2SSO10168	Active	721866	Marilyn Harang	Certified
2SSO10168	Active	724327	L Barwacz	Certified
2SSO10168	Active	727124	Larry Barwacz	Certified
2SSO10168	Active	727686	Larry Barwacz	Certified
2SSO10168	Active	728867	Marilyn Harang	Certified
2SSO10168	Active	730056	Marilyn Harang	Certified
2SSO10168	Active	730474	Larry Barwacz	Certified
2SSO10168	Active	731108	Larry Barwacz	Certified
2SSO10168	Active	736179	Ray Bartolo	Certified
2SSO10168	Active	736620	Ray Bartolo	Certified
2SSO10168	Active	737741	Ray Bartolo / Marilyn Harang	Certified
2SSO10168	Active	737783	Ray Bartolo	Certified
2SSO10168	Active	738529	Ray Bartolo	Certified
2SSO10168	Active	740208	Ray Bartolo	Certified
2SSO10168	Active	741329	Marilyn Harang	Certified
2SSO10168	Active	742442	Ray Bartolo	Certified
2SSO10168	Active	742562	Ray Bartolo	Certified
2SSO10168	Active	742657	Ray Bartolo	Certified
2SSO10168	Active	743076	Ray Bartolo	Certified
2SSO10168	Active	743351	Ray Bartolo	Certified
2SSO10168	Active	745208	Ray Bartolo	Certified
2SSO10168	Active	745678	Ray Bartolo	Certified
2SSO10168	Active	747622	Ray Bartolo	Certified
2SSO10168	Active	748676	Ray Bartolo	Certified
2SSO10168	Active	749916	Ray Bartolo	Certified
2SSO10168	Active	749971	Ray Bartolo	Certified
2SSO10168	Active	750979	Ray Bartolo	Certified
2SSO10168	Active	751015	Ray Bartolo	Certified
2SSO10168	Active	754094	Ray Bartolo	Certified
2SSO10168	Active	755446	Marilyn Harang	Certified
2SSO10168	Active	755448	Ray Bartolo	Certified
2SSO10168	Active	755802	Ray Bartolo	Certified
2SSO10168	Active	755873	Ray Bartolo	Certified
2SSO10168	Active	756498	Marilyn Harang	Certified
2SSO10168	Active	757489	Ray Bartolo	Certified
2SSO10168	Active	758931	Ray Bartolo	Certified
2SSO10168	Active	759100	Marilyn Harang	Certified
2SSO10168	Active	760187	Ray Bartolo	Certified
2SSO10168	Active	762094	Ray Bartolo	Certified
2SSO10168	Active	763689	Ray Bartolo	Certified
2SSO10168	Active	764018	Ray Bartolo	Certified
2SSO10168	Active	764166	Ray Bartolo	Certified
2SSO10168	Active	764833	Marilyn Harang	Certified
2SSO10168	Active	765326	Marilyn Harang	Certified
2SSO10168	Active	765556	Ray Bartolo	Certified
2SSO10168	Active	766249	Ray Bartolo	Certified
2SSO10168	Active	766636	Ray Bartolo	Certified
2SSO10168	Active	767201	Ray Bartolo	Certified
2SSO10168	Active	767459	Ray Bartolo	Certified
2SSO10168	Active	767754	Ray Bartolo	Certified
2SSO10168	Active	767985	Ray Bartolo	Certified
2SSO10168	Active	768131	Ray Bartolo	Certified
2SSO10168	Active	772302	Ray Bartolo	Certified
2SSO10168	Active	772434	Ray Bartolo	Certified
2SSO10168	Active	772567	Ray Bartolo	Certified

Superintendent
Public Works Services Director
Director
Director
Superintendent
Superintendent
Director
Director
Public Works Supervisor
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Supervisor/Superintendent
Supervisor
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	1318	646883
Redwood City, City of		198332
Redwood City		124789
Redwood city		676516
	1327	997237
	1030	589319
Redwood City		497712
Redwood City		698000
Redwood City		141966
Redwood City		800212
Redwood City		163149
Redwood City		437934
Redwood City		947816
Redwood City		546665
	1621	891486
Redwood City		729330
Redwood City		720512
Redwood City		504699
Redwood City		999428
Redwood City		159548
Redwood City		564437
Redwood City		147566
Redwood City		458903
Redwood City		230905
Redwood City		506749
Redwood City		262530
Redwood City		508725
Redwood City		291779
Redwood City		727950
	1500	938176
Residence / So. San Fran		194376
Redwood City		621218
Redwood City		709920
	856	262415
Redwood City		910503
So. San Francisco, CA		442903
	1621	628282
Redwood City		898933
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Redwood City		275061
Redwood City		837054
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Redwood City		335823
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Redwood City		496341
Redwood City		624123
Redwood City		837895
Redwood City		102151
Redwood City		890036

9-Jul-08		9-Jul-08	12/2/2010
6-Aug-08		12-Aug-08	8/12/2008
30-Sep-08		30-Sep-08	9/30/2008
9-Oct-08		9-Oct-08	10/9/2008
3-Nov-08		3-Nov-08	12/2/2010
2-Dec-08		2-Dec-08	12/10/2010
12-Dec-08		15-Dec-08	12/15/2008
27-Dec-08		27-Dec-08	12/27/2008
10-Apr-09		10-Apr-09	4/10/2009
22-Apr-09		22-Apr-09	4/22/2009
21-May-09		22-May-09	5/22/2009
21-May-09		22-May-09	5/22/2009
4-Jun-09		5-Jun-09	6/5/2009
29-Jun-09		29-Jun-09	6/29/2009
16-Jul-09		23-Jul-09	12/2/2010
4-Aug-09		4-Aug-09	8/4/2009
6-Aug-09		6-Aug-09	8/6/2009
7-Aug-09		7-Aug-09	8/7/2009
14-Aug-09		14-Aug-09	8/14/2009
19-Aug-09		19-Aug-09	8/19/2009
30-Sep-09		30-Sep-09	9/30/2009
16-Oct-09		16-Oct-09	10/16/2009
17-Dec-09		18-Dec-09	12/18/2009
22-Jan-10		22-Jan-10	1/22/2010
27-Feb-10		27-Feb-10	3/2/2010
2-Mar-10		2-Mar-10	3/2/2010
25-Mar-10		25-Mar-10	3/25/2010
26-Mar-10		26-Mar-10	3/26/2010
29-Jun-10	6/29/2010	29-Jun-10	6/29/2010
23-Jul-10	7/23/2010	23-Jul-10	1/26/2011
25-Jul-10	7/25/2010	25-Jul-10	7/25/2010
5-Aug-10	8/6/2010	6-Aug-10	8/6/2010
9-Aug-10	8/9/2010	9-Aug-10	8/9/2010
30-Aug-10	8/30/2010	22-Sep-10	12/16/2010
11-Oct-10	10/11/2010	11-Oct-10	10/11/2010
29-Nov-10	11/29/2010	29-Nov-10	11/29/2010
3-Dec-10	12/3/2010	3-Dec-10	12/3/2010
4-Jan-11	1/5/2011	5-Jan-11	1/5/2011
28-Jan-11	1/28/2011	28-Jan-11	2/3/2011
25-Feb-11	2/25/2011	25-Feb-11	2/25/2011
4-Mar-11	3/4/2011	4-Mar-11	3/4/2011
8-Mar-11	3/8/2011	8-Mar-11	3/8/2011
25-Mar-11	3/25/2011	6-Apr-11	4/6/2011
11-Apr-11	4/11/2011	11-Apr-11	4/11/2011
15-Apr-11	4/15/2011	15-Apr-11	4/15/2011
9-May-11	5/9/2011	9-May-11	5/9/2011
18-May-11	5/18/2011	18-May-11	5/18/2011
7-Jun-11	6/7/2011	7-Jun-11	6/7/2011
14-Jun-11	6/14/2011	14-Jun-11	6/14/2011
22-Jun-11	6/22/2011	22-Jun-11	6/22/2011
29-Jun-11	6/29/2011	29-Jun-11	6/29/2011
5-Jul-11	7/5/2011	5-Jul-11	7/5/2011
24-Oct-11	10/24/2011	24-Oct-11	10/24/2011
27-Oct-11	10/27/2011	27-Oct-11	10/27/2011
31-Oct-11	10/31/2011	31-Oct-11	10/31/2011

Category 3	200	200
Category 3	100	100
Category 1	850	0
Category 3	54	54
Category 3	220	200
Category 1	703	500
Category 3	95	95
Category 3	170	100
Category 3	110	0
Category 1	6000	0
Category 1	180	30
Category 3	150	150
Category 3	825	825
Category 3	840	840
Category 1	200	0
Category 3	54	54
Category 2	1500	1500
Category 3	50	50
Category 3	800	0
Category 3	200	200
Category 3	225	225
Category 3	35	35
Category 3	10	10
Category 3	68	68
Category 3	255	125
Category 3	25	25
Category 1	1025	0
Category 1	25000	10000
Category 3	495	495
Category 1	2196	0
Category 3	400	400
Category 3	100	100
Category 3	250	250
Category 1	94907	37800
Category 3	108	54
Category 3	35	35
Category 3	40	40
Category 3	80	80
Category 3	50	40
Category 3	3	3
Category 3	20	20
Category 3	2	2
Category 3	600	0
Category 3	20	20
Category 3	187	187
Category 3	50	50
Category 3	100	100
Category 3	60	60
Category 3	30	30
Category 3	25	0
Category 3	5	5
Category 3	20	20
Category 3	90	90
Category 3	30	30
Category 3	5	0

0	No	No
0	No	Yes
850	Yes	Yes
0	No	No
0	No	No
203	Yes	Yes
0	No	No
0	No	No
0	No	No
6000	Yes	Yes
150	Yes	Yes
0	No	Yes
0	No	Yes
0	No	Yes
200	Yes	Yes
0	No	No
0	No	Yes
0	No	No
0	No	No
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0	No	No
0	No	No
0	No	No
1025	Yes	Yes
15000	Yes	Yes
0	No	No
2196	No	Yes
0	No	No
0	No	No
0	No	No
57107	Yes	Yes
0	No	No
0	No	No
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0	No	Yes
0	No	No
0	No	No
0	No	No
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe

1197 Davis st / 490 Oak av
in street at Redwood Shores Parkway approx. 300ft east of Shell Parkway
3623 Jefferson Ave.
3670 Altamont
350 Twin Dolphin
1055 Alameda de las Pulgas
524 Katherine
1245 Woodside Rd.
412 Myrtle St.
2458 Goodwin Ave.
844 Portwalk Place
1040 Silver Hill
26 Poplar
1260 Woodside Rd.
At 1121 Vera Ave near the deadend of Myrtle St
820 Fulton
72 Nevada
36 Arch
711 Hamilton
1324 James
2439 Hopkins
2510 El Camino Real
351 West Oakwood
2919 Hopkins Ave.
508 El Camino Rl
530 El Camino Rl
Behind 3962 Lonesome Pine (on Farmhill Blvd)
3692 Brandy Rock
1021 Hilton St.
831 Shepard Way
3659 Country Club
986 Woodside Rd.
909 Nob Hill Rd.
747 Davit Lane (Lift Station 10 location)
90 Alameda
718 Canyon
100 Marine Parkway, across from Oracle building
1517 Sierra St.
475 Seaport
1501 Tacoma
3716 Bret Harte
700 Bay Rd.
1807 Redwood Ave
836 Arlington Rd
628 Madison Ave.
1131 Lyons
3141 Oak Knoll
1523 Ebener
3514 Altamont
860 Seminole
422 Redwood
529 Harrison
22 Arch
404 South Place
2253 Roosevelt

37.47421	-122.22808	San Mateo
37.540056	122.234764	San Mateo
37.464444	122.250833	San Mateo
37.466806	122.253889	San Mateo
37.52006	-122.25756	San Mateo
37.463056	-122.245	San Mateo
37.482222	122.238611	San Mateo
37.458333	122.226667	San Mateo
37.476389	-122.242222	San Mateo
37.461111	-122.238889	San Mateo
37.538176	-122.250836	San Mateo
37.452222	-122.2525	San Mateo
37.475556	-122.222778	San Mateo
37.458333	-122.226944	San Mateo
37.473458	-122.236136	San Mateo
37.476667	-122.233056	San Mateo
37.480278	-122.249722	San Mateo
37.488889	-122.240278	San Mateo
37.487147	-122.213242	San Mateo
37.476667	-122.237222	San Mateo
37.479444	-122.249444	San Mateo
37.473333	-122.218056	San Mateo
37.468694	-122.218306	San Mateo
37.477548	-122.253455	San Mateo
37.489722	-122.239722	San Mateo
37.489722	-122.239167	San Mateo
37.45275	-122.258333	San Mateo
37.458611	-122.247639	San Mateo
37.482778	-122.21725	San Mateo
37.461942	-122.25914	San Mateo
37.459722	-122.249722	San Mateo
37.463056	-122.225278	San Mateo
37.461944	-122.251389	San Mateo
37.53385	-122.24582	San Mateo
37.482778	-122.255556	San Mateo
37.469444	-122.255833	San Mateo
37.52769	-122.26248	San Mateo
37.46536	-122.230556	San Mateo
37.502583	-122.210556	San Mateo
37.49509	-122.236819	San Mateo
37.459722	-122.253889	San Mateo
37.485125	-122.218277	San Mateo
37.46563	-122.23609	San Mateo
37.48481	-122.24918	San Mateo
37.47753	-122.2345	San Mateo
37.471389	-122.233944	San Mateo
37.472778	-122.258056	San Mateo
37.470833	-122.224722	San Mateo
37.466944	-122.251111	San Mateo
37.462778	-122.259444	San Mateo
37.473611	-122.226944	San Mateo
37.479722	-122.235222	San Mateo
37.489167	-122.240278	San Mateo
37.473611	-122.242222	San Mateo
37.464167	-122.240833	San Mateo

