They agreed the situation needed improvement and indicated steps had already been taken to rectify it. Specifically, more gravel will be spread within the site perimeter where soil saturation is problematic. A street sweeper has been scheduled on a regular basis and the road is typically cleaned at the end of each workday. Given the situation, they agreed street sweeping needed to be more frequently scheduled. HBE staff expressed a commitment to ensuring compliance with relevant permit conditions of approval through whatever means necessary.
12/6/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site to follow-up on recent inquiries and observations related to muddiness of the site and track-out onto Patterson Ave. I found no track-out on the street at the time of inspection (5:00 p.m.) and observed that most of the access road area inside the site boundary had been covered with a new layer of road base. The new base should help to dry out the site and inhibit mud from adhering to vehicle tire. In combination with the more frequent street sweeping, track-out should be minimized.
12/12/12	John Storrer	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected site in advance of anticipated ppt. Spoke with site Superintendent re: preparations for rainfall. There was a high level of activity onsite which included home construction, landscaping, and export of surplus soil. Equipment operation and vehicle traffic on exposed portions of the site had resulted in soil tracking onto interior roadways, driveway aprons, and gutters. A street sweeper was actively engaged in cleaning soil from asphalt surfaces at the time of inspection. The Superintendent indicated that the following additional cleanup and storm preparations were to be completed by days end: removal of a small soil stockpile from the street (temporarily placed during landscaping); removal of accumulated soil from sediment traps along curbs and at storm drain inlets; cleanup of miscellaneous debris. Storm activity is predicted to increase in volume and intensity early next week, and the following recommendations were made: remove accumulated sediment and debris from curbs and gutters; thoroughly clean sediment traps at storm drain inlets; clean or replace fabric filters at storm drain inlets; ensure that washout stations are secure (e.g. bins covered to prevent accumulation of storm water and over-topping).
12/12/12	John Storrer	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected site in advance of anticipated ppt. Spoke w/ site Superintendent about preparing the site for rainfall and subsequent storm runoff. I recommended that storm drain inlets be inspected and cleaned and that sediment filters (straw wattles) be replaced as necessary. Also suggested inspection be made to ensure open containers were covered to prevent accumulation of rainfall or storm runoff and that general site cleanup be done concurrently. Superintendent indicated these measures would be accomplished by day's end. A laborer equipped with a push-broom was stationed at the point of ingress/egress onto Patterson Ave. Soil tracked onto the street by haul trucks exiting the site was immediately cleaned up, preventing residual track-out onto the roadway.
12/28/12	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site in anticipation of wet weather predicted for the weekend. Many homes near completion, but during the course of a typical work week, construction/landscaping activity continues to produce considerable track-out within the fenced construction zones of soils onto paved streets and gutters running to storm drains. Comstock staff indicated that a street sweeper was scheduled to clean all paved surfaces later in the day. Storm drain drop inlets and the sandbag

