

CITY OF OAKLAND
AGENDA REPORT

FILED
OFFICE OF THE CITY CLERK
OAKLAND

TO: Office of the City Manager
ATTN: Deborah Edgerly
FROM: Public Works Agency
DATE: March 16, 2004

2004 MAR -4 AM 11:09

RE: SUPPLEMENTAL INFORMATIONAL REPORT ON THE DECEMBER 29, 2003
STORM EVENT

SUMMARY

On February 24, 2004, staff presented an informational report on the impact of the storms of late December 2003 and Oakland's response. At the Committee Meeting, additional information was requested regarding Oakland's Maintain-A-Drain program and how that program is advertised and communicated with the public. This supplemental report is in response to that request.

FISCAL IMPACT

Since this report is supplemental only, no fiscal impacts are included.

BACKGROUND

During the winter, heavy rains wash a large amount of leaves, litter, and construction material into storm drains and cause flooding of homes and businesses. Oakland's Maintain-A-Drain Campaign is a volunteer driven program that encourages citizens to keep storm drains in their neighborhood free of debris. The Keep Oakland Beautiful (KOB) Unit of the Street Cleaning, Graffiti Abatement Division manages the Maintain-A-Drain Program. Volunteers that participate in the program receive rain gear, trash bags and a rake and are required to make a commitment for one season to maintain a storm drain inlet near their residence free of trash and debris. The volunteers put the trash and debris in green garbage bags, which City crews then pick up and dispose.

To promote the program during the Fall 2003, staff issued a press release to local media outlets to inform the public about our pre-storm activities that included information about the Maintain-A-Drain program. The Oakland Tribune, Montclairion, KTOP and KTVU Channel 2 all featured or disseminated information about the program. Additionally, staff sent 2,000 mailings to residents and merchants encouraging them to participate in the program. The City Council offices also helped distribute information to their respective constituents. Information about this program and other volunteer programs is also available on the Internet at: <http://www.oaklandpw.com/volunteer.htm>. The flyer, postcard and press release are attached.

Currently, 150 volunteers participate in the Maintain-A-Drain program.

Item: 10.15CC
City Council
March 16, 2004

ACTION REQUESTED OF THE CITY COUNCIL

This is a supplemental report; no action is requested.

Respectfully submitted,



RAUL GODINEZ, P.E.
Director, Public Works Agency

Prepared by:
Niccolo De Luca
Agency Administrative Manager

APPROVED AND FORWARDED TO
THE CITY COUNCIL:


OFFICE OF THE CITY MANAGER

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MAINTAIN-A-DRAIN CAMPAIGN INSTRUCTIONS

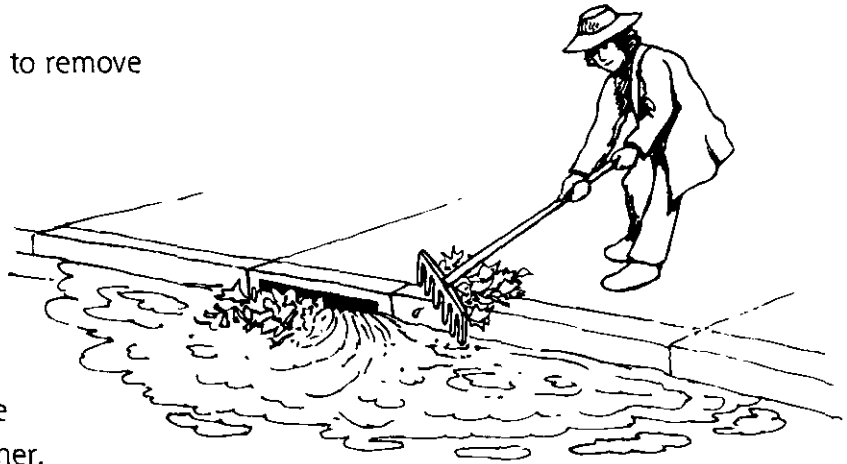
Thank you for joining the **Maintain-a-Drain Campaign**. By keeping a storm drain in your neighborhood free of debris, you will help prevent flooding and the damage it causes. Please read this instruction sheet before heading to your drain.

MATERIALS

- Rain gear (jacket, pants)
- Rake
- Instructions and signed Maintain-a-Drain Agreement

INSTRUCTIONS

- Before and during a storm, remember to periodically check the storm drain to make sure it is clear.
- Do NOT remove the grate from the storm drain opening. This does NOT unclog the system. Instead, it creates a hazard for *small children and family pets!*
- Use a rake (or shovel or broom) to remove leaves and garbage from the storm drain opening and gutter and place them in the appropriate container or bag. **DO NOT LEAVE TRASH NEAR THE DRAIN.**
- Add leaves to your compost pile or green yard trimmings container. Put garbage in your burgundy garbage cart.