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Spill at residential apartment building
Spill caused by leaking Air Release Valve in Redwood Shores Parkway approx. 100 yds East of Shell Parkway
Manhole in front of 3623 Jefferson Ave.
SSO was discharging out of sewer lamphole
SSO at sewer manhole in intersection
Intersection of Alameda De Las Pulgas & Chesterton
Just before intersection of Katherine & Elwood
Near intersection of Rutherford & Woodside Rd.
SSO at manhole located in easement (rear residential yard) location - area where SSO took place in a soil/dirt area - resi
SSO took at sewer manhole located in residential area of Goodwin Ave.
On Shell Parkway near 844 Portwalk Place
At sewer manhole in residential street - retained in downstream storm catch basins
At end of Poplar Ave right where the road approaches an on ramp to Woodside Rd.
SSO manhole located on heavily traffic roadway adjacent to roadway median - in fast lane of two lane north westerly dire
At Vera Ave near deadend of Myrtle St, specifically the crossing of Jefferson Branch of Redwood Creek (concrete lined tr
sewer manhole in front of 820 Fulton (manhole in sidewalk)
SSO out of a 15 sanitary sewer trunkline located in residential neighborhood
SSO at property line sewer cleanout - wastewater settled at swail area at curb and gutter
Storage basement of building
overflowed outside of sewer cleanout next to curb - flowed onto curb and gutter
SSO took place in street within residential neighborhood
Location of spill is inside of small candle shop (inside of and just outside of small restroom).
Basement concrete floor in residence - spill was fully contained.
Residential bathroom
In building SSO related to main line blockage
Spill occured at property line sewer cleanout of commercial building
SSO at sewer manhole in roadway
SSO took place at manhole in residential neighborhood
In residential neighborhood
Overflow from manhole in the street on Shepard Way, residential street. Resident called Dept voicemail only & left mess
at manhole in front of 3659 Country Club
SSO took place at cleanout of Jack In the Box restaurant - located at curb and gutter
SSO location was in rear yard of residence and in an easement area - area affected is unmaintained dirt area of large ba
At sewer lift station #10 adjacent to Redwood Shores Lagoon and the Lighthouse Cove Condo complex.
Overflow took place on dirt landscaped area of front yard at cleanout
Spill occured inside of residence (bathroom, hallway and closet)
In 8 force main approx. 372' from the intersection of Twin Dolphin Pkwy/Marine Pkwy, located in an easement, 12' bene
At sewer manhole in intersection of Sierra & Carlton located in residentila neighborhood
On roadway inside of ARV manhole and into roadway and curb and gutter
Office restrooms
At sewer manhole in residential neighborhood
Manhole
Occurred during rain on 3/24/11, spill slow flow from several property line cleanouts along street, flowed to low spot at 18
Property line cleanout in the lawn area
Inside rental residence home
Spill took place at property line sewer cleanout, in the resident's driveway and AT curb and gutter area in front of residen
Spill location was in residential basement.
Spill was located in front yard and curb and gutter
At street manhole in residential area.
In residential backyard, on sloped hillside.
Spill took place at property line sewer cleanout, in parking lot
At cleanout located between residential buidings, in front yard patio.
Location of spill took place in complex driveway and curb and gutter
At cleanout, in curb and gutter
Underneath residential backyard storage shed.

dent stated to Public Works Supervisor t

ction road
apezoid open storm channel)

age spill (did not follow prompts to emer

ckyard.

ith an asphalt walkway, with vegetative l

07 Redwood Ave. Main line was surchar

ce.

Other (specify)
Force main or pressure sewer
Manhole
Other (specify)
Manhole
Other (specify)
Manhole
Manhole
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Manhole
Other (specify)
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Manhole
Other (specify)
Building or structure
Gravity sewer;Other (specify)
Manhole
Building or structure
Other (specify)
Building or structure
Building or structure
Other (specify)
Manhole
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Manhole
Other (specify)
Manhole
Force main or pressure sewer;Pump station
Other (specify)
Building or structure
Force main or pressure sewer
Gravity sewer;Manhole
Other sewer system structure;Other (specify)
Building or structure
Manhole
Manhole
Other sewer system structure
Gravity sewer
Building or structure
Other (specify)
Building or structure;Other (specify)
Gravity sewer;Other (specify)
Manhole
Gravity sewer;Other (specify)
Other (specify)
Gravity sewer;Other (specify)
Gravity sewer
Other (specify)
Gravity sewer;Other (specify)

cleanout

Sewer lamphole

Storm drain inlet was observed as leaking into catch basin siphon on the street, on evening caller noticed it (11/30/08)

Exiting manhole on Shell Parkway

concrete-lined storm drain channel

at property line sewer cleanout (near sidewalk)
floor drain in basement
at sewer cleanout

Storage basement floor drain
Overflow originated at shower drain inside of bathroom inside of home
building that experienced overflow is a laundromat
sewer cleanout

Manhole in street

cleanout at property line

Sewer cleanout

Air Release Valve

spill surfaced from several property line cleanouts along residential street section
at the property line cleanout

At property line sewer cleanout in residential driveway
Overlow took place in residential basement restroom.
Property line sewer cleanout

At cleanout located in backyard.
At propert line sewer cleanout
At cleanout, between building on Harrison & Jefferson.

cleanout
Spill occured at 4 cleanout that is underneath homeowner's storage shed.

Street/curb and gutter
Other (specify below)
Surface water
Street/curb and gutter
Street/curb and gutter
Separate storm drain
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Surface water
Surface water
Storm drain;Street/curb and gutter
Unpaved surface;Other (specify below)
Storm drain;Street/curb and gutter
Surface water;Other (specify below)
Street/curb and gutter
Storm drain
Street/curb and gutter
Building or structure
Other paved surface;Street/curb and gutter
Street/curb and gutter
Building or structure
Building or structure
Other (specify below)
Building or structure;Other (specify below)
Street/curb and gutter;Other (specify below)
Surface water
Surface water
Street/curb and gutter;Unpaved surface
Other (specify below)
Storm drain;Other (specify below)
Other paved surface;Street/curb and gutter
Unpaved surface;Other (specify below)
Building or structure;Other paved surface;Surface water;Unpaved surface
Street/curb and gutter;Other (specify below)
Building or structure
Other paved surface
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Other (specify below)
Building or structure;Other (specify below)
Separate storm drain
Separate storm drain
Building or structure;Other paved surface;Unpaved surface
Street/curb and gutter;Unpaved surface
Building or structure
Street/curb and gutter;Other (specify below)
Building or structure;Other (specify below)
Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter;Other (specify below)
Unpaved surface;Other (specify below)
Other paved surface
Unpaved surface;Other (specify below)
Street/curb and gutter;Other (specify below)
Street/curb and gutter
Unpaved surface;Other (specify below)

Contained in curb and gutter
Fully recaptured and returned to the sanitary sewer system

Based on inspection of concrete lined creek access at Roosevelt & Ruby in addition to several downstream storm drain m

Redwood Shores Lagoon
Wastewater was retained in two downstream catch basins - three catch basins were inspected while two indicated that the
Some of the spill destination was in a heavily vegitated drain dirt ditch located between a storm drain discharge and intak

concrete-lined storm channel (Jefferson Branch, Redwood Creek)
Water flowed down curb and gutter and settled at corner of Fulton & Vera
Wastewater from SSO entered storm system at Hopkins & Myrtle St - wastewater entered storm system but never made i
Wastewater settled at cleanout area and curb and gutter in street
affected area were several rooms located in building basement

Overflowed and flowed toward Opal Ave (no inlets affected)
All wastewater was absorbed by small area of carpet just outside restroom

Area affected by overflow was inside of lower level family room and bathroom
at another manhole location in a private parking lot, there was some signs of grease that may have overflowed. Area was
overflow was immediately contained at the curb and gutter utilizing sandbags - wastewater was vacumed up and washed

Storm pipe flows to Jefferson Branch of Redwood Creek, distance branch more than 1000 ft, which is a covered concrete
SSO was captured in adjacent storm drain siphon
Wastewater ran down and puddled up on Kentfield Ave, upstream from storm inlet located far down street
Area affected is an area of a large yard - SSO did not affect any water way or creek and did saturate dirt/soil area around
Note: Of the 37,800 gallons shown as recovered, 2,000 gallons was not recovered but did not reach surface waters. It eva
Other area is residents front yard in landscaped dirt area

Closest drop inlet was vacumed - fortunately, this inlet is deep and was capable of storing wastewater - some water was s
Also contained inside ARV manhole
contained in two office restrooms

spill flowed to residential garage (bldg), driveway, landscaping and lawn areas

Spill was located at private driveway and curb and gutter in front of residence.
Wastewater destination was located in carpeted hallway and residential restroom tile floor.

Small amount may have flowed into downstream inlet. As a precaution, water was vactored out of inlet and returned bac
Spill flowed onto dirt and vegitated hillside andeventually puddled in a depression located in residential backyard.

Spill took place in patio area of fenced in front yard, onto synthetic turf area around cleanout
Location of remaining spill was on apartment complex driveway too.

Spill soaked into residential backyard area and underneath sotrage shed

7/8/2008 7:28	7/8/2008 7:29	7/8/2008 8:15	7/8/2008 10:00
8/6/2008 11:15	8/6/2008 11:15	8/6/2008 11:15	8/6/2008 11:30
9/30/2008 7:58	9/30/2008 7:58	9/30/2008 8:10	9/30/2008 8:15
10/9/2008 12:08	10/9/2008 12:08	10/9/2008 12:30	10/9/2008 12:35
11/3/2008 11:33	11/3/2008 11:33	11/3/2008 11:45	11/3/2008 11:55
11/30/2008 17:00	11/30/2008 17:00	12/1/2008 9:08	12/1/2008 9:30
12/12/2008 8:13	12/12/2008 8:13	12/12/2008 8:20	12/12/2008 8:32
12/25/2008 15:26	12/25/2008 15:26	12/25/2008 15:36	12/25/2008 16:00
4/8/2009 7:30	4/9/2009 9:50	4/8/2009 9:00	4/8/2009 9:20
4/20/2009 8:45	4/20/2009 8:45	4/20/2009 8:50	4/20/2009 9:15
5/21/2009 9:10	5/21/2009 9:10	5/21/2009 9:20	5/21/2009 9:28
5/20/2009 10:15	5/20/2009 10:15	5/20/2009 10:40	5/20/2009 0:00
6/3/2009 8:55	6/3/2009 8:55	6/3/2009 9:00	6/3/2009 9:50
6/27/2009 11:30	6/27/2009 11:30	6/27/2009 11:40	6/27/2009 13:30
7/15/2009 8:45	7/15/2009 8:50	7/15/2009 9:00	7/15/2009 9:10
8/4/2009 3:47	8/4/2009 3:47	8/4/2009 4:07	8/4/2009 4:05
8/4/2009 9:15	8/4/2009 9:15	8/4/2009 9:25	8/4/2009 9:30
8/5/2009 14:14	8/5/2009 14:14	8/5/2009 14:39	8/5/2009 14:14
8/12/2009 12:00	8/12/2009 12:00	8/12/2009 12:30	8/12/2009 13:30
8/18/2009 9:10	8/18/2009 9:10	8/18/2009 9:40	8/18/2009 9:45
9/29/2009 8:10	9/29/2009 8:10	9/29/2009 8:15	9/29/2009 8:19
10/16/2009 10:40	10/16/2009 10:45	10/16/2009 10:50	10/16/2009 13:30
12/16/2009 22:24	12/17/2009 12:13	12/17/2009 12:30	12/16/2009 23:11
1/20/2010 9:16	1/20/2010 9:16	1/20/2010 9:45	1/20/2010 9:50
2/26/2010 18:30	2/26/2010 18:45	2/26/2010 19:00	2/26/2010 19:55
3/1/2010 12:39	3/1/2010 12:39	3/1/2010 12:46	3/1/2010 12:59
3/24/2010 10:19	3/24/2010 10:19	3/24/2010 10:25	3/24/2010 11:00
3/24/2010 12:30	3/24/2010 12:30	3/24/2010 13:00	3/24/2010 16:40
6/28/2010 9:58	6/28/2010 9:58	6/28/2010 10:05	6/28/2010 10:31
7/22/2010 19:50	7/23/2010 7:04	7/23/2010 7:15	7/23/2010 7:30
7/24/2010 13:15	7/24/2010 13:45	7/24/2010 14:00	7/24/2010 15:30
8/5/2010 8:23	8/5/2010 8:58	8/5/2010 9:15	8/5/2010 9:30
8/6/2010 12:40	8/6/2010 12:40	8/6/2010 12:55	8/6/2010 13:40
8/25/2010 0:00	8/25/2010 14:50	8/25/2010 14:59	8/26/2010 20:00
10/8/2010 12:53	10/8/2010 12:53	10/8/2010 13:20	10/8/2010 13:29
11/26/2010 11:40	11/26/2010 11:40	11/26/2010 11:50	11/26/2010 12:50
12/2/2010 13:45	12/2/2010 13:45	12/2/2010 13:45	12/2/2010 14:00
1/4/2011 8:44	1/4/2011 8:44	1/4/2011 8:50	1/4/2011 9:00
1/26/2011 13:30	1/26/2011 13:30	1/26/2011 13:45	1/26/2011 14:15
2/22/2011 13:05	2/22/2011 10:58	2/22/2011 12:00	2/22/2011 13:07
3/2/2011 11:37	3/2/2011 11:37	3/2/2011 11:40	3/2/2011 11:40
3/7/2011 16:19	3/7/2011 16:19	3/7/2011 16:29	3/7/2011 17:37
3/24/2011 14:10	3/24/2011 14:11	3/24/2011 14:20	3/24/2011 16:15
4/8/2011 13:48	4/8/2011 14:32	4/8/2011 14:42	4/8/2011 15:00
3/29/2011 13:35	3/29/2011 13:35	3/29/2011 13:45	3/29/2011 13:50
5/7/2011 13:46	5/7/2011 13:46	5/7/2011 14:40	5/7/2011 15:00
5/16/2011 18:59	5/16/2011 18:59	5/16/2011 19:15	5/16/2011 19:45
6/6/2011 12:36	6/6/2011 12:36	6/6/2011 12:45	6/6/2011 12:55
6/13/2011 12:35	6/13/2011 12:35	6/13/2011 12:45	6/13/2011 12:50
6/20/2011 11:40	6/20/2011 11:40	6/20/2011 13:30	6/20/2011 15:15
6/27/2011 11:15	6/27/2011 11:15	6/27/2011 11:25	6/27/2011 11:27
7/2/2011 13:20	7/2/2011 13:20	7/2/2011 13:30	7/2/2011 14:00
10/23/2011 11:19	10/23/2011 11:19	10/23/2011 13:30	10/23/2011 13:45
10/24/2011 8:23	10/24/2011 8:23	10/24/2011 8:30	10/24/2011 8:40
10/28/2011 11:38	10/28/2011 11:38	10/28/2011 12:16	10/28/2011 14:15

Root intrusion
Other (specify below)
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Vandalism
Vandalism
Other (specify below)
Root intrusion
Debri-Rags
Grease deposition (FOG)
Vandalism
Grease deposition (FOG)
Debri-General
Root intrusion
Other (specify below)
Pipe structural problem/failure
Grease deposition (FOG)
Pipe structural problem/failure
Root intrusion
Other (specify below)
Grease deposition (FOG)
Root intrusion
Debri-Rags
Debri-Rags
Other (specify below)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Root intrusion
Pipe structural problem/failure
Vandalism
Root intrusion
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Other (specify below)
Root intrusion
Debri-Rags
Other (specify below)
Root intrusion
Debri-Rags
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Root intrusion
Grease deposition (FOG)
Other (specify below)
Root intrusion
Root intrusion
Root intrusion

Lower lateral had excessive roots and paper
Leaking Air Release Valve (ARV)
Blockage believed to be caused by previous day's root cutting at upstream location - root cuttings were found in manhole

Sewer manhole did not overflowed at time of blockage - it is appears that the sewer overflow ex-filtrated into nearby storr

Combination of rags & tree roots

rags also identified as source of blockage

long small diameter root mass from a 6 sewer line caused the blockage - we suspect this root mass came from an upstre
lateral had root intrusion and paper which caused lateral to experience blockage
Excessive amount of paper in main (as stated in operator report)

Some grease deposits identified in main

Sewer mains were surcharged in street but running - possible upper private sewer line issues combined with lower level f
heavy industrial rags were also identified

Crew noticed a large bundle of rags flowing down the main once the blockage was cleared - crews tried to capture debris
The main lines will be televised on 3/29/10 to further evaluate possible other causes of blockage
Diapers were found in the sewer main line. Also, some grease as well was identified.