			sediment barriers surrounding them, however, are in need of additional clean-up and/or repair that should be ten to restore these features to their optimum functionality.
12/28/12	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site in anticipation of light rain predicted for the weekend. Site was in satisfactory order. A small amount of dirt and gravel was deposited on the margins of both sides of Patterson Ave. in the Vicinity of the construction site. HBE staff indicated that they would schedule a street sweeper as soon as possible to remove it.
12/29/12	Lawrence Hunt	Haskell's Landing 7900 Hollister Ave.	There has been no activity on the project site since around November 3, due to excessive muddy conditions. Erosion and sediment control BMPs seem to be holding up okay during rain events.
1/4/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site in anticipation of weekend rain. A street sweeper was removing dirt and debris from road surfaces within the fenced work zones. The site was generally in a satisfactory state of storm preparedness.
1/4/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site in anticipation of weekend rain. The site was generally in a satisfactory state of storm preparedness.
1/7/13	Vince Semonsen	Cabrillo Business Park 6767 Hollister Ave.	<p>10 site visits were made by the Onsite Environmental Coordinator (OEC) during the month of November. In the early part of the month dust control continued to be an issue, but this quickly changed to mud control as a number of storms passed through the area. With the onset of rainy weather, the OEC worked w/ construction management to implement the best available erosion and sediment control measures and to stabilize the construction site entrances and exits to limit track-out to the public roads. Stormwater Industries, Inc. was hired to evaluate and implement the erosion and sediment control measures.</p> <p>8 site visits were made by the OEC during the month of December. A number of storm systems passed through the area during the month. The site was quite muddy for most of the month, and vehicular traffic was restricted to a few graveled parking areas near the Los Carneros Rd. entrance to prevent track-out to the public roads. Later in the month, road base was brought in and laid down around the various building locations to allow truck access to the building pads. Pondered water both on and off the site was an issue throughout December. The roadside drain along Los Carneros Rd. had been relocated as part of the road expansion work so there is no working drain inlet near Discovery Rd. This caused water to pond both within the new roadway easement and out into the publicly traveled roadway. City personnel noticed the safety issue and asked that the water be pumped out of the roadway. The OEC noted that additional onsite ponded water was also being pumped into the road drains – a violation of project conditions. The on-site superintendent was asked to redirect the pumping to the retention system. For ponded water near Discovery Rd. (too far from the retention basin) the use of a 4x8 filter bag was used to remove silt prior to discharge into the drainage system.</p>
1/18/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Site was in good order. 5 new lots on Elderberry Dr. were being graded/prepped/trenched for installation of foundation formwork, with all surface soils being transported within the site for use as backfill on other lots where homes are nearly complete.
1/18/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Site generally is generally in satisfactory condition, no compliance issues were in evidence. Dirt stockpiles have now been exported, a number of trailers have been removed and all large excavations/trenches on the south side of the hospital structure have now been filled. Street sweepers continue to clean Patterson Ave on a regular basis, and track-out appears to be minimal.
1/24/13	Lawrence Hunt	Haskell's Landing	Working with site superintendent to maintain and reinforce erosion control measures. Earlier in

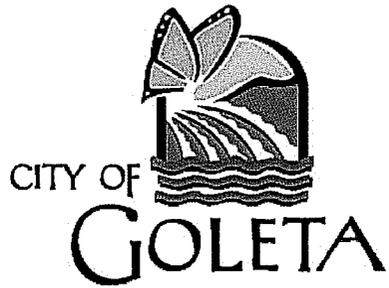
		7900 Hollister Ave.	the day, surface runoff collapsed portions of the silt fencing in the western parts of the site, allowing runoff to reach Hollister Ave. Also, the on-site reach of Devereux Creek is flowing as a result of rainfall, carrying sediment laden water downstream, off-site. Both County and City of Goleta inspectors arrived on site to assess the situation and make recommendations to strengthen erosion and sediment controls. Site Superintendent had subcontractor on site in the afternoon installing additional measures to control sediment and de-silt runoff.
1/25/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site following storm event that moved through the region earlier in the week. The site was in good condition. Streets and gutters were clean, and storm water features on lots currently vulnerable to erosion due to foundation trenching and form work were in good repair.
1/25/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site following storm event that moved through the region earlier in the week. The site was in good condition. Road surfaces inside the project perimeter were muddy, but evidence around drains indicated that sediment is being trapped by filtration features and not being transported off-site. Patterson Ave. was being cleaned by a sweeper at the time of my visit and the street was in excellent condition in this regard.
1/26/13	Lawrence Hunt	Haskell's Landing 7900 Hollister Ave.	Following reported and observed erosion problems on 1/24/13, additional BMPs (silt fencing, straw wattles, and sandbags) were deployed. On inspection this morning, runoff had been significantly reduced though small amounts of turbid runoff were still running through the Devereux Creek channel and in the space between the edge of the pavement of Hollister Ave. and the chain-link fence, even after being intercepted by silt fences and straw wattles. Will request temporary installation of jute netting on the exposed banks of the creek. Soils on site have a very high clay content. Once mobilized by water, the clay particles remain in suspension such that runoff remains turbid even after interception by sediment control BMPs. Contractor also did not anticipate the degree of plasticity of the soil on site, nor how long it takes for the soil to dry sufficiently to allow work to continue.
1/29/13	Lawrence Hunt	Haskell's Landing 7900 Hollister Ave.	Inspected site during bands of showers this morning. All ppt. sank into ground with no runoff. Contractor p8umped water that had been collected in low spot in construction zone into sandbag berm surrounded by silt fence, per City staff suggestion. Water was still no clear after passing through two layers of silt fencing straw wattles, and being detained by sandbag berm. This water entered Devereux Creek at upstream end as sheet flow out from silt fences and was allowed to flow downstream. Water was still slightly turbid upon entering culvert beneath Hollister Ave., so pumping was discontinued, and remaining water allowed to percolate into the soil. Contractor has installed additional silt fencing, sandbags and earth berms to contain surface runoff. On 2/6 hydromulch was applied to about 30,000 square feet of exposed soil in the VEP and on soil stockpiles west of Devereux Creek. Hydromulch was not applied thickly enough on soil stockpiles, and contractor will reapply in deficient areas early next week.
2/12/13	Vince Semonsen	Cabrillo Business Park 6767 Hollister Ave.	10 site visits were made by the Onsite Environmental Coordinator (OEC) during the month of January. Numerous concrete pours were conducted and some trenching work began within and across Coromar Road. One significant storm moved through the Goleta area during the month, leading to some track-out of mud to the public roadways. Following the storm, water ponded along Los Carneros Road was pumped into the street drains using the approved 4x8 foot silt bag. However crews were observed by the OEC pumping muddy, onsite ponded water into the Hollister Rd. Street drains. The OEC instructed the crews to redirect the pumping into the retention basin system, and the incident was reported to the Site Superintendent. Rumble plates and rock at the