SAFETY TIPS

- Wear bright colored clothes (if you're not in raingear) so that you can be seen by motorists.
- Watch out for cars. Stand on the curb or sidewalk if possible.
- Do not touch or attempt to remove hazardous materials such as syringes. Call 510-444-3322.
- To remove dead animals, call Animal Control at 510-535-5602.
- Be cautious when lifting a bag of wet and heavy material. If possible, get someone to assist you, or use a wheelbarrow.

Questions or problems? Call 510-434-5101
Monday through Friday, 8:00 a.m. to 4:30 p.m.

NO DUMPING! DRAINS TO THE BAY

Even when it isn't raining, storm drains funnel water away from neighborhood streets into creeks and the Bay. Turn this page over to discover more ways to prevent storm drain pollution and keep our creeks, Lake Merritt and the Bay clean and beautiful.

KEEP OAKLAND BEAUTIFUL!

The City of Oakland offers a wide range of opportunities for volunteers to clean and green their neighborhoods and commercial districts. Whether you are interested in cleaning up your city block or neighborhood creek, the City's **Keep Oakland Beautiful (KOB)** Program has resources to help.

VOLUNTEER OPPORTUNITIES & RESOURCES

ADOPT-A-SPOT (510) 434-5139 / ADOPT-A-CREEK (510) 238-6600

The City will provide you with tools and trash pickup to assist you in adopting a spot of your choice. After nine months of successful adoption, the City will post a sign with your (or your group's) name in recognition of your dedication. Keeping creeks and streets clean and free of litter improves water quality in the Bay and keeps water flowing which prevents flooding and erosion.

COMMUNITY CLEANUPS (510) 434-5139

Organize a cleanup in your neighborhood. The City will loan you tools and safety materials and provide trash pickup and organizational assistance. Past cleanup projects have included litter cleanup, graffiti abatement, creek cleanup and community gardening. Organizing a cleanup is a great way to bring your neighbors together.

MAINTAIN-A-DRAIN (510) 434-5139

By keeping a storm drain in your neighborhood free of debris, you will help prevent flooding and the damage it causes. Maintain-a-Drain Campaign volunteers complete a Maintain-a-Drain agreement and receive instructions, rain gear, trash bags, and a rake.

STORM DRAIN STENCILLING (510) 238-6600

The storm drain you recently cleaned and others near it may need to be stencilled (or re-stencilled) with the message "No Dumping! Drains to the Bay (or to a local Creek)." The City will provide you with a stencilling kit so that you can get the word out in your neighborhood.

Also, the City needs your help. **REPORT ILLEGAL DUMPING! Call (510) 434-5101** if you witness dumping in or onto our streets, sidewalks, storm drains, or creeks.

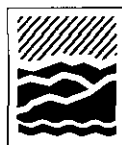
If there is an immediate hazard, such as oil being poured into a drain, call 911.

IMPORTANT NUMBERS

Adopt-a-Spot / Community Cleanups / Maintain-a-Drain	(510) 434-5139
Adopt-a-Creek / Storm Drain Stencilling	(510) 238-6600
Graffiti Abatement Hotline	(510) 238-4703
Recycling information and free curbside oil recycling kits	(510) 238-SAVE (7283)



City of Oakland
Public Works Agency



Alameda Countywide
Clean Water Program



MAINTAIN-A-DRAIN VOLUNTEERS NEEDED

City of Oakland crews are working hard to clean storm drain pipes to prevent flooding from winter storms. During gusty storms and heavy rains, the drains can quickly become clogged with leaves and debris. You can help the City prevent flooding this winter by keeping a storm drain in your neighborhood free of debris. The City will give you rain gear and a rake (both yours to keep) to assist you in your efforts.

To join the Maintain-a-Drain Campaign, go to one of the following locations and pick up a Maintain-a-Drain agreement, instructions, rain gear, trash bags, and a rake.