The investigation into the cause of the pipe failure and spill is final. The findings are pipe failure/fatigue resulting from fre
Identified was a large amount of industrial rags in the gravity main line

Pipe did not break or rupture, rather a disconnection of pipe from coupling appears to be caused by earth movement or v
identified was a pair of men's underwear
Damaged Air Release Valve - THIS AIR RELEASE VALVE HAS BEEN REPAIRED ON 1/31/11
This was a self induced backup caused by the use of a pressure bag when city maintenance crews attempted to clear m

During heavy rains, bricks fell from manhole structure causing obstruction in mainline
Root intrusion from private tree

This blockage was related to grease & debris (hand wipes).
Also had grease deposition and debris (general)
Grease and debris in lateral as well.

Lower Lateral
Other (specify below)
Main
Main
Main
Other (specify below)
Main
Main
Main
Main
Main
Main
Main
Main
Other (specify below)
Main
Main
Lower Lateral
Main
Main
Main
Lower Lateral
Lower Lateral
Other (specify below)
Main
Lower Lateral
Main
Main
Main
Main
Main
Lower Lateral
Main
Main
Main
Main
Main
Main
Other (specify below)
Other (specify below)
Main
Main
Main
Lower Lateral
Main
Lower Lateral
Lower Lateral
Lower Lateral
Main
Lower Lateral
Other (specify below)
Other (specify below)
Lower Lateral
Lower Lateral
Lower Lateral

Air Release Valve

The blockage occurred in 6 sewer main line and appeared to be roots and debris. Mainline was cleared immediately by r

Siphon

City mains were surcharged at time of rain but flowing - sewer lateral will be televised on 1/22/10 to further determine con

In force main, investigation will continue to look at other utilities in area because of several years of roadway reconstructi

Air Release Valve
Lower lateral/main line that exclusively services two small restrooms in building.

Sewer siphon
This lateral cleanout is located between buildings on Harrison Ave & Jefferson Ave (residence of 1526 Jefferson) and far

	4	vcp
	2	Brass
	8	vcp
	6	vcp
	10	vcp
odding to remove roots. Sto	6	vcp
	6	pvc
		vcp
	6	vcp
	12	vcp
	6	vcp
	6	vcp
	8	vcp
	10	vcp
	8	cast iron
	6	vcp
	15	vcp
	4	vcp
	6	vcp
	6	vcp
	6	vcp
	4	VCP
	4	vcp
dition of lower lateral line		
	8	vcp
	4	vcp
	10	VCP
	10	VCP
	8	vcp
	6	VCP
	8	vcp
	4	vcp
	6	VCP
	14	ACP
	8	vcp
	6	vcp
on of Marine Parkway	8	ACP
	6	vcp
		PVC
	6	vcp
	6	VCP
	12	vcp
	6	vcp
	6	vcp
	4	vcp
	4	vcp
	4	vcp
	6	vcp
	4	cast iron
away from the public right of		
	4	vcp
	4	vcp
	4	

25

25

40

20

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Contained all or portion of spill;Inspected sewer using CCTV to determine cause;Restored flow;Returned all or portion of
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Restored flow;Other (specify below)
Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Inspected sewer using CCTV to determine cause;Restored flow
Contained all or portion of spill;Inspected sewer using CCTV to determine cause;Restored flow;Returned all or portion of
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)

Once initial operator arrived on scene, employee immediately cleared blockage - employee then requested clean up assi:

Crew immediately cleared blockage - crew picked up debris at point of overflow - unable to recover due to nearby culvert
Crew immediately cleared blockage. Crew washed down area of road where spill occured and vactored up remaining wa

Crew responded to location once message was received from call (on Monday 12/1/08) - crew immediately cleared main
Crew responded on site and cleared main line - following clearing of main, jetter crew washed down street surface water a

Once flow was restored. crew began cleanup by watering down street and curb and gutter - vactor unit was parked at dow
immediately cleared main line following arrival - water samples on lagoon at point of discharge, above & below discharge
Sanitary sewer was not overflowing at time of crew response arrival - sewer Jetting crew responded and cleared main (hc
Jet crew and storm drain employee cleaned storm drain system by useing 500gls of water to clean storm pipe - all water u
When operator arrived on scene, employee placed rubber mat and sandbags as a precautionary measure to minimize/stc

Supervisor responded out at location immediately following after hours notification to office - supervisor waited on site fc

storm section supervisor first responded on site and confirmed SSO then called out jetter to site so area could be cleanec
Area experienced sewer main line blockage on Wed 8/12 however city was informed of SSO in basement on Friday 8/14

Immediate response by jetter crew - crew first cleared main than set up vacuum truck at downstream location on Opal Av
Attempted to clear blockage/pipe failure but was unable to - construction crew will perform emergency repair on Friday 1(
Area was cleaned by a remediation company once city was notified of spill in basement
Affected area was cleaned by a restoration firm specialized in wastewater cleaning
once main line was cleared, cleaning mitigation company was requested to respond on site and clean affected buiding flo
line will be inspected by CCTV for further inspection today (3/2/2010)

Maintenance crew experienced difficulties in clearing blockage - additional resources were called in, including bordering c
Crew also washed down area with an additional 500 gallons of water and vacumed it all up and returned it back to the sar

Initial call was for smelly storm drain - storm drain employee confirmed that affected basin is actually a storm siphon and
Vactor truck crew washed down wastewater in curb and gutter by utilizing a fire hydrant while they located themselves do
Yard area where spill was contained (pervious area) saturated area around manhole - Cleaning/mitigation company was r
Conduct water quality testing of lagoon waters; identify approach / method for improving water quality, notified residents r
Location of overflow was at cleanout in dirt area of residents front yard - area was cleaned and disenfected - curb and gut
Affected areas have been cleaned by remediation service company and soiled carpet has been discarded. Also, sewer m
Crew was onsite for PM at Pump Station 1 and detected the leak as it started.
Manhole was not overflowing when operator arrived - Total spill quantity was based on amount that was vacumed out of i
Vacume truck arrived on site at 13:45 hrs and immediately started to vacume out arv manhole - estimated 10 gallons on

When first responder and supervisor arrived on scene, manhole was not overflowing. Operator opened and inspected ne
Manhole had saturation around the rim but was mostly driven over by vehicular traffic - manhole was barely overflowing -
City crews jetted the mainline and determined obstruction in the line, CCTV blocked 10 ft from manhole structure. Main l

When request for service was received on 3/29/11 , city staff or responding employee was not aware or informed by anyc
Once line was cleared, area affected was washed down and vacuumed up with combo unit. Nearest storm inlet is locatec
Once notified of spill, line was cleared and mitigation company was called immediatley to respond on site and perform cle
Area was washed down, and vacuumed at the same time. There isnt a storm drain inlet in the area so there was not a dis
As a precuation, downstream inlet was vactored out and strom drain water was returned to sewer system. Based on visu:
Wastewater saturated into hillside and puddled in low lying area - cleaning company was requested to respond to clean a
crew washed down area and vacuumed up water
The carpeted (synthetic turf) that was affected by the spill was removed and discarded and will be replaced. The concret
This lateral line has been scheduled for CCTV inspection and additional cleaning - driveway, curb and gutter area affecte

City responded to blockage when first notified on 10/28/11. Lateral line was cleared by accessing sewer manhole located

9/30/2008 8:45

12/1/2008 9:30

4/20/2009 13:30
5/21/2009 12:30

7/15/2009 9:30

8/4/2009 12:00

3/24/2010 11:00
3/24/2010 20:00

7/23/2010 7:30

9/7/2010 9:48

Other (specify below)

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b

Other (specify below)
Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program;Other (specify below)
Other (specify below)

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance;Repaired sewer;Other (specify below)

short segment of pipe where blocage took place will be televised just to see if there is an offset or broken pipe.

Sewer main pipe was televised on 12/1/08 - pipe condition is good. - main line will also be serviced for root cutting on 12

When blockage was cleared, crew stated that they observed a large amount of rags in manhole - potential upstream sour
Spill was partially recovered by using inlet mat over affected inlet - water quality samples were taken following spill while

Cause was vandalism, trash dumped in nearby manhole. Vacuum out debris and cleaned line and manhole. Will check si

Storm maintenance crew was immediately requested to initiate an inspection of the storm system so that a determinatior

Currently scheduled sewer line on Farmhill to be televised during the week of 3/29 for further inspection
This SSO likely may possibly be related to previous 3/24 SSO on Farmhill Blvd where blockage and SSO took place (rag

Provide additional training to staff on exercising air relief valves.

Yes

Yes

Yes
Yes

No

No

Yes
Yes

No

Yes

N/A

Storm crew (Latu & Rupert) performed visual inspection of creek at Chesire. No signs of debris.
N/A

Performed by storm drain inspection personnel and sewer supervisor - no odors or solids or debris present in creek
N/A
N/A
N/A
Total of 4,667 LF of inaccessible concrete lined creek was inspected by storm drain personnel- at the furthest point downs
No signs of solids or debris in lagoon

N/A
N/A
No solids released
N/A
open creek located at Jefferson & Fulton did not show any signs of contamination
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
Crews inspected natural creek at Stulsaft - no sign of solids or grey water
Inspection of creeks included 6083 LF of creek including inspection at Carson natural creek - employee report states no s
N/A
None
N/A
N/A
N/A
Water quality testing conducted, visual inspection showed NO fish kills or impaired waterfowl. Inspections were daily by b
N/A
N/A
NA
As a precaution, storm drain staff inspected creek access at Gordon & Redwood - according to staff, there was not any si

N/A

N/A
N/A
N/A
N/A
N/A

N/A
N/A
N/A

No

No

No
Yes

No

No

No
No

No

Yes

N/A

N/A

N/A
Neptune beach at Marlin park (possibly)

NA

N/A

N/A
N/A

NA

Marlin Park beach

N/A

N/A

N/A

N/A

N/A
N/A
N/A

Redwood Creek

Redwood Creek

Redwood Creek
Redwood city lagoon

Jefferson Branch of Redwood Creek

N/A

Redwood Creek
Redwood Creek

Jefferson Branch of Redwood Creek

Redwood Shores Lagoon

N/A
No impact to surface water
N/a
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

No water quality samples taken

No water quality samples taken

Biological indicator(s) - specify below
Biological indicator(s) - specify below

No water quality samples taken

Not applicable to this spill

No water quality samples taken
Other chemical indicator(s) - specify below;Other (specify below)

No water quality samples taken

Dissolved oxygen;Biological indicator(s) - specify below

Samples tested for Total Coliform & E Coli (perfomed by San Mateo County Public Health Laboratory)
Total coliform, ecoli & intracoccus (per County health)

Total Cloriform

Tested for Total Coliform, E. Coli, Enterococci, DO

None of the above

None of the above

County Health Agency
County Health Agency

None of the above

None of the above

None of the above
None of the above

None of the above

County Health Agency

Results have been sent to County Health Agency lab for processing

87073	9/30/2008 9:30
88575	12/1/2008 9:20
93097	4/20/2009 10:22
93829	5/21/2009 9:44
95017	7/15/2009 10:25
95444	8/4/2009 10:32
101983	3/24/2010 11:20
101997	3/24/2010 14:15
10443	7/23/2010 10:50
105100	8/25/2010 15:46

2SSO10168	Active	773479	Ray Bartolo	Certified
2SSO10168	Active	773790	Ray Bartolo	Certified
2SSO10168	Active	773856	Marilyn Harang	Certified
2SSO10168	Active	774069	Ray Bartolo	Certified
2SSO10168	Active	774850	Marilyn Harang	Certified
2SSO10168	Active	775447	Ray Bartolo	Certified
2SSO10168	Active	775606	Ray Bartolo	Certified
2SSO10168	Active	775723	Ray Bartolo	Certified
2SSO10168	Active	776070	Ray Bartolo	Certified
2SSO10168	Active	776686	Ray Bartolo	Certified
2SSO10168	Active	776700	Ray Bartolo	Certified
2SSO10168	Active	776869	Ray Bartolo	Certified
2SSO10168	Active	777131	Ray Bartolo	Certified
2SSO10168	Active	777408	Ray Bartolo	Certified
2SSO10168	Active	777794	Ray Bartolo	Certified
2SSO10168	Active	778041	Ray Bartolo	Certified
2SSO10168	Active	778106	Ray Bartolo	Certified
2SSO10168	Active	779204	Ray Bartolo	Certified
2SSO10168	Active	779261	Ray Bartolo	Certified
2SSO10168	Active	779457	Ray Bartolo	Certified
2SSO10168	Active	779671	Ray Bartolo	Certified
2SSO10168	Active	780969	Ray Bartolo	Certified
2SSO10168	Active	782284	Ray Bartolo	Certified
2SSO10168	Active	784614	Ray Bartolo	Certified
2SSO10168	Active	786270	Ray Bartolo	Certified
2SSO10168	Active	786631	Ray Bartolo	Certified
2SSO10168	Active	786841	Ray Bartolo	Certified
2SSO10168	Active	787187	Ray Bartolo	Certified
2SSO10168	Active	787783	Ray Bartolo	Certified
2SSO10168	Active	789148	Ray Bartolo	Certified
2SSO10168	Active	790538	Ray Bartolo	Certified
2SSO10168	Active	791002	Ray Bartolo	Certified
2SSO10168	Active	792952	Terence Kyaw	Certified
2SSO10168	Active	793201	Ray Bartolo	Certified
2SSO10168	Active	793515	Ray Bartolo	Certified
2SSO10168	Active	794002	Ray Bartolo	Certified
2SSO10168	Active	794643	Ray Bartolo	Certified
2SSO10168	Active	796208	Ray Bartolo	Certified
2SSO10168	Active	796575	Ray Bartolo	Certified
2SSO10168	Active	798023	Ray Bartolo	Certified
2SSO10168	Active	798107	Ray Bartolo	Certified
2SSO10168	Active	799932	Justin Chapel	Certified
2SSO10168	Active	800182	Justin Chapel	Certified
2SSO10169	Active	650801	Bonner Beuhler	Certified
2SSO10169	Active	652452	Bonner Beuhler	Certified
2SSO10169	Active	654747	F. Bonner Beuhler	Certified
2SSO10169	Active	655671	Johnny Tucker	Certified
2SSO10169	Active	656770	Bonner Beuhler	Certified
2SSO10169	Active	657028	Bonner Beuhler	Certified
2SSO10169	Active	658080	Bonner Beuhler	Certified
2SSO10169	Active	706991	Johnny Tucker	Certified
2SSO10169	Active	709165	Johnny Tucker	Certified
2SSO10169	Active	709177	Bonner Beuhler	Certified
2SSO10169	Active	709184	Bonner Beuhler	Certified
2SSO10169	Active	711047	Johnny Tucker	Certified