			exit/entrance needs repair. General trash cleanup also needs to be conducted. The use of the plastic lined dumpsters for concrete washouts has been problematic, and for a variety of reasons, the system has not performed well. The OEC discussed with Site Superintendent.
2/18/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Briefly inspected site in anticipation of rain scheduled to arrive on Monday. Spoke with Comstock staff on-site and inspected recent storm water maintenance activities. Eastern spur of the project is now virtually finished with small amounts of landscaping remaining undone. Over about half of the western spur, localized grading and trenching of forms for a concrete pour planned to take place next week, has created some areas where track-out onto street surfaces is significant. Street sweeping and shovel/broom work is scheduled to take place in advance of anticipated rain.
2/18/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Briefly inspected site in anticipation of rain scheduled to arrive on Monday. Several shallow but significant excavations on the south side of the new hospital structure have created low stockpiles comprised of just enough material to refill excavations once work within them is complete; all surplus material has already been exported. Stockpiles are located such that any sediment movement caused by upcoming rain is likely to move material back into the adjacent excavation and not likely to result off-site sediment escape. The perimeter of the site is well protected with tranches and silt fence, and additional wattles were scheduled for installation across all driveways onto Patterson to minimize the potential for sediment escape or track-out.
2/20/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site following traces of rain that fell over the region last night. Small amounts of dirt were observed in the street near lots where grading and heavy yard work is still underway, but sandbag and filtration features along curbs and around gutters appeared to have prevented any off-site escape of sediment. Laborers were cleaning the drains and gutters with shovel and broom at the time of inspection.
2/20/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site following traces of rain that fell over the region last night. Rainfall was insufficient to cause any observable problems with regard to sediment escape or drainage. Vehicle traffic in and out of the site today was likely to cause track-out onto Patterson Ave.
3/6/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected site in anticipation of a predicted rain event. Storm preparedness was satisfactory, and Comstock staff indicated that additional work on the protections placed around drop inlets was planned for later in the day. The entire eastern spur of the project is now complete. Streets are clean and landscaping is in a condition where off-site sediment transport is not likely to occur.
3/6/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site in the afternoon, with light rain falling and more showery weather predicted for later in the week. Spoke with HBE staff on-site and inspected recent storm water maintenance activities.
3/15/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected site in anticipation of rain event mid-week. Site was generally in satisfactory condition, but all driveways along Patterson Ave., appeared to have the potential to allow escape of runoff and sediment unless temporary protection across them was installed. HBE staff indicated that there were aware of predicted rain and that they would install temporary BMPs where necessary the day before rain begins and schedule street sweeper visits to control track-out.
3/15/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected site in anticipation of rain event mid-week. Noted a number of potential storm water problem areas on site that have developed in recent days due to high level of activity occurring in the small space available on the project's southwest corner, where framing, foundation work and finish landscaping all take place simultaneously, and where grading of remaining lots is planned to occur in the near future. A "punch list" of action items was provided to Comstock staff.
3/22/13	Bruce Reitherman	Bluffs at Sandpiper Residential	Inspected the site after rain events predicted to arrive earlier in the week failed to materialize. The