Fire Stations • call for pick up times

WEST OAKLAND, Station #3 1445 14th Street, 238-4003
NORTH OAKLAND, Station #8 453 51st Street, 238-4008
DOWNTOWN OAKLAND, Station #12 822 Alice Street, 238-4012
SAN ANTONIO, Station #13 1225 Derby Avenue, 238-4013
GLENVIEW, Station #16 3600 13th Avenue, 238-4016
ROCKRIDGE, Station #19 5776 Miles Avenue, 238-4019
EAST OAKLAND, Station #20 1408 98th Avenue, 238-4020
NORTH OAKLAND HILLS, Station #21 13150 Skyline, 238-4021
MONTCLAIR, Station #24 5900 Shepherd Canyon Road, 238-4024
CENTRAL OAKLAND HILLS, Station #25 2795 Butters Drive, 238-4025
EAST OAKLAND HILLS, Station #28 4615 Grass Valley, 238-4028
CENTRAL EAST OAKLAND, Station #29 1016 66th Avenue, 238-4029

Public Works Agency • stop by M-F, 8:30am-4:30pm

750 50th Avenue, 434-5139
7101 Edgewater Drive, Bldg. 2, 615-5566
250 Frank H. Ogawa Plaza, Ste. 4314, 238-3961



For more information, call
Keep Oakland Beautiful
(510) 434-5139,
M-F, 8:00am-4:30pm.

The City of Oakland
extends a huge
THANK YOU
to all our volunteers
that continue to
KEEP OAKLAND BEAUTIFUL
by participating in the
Maintain-a-Drain and
Adopt-a-Spot Programs.

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NEWS FROM PUBLIC WORKS AGENCY

FOR IMMEDIATE RELEASE

Contact:
Niccolo De Luca
(510) 238-6587

OAKLAND PUBLIC WORKS CREWS READY FOR WET WEATHER Sandbags and Plastic Sheeting Offered to Residents and Businesses Volunteers Needed

Oakland, CA – In response to the start of the rainy season in the Bay Area, the City of Oakland, Public Works Agency is taking proactive measures to prepare for the wet weather. We are working to clear storm drains of debris and will deploy extra maintenance crews to address storm-related issues. There are also opportunities available for volunteers to assist during the rainy season (see below).

During the winter months, the Public Works Agency extends its service hours to make sandbags and plastic sheeting available to residents and businesses to help them protect their properties from storm-related damage.

Sandbags and plastic sheeting can be picked up from listed fire stations Monday through Friday from 8:00 a.m. – 9:00 p.m. and Saturday and Sunday from 8:00 a.m. – 4:30 p.m.; and Public Works locations Monday through Friday only from 8:00 – 4:30pm at the following addresses:

Public Works Locations (Monday through Friday 8:30am-4:30pm)

MUNICIPAL SERVICE CENTER	7101 EDGEWATER DR.
MAINTENANCE SATELLITE OFFICE	5921 SHEPHERD CANYON RD.

Fire Station Locations (Monday through Friday 8:00am –9:00pm; Saturday and Sunday from 8:00am-4:30pm)

STATION 3	1445 – 14 TH STREET
STATION 6	7080 COLTON BLVD.
STATION 7	1006 AMITO AVENUE
STATION 8	463 – 51 ST STREET
STATION 10	172 SANTA CLARA AVENUE

STATION 12	822 ALICE STREET
STATION 16	3608 – 13 TH AVENUE
STATION 17	3344 HIGH STREET
STATION 20	1408 – 98 TH AVENUE
STATION 21	13150 SKYLINE BLVD.
STATION 24	5900 SHEPHARD CANYON ROAD
STATION 25	2795 BUTTERS DRIVE
STATION 26	2611 – 98 TH AVE.
STATION 28	4615 GRASS VALLEY RD.
STATION 29	1016 66 TH AVENUE

In an emergency or to report storm damage, Oakland residents should call the Public Works Agency's 24-hour winter hotline at (510) 615-5566.

VOLUNTEER OPPORTUNITIES

The Public Works Agency is also renewing its call for volunteers to join its **Maintain-a-Drain Campaign**. Residents and merchants in Oakland can help prevent flooding by keeping a storm drain in their neighborhood free of debris. In exchange, the City will give volunteers a free set of rain gear, a rake and debris bags. By keeping storm drains clean, volunteers can help the City's maintenance crews focus storm-response activities on the most critical storm-related problems. To volunteer, please call the **Maintain-a-Drain Campaign** at (510) 434-5139.

How Residents Can Help

- Check and clean private drainage systems.
- Do not place leaves, debris or lawn clippings near storm drains.
- Place leaves in plastic bags and set them at the curb for recycling.
- Keep natural waterways such as creeks and ditches free from obstructions.
- Report flooding problems to the Maintenance Services Department.
- Maintain-a-Drain in your neighborhood or commercial district.

#

10.15CC
ORA/COUNCIL
MAR 16 2004

CITY OF OAKLAND OFFICE OF THE CITY CLERK
AGENDA REPORT

2004 FEB 11 PM 1:20

TO: Office of the City Manager
ATTN: Deborah Edgerly
FROM: Public Works Agency
DATE: February 24, 2004

RE: **INFORMATIONAL REPORT ON THE DECEMBER 29, 2003 STORM EVENT**

SUMMARY

This is an informational report on the impact of the storms of late December 2003 and Oakland's response. This report summarizes staff's investigation of the flooding that occurred after those storm events in the Lakeshore/Grand Avenue area, and reports on other storm-related problems within Oakland.