Supervisor
Supervisor
Acting Public Works Services Director
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Acting Public Works Services Director
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Assistant Public Works Director
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Supervisor
Public Works Supervisor
Public Works Superintendent
Manager
District Manager
Manager
District Manager
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District Manager
District Manager
Manager
Manager
District Manager

Redwood City		905379
Redwood City		566830
	1202	982630
Redwood City		172115
	1153	482194
Redwood City		326943
Redwood City		830649
Redwood City		230074
Redwood City		798076
Redwood City		827552
Redwood City		516841
Redwood City		937467
Redwood City		409239
Redwood City		365849
Redwood City		711630
Redwood City		675807
Redwood City		296386
Redwood City		654410
Redwood City		641773
Redwood City		134567
Redwood City		766959
Redwood City		324426
Redwood City		740316
Redwood City		527508
Redwood City		502107
Redwood City		992845
Redwood City		623704
Redwood City		534422
Redwood City		793603
Redwood City		201312
Redwood City		767087
Redwood City		245940
Redwood City, CA		681534
Redwood City		134045
Redwood City		336502
Redwood City		371706
Redwood City		369621
Redwood City		547161
Redwood city		650099
Redwood City		367809
Redwood City		136732
	10:40	220735
	16:35	832378
500 Tiburon Blvd. Tiburon, CA 94920		333750
Tiburon, CA		314744
Tiburon, CA 94920		866493
0632hrs.		757153
Tiburon, CA		585310
Tiburon, CA		879988
Tiburon, CA		795519
1830hrs.		406888
0648hrs.		319323
Tiburon		491501
Tiburon, CA		136204
0646hrs.		786098

23-Nov-11	11/23/2011	23-Nov-11	11/23/2011
7-Dec-11	12/7/2011	7-Dec-11	3/2/2012
8-Dec-11	12/8/2011	8-Dec-11	12/28/2011
14-Dec-11	12/14/2011	14-Dec-11	10/9/2012
28-Dec-11	12/28/2011	28-Dec-11	12/28/2011
6-Jan-12	1/6/2012	6-Jan-12	3/27/2012
10-Jan-12	1/10/2012	10-Jan-12	1/10/2012
11-Jan-12	1/11/2012	11-Jan-12	1/11/2012
19-Jan-12	1/19/2012	19-Jan-12	1/19/2012
31-Jan-12	1/31/2012	31-Jan-12	2/22/2012
31-Jan-12	1/31/2012	31-Jan-12	1/31/2012
6-Feb-12	2/6/2012	6-Feb-12	2/6/2012
10-Feb-12	2/10/2012	10-Feb-12	2/27/2012
13-Feb-12	2/13/2012	6-Mar-12	3/6/2012
21-Feb-12	2/21/2012	21-Feb-12	2/27/2012
27-Feb-12	2/27/2012	27-Feb-12	2/27/2012
28-Feb-12	2/28/2012	16-Mar-12	3/16/2012
28-Mar-12	3/28/2012	28-Mar-12	3/28/2012
29-Mar-12	3/29/2012	9-Apr-12	4/9/2012
3-Apr-12	4/3/2012	14-May-12	5/14/2012
6-Apr-12	4/6/2012	6-Apr-12	4/6/2012
4-May-12	5/4/2012	4-May-12	5/4/2012
20-Jun-12	6/20/2012	25-Jul-12	7/25/2012
3-Aug-12	8/3/2012	9-Aug-12	8/9/2012
17-Sep-12	9/17/2012	19-Oct-12	10/19/2012
26-Sep-12	9/26/2012	26-Sep-12	9/26/2012
2-Oct-12	10/2/2012	2-Oct-12	10/2/2012
12-Oct-12	10/12/2012	12-Oct-12	10/12/2012
1-Nov-12	11/1/2012	1-Nov-12	11/1/2012
19-Dec-12	12/19/2012	19-Dec-12	3/5/2013
18-Jan-13	1/18/2013	18-Jan-13	1/30/2013
31-Jan-13	1/31/2013	31-Jan-13	1/31/2013
27-Mar-13	3/27/2013	29-Mar-13	3/29/2013
5-Apr-13	4/5/2013	5-Apr-13	4/5/2013
19-Apr-13	4/19/2013	19-Apr-13	4/19/2013
8-May-13	5/8/2013	8-May-13	5/8/2013
31-May-13	5/31/2013	31-May-13	5/31/2013
27-Jun-13	6/27/2013	27-Jun-13	6/27/2013
9-Jul-13	7/9/2013	9-Jul-13	7/9/2013
20-Aug-13	8/20/2013	20-Aug-13	8/20/2013
22-Aug-13	8/22/2013	22-Aug-13	8/22/2013
18-Oct-13	10/18/2013	22-Oct-13	10/22/2013
24-Oct-13	11/5/2013	5-Nov-13	11/5/2013
22-May-07		22-May-07	5/22/2007
19-Jun-07		19-Jun-07	6/19/2007
26-Jul-07		26-Jul-07	7/26/2007
13-Aug-07		3-Dec-10	12/3/2010
4-Sep-07		4-Sep-07	9/4/2007
10-Sep-07		10-Sep-07	9/10/2007
26-Sep-07		26-Sep-07	9/26/2007
1-Nov-07		2-Dec-10	12/2/2010
13-Dec-07		13-Dec-07	12/3/2010
13-Dec-07		13-Dec-07	12/13/2007
13-Dec-07		13-Dec-07	12/13/2007
9-Jan-08		9-Jan-08	12/3/2010

Category 3		30	30
Category 3		5	5
Category 3		2	0
Category 3		7	0
Category 3		20	20
Category 3		3	3
Category 3		40	30
Category 1		825	815
Category 3		500	500
Category 3		5	5
Category 1		1875	1875
Category 3		10	10
Category 3		255	255
Category 3		30	30
Category 3		5	5
Category 3		15	15
Category 1		3400	3400
Category 3		15	15
Category 1		6800	0
Category 3		100	100
Category 3		240	0
Category 3		10	0
Category 3		100	0
Category 3		20	15
Category 3		15	15
Category 3		5	0
Category 2		1800	1800
Category 3		5	0
Category 3		33	33
Category 3		10	10
Category 3		450	450
Category 3		600	600
Category 3		24	24
Category 3		10	0
Category 3		22	22
Category 3		10	10
Category 3		1	1
Category 1		150	0
Category 3		50	50
Category 1		21	21
Category 1		200	200
Category 3	15	15	15
Category 3	0	25	25
Category 3		300	0
Category 3		75	0
Category 3		50	
Category 1		20	5
Category 3		40	0
Category 3		20	
Category 3		20	0
Category 3		10	0
Category 1		30	0
Category 3		10	
Category 3		200	
Category 1		200	0

0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
10	Yes	Yes
0	No	Yes
0	No	No
1875	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
1400	Yes	Yes
0	No	No
6800	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	Yes
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0	No	Yes
0	No	Yes
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150	Yes	Yes
0	No	No
21	Yes	Yes
200	Yes	Yes
0	No	No
0	No	Yes
	No	No
	No	No
	No	No
15	No	Yes
0	No	No
	No	No
	No	No
	No	No
30	Yes	Yes
	No	No
	No	No
200	Yes	Yes

Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
No

529 Harrison Ave.
1743 Hempstead
1447 El Camino Real
266 Fulton
1645 Sierra Street
601 Allerton
1404 Oxford
3514 Altamont Wy.
3844 EastLake Way
168 Bonita
3737 Farmhill (Stulsaft Park)
624 Sapphire
1589 James
5 Cadiz
1957 Maddux
1316 Hopkins
624 Woodside Rd.
850 Woodside
610 Woodside
1599 Bridge Parkway
2425 Jefferson
1999 Fernside
555 Twin Dolphin
2802 Washington Ave.
337 Chestnut
34 Waterside
1121 Edgewood Rd.
3733 Laurel
1048 El Camino Rl.
1060 El Camino Rl.
1260 Woodside
932 Middlefield
1710 El Camino Real, Redwood City, CA 94061
560 El Camino Rl
1048 El Camino Rl.
1516 Brewster
12 California st.
195 Alameda
3655 Glenwood
3737 Farmhill
3550 Farmhill
3518 Altamont Way
Redwood City Centrum Lift Station
MH DM 210.03
MH BG 122.15
MH SW 121.01
MH SW 15.03
BG 223.01
MH BG 151.03
100 Reed Blvd
MH BG 223.01
MH SW 421.11
604 Seminary Drive - Air Release MH
MH SW 412.09
MH SW 132.01

37.479902	-122.235241	San Mateo
37.454611	-122.235111	San Mateo
37.481111	-122.228056	San Mateo
37.482222	-122.239722	San Mateo
37.46393	-122.22792	San Mateo
37.489056	-122.232583	San Mateo
37.469444	-122.228889	San Mateo
37.466667	-122.250833	San Mateo
37.461667	-122.261111	San Mateo
37.466889	-122.220278	San Mateo
37.456111	-122.249722	San Mateo
37.470278	-122.243889	San Mateo
37.475083	-122.245556	San Mateo
37.52875	-122.246417	San Mateo
37.452389	-122.234194	San Mateo
37.486944	-122.240833	San Mateo
37.468889	-122.223889	San Mateo
37.465833	-122.224722	San Mateo
37.469167	-122.223889	San Mateo
37.5359	-122.25905	San Mateo
37.472611	-122.240278	San Mateo
37.451111	-122.234722	San Mateo
37.527222	-122.263611	San Mateo
37.457778	-122.239444	San Mateo
37.481111	-122.222528	San Mateo
37.533611	-122.236667	San Mateo
37.482778	-122.255028	San Mateo
37.466111	-122.255833	San Mateo
37.483611	-122.232417	San Mateo
37.483583	-122.231944	San Mateo
37.458611	-122.227583	San Mateo
37.484722	-122.228333	San Mateo
37.47885	-122.2254	San Mateo
37.489167	-122.238611	San Mateo
37.483611	-122.232417	San Mateo
37.484028	-122.240278	San Mateo
37.485917	-122.233083	San Mateo
37.480278	-122.252611	San Mateo
37.467361	-122.256111	San Mateo
37.456389	-122.249722	San Mateo
37.465278	-122.248889	San Mateo
37.383461	-122.250897	San Mateo
37.529356	-122.267111	San Mateo
37.883611	122.466944	Marin
37.900833	122.490556	Marin
37.899722	122.505	Marin
37.89412	122.50528	Marin
37.90167	122.48139	Marin
37.89647	122.49347	Marin
37.89827	122.51272	Marin
37.9018	122.48116	Marin
37.90077	-122.49994	Marin
37.89755	122.49664	Marin
37.89755	122.49664	Marin
37.899	-122.50647	Marin

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Atcleanout located in boxed in area in fenced in court yard, in between duplex units. on private property.
Residential bathroom
Inside building bathroom
Spill occured in backyard of residential home.
Spill occurred at the property line cleanout to the residence.
SSO took place in building restroom.
Spill occured at property line cleanout in driveway and flowed towards adjacent dirt area and on to curb and gutter. Beca
In residential street, outside of sewer manhole.
Spill occured out of sewer main line manhole located in front of 3844 EastLake Way.
Inside fenced in yard, on carpeted ground patio area
At sewer manhole, inside Stulsaft Park, slightly downstream of Chatham Ct. Sewer manhole is located inside park groun
At property line cleanout and inside residential bathroom.
At manhole, in residential street.
Spill took place in residential basement.
Spill occured in residential bathroom and garage.
At property line cleanout, in fenced in front yard
Inside two commercial buildings & outside of property line sewer cleanout. Upholstery store owner was in store when ove
Inside parking lot
In roadway
Sewer Lift Station #25, on Bridge Parkway near intersection with Island Dr

Some wastewater flowed outside sewer cleanout and onto surrounding dirt area in backyard and also inside basement are
In grass park strip location
SSO took place inside of residential home, in bathroom.
Duplex Residence
At residential property line cleanout, curb and gutter.
At sewer manhole located in street within residential neighborhood.
Around sewer manhole in street.
Manhole in sidewalk and in curb and gutter
Spill took place inside of office restroom
At manhole in busy street.
At manhole, at shoulder of road located in downtown area.

Inside building bathroom.
Spill occurred on sidewalk.
In residential bathroom, hallway
At sewer cleanout. Wastewater flowed onto sidewalk.
At manhole located at side of road.
Spill location confined to residential garage.
Within park facility.
Spill occurred in residential street from sewer manhole.
property line clean out

Manhole DM 210.03 in backyard of 4 Felipa Court.
Manhole BG 122.15 in front of 56 Reed Ranch Road, Tiburon, CA 94920
Manhole in unpaved driveway of 1 Bay Vista Court

Manhole BG 223.01
Manhole in front of 14 Southridge East.
Rod hole located in bushes of 100 Reed Blvd.
middle of street end of court

Manhole in front of 60 Bayview Terrace

use there are not any strom drain catch

ds.

rflow began.

ea.