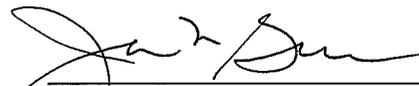
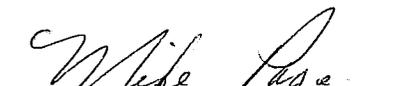
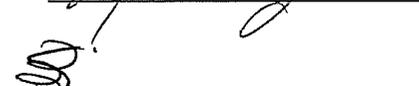
		Development Project, 7800 Hollister Ave.	site was in good condition, with all storm water preparedness items on the punch list provided on 3/15 having been satisfactorily resolved. Activity levels continue to be high along Elderberry Dr. in the project's southwest corner.
3/25/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site after rain events predicted to arrive earlier in the week failed to materialize. The sites were generally in satisfactory condition. Much of the utility access excavation work under way in the area to the south of the main structure in recent weeks has now been completed, and most small stockpiles/spoils have either been used to refill excavations or exported.
4/1/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected the site following light rain over the weekend. Erosion control installations were all in good order and laborers were working to maintain adequate control of track-out onto street surfaces located within the fenced construction zone.
4/1/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected the site following light rain over the weekend. Temporary BMP installations across the driveways opening onto Patterson Ave. were in satisfactory condition. Laborers with shovels and brooms were maintaining adequate control of track-out from the site's muddy interior.
4/4/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Inspected site following storm event that passed through the region the previous morning. Rainfall amounts on site were negligible, and no negative storm water impacts were observed.
4/4/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Inspected site following storm event that passed through the region the previous morning. Rainfall amounts on site were negligible, and no negative storm water impacts were observed. Track-out noted by citizen bicyclists following previous rain events did not appear to be a problem at the time of inspection. Site remains muddy, and track-out is likely to continue to be a potential problem for several days. HBE staff should continue to apply effort as necessary to keep the street clean.
4/11/13	Bruce Reitherman	Goleta Valley Cottage Hospital 350 S. Patterson Ave.	Site was found to be in generally satisfactory condition, and was free of track-out.
4/11/13	Bruce Reitherman	Bluffs at Sandpiper Residential Development Project, 7800 Hollister Ave.	Western spur of the site is busy and congested with material, vehicles and other equipment, but the site was otherwise in generally good order. All lots are now developed at least to the extent that they are trenched and formed for foundations.
4/22/13	Vince Semonsen	Cabrillo Business Park 6767 Hollister Ave.	6 site visits were made by the Onsite Environmental Coordinator (OEC) during the month of March. Approximately 2 inches of rain fell in the Goleta area during the month, with half of that during a March 6-8 storm. There were few problems with mud track-out into the public roadways. Ponded water was pumped through a filter bag into roadway drainage system, but the rate of pumping was either too high, and/or the filter bag was old, so the foreman was instructed to reduce the pumping rate and replace the filter bag asap. The plastic lined bins used for concrete washout remain an issue, and a better approach is needed.