FISCAL IMPACT

Since this report is informational only, no fiscal impacts are included.

BACKGROUND

Portions of the Grand Avenue/Lakeshore area experienced flooding on December 29, 2003. This flooding impacted businesses and caused major disruptions in the area. The storm event that preceded the flooding introduced one inch of rain in one hour from 3-4 p.m. on December 29, 2003, after about 1.15 inches during the previous 16 hours. Statistically, it represented a storm event that only occurs once every 15 years. According to the area merchants, the water level peaked at around 4:00 p.m. rising to over 1 foot above the street. The water receded within 45 minutes of its peak.

Lakeshore Avenue is at the confluence of two major storm systems—one system along Lakeshore Avenue extending towards Piedmont, and another along Trestle Glen Road (Trestle Glen Creek System). Both these systems are owned and maintained by the Alameda County Flood Control District (District). Similarly, two major storm lines serve the Grand Avenue area--both extending to the Piedmont City border. These systems are owned and maintained by Oakland.

Built around the turn of the 20th century, these systems lack sufficient capacity to meet the current demand. Their design capacities are at about 50% of the current demand, which has increased over time due to further development and build-out of the watershed area. The December 29, 2003 storm represented approximately the current demand for this area. In addition, using a hydraulic modeling tool, staff has concluded that the flooding was exacerbated by three other factors: 1) accumulation of sediment within the culvert system, which further reduced the flow capacity of the system; 2) over-saturation of the soil in the watershed area, which allowed more runoff; and 3) lack of drainage network in the upper watershed area, which otherwise would have provided some storage capacity and attenuation of the runoff. Staff has confirmed that the water level in Lake Merritt was not a factor.

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Storm maintenance crews continuously clean and maintain inlets in the area, especially prior to the rainy season throughout the period from September to November of each year. The City has also a vigorous nightly street sweeping program for the Grand Avenue and Lakeshore Avenue business area. In the surrounding area, street sweeping is performed monthly without any parking restrictions.

After the 1997 flooding of the Grand Avenue/Lakeshore area, staff requested the District to study these major storm systems in the area and implement a solution to the flooding problem. As a result, the District will begin a major project to construct an additional culvert along Lakeshore Avenue this spring. A similar project is slated for the Grand Avenue area within the next several years. These additional culverts will be designed to provide protection against similar flooding in the future.

There were approximately 31 other locations within Oakland that also experienced flooding or other storm-related problems during this storm such as mudslide, erosion, etc. The cause of flooding in other areas was mostly due to concurrence of high tide levels affecting the water levels of the adjoining watercourses. Lack of proper storm drain infrastructure or aging and out-dated infrastructure also contributed to storm-related problems throughout Oakland. The following is a list of some of the locations:

- 65th and 64th Avenues and International Blvd.
- East 8th Street and 53rd Avenue (Affected by High Tide)
- Railroad Avenue & 85th Avenue (Affected by High Tide)
- 38th Avenue and East 12th Street
- 32nd Street and Mandela Parkway
- 96th Avenue and Holly Street
- 105th Avenue and International Blvd.
- 5th Avenue and Embarcadero – Jack London Square (Affected by High Tide)

The Maintenance Division provides sandbags and plastic sheeting to Oakland residents during the winter months to help protect their property from flooding and erosion. These items are available and can be picked up at various Fire Stations and at the Municipal Service Centers as shown on Attachment A.

Storm Drain Master Plan

The City is in the final stages of completing its comprehensive Storm Drain Master Plan study. Staff will present an informational report to the City Council in April 2004 summarizing the results and the study's recommendations for improvements. The Master Plan will assess the existing conditions of Oakland's storm drain infrastructure and recommend the needed maintenance practices and capital improvements to ensure that the infrastructure meets its current and future needs. A full implementation of the Master Plan will require a dedicated funding source.

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Public Works Committee
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RECOMMENDATION AND RATIONALE

Staff recommends acceptance of this informational report.

ACTION REQUESTED OF THE CITY COUNCIL

This is an informational report; no action is requested.

Respectfully submitted,



RAUL GODINEZ II, P.E.
Director, Public Works Agency

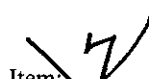
Prepared by:
Michael Neary
Engineering Division Manager

APPROVED AND FORWARDED TO THE
PUBLIC WORKS COMMITTEE:



OFFICE OF THE CITY MANAGER

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