1
2

Gravity sewer
Building or structure
Building or structure
Gravity sewer;Other (specify)
Other sewer system structure
Building or structure
Gravity sewer;Other (specify)
Manhole
Manhole
Gravity sewer;Other (specify)
Manhole
Building or structure;Other (specify)
Manhole
Building or structure
Building or structure
Other (specify)
Building or structure;Gravity sewer
Other (specify)
Manhole
Pump station;Other (specify)
Other (specify)
Building or structure;Other (specify)
Force main or pressure sewer
Building or structure
Building or structure
Other (specify)
Manhole
Manhole
Manhole
Building or structure
Manhole
Manhole
Manhole
Building or structure
Manhole
Building or structure
Other (specify)
Manhole
Building or structure
Manhole
Gravity sewer;Manhole
Lateral Clean Out (Public)
Inside Building or Structure;Pump station
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole

cleanout.
Property line cleanout of residential sewer lateral.

Sewer cleanout.

At cleanout

Property line cleanout in front yard lawn area, also.

At property line sewer cleanout.

Cleanout in parking lot.

4 inch pump discharge line, bubbled up through soil and dirt area within Lift Station #25.
Sewer cleanouts.
Some flowed outside of cleanout.

Sewer cleanout

At sewer cleanout.

spill appeared from gravity main manhole, and inside a public restroom

Other paved surface;Other (specify below)
Building or structure
Building or structure
Unpaved surface;Other (specify below)
Street/curb and gutter
Building or structure;Other (specify below)
Street/curb and gutter;Unpaved surface
Separate storm drain;Surface water;Other (specify below)
Separate storm drain;Street/curb and gutter;Other (specify below)
Other paved surface;Other (specify below)
Other (specify below)
Building or structure;Unpaved surface
Street/curb and gutter
Building or structure
Building or structure
Unpaved surface
Building or structure;Separate storm drain;Street/curb and gutter;Other (specify below)
Other paved surface;Other (specify below)
Surface water;Other (specify below)
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface;Other (specify below)
Unpaved surface;Other (specify below)
Building or structure;Unpaved surface
Unpaved surface;Other (specify below)
Building or structure
Building or structure
Street/curb and gutter;Unpaved surface
Separate storm drain;Street/curb and gutter
Other paved surface;Other (specify below)
Separate storm drain;Street/curb and gutter;Other (specify below)
Building or structure
Separate storm drain;Street/curb and gutter;Other (specify below)
Other (specify below)
Street/curb and gutter
Building or structure
Street/curb and gutter
Building or structure
Other (specify below)
Surface water;Other (specify below)
Building or structure
Other (specify below)
Separate storm drain;Surface water;Other (specify below)
Unpaved surface
Building or Structure;Separate Storm Drain
Unpaved surface
Street/curb and gutter
Other paved surface
Storm drain;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface;Separate storm drain
Street/curb and gutter
Unpaved surface
Street/curb and gutter

Wastewater collected onto artificial grass area where cleanout is located. Area is isolated and away from public right of w

Spill saturated dirt area at cleanout location.
Along the street at the curb and gutter.
Spill occured in restroom of building. Affectd area was cleaned by mitigation company. Spill occured only in restroom.

Based on inspection of creek at 2320 Cheshire Wy, there was a small amount of grey water in the creek. Based on these
Spill flowed through small open culverts throughout area. During recovery effort, final destination of spill was located in r
Water spilled around sewer cleanout and onto carpeted play area in front yard.
Wastewater spilled into park creek. Sandbag Dam was set up far downstream of spill location, and trash pump and hose
Also overflowed at property line cleanout in lawn area.
Water flowed in middle of street and in curb and gutter location.

Spill took place within residential front yard in landscaped tan bark area, within concrete fence/wall.
While most of the overflow was recovered from three different locations (Woodside Rd & Hudson, Lathrop & Elm and El (
Inside parking lot.
While most of the SSO reached surface waters, some of it was recovered from two different locations. An inspection of F
Overflow contained within storm drainage pipe
When arrived, two seperate cleanouts were overflowing (5GPM/ea).

Damp spot in grass park strip location. based onthe open excavation, it did not appear that alot of water discharged from
Final spill destination was in residential bathroom and hallway. City is still awaiting more information pertaining to other a

A small amount of water was located around sewer manhole. The curb and gutter was inspected and determined to not s
Water was observed to be puddled in low lying low spot of curb and gutter. First responder sand bagged catch basin as p

A fair amount of the SSO was on the street surface and spread out by oncoming motorists.
Storm water pump station located just around the corner.

On sidewalk.
Following response to clear main sewer line, crew immediately relocated to 703 Katherine to attempt recovery. Upon arri

Once notified of spill, crew immediately mobilized to downstream location to set up pump and dewater to sewer.
Once blockage was cleared, recovery crew was requested to relocate to far downstream accessible creek location at 900
unimproved city easment

dirt area in backyard of home

11/21/2011 16:39	11/21/2011 16:39	11/21/2011 17:00	11/21/2011 19:00
12/4/2011 17:53	12/4/2011 17:53	12/4/2011 18:10	12/4/2011 18:15
12/5/2011 17:36	12/5/2011 17:36	12/5/2011 17:50	12/5/2011 18:30
12/11/2011 16:58	12/11/2011 16:58	12/11/2011 17:10	12/11/2011 17:25
12/26/2011 13:26	12/26/2011 13:26	12/26/2011 14:25	12/26/2011 14:30
1/3/2012 14:54	1/3/2012 14:59	1/3/2012 15:10	1/3/2012 15:20
1/9/2012 8:22	1/9/2012 8:24	1/9/2012 8:30	1/9/2012 8:40
1/9/2012 9:30	1/9/2012 9:32	1/9/2012 9:45	1/9/2012 10:03
1/18/2012 8:10	1/18/2012 8:13	1/18/2012 8:25	1/18/2012 8:30
1/28/2012 10:36	1/28/2012 10:43	1/28/2012 15:45	1/28/2012 16:15
1/28/2012 10:00	1/28/2012 10:38	1/28/2012 10:50	1/28/2012 12:05
1/30/2012 13:40	1/30/2012 13:45	1/30/2012 14:00	1/30/2012 14:15
2/7/2012 9:42	2/7/2012 10:42	2/7/2012 10:45	2/7/2012 11:07
2/8/2012 18:20	2/8/2012 20:21	2/8/2012 20:50	2/8/2012 23:30
2/17/2012 10:20	2/17/2012 10:37	2/17/2012 10:47	2/17/2012 11:30
2/25/2012 13:30	2/25/2012 13:45	2/25/2012 14:20	2/25/2012 14:25
2/26/2012 10:37	2/26/2012 10:40	2/26/2012 10:47	2/26/2012 11:45
3/26/2012 6:50	3/26/2012 7:12	3/26/2012 7:20	3/26/2012 7:54
3/26/2012 8:00	3/26/2012 8:00	3/26/2012 8:10	3/26/2012 8:34
4/2/2012 11:10	4/2/2012 11:20	4/2/2012 11:30	4/2/2012 11:30
4/4/2012 8:45	4/4/2012 8:46	4/4/2012 9:01	4/4/2012 9:09
5/2/2012 10:15	5/2/2012 10:28	5/2/2012 10:38	5/2/2012 12:30
6/18/2012 10:30	6/18/2012 10:42	6/18/2012 11:00	6/18/2012 11:15
8/1/2012 12:30	8/1/2012 14:07	8/1/2012 15:20	8/1/2012 16:15
9/13/2012 17:00	9/13/2012 22:38	9/13/2012 22:55	9/14/2012 0:10
9/24/2012 11:15	9/24/2012 14:46	9/24/2012 15:45	9/24/2012 16:20
9/30/2012 13:30	9/30/2012 13:30	9/30/2012 13:32	9/30/2012 14:15
10/11/2012 10:52	10/11/2012 10:57	10/11/2012 11:00	10/11/2012 12:00
10/31/2012 12:28	10/31/2012 12:33	10/31/2012 12:55	10/31/2012 13:01
12/17/2012 10:00	12/17/2012 10:08	12/17/2012 10:18	12/17/2012 10:02
1/17/2013 11:40	1/17/2013 11:45	1/17/2013 12:00	1/17/2013 12:05
1/30/2013 13:12	1/30/2013 13:13	1/30/2013 13:15	1/30/2013 13:37
3/26/2013 12:23	3/26/2013 12:23	3/26/2013 12:33	3/26/2013 12:34
4/3/2013 21:30	4/3/2013 21:34	4/3/2013 21:45	4/3/2013 23:00
4/18/2013 8:10	4/18/2013 8:14	4/18/2013 8:17	4/18/2013 8:19
5/5/2013 18:00	5/5/2013 18:30	5/5/2013 18:40	5/5/2013 18:50
5/30/2013 15:30	5/30/2013 15:49	5/30/2013 16:12	5/30/2013 16:16
6/26/2013 9:55	6/26/2013 9:56	6/26/2013 10:09	6/26/2013 10:10
7/5/2013 19:27	7/5/2013 19:29	7/5/2013 19:39	7/5/2013 21:30
8/19/2013 8:15	8/19/2013 8:20	8/19/2013 8:34	8/19/2013 8:36
8/21/2013 12:35	8/21/2013 12:40	8/21/2013 12:52	8/21/2013 12:55
10/17/2013 11:47	10/17/2013 11:47	10/17/2013 11:55	10/17/2013 12:10
10/24/2013 13:15	10/24/2013 13:15	10/24/2013 13:15	10/24/2013 13:16
5/19/2007 14:00	5/19/2007 14:45	5/19/2007 15:00	5/20/2007 8:15
6/18/2007 21:00	6/18/2007 21:00	6/18/2007 20:00	6/19/2007 1:30
7/24/2007 15:00	7/24/2007 15:30	7/24/2007 15:45	7/24/2007 16:15
8/9/2007 11:50	8/9/2007 11:55	8/9/2007 12:00	8/9/2007 12:25
8/30/2007 9:45	8/30/2007 10:15	8/30/2007 10:00	8/30/2007 10:30
9/6/2007 8:00	9/6/2007 8:10	9/6/2007 8:30	9/6/2007 8:45
9/21/2007 15:30	9/21/2007 15:45	9/21/2007 15:55	9/21/2007 16:30
10/31/2007 10:30	10/31/2007 10:40	10/31/2007 10:50	10/31/2007 11:10
12/7/2007 10:30	12/7/2007 10:40	12/7/2007 10:45	12/7/2007 11:20
12/7/2007 12:00	12/7/2007 12:30	12/7/2007 12:45	12/7/2007 12:55
12/9/2007 11:45	12/9/2007 12:00	12/9/2007 13:00	12/9/2007 15:00
1/4/2008 13:00	1/4/2008 11:30	1/4/2008 13:00	1/4/2008 13:30

Grease deposition (FOG)
Root intrusion
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Root intrusion
Root intrusion
Pipe structural problem/failure
Grease deposition (FOG)
Root intrusion
Debri-General
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Pipe structural problem/failure
Root intrusion
Root intrusion
Pipe structural problem/failure
Root intrusion
Other (specify below)
Root intrusion
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Debri-Rags
Debri-Rags
Grease deposition (FOG)
Grease deposition (FOG)
Debri-Rags
Root intrusion
Debri-Rags
Debri-Rags
Root intrusion
Debri-Rags
Debri-Rags
Root Intrusion
Grease Deposition (FOG)
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Grease deposition (FOG)
Root intrusion
Root intrusion
Grease deposition (FOG)
Root intrusion
Pipe structural problem/failure
Root intrusion
Root intrusion

We also suspect that lateral line may be flat linning in certain areas.

12/5/11 work report indicates roots, grease and debris.

Debris was also identified in lateral (industrial paper towels).

Line was difficult to clear. Segments of line appeared to be off set . STATUS - THE LOWER SEWER LATERAL HAS B

Large induustrial rags were also retrieved from sewer pipe.

4 inch discharge line to pump #1 was broken and would overflow through soil when pump turned on.

Grease and debris resulted in cause of line blockage.

While roots was a contributor to the blockage, a large amount of hand wipes/paper towels also contributed to the cause o
This blockage was due to some roots but mostly debris related items like heavy paper towels.
When main line was jetted, it was not apparent as to cause of blockage. No grease, debris or roots were observed as cau
Buildup of rags in sewer line, due to pipe offset. This sewer line has since then been repaired.

Crews identified heavy amount of industrial rags in sewer. This SSO was spotted and identified by City sewer crew while

.

Debris and Greas Deposition

Air release valve on force main fitting failed. Small amount of sewage leaked from MH during pump cycle. Not overflowin

Sewer partially obstructed with roots, manhole was surcharge but not overflowing initially. Due to increasing rainfall, manl

Other (specify below)
Lower Lateral
Lower Lateral
Lower Lateral
Lower Lateral
Lower Lateral
Lower Lateral
Main
Main
Lower Lateral
Main
Lower Lateral
Main
Main
Lower Lateral
Lower Lateral
Main
Main
Main
Other (specify below)
Main
Main
Other (specify below)
Lower Lateral
Main
Lower Lateral
Main
Main
Main
Lower Lateral
Main
Main
Main
Other (specify below)
Main
Lower Lateral
Lower Lateral
Main
Lower Lateral
Main
Main
Lower Lateral (Public)
Gravity Mainline

Main
g when Roto Rooter arrived. Had pump truck e

Main

The area that experienced a blockage is located in the upper lateral area however, the city is responsible for the entire se

Pump discharge line. I

6 inch sewer force main line

Main was plugged in the 1100 block of El Camino Rl.