A-CSRC-2a

Construction Site Inspection Training Log



**Goleta Storm Water – CSRC 2
Construction Site Inspection Training
Goleta City Council Chamber
March 13, 2013**

	Sign	Date
1. James Guerra, Building Official		3-13-13
2. Bruce Reitherman, Construction Site Monitor		3/13/13
3. Mike Page, Public Works Inspector		3/13/13
4. Dan McLaughlin, Building Inspector		
5. Bob Snyder, Building Inspector		
6. Stephanie Spieler, Building Inspector		3/13/13
7. Vance Johnson, Building Technician		3/13/13
8. Natasha Heifetz-Campbell		3/13/13
9. Everett King, Environmental Services Coordinator		3/13/13

A-CSRC-2b

Construction Site Inspection Training Test

**Construction Site Runoff Control Training, 3/13/13
Post-Quiz**

1. Which Federal Legislation provides the framework for regulating construction site activities that can negatively impact the environment?

- A. The Safe Drinking Water Act
- B. The Clean Water Act
- C. The National Environmental Policy Act
- D. The Wild and Scenic Rivers Act
- E. The Nonindigenous Aquatic Nuisance Prevention and Control Act

2. Fill in the Blank: Silt fences are appropriate in areas where runoff will occur as _____ flow, not exceeding 0.5 cfs.

- A. low-level
- B. direct
- C. high velocity

3. True/false: In California, the Federal EPA administers the NPDES storm water permitting program. If false, give correct answer.

False – State Water Resources Control Board & Regional Water Quality Control Boards

4. True/false: Trees should be marked and buffer areas delineated for preservation. If false, give correct answer. True

5. Fill in the blank: Stormwater control BMPs need _____ to ensure their effectiveness, and many permitting authorities require self-inspection for construction projects.

- A. infrequent maintenance
- B. diligent response
- C. regular inspections
- D. public inspections

6. What are some common storm water pollutants?

- A. Sediment
- B. Bacteria and viruses
- C. Metals
- D. Nutrients
- E. All of the Above

7. Under the NPDES general permit, how often must inspection be performed with regard to storm events on construction sites?

- A. Every 24 hours
- B. Once a week
- C. After every storm event
- D. Before and after a storm event and once each 24 hour period during extended storm events.

8. True/false: Construction sequencing is a specified work schedule that coordinates the timing of land-disturbing activities and the installation of erosion and sediment control measures. True

9. An inspector should plan his/her inspection schedule to target priority areas first, this would include:

- A. Sites discharging to water quality-impaired waters
- B. areas undergoing rapid development
- C. Sites near surface waters
- D. B and C
- E. All of the above

10. A Silt Fence is:

- A. A piece of fabric that covers and stabilizes a slope.
- B. Filter fabric stretched between posts along the low or downslope areas.
- C. A fence designed to filter storm water
- D. A fence that is able to hold up to 50 cubic yards of mud.

11. What activities should construction operators do to inspect a site prior to a rain event?

- A. Ensure sediment capturing BMPs are cleaned out
- B. Verify dumpsters are covered
- C. Ensure paint and chemicals are covered
- D. Make sure no oil spills are present
- E. All of the above

12. True/false: Prior to site inspection, the inspector should review available documents, such as permits, copies of the site plan, and any past inspection reports. If false, alter the sentence to make it true. True

13. The detrimental impacts of sedimentation include:

- A. Decreased water clarity and aquatic plant production
- B. Building nice public beaches
- C. Flooding and nuisance problems for down-gradient property owners
- D. Avoided costs of disposal
- E. A & C

14. With regard to construction access, entrances, and parking, what measures should be taken to ensure erosion and sedimentation are minimized?

- A. Stabilize any bare areas with gravel and temporary vegetation
- B. Dampen all exposed soil areas to prevent runoff
- C. Install security gates at all entrance locations
- D. All of the above

15. Select the required element(s) of a SWPPP

- A. Site and Activity description , including a site map
- B. Identification of potential pollutant sources.
- C. Description of controls to reduce pollutants
- D. Maintenance and inspection procedures
- E. All of the Above.



A-PPGH-3: Street Sweeping Log

Street Sweeping Contractor: A1 Sweeping

Date	Zone 1		Zone 2		Zone 3	
	Curb Miles Cleaned	Debris Cleared (in cubic yards)	Curb Miles Cleaned	Debris cleared (in cubic yards)	Curb Miles Cleaned	Debris cleared (in cubic yards)
May-12	66.5	28	62.5	28	69.5	33
Jun-12	66.5	28	62.5	28	69.5	32
Jul-12	66.5	32	62.5	25	69.5	33
Aug-12	66.5	28	62.5	29	69.5	33
Sep-12	66.5	30	62.5	29	69.5	32
Oct-12	66.5	31	62.5	30	69.5	33
Nov-12	66.5	21	62.5	21	69.5	21
Dec-12	66.5	21	62.5	21	69.5	21
Jan-13	66.5	29	62.5	28	69.5	30
Feb-13	66.5	28	62.5	27	69.5	30
Mar-13	66.5	29	62.5	29	69.5	30
Apr-13	66.5	21	62.5	21	69.5	21
Totals	798	326	750	316	834	349

Curb miles 2382
 Debris (yd³) 991

A-PPGH-7

General Stormwater Management Training Quiz

2013 City of Goleta General Storm Water Management Training - Quiz

1. Which major piece of federal legislation governs storm water quality in the United States?

- A. Safe Drinking Water Act
- B. Porter-Cologne Water Quality Control Act
- C. Federal Clean Water Act of 1972
- D. The Ramsar Convention on Wetlands of National Importance
- E. The Wild and Scenic Rivers Act

2. MS4 stands for:

- A. Multiple Staged Sediment Sampling Site
- B. Municipal Separate Storm Sewer System
- C. Mineralogical Singular Source Specific Spectroscopy
- D. My Stupendously Supercilious Sorority Sister

3. True or False: most municipal separate storm sewer systems route storm water run-off to a treatment plant where pollutants are removed.

4. Common pollutants such as litter, sediment and automotive fluids leaked onto the roadway are considered to be:

- A. Point sources of water pollution
- B. Non-point sources of water pollution
- C. Pointless sources of water pollution
- D. None of the above

5. Which of the following discharges/activities are currently considered exempt discharges to the Storm Drain system?

- A. Chlorinated swimming pool water
- B. Individual residential car washing
- C. Carpet cleaning wash water
- D. Run-off from lawn irrigation
- E. B & D

6. Which of the following are considered storm water pollutants?

- A. Dirt and soil
- B. Litter
- C. Pet Waste
- D. Chlorinated pool water
- E. All the Above

7. The impacts of sedimentation include:

- A. Decreased water clarity and aquatic plant production
- B. Improved public beaches
- C. Flooding and nuisance problems for down-gradient property owners
- D. Avoided costs of disposal
- E. A & C

8. True or False: It's acceptable to wash latex paint into the storm drain because latex paint is water-based.

9. The increased volume and rate of storm water run-off from urbanized areas can lead to

- A. Increased recreational opportunities for extreme kayakers
- B. Job security for search and rescue personnel
- C. Damage to stream beds and banks
- D. Increased erosion and sedimentation
- E. C & D

10. Which of the following methods allow homeowners to minimize run-off to the storm drain system and retain rainwater on site to infiltrate the soils in their yards?

- A. Redirecting rain gutter downspouts from the street or driveway to a vegetated or landscaped area
- B. Planting a rain garden
- C. Using pavers or other permeable surfaces for your driveway
- D. Use of rain barrels or Cisterns
- E. All the above

2013 City of Goleta General Storm Water Management Training - Quiz

1. True or False: erosion is a natural, topography forming process whereby soil particles are dislodged and transported by either water or wind to another location.

2. A stage of erosion that occurs when concentrated rivulets of run-off cut small, parallel channels in the soil of a slope, and that can be fixed with tillage.

- A. Sheet erosion
- B. Rill erosion
- C. Gully erosion
- D. Chemical erosion

3. Some of the detrimental impacts of sedimentation include:

- A. Decreased water clarity and aquatic plant production
- B. Building nice public beaches
- C. Flooding and nuisance problems for down-gradient property owners
- D. Avoided costs of disposal
- E. A & C

4. What is a SWPPP?:

- A. Solid Waste Public Private Partnership
- B. Seismic Waveform Peripheral Propagation Procedure
- C. Storm Water Pollution Prevention Plan
- D. Steve Wagner's Personal Pet Peeve

5. What are some common storm water pollutants typically generated at construction sites?

- A. Sediment
- B. Concrete and asphalt compounds
- C. Petroleum products (Fuel, oil and lubricants)
- D. Paints and solvents
- E. All of the Above

6. Fill in the blank: Stormwater control BMPs need _____ to ensure their effectiveness, and many permitting authorities require periodic inspections of construction sites.