The sewer line that plugged and caused an SSO is a self serving 4 inch main line that services only two structures on El (

This lateral will be CCTV investigated on 5/10/13.

mpty MH and shut valve.

gnment of sewer line.	4	vcp
	4	vcp
	6	
	4	vcp
	4	Clay
	4	vcp
	6	vcp
	6	VCP
	6	VCP
	4	VCP
	8	VCP
	4	VCP
	6	VCP
	8	VCP
	4	VCP
	4	VCP
	6	vcp
	10	vcp
	10	VCP
	4	PVC
		vcp
	6	VCP
	4	VCP
	6	VCP
	4	vcp
	8	VCP
	6	VCP
	6	VCP
	4	VCP
	10	VCP
	8	VCP
Camino.		
	6	VCP
	4	VCP
	8	HDPE
	4	VCP
	8	VCP
	6	VCP
No	4	pvc
No	8	clay
	6	
	6	
	6	
	6	
	6	vcp
	6	plastic
	6	VCP
	6	
	6	VCP

40 yrs

15

72
288

15

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Other (specify below)
Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Contained all or portion of spill;Inspected sewer using CCTV to determine cause;Restored flow;Returned all or portion of
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R

Cleaned-up (mitigated effects of spill);Restored flow
Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Restored flow;Other (specify below)

This sewer line will be subject to repair. Area subject to overflow was cleaned by a remediation company. Area subject tc
Resident called city on 12/6/11 and alerted city that overflow in bathroom occured as a result of 12/4/11 lateral blockage.
Remediation company was called once city was notified of spill inside bathroom. Crew cleared line on initial day of reque
Cleaning remediation company was immediately requested to clean affected area. Soiled area was removed and replace

All wastewater was cleaned removed from restroom once responding mitigation company responded on site, immediately
Lateral line was was serviced (line cleaned) again as a precautionary measure on 1/10/12 and will be inspected with CCT
This section of main line will be inspected by main line CCTV camera. It will be inspected week of 1/16/12.
Spill response activity including an immediate recovery effort that included an inspection of all downstream culverts and c
Area was cleaned and disinfected by remediation company. This lower lateral has been scheduled for CCTV inspection f
Once main line blockage was cleared, an immediate creek inspection and recovery effort was initiated. After creek locati
Mitigation company was also called to respond to clean residential bathroom. Also, some debis overflowed at property lir
During recovery, area was washed down and vacuumed then returned to sewer system. There are not any catchbasins ir
Resident called and informed City on 2/10/12 of residential spill inside of residence. When city staff were alerted on 2/10
Mitigation company was called out and requested to respond for cleaning service once it was confirmed spill affected insi
The lower lateral will be inspected with CCTV on 3/2/12.
This spill is still being investigated. Mitigation crews were called to respond to two affected businness so that they can be
SSO in parking lot was removed by hydro jetter and vacuum. This segment of main line sewer received a hydro saw sen
Refer to attachment file name: sso_woodside_hudson
STATUS UPDATE - Following spill, pump was placed on off position to stop overflow pending discharge line repair. On
Tree root rodding truck crew was dispatched on site following spill and performed root cutting service to main sewer line.
This easement sewer main line will receive additional PM service. Mitigation cleaning company was called out to clean a
Grass park strip area was immediately excavated and pipe segment was repaired by utilizing pipe clamps. There was no
Resident first called out a private plumber to clear blockage. Upon further investigation from the private plumber, he requ
Once city staff were notified of backup into duplex unit, city responded and immediately initiated request to clear main lin
When operator arrived on scene, wastewater had evaperated from cleanout, sidewalk area however lawn, sidewalk and g
When employee was working at another nearby location, he was notified by motorist that she observed a sewer manhole
The small amount of SSO around manhole was apparent however appeared to have evaporated, as the sewer manhole v
Once line was cleared, crew immediately commenced a recovery effort. Following vacuuming of puddled water in curb a
Upon notification of spill, we responded and viewed affected areas of spill inside restrooms. At time of arrival, overflow w
This spill was identified by City wastewater employee. The spill was first identified by observing water in street lane. City
Because the location of the overflowing manhole was located just around the corner of the nearest stormwater pump stati

Once City was notified of SSO on 4/4/13 once building occupants started work, City immediately dispatched mitigation cc
Crew immediately cleared blockage once they noticed water on sidewalk. Also, crew followed curb and gutter downstrear
Mitigation company was immediately contacted to clean affected area of SSO. This lower lateral will be inspected on 5/1
This lower lateral will undergo a line cleaning and CCTV inspection on 5/31/2013. This incident was alerted to us by resic
Following clearing of sewer main, sewer crew immediately relocated downstream to 703 Katherine to attempt recovery of
Once City employee arrived on scene, mitigation services were requested to arrive on site. This lower lateral will underg
This SSO was reported to wastewater staff by City Parks employee. Recovery crew immediately set up sandbag dam at
Recovery crew mobilized equipment and staff to downstream creek location at 900 Blk Junipero. Crew set up a sandbag

Air release valve on force main fitting failed. Small amount of sewage leaked from MH during pump cycle. Not overflowir

Vactored out surcharged manhole and transferred to other nearby sewer. Rainfall extremely heavy at time with excessive

1/9/2012 14:30

1/28/2012 20:30

2/26/2012 17:00

3/26/2012 21:30

9/30/2012 19:30

6/26/2013 11:50

8/19/2013 12:00
8/21/2013 16:30

8/9/2007 12:25

12/7/2007 11:30

1/4/2008 13:30

Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer

Added sewer to preventive maintenance program;Other (specify below)

Adjusted schedule/method of preventive maintenance;Enforcement action against FOG source;Other (specify below)

Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer;Other (specify below)
Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer

This main line will undergo CCTV inspection week of 1/16/2012. All affected downstream catch basins and storm pipe we

This main line will undergo a CCTV inspection

Wastewater treatment plant source control staff will be alerted of all contributing upstream business owners so that inspec

Follwoing SSO event, a contractor was requested and performed a hydro saw grease removal process on a large segmer

This main line will undergo a CCTV inspection.

Since this sewer main line isn't that old and has been rehabilitated within the past 15 years, we will CCTV the section of m

This sewer main has already undergone treatment for root kill, has received a CCTV inspection and has been root cut an
This sewer main line will be further evaluated on 8/23/13.

spill was related to crews working in lines upstream of spill location as this section of line was cleaned in the last 12 montl

Section of line is on 3 year cleaning program, next scheduled cleaning is summer 2008.

Yes

Yes

Yes

Yes

Yes

No

Yes
Yes

No

No

No

N/A
N/A

N/A

Inspection of standing creek located at 2300 Blk Cheshire revealed small amount of grey water, no debris. Water was va

Grey water was located just down stream from overflowing manhole but far upstream from sandbag dam and pump set u

N/A

N/A
Crews vacuumed out water from lined creek location until water cleared.

No wastewater reached surface water. Flap gate was closed against high tide at time, based on visual observation.

N/A

N/A
N/A

N/A

Crew walked entire creek and did not notice any grey water or negative impact to aquatic life.
Creek did not contain grey water or debris.

No

Yes

No

No

No

No

No

No

No

No

No

No

N/A

No beaches were affected but as a precautionary measure, posted barricades and caution tape were set up at creek locat

N/A

N/A
N/A

NA

NA

NA

N/A
N/A
N/A
N/A

N/A
N/A
None
N/A
N/A
Flowed into park creek but returned to sewer system.
N/A
N/A
N/A
N/A

Redwood Creek
N/A
Redwood Creek
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
None
N/A
N/A
N/A
N/A
Redwood Creek
N/A
Stulsaft Branch
None

NA

Richardson Bay

Richardson Bay

No water quality samples taken

Other chemical indicator(s) - specify below

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken

No water quality samples taken

Not applicable to this spill

Ammonia, Fecal coliform and other analysis - will update once laboratory findings are provided.

None of the above

County Health Agency

None of the above

No water quality samples taken

No water quality samples taken

None of the above

None of the above
None of the above

None of the above

None of the above

None of the above

Results of lab analysis are pending. Once provided, they will be provided to County Health.

${ssoDetails.resultsReportedExplanation}

120139	1/9/2012 11:25
120582	1/28/2012 11:54
12111	2/26/2012 12:15
121765	3/26/2012 9:37
125886	9/30/2012 16:43
133896	6/26/2013 11:34
135113	8/19/2013 9:16
135188	8/21/2013 13:15

Justin Chapel - Public Works Supervisor	6507807469
Justin Chapel - Public Works Superintendent	6507807469

2SSO10169	Active	712804	Johnny Tucker	Certified
2SSO10169	Active	712808	Bonner Beuhler	Certified
2SSO10169	Active	714122	Bonner Beuhler	Certified
2SSO10169	Active	714558	Johnny Tucker	Certified
2SSO10169	Active	715377	Johnny Tucker	Certified
2SSO10169	Active	715384	Johnny Tucker	Certified
2SSO10169	Active	716393	Johnny Tucker	Certified
2SSO10169	Active	717217	Bonner Beuhler	Certified
2SSO10169	Active	717913	Johnny Tucker	Certified
2SSO10169	Active	719942	Johnny Tucker	Certified
2SSO10169	Active	721103	Johnny Tucker	Certified
2SSO10169	Active	724592	Bonner Beuhler	Certified
2SSO10169	Active	725058	Bonner Beuhler	Certified
2SSO10169	Active	726603	Johnny Tucker	Certified
2SSO10169	Active	726607	Johnny Tucker	Certified
2SSO10169	Active	727780	Bonner Beuhler	Certified
2SSO10169	Active	728071	Johnny Tucker	Certified
2SSO10169	Active	729213	Bonner Beuhler	Certified
2SSO10169	Active	729831	Johnny Tucker	Certified
2SSO10169	Active	730143	Bonner Beuhler	Certified
2SSO10169	Active	731052	Bonner Beuhler	Certified
2SSO10169	Active	731461	Johnny Tucker	Certified
2SSO10169	Active	731720	Johnny Tucker	Certified
2SSO10169	Active	737270	Johnny Tucker	Certified
2SSO10169	Active	737839	Johnny Tucker	Certified
2SSO10169	Active	742251	Johnny Tucker	Certified
2SSO10169	Active	742896	Johnny Tucker	Certified
2SSO10169	Active	745310	Johnny Tucker	Certified
2SSO10169	Active	745353	Johnny Tucker	Certified
2SSO10169	Active	748106	Johnny Tucker	Certified
2SSO10169	Active	752181	Johnny Tucker	Certified
2SSO10169	Active	754745	Johnny Tucker	Certified
2SSO10169	Active	758302	Johnny Tucker	Certified
2SSO10169	Active	763787	Johnny Tucker	Certified
2SSO10169	Active	774154	Johnny Tucker	Certified
2SSO10169	Active	782290	Johnny Tucker	Certified
2SSO10169	Active	793377	Johnny Tucker	Certified
2SSO10170	Active	651848	Bill Lindsay	Certified
2SSO10170	Active	652441	Bill Lindsay	Certified
2SSO10170	Active	653353	Bill Linday	Certified
2SSO10170	Active	655187	Bill Linday	Certified
2SSO10170	Active	655983	Bill Lindsay	Certified
2SSO10170	Active	656755	Bill Lindsay	Certified
2SSO10170	Active	656893	Bill Lindsay	Certified
2SSO10170	Active	657011	Bill Lindsay	Certified
2SSO10170	Active	657509	Bill Lindsay	Certified
2SSO10170	Active	657884	Mary Phelps	Certified
2SSO10170	Active	704452	BILL LINDSAY	Certified
2SSO10170	Active	704453	BILL LINDSAY	Certified
2SSO10170	Active	704864	Bill Lindsay	Certified
2SSO10170	Active	705816	Bill Lindsay	Certified
2SSO10170	Active	706929	Bill Lindsay	Certified
2SSO10170	Active	706934	Bill Lindsay	Certified
2SSO10170	Active	707636	Bill Lindsay	Certified
2SSO10170	Active	707951	Bill Lindsay	Certified

District Manager
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Source Control Inspector III
CITY MANAGER
CITY MANAGER
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City Manager
City Manager

0636hrs.		880103
Tiburon, CA 94920		587862
Tiburon, CA		995709
0644hrs.		500550
11:46 A.M.		761240
12:01 P.M.		172299
	12:57	445019
Tiburon, CA 94920		346728
0711hrs.		782463
08:03 a.m.		622813
0714hrs.		517248
Tiburon, CA		839234
Tiburon, CA		589720
0713hrs.		797961
0905 hrs.		799451
Tiburon, CA		273495
0641hrs.		728453
Tiburon, CA		168404
0639hrs.		684873
Tiburon, CA		768074
Tiburon, CA		881103
0932 hrs.		759763
1318 hrs.		119610
11:58 A.M.		105367
1108 hrs.		132935
1123 hrs.		418072
0928 hrs.		288972
0618 hrs.		599285
1311 hrs.		522726
1339 hrs		486627
1155 hrs.		767981
1357 hrs.		729641
0808 hrs.		817472
0851 hrs.		338702
1206 hrs.		119248
1211hrs.		736201
1252hrs		582157
Richmond, CA		650390
Richmond, CA		370818
The City of Richmond		852108
The City of Richmond		232645
2:54 p.m.		717546
The City of Richmond		822699
The City of Richmond		356917
The City of Richmond		987938
The City of Richmond		474908
Richmond, CA		529443
CITY OF RICHMOND		683952
CITY OF RICHMOND		545833
RIchmond, CA		327970
Richmond, CA		870838
Richmond, CA		468553
Richmond, CA		282033
Richmond, CA		120258
Richmond, CA		260488

13-Feb-08		13-Feb-08	12/3/2010
13-Feb-08		13-Feb-08	2/13/2008
28-Feb-08		28-Feb-08	2/28/2008
6-Mar-08		6-Mar-08	12/3/2010
26-Mar-08		26-Mar-08	3/26/2008
26-Mar-08		26-Mar-08	3/26/2008
22-Apr-08		22-Apr-08	4/22/2008
12-May-08		13-May-08	5/13/2008
23-May-08		23-May-08	12/3/2010
20-Jun-08		20-Jun-08	6/20/2008
1-Jul-08		1-Jul-08	12/3/2010
13-Aug-08		13-Aug-08	8/13/2008
22-Aug-08		22-Aug-08	8/22/2008
22-Sep-08		22-Sep-08	12/3/2010
22-Sep-08		22-Sep-08	9/22/2008
13-Oct-08		13-Oct-08	10/13/2008
17-Oct-08		17-Oct-08	12/3/2010
13-Nov-08		13-Nov-08	11/13/2008
25-Nov-08		25-Nov-08	12/3/2010
3-Dec-08		3-Dec-08	12/3/2008
24-Dec-08		24-Dec-08	12/24/2008
6-Jan-09		6-Jan-09	1/6/2009
12-Jan-09		12-Jan-09	1/12/2009
11-May-09		11-May-09	5/11/2009
22-May-09		22-May-09	5/22/2009
3-Aug-09		3-Aug-09	8/6/2009
12-Aug-09		12-Aug-09	8/12/2009
2-Oct-09		2-Oct-09	10/2/2009
5-Oct-09		5-Oct-09	10/5/2009
4-Jan-10		4-Jan-10	1/4/2010
5-May-10		5-May-10	5/5/2010
12-Jul-10	7/12/2010	12-Jul-10	7/12/2010
2-Nov-10	11/2/2010	2-Nov-10	11/2/2010
28-Feb-11	2/28/2011	28-Feb-11	2/28/2011
15-Dec-11	12/15/2011	15-Dec-11	12/15/2011
20-Jun-12	6/20/2012	20-Jun-12	6/20/2012
15-Apr-13	4/15/2013	15-Apr-13	4/15/2013
13-Jun-07		19-Jun-07	6/19/2007
19-Jun-07		19-Jun-07	6/19/2007
2-Jul-07		17-Sep-07	9/17/2007
2-Aug-07		17-Sep-07	9/17/2007
17-Aug-07		5-Sep-07	9/5/2007
31-Aug-07		17-Sep-07	9/17/2007
5-Sep-07		17-Sep-07	9/17/2007
7-Sep-07		17-Sep-07	9/17/2007
17-Sep-07		17-Sep-07	9/17/2007
21-Sep-07		9-Oct-07	10/25/2011
1-Oct-07		9-Oct-07	10/9/2007
1-Oct-07		9-Oct-07	10/9/2007
9-Oct-07		9-Oct-07	10/31/2007
19-Oct-07		31-Oct-07	10/31/2007
31-Oct-07		30-Nov-07	11/30/2007
31-Oct-07		30-Nov-07	3/28/2011
13-Nov-07		30-Nov-07	11/30/2007
20-Nov-07		30-Nov-07	11/30/2007