- A. infrequent maintenance
- B. diligent response
- C. regular inspections
- D. public inspections

7. An erosion control blanket

- A. Keeps the Earth warm and comfortable at night
- B. Is a BMP designed to protect exposed soil areas from rainfall
- C. Should be used in conjunction with effective sediment control BMPs
- D. B & C

8. A Silt Fence is:

- A. A piece of fabric that covers and stabilizes a slope
- B. A sediment control BMP that uses filter fabric stretched between posts to trap sediment
- C. A fence that is able to hold up to 50 cubic yards of mud
- D. Appropriate in areas where runoff will occur as low-level flow
- E. B & D

9. A fiber roll

- A. Is a BMP designed to control sedimentation
- B. Is a healthy kind of sushi
- C. Should be used in conjunction with effective erosion control BMPs
- D. A & C

10. Construction sites are subject to stormwater inspections because:

- A. State and Federal regulations require it
- B. Performance of BMPs is dependent upon their proper installation and maintenance
- C. Inspections determine permit compliance
- D. All the Above

**A-PPGH-10a Residential Hazardous Waste Collected
UCSB Community Hazardous Waste Collection Center
May 1, 2012 – April 30 2013**

Material Type	Pounds
Acetic Acid Solutions	5.00
Aerosols	19,917.00
Alkaline Batteries	15,363.00
Ammonia Solutions	279.00
Ammonium Persulfate	289.00
Antifreeze	4,931.00
Asbestos	43,392.00
Auto Batteries	18,640.00
Caustic Alkali Liquids	1,522.00
Contaminated Soil	1,446.00
Cutting Oil	1,275.00
Cyanide	45.00
Fertilizers	8,741.00
Flammable Liquids	25,330.00
Flammable Liquids for Fuel Blending	18,799.00
Flammable Paint Liquids (Oil-Based)	27,290.00
Flammable Solids	28,246.00
Fluorescent Tubes	2,946.00
Fusee	538.00
Hydrofluoric Acid	362.00
Inorganic Flammable Liquids	10,765.00
Isocyanates	933.00
Latex Paint	155,315.00
Lead Acid Batteries	3,673.00
Medical Waste (Sharps)	40.00
Mercury Bulbs	991.00
Mercury Manufactured Items	307.00
Motor Oil	49,515.00
Oil Filters	4,500.00
Organic Flammable Liquids	1,421.00
Organic Hydrofluoric Acid	53.00
Organic Peroxides	612.00
Oxidizing Liquids	847.00
Oxidizing Solids	2,478.50
Paint Quarts/Pints	75,000.00
PCB Light Ballasts	799.00
Photochemicals	1,700.00
Poison Liquids	51,986.00
Poison Solids	20,996.00
Propane Cylinders	4,714.00
Rechargeable Batteries	2,247.00
Smoke Detectors	32.00
Triethyl Phosphate	127.50
Water Reactive Solids	57.00
Total	608,465.00

A-PPGH-10b

HAZMAT Collected,
MarBorg's David Love ABOP Facility



David Love Recycle Facility
Self-Haul
ABOP Materials
5/1/2012 - 4/30/2013

	Material	Total
Goleta		
	ANTIFREEZE	96.00 Gallons
	CAR BATTERIES	1,740.00 Pounds
	CRT'S	39,994.00 Pounds
	CPU	5,361.00 Pounds
	DRY CELL BATTERIES	2,424.00 Pounds
	ELECTRONICS	65,363.40 Pounds
	FLORESCENT BULBS	2,378.00 Feet
	OIL FILTERS	153.00 Units
	OIL	866.85 Gallons
	LATEX PAINT	1,057.00 Gallons
	Total Transactions:	2,406