Category 1	75	0
Category 3	25	
Category 3	800	0
Category 1	20	0
Category 3	10	0
Category 3	100	0
Category 3	100	0
Category 1	400	190
Category 3	10	0
Category 3	5	2
Category 3	50	8
Category 3	20	0
Category 3	200	0
Category 3	225	0
Category 3	50	0
Category 3	50	0
Category 1	75	10
Category 3	25	5
Category 1	50	30
Category 3	600	0
Category 3	25	20
Category 3	50	0
Category 3	10	0
Category 3	20	0
Category 3	20	0
Category 3	650	50
Category 3	300	0
Category 3	3	0
Category 3	100	100
Category 3	5	0
Category 3	400	350
Category 3	90	60
Category 3	50	0
Category 3	70	0
Category 3	20	20
Category 3	150	0
Category 1	375	0
Category 3	55	55
Category 2	1496	1496
Category 3	525	525
Category 3	50	50
Category 3	40	0
Category 3	8	0
Category 3	10	10
Category 3	10	10
Category 3	25	25
Category 3	200	200
Category 3	3	3
Category 3	80	80
Category 3	75	75
Category 3	85	85
Category 3	75	75
Category 3	80	60
Category 3	20	20
Category 3	35	35

75	Yes	Yes
	No	No
	No	No
20	Yes	Yes
0	No	No
0	No	No
0	No	No
210	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
65	Yes	Yes
0	No	No
20	Yes	Yes
0	No	No
0	No	No
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
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0	No	No
0	No	Yes
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No
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe

MH BG 151.09
MH SW 117.01
MH HP 220.01
MH HP 210.07
700 Tiburon Blvd.
137 Reed Blvd.
east strawberry
MH SW 120.01
MH HP 130.03
336 East Strawberry Dr.
129 Reed Blvd.
MH TG 240.09
MH TG 240.17
MH SW 412.09
MH SW 420.03
RH SW 141.07
MH TG 210.07
RH RR 242.21
MH HT 233.05 and MH HT 233.11
MH DM 250.19
MH BG 151.11
41 Mercury Ave.
26 Apollo
mh 427.37
MH SW 120.01
MH SW 412.11
MH TG 122.07
MH RR 264.13
MH SW 427.01
MH RR 262.01
MH SW 412.19
MH SW 423.09
MH TG 210.07
MH HP 220.07
RH SW 411.15
MH HT 210.05
Del Mar
279 Harbour Way South
13TH STREET & PENNSYLVANIA AVENUE
15TH STREET AND COSTA AVENUE
130 33RD STREET
2729 CUTTING BOULEVARD
709 TEWKSBURY AVENUE
668 Lassen Street
2314 MARICOPA
10823 SAN PABLO AVENUE
300 32nd Street
458 MOUNT STREET
456 27TH STREET
2017 CUTTING BOULEVARD
1689 REGATTA Boulevard
669 35TH STREET
40 WESTERN DRIVE
5216 WALL AVENUE
16 16TH STREET

37.89603	-122.49426	Marin
37.89122	122.50485	Marin
37.88071	122.50237	Marin
37.8825	-122.50274	Marin
37.88879	122.47829	Marin
37.89748	122.50776	Marin
37.88918	122.50362	Marin
37.89896	122.50444	Marin
37.89714	-122.49722	Marin
37.89062	122.50467	Marin
37.89787	-122.5087	Marin
37.89389	122.48407	Marin
37.8951	122.48251	Marin
37.89729	-122.49714	Marin
37.89993	122.49874	Marin
37.89814	122.50788	Marin
37.89508	-122.48662	Marin
37.89797	122.50948	Marin
37.8905	-122.47734	Marin
37.892	122.47681	Marin
37.89603	122.49445	Marin
37.90125	122.48743	Marin
37.90123	122.4855	Marin
37.90448	-122.49493	Marin
37.89888	-122.5044	Marin
37.89729	-122.49714	Marin
37.90005	-122.49052	Marin
37.9031	-122.51218	Marin
37.90195	-122.49644	Marin
37.90136	-122.51215	Marin
37.89585	-122.49603	Marin
37.90414	-122.50089	Marin
37.89481	-122.48721	Marin
37.88038	-122.50154	Marin
37.89852	-122.49797	Marin
37.8904	-122.47893	Marin
37.89451	-122.48156	Marin
37.93	-122.36	Contra Costa
37.933333	-122.35	Contra Costa
37.95	-122.35	Contra Costa
37.916667	-122.333333	Contra Costa
37.916667	-122.333333	Contra Costa
37.916667	-122.383333	Contra Costa
37.933333	-122.316667	Contra Costa
37.95	-122.35	Contra Costa
37.91	-122.31	Contra Costa
37.93467	-122.33844	Contra Costa
37.94	-122.32	Contra Costa
37.94	-122.34	Contra Costa
37.93	-122.35	Contra Costa
37.92	-122.35	Contra Costa
37.94	-122.33	Contra Costa
37.92148	-122.38691	Contra Costa
37.93	-122.32	Contra Costa
37.93	-122.35	Contra Costa

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Manhole in front of 6 Southridge East.
Manhole in front of 24 East Strawberry Drive.
Back yard of 24 Great Circle Way.
MH HP 210.07 across street from 10 Great Circle
behind tennis courts
behind house in easment

Manhole in east bound lane of Tiburon Blvd. Hwy 131

Start of run at Rodhole.Only one connection upstream of stoppage.
Backyard of 562 Tanaya Drive
Backyard of 26 Sutter Ct. in dirt yard area

Rod Hole in back yard of 144 Richardson Drive. Rod hole located in easement between upper and lower properties
Manhole in Stewart Drive at Tiburon Blvd.
Rod hole at beginning of sewer line. 1 or 2 houses upstream of blockage.
MH in street

Manhole on bank of hillside across from 6 Southridge East

middle of Tiburon Blvd.
spill was from a manhole behind the apartment buildind on a slope.
spill occured in the lowerportion of the residents backyard
the caller reported his sewer in the house was flowing slowly
spill was from a manhole in the middle of the street
weaping from a manhole cover
spill appeared at a 4 inch c.o. and was overflowing in the dirt floor basement area under the building and flow to a v ditch

parking lot in front of building
behind backyard fence in easment
Del Mar

MAINTENANCE HOLE OVERFLOW

NEXT TO MIDDLE SCHOOL

RESIDENTIAL

and was in a storm drain vault the vault

Manhole
Manhole
Manhole
Manhole
Force main or pressure sewer
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Gravity sewer
Manhole
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Manhole
Gravity sewer
Manhole
Manhole
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Manhole
Building or structure
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Gravity sewer
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Manhole
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)

water had come out if the manhole and was absorbed by the surrounding dirt
when we arrived onsite there was no water coming out of the manhole but the manhole was surcharged the street curb ar

water weaping from a manhole cover

Rodhole in front of building

Manhole
Sewage bubbled up through sidewalk

City sewage backed up through a private lateral and dischagred into basement of subject address.

THE OVERFLOW OCCURRED FROM A TOILET AT THE RESIDENCE DUE TO THE CITY'S MAIN BACKING UP (OBS

LATERAL

Separate storm drain;Street/curb and gutter
Street/curb and gutter
Unpaved surface
Separate storm drain
Unpaved surface
Unpaved surface
Unpaved surface
Surface water
Street/curb and gutter
Other paved surface;Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Separate storm drain
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Unpaved surface
Other paved surface;Street/curb and gutter
Street/curb and gutter;Unpaved surface
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other (specify below)
Unpaved surface
Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Beach;Storm drain
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Other paved surface
Unpaved surface
Other paved surface;Unpaved surface
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface
Other paved surface
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Street/curb and gutter
Beach;Other paved surface;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter

in backyard easment in a 6 inch sewer that serves just 4 homes

small spill in the middle of the highway the water evaporated before it could be returned to sewer
a portion of the spill was collected in a concrete gutter below the apartments. the remaing water was absorbed by the dry
spill was absorbed into the dirt around the manhole and there was no puddling of water to be returned to the system.
the spill was nothing more then a wet spot on the pavement from us opening the manhole
the spill entered a storm drain at the curb and filled the catch basin at the next storm drain cover but did not proceed fartl
water evaporated on pavement in street

off the edge of the pavement absorbed by the dirt

OVERFLOW DICHARGED FROM MH TO STEET, DOWNHILL TO PUBLIC PICNIC AREA/ACCESS ROAD AND PERC

2/11/2008 7:45	2/11/2008 8:15	2/11/2008 8:30	2/11/2008 8:45
2/11/2008 9:45	2/11/2008 10:00	2/11/2008 10:15	2/11/2008 10:30
4/15/2007 15:00	4/16/2007 7:00	4/16/2007 8:00	4/16/2007 9:15
3/5/2008 14:45	3/5/2008 14:50	3/5/2008 15:10	3/5/2008 15:15
3/20/2008 10:30	3/20/2008 10:30	3/20/2008 11:00	3/20/2008 11:15
3/25/2008 7:15	3/25/2008 7:15	3/25/2008 7:30	3/25/2008 10:30
4/15/2008 10:10	4/15/2008 10:10	4/15/2008 10:15	4/15/2008 11:00
5/11/2008 10:00	5/11/2008 10:00	5/11/2008 10:55	5/11/2008 13:20
5/19/2008 12:50	5/19/2008 12:55	5/19/2008 13:05	5/19/2008 13:15
6/16/2008 8:40	6/16/2008 8:40	6/16/2008 8:45	6/16/2008 8:55
6/28/2008 21:00	6/28/2008 21:10	6/28/2008 21:30	6/28/2008 23:00
8/12/2008 15:40	8/12/2008 15:50	8/12/2008 16:00	8/12/2008 16:10
8/21/2008 16:45	8/21/2008 17:00	8/21/2008 17:25	8/21/2008 18:00
9/15/2008 8:15	9/15/2008 8:18	9/15/2008 9:00	9/15/2008 9:45
9/17/2008 22:00	9/17/2008 22:00	9/17/2008 22:15	9/17/2008 22:30
10/9/2008 14:00	10/9/2008 14:30	10/9/2008 14:45	10/9/2008 15:00
10/16/2008 10:20	10/16/2008 10:25	10/16/2008 10:35	10/16/2008 11:00
11/12/2008 7:30	11/12/2008 7:40	11/12/2008 7:50	11/12/2008 8:05
11/24/2008 9:10	11/24/2008 9:15	11/24/2008 9:30	11/24/2008 10:30
12/1/2008 6:00	12/1/2008 12:15	12/1/2008 12:45	12/1/2008 13:30
12/22/2008 9:30	12/22/2008 9:40	12/22/2008 10:00	12/22/2008 10:25
1/2/2009 10:55	1/2/2009 10:55	1/2/2009 11:05	1/2/2009 11:20
1/10/2009 8:30	1/10/2009 8:30	1/10/2009 8:30	1/10/2009 9:00
5/7/2009 8:00	5/7/2009 8:00	5/7/2009 8:30	5/7/2009 9:00
5/21/2009 9:00	5/21/2009 9:00	5/21/2009 9:05	5/21/2009 9:15
8/1/2009 11:00	8/1/2009 17:50	8/1/2009 18:58	8/1/2009 19:30
8/8/2009 15:15	8/8/2009 15:30	8/8/2009 16:00	8/8/2009 17:10
9/29/2009 9:15	9/29/2009 9:20	9/29/2009 9:30	9/29/2009 9:45
10/3/2009 9:00	10/3/2009 9:05	10/3/2009 9:30	10/3/2009 9:35
12/31/2009 16:30	12/31/2009 16:30	12/31/2009 16:40	12/31/2009 17:00
5/3/2010 9:30	5/3/2010 11:30	5/3/2010 11:50	5/3/2010 12:20
7/11/2010 9:23	7/11/2010 9:23	7/11/2010 10:40	7/11/2010 10:50
10/29/2010 17:00	10/29/2010 17:00	10/29/2010 17:20	10/29/2010 17:45
2/27/2011 12:00	2/27/2011 1:45	2/27/2011 2:06	2/27/2011 3:15
12/14/2011 8:30	12/14/2011 8:30	12/14/2011 8:45	12/14/2011 9:00
6/18/2012 8:30	6/18/2012 8:00	6/18/2012 9:00	6/18/2012 10:00
4/14/2013 12:50	4/14/2013 12:50	4/14/2013 13:30	4/14/2013 14:45
6/12/2007 0:00	6/12/2007 14:43	6/12/2007 14:53	6/12/2007 15:10
6/18/2007 0:00	6/18/2007 9:50	6/18/2007 9:55	6/18/2007 10:05
6/29/2007 0:00	6/29/2007 9:30	6/29/2007 9:45	6/29/2007 10:30
7/30/2007 0:00	7/30/2007 9:04	7/30/2007 9:15	7/30/2007 9:40
8/16/2007 0:00	8/16/2007 10:50	8/16/2007 10:45	8/16/2007 11:00
8/30/2007 0:00	8/30/2007 10:30	8/30/2007 10:45	8/30/2007 11:00
9/3/2007 0:00	9/3/2007 13:15	9/3/2007 14:05	9/3/2007 14:15
9/6/2007 0:00	9/6/2007 9:15	9/6/2007 9:25	9/6/2007 9:45
9/14/2007 0:00	9/14/2007 14:00	9/14/2007 14:15	9/14/2007 14:30
9/21/2007 0:00	9/21/2007 12:30	9/21/2007 12:35	9/21/2007 12:45
9/25/2007 0:00	9/25/2007 8:20	9/25/2007 8:30	9/25/2007 8:30
10/1/2007 0:00	10/1/2007 10:45	10/1/2007 10:50	10/1/2007 11:00
10/1/2007 0:00	10/1/2007 7:40	10/1/2007 7:45	10/1/2007 7:55
10/15/2007 0:00	10/15/2007 10:00	10/15/2007 10:10	10/15/2007 10:30
10/28/2007 0:00	10/28/2007 14:45	10/28/2007 15:30	10/28/2007 15:45
10/21/2007 0:00	10/21/2007 9:20	10/21/2007 9:50	10/21/2007 9:50
11/13/2007 0:00	11/13/2007 8:35	11/13/2007 8:50	11/13/2007 8:50
11/16/2007 0:00	11/16/2007 17:10	11/16/2007 18:00	11/16/2007 19:00

Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Pipe structural problem/failure
Root intrusion
Grease deposition (FOG)
Root intrusion
Debri-General
Grease deposition (FOG)
Other (specify below)
Other (specify below)
Root intrusion
Other (specify below)
Other (specify below)
Debris
Other (specify below)
Root intrusion
Root intrusion
Other (specify below)
Other (specify below)
Grease deposition (FOG)
Root intrusion
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Other (specify below)
Debri-General
Debri-Rags
Debri-Rags
Root intrusion
Debri-General
Debri-Rags
Root intrusion
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Pipe structural problem/failure
Root intrusion
Pipe structural problem/failure
Debris
Debris
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)

Root ball from private lateral at mouth of manhole exit pipe

Stoppage was caused by a bunch of hand towels.
Mouth of exit pipe from manhole plugged by root ball, debris that lodged in mouth of pipe.

roots and paper are to blame for this spill
roots and residential grease are to blame for this spill
Appeared to be handi wipes or other debris.
Handiwipes and roots

Combination of roots, grease, debris
Grease, paper
Most likely a root ball from house lateral not trapped by private cleaning firm, blockage at mouth of pipe leaving manhole

handi wipes

the spill was caused by a root ball growing from inside a private lateral that ties into the manhole the roots grew into the fl
there was a small amount of roots in the line causing a partial stoppage that was slowing the flow of sewage. the only wat
the spill was caused by the pavement rehab contractor depositing a large piece of plastic sheeting used to protect the ma
there is private construction upstream of stoppage location that may have produced the debris gravel in our gravity main.

the 8 inch sewer had a ball of painters rags in the flow line causing a partial stoppage where by the majority of the flow wa

Root ball
May be poorly operating private lateral under sidewalk

MANHOLE IS NEAR A CONSTRUCTION SITE, AND CONSTRUCTION DEBRIS WAS FOUND IN THE SANITARY SEV

ROOTS, BROKEN PIPE & LARGE OFFSET
DISCHARGE HAD ALREADY CEASED WHEN SEWER CREW ARRIVED ON SCENE.
GREASE BLOCKAGE IN CITY'S SANITARY SEWER MAIN FROM RESIDENCE.

Main

Main

Main

Main

Main
Main

Main

Main
Main
Main
Main
Main

Main
Main
Main
Main

Main
Main
Main
Main
Other (specify below)

Main

VER LINE.

Main

spill caused by roots growing in the main from the lateral connection.

Manhole

6
6
8 HDPE

6 cast iron
6 VCP

6 VCP
6 cast iron
6
6 VCP
6 vcp
8 vcp
6

6 VCP
6 VCP
6
6 vcp
6 Clay
6 clay
6 vcp
8 VCP
6 VCP
6 plastic
6 vcp
8 vcp
6 vcp
6 vcp
8 vcp
6 VCP
6 vcp

6 vcp
6 vcp

35

30

50

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54
54

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62
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8
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55
55
55

55
60

Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
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Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Returned all or por
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Inspected sewer using CCTV to determine cause;Restored flow;Returned all or portion of spill to sanitary sewer system
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit

Cleaned up area, removed small amount of sewage from curb and gutter, applied bleach solution.

Sprayed wet spot on street with Bleach.
Vactor was used to remove affected materials and hauled to appropriate disposal site.

Vactored out storm drain and hydro cleaned storm drain and curb and gutter

we hydroflushed and vactored out the contacted storm drain pipes and catch basins that are approx. 100 feet apart and w

cleared stoppage washed asphalt back into sewer and the dirt absorbed the remaing

COUNDUCTED PUBLIC OUTREACH WITH DOOR HANGERS AND SCRAPPERS IN UPSTREAM NEIGHBORHOOD.
ON 8/30/07 THE CITY'S INDUSTRIAL PRETREATMENT PROGRAM DID PUBLIC OUTREACH TO 14 RESIDENTIAL U

REMOVED DEBRIS FROM SANITARY SEWER LINE AND ADDRESSED ISSUE WITH CONTRACTOR CONDUCTING

2/11/2008 9:15

3/5/2008 15:30

5/11/2008 14:30

10/16/2008 11:45

11/24/2008 12:30

1/2/2009 11:30

5/3/2010 12:45

6/18/2007 12:00

Added sewer to preventive maintenance program

Other (specify below)

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program;Other (specify below)

Adjusted schedule/method of preventive maintenance

Other (specify below)

Other (specify below)

Adjusted schedule/method of preventive maintenance;Other (specify below)

Discussed need for trapping of roots from private lateral spill with Roto Rooter.

Will CCTV line.

spill was caused by property owner at 29 mercury cleaning private lateral and pushed grease into main.the homeowner at

no corrective action taken as the source of the spill is out of the districts control.

CONDUCTED PUBLIC OUTREACH BY DEPLOYING 66 FOG DOORHANGERS AND FOOD/GREASE SCRAPERS TO

No

No

Yes

No

No

No

No

No

No visual impact on receiving waters. Discharge was at a rate of about 1 to 3 GPM.

No

No

Yes

No

No

No

No

No

NA

NA

NA

NA

NA

NA

NA

NA

NA

Richardson Bay

Richardson Bay

Salt Works drainage channel which empties into Richardson Bay.

Richardson Bay

Richardson Bay

NA

NA

NONE
none
none the spill was in the parking lot and was entirely reyurned to the main.
no impact to surface water the spill was absorbed by the ground.
richardson bay

NA

None

None

Not applicable to this spill

Not applicable to this spill

Biological indicator(s) - specify below

No water quality samples taken;Not applicable to this spill

No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Coliform

None of the above

Not applicable to this spill

None of the above

No water quality samples taken

No water quality samples taken

Not applicable to this spill

None of the above

Not applicable to this spill

Samples taken to Sewerage Agency of Southern Marin laboratory.

83418 5/11/2008 13:55

73674 6/18/2007 13:46

2SSO10170	Active	707952	Bill Lindsay	Certified
2SSO10170	Active	708553	Bill Lindsay	Certified
2SSO10170	Active	708902	BILL LINDSAY	Certified
2SSO10170	Active	708903	BILL LINDSAY	Certified
2SSO10170	Active	709535	BILL LINDSAY	Certified
2SSO10170	Active	710251	BILL LINDSAY	Certified
2SSO10170	Active	710252	BILL LINDSAY	Certified
2SSO10170	Active	710773	Bill Lindsay	Certified
2SSO10170	Active	710788	BILL LINDSAY	Certified
2SSO10170	Active	710825	BILL LINDSAY	Certified
2SSO10170	Active	710834	BILL LINDSAY	Certified
2SSO10170	Active	710844	BILL LINDSAY	Certified
2SSO10170	Active	711054	Bill Lindsay	Certified
2SSO10170	Active	711149	Bill Lindsay	Certified
2SSO10170	Active	711150	Bill Lindsay	Certified
2SSO10170	Active	711732	Bill Lindsay	Certified
2SSO10170	Active	711851	Bill Lindsay	Certified
2SSO10170	Active	711854	Bill Lindsay	Certified
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2SSO10170	Active	711856	Bill Lindsay	Certified
2SSO10170	Active	711857	Bill Lindsay	Certified
2SSO10170	Active	711859	BILL LINDSAY	Certified
2SSO10170	Active	711955	Bill Lindsay	Certified
2SSO10170	Active	712811	Bill Lindsay	Certified
2SSO10170	Active	712817	Bill Lindsay	Certified
2SSO10170	Active	712819	Bill Lindsay	Certified
2SSO10170	Active	712820	Bill Lindsay	Certified
2SSO10170	Active	712824	Bill Lindsay	Certified
2SSO10170	Active	712832	Mary Phelps	Certified
2SSO10170	Active	714863	BILL LINDSAY	Certified
2SSO10170	Active	714864	BILL LINDSAY	Certified
2SSO10170	Active	715109	BILL LINDSAY	Certified
2SSO10170	Active	715110	Bill Lindsay	Certified
2SSO10170	Active	715142	Bill Lindsay	Certified
2SSO10170	Active	715162	Bill Lindsay	Certified
2SSO10170	Active	715176	Bill Lindsay	Certified
2SSO10170	Active	715194	Bill Lindsay	Certified
2SSO10170	Active	715195	Bill Lindsay	Certified
2SSO10170	Active	715198	Bill Lindsay	Certified
2SSO10170	Active	715199	Bill Lindsay	Certified
2SSO10170	Active	715202	Bill Lindsay	Certified
2SSO10170	Active	715204	Bill Lindsay	Certified
2SSO10170	Active	715205	Bill Lindsay	Certified
2SSO10170	Active	715206	Bill Lindsay	Certified
2SSO10170	Active	715242	Bill Lindsay	Certified
2SSO10170	Active	716081	BILL LINDSAY	Certified
2SSO10170	Active	716288	BILL LINDSAY	Certified
2SSO10170	Active	718821	BILL LINDSAY	Certified
2SSO10170	Active	718829	BILL LINDSEY	Certified
2SSO10170	Active	721148	BILL LINDSAY	Certified
2SSO10170	Active	721926	BILL LINDSAY	Certified
2SSO10170	Active	727225	Bill Lindsay	Certified
2SSO10170	Active	728147	Bill Lindsay	Certified
2SSO10170	Active	733187	BILL LINDSAY	Certified
2SSO10170	Active	733497	BILL LINDSAY	Certified

City Manager
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Richmond, CA	914309
Richmond, CA	487413
RICHMOND	704162
RICHMOND	838047
RICHMOND	582689
RICHMOND	173165
RICHMOND	467733
Richmond, CA	844807
RICHMOND	930733
RICHMOND	282078
RICHMOND	537093
RICHMOND	222321
Richmond	324817
Richmond, CA	375131
Richmond, CA	239262
Richmond, CA	520747
Richmond, CA	261498
Richmond, CA	746782
Richmond, CA	551004
Richmond, CA	189851
Richmond, CA	709590
RICHMOND	864841
Richmond, CA	984748
Richmond	483106
Richmond, CA	491069
Richmond, CA	883791
Richmond, CA	917017
Richmond, CA	772140
Richmond, CA	553254
RICHMOND	265943
RICHMOND	676098
RICHMOND	499428
Richmond, CA	973683
Richmond, CA	431601
Richmond, CA	986651
Richmond, CA	544962
Richmond, CA	541187
Richmond, CA	994479
Richmond, CA	229972
Richmond, CA	925692
Richmond, CA	723042
Richmond, CA	192307
Richmond, CA	762415
Richmond, CA	605425
Richmond, CA	539822
RICHMOND, CA	900385
RICHMOND, CA	620393
RICHMOND, CA	204514
RICHMOND, CA	890365
RICHMOND	584608
RICHMOND	632882
City of Richmond	842662
City of Richmond	222457
CITY OF RICHMOND	176094
CITY OF RICHMOND	752069

20-Nov-07	30-Nov-07	11/30/2007
30-Nov-07	30-Nov-07	11/30/2007
10-Dec-07	21-Feb-08	2/21/2008
10-Dec-07	21-Feb-08	2/21/2008
14-Dec-07	21-Feb-08	2/21/2008
24-Dec-07	21-Feb-08	2/21/2008
24-Dec-07	21-Feb-08	2/21/2008
7-Jan-08	15-Feb-08	2/15/2008
7-Jan-08	21-Feb-08	2/21/2008
7-Jan-08	21-Feb-08	2/21/2008
7-Jan-08	21-Feb-08	2/21/2008
7-Jan-08	21-Feb-08	2/21/2008
9-Jan-08	15-Feb-08	2/15/2008
11-Jan-08	5-Feb-08	12/3/2010
11-Jan-08	5-Feb-08	12/2/2010
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	5-Feb-08	2/5/2008
25-Jan-08	3-Mar-08	3/3/2008
28-Jan-08	5-Feb-08	2/5/2008
13-Feb-08	15-Feb-08	2/15/2008
14-Feb-08	15-Feb-08	2/15/2008
14-Feb-08	15-Feb-08	2/15/2008
14-Feb-08	3-Mar-08	12/2/2010
14-Feb-08	15-Feb-08	12/3/2010
14-Feb-08	15-Feb-08	10/25/2011
13-Mar-08	31-Mar-08	3/31/2008
13-Mar-08	31-Mar-08	3/31/2008
20-Mar-08	31-Mar-08	3/31/2008
20-Mar-08	31-Mar-08	12/3/2010
21-Mar-08	31-Mar-08	12/3/2010
21-Mar-08	31-Mar-08	12/3/2010
21-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/2/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
24-Mar-08	31-Mar-08	12/3/2010
11-Apr-08	4-Jun-08	6/4/2008
18-Apr-08	4-Jun-08	6/4/2008
4-Jun-08	4-Jun-08	6/4/2008
4-Jun-08	4-Jun-08	6/4/2008
1-Jul-08	4-Sep-08	9/4/2008
9-Jul-08	4-Sep-08	9/4/2008
1-Oct-08	7-Jan-09	1/7/2009
20-Oct-08	7-Jan-09	1/7/2009
5-Feb-09	18-Mar-09	3/18/2009
12-Feb-09	18-Mar-09	3/18/2009

Category 3	30	30
Category 3	15	15
Category 3	15	15
Category 3	100	100
Category 3	30	30
Category 3	5	5
Category 3	750	750
Category 1	529214	0
Category 1	11700	0
Category 1	28500	0
Category 1	29000	0
Category 1	4125	0
Category 3	100	100
Category 1	1	0
Category 1	1	0
Category 3	30	0
Category 1	126000	0
Category 1	84000	0
Category 1	105000	0
Category 1	101400	0
Category 1	117000	0
Category 1	1221925	0
Category 1	5100	0
Category 3	10	10
Category 3	30	30
Category 3	90	20
Category 3	1	1
Category 1	1	0
Category 3	45	45
Category 3	25	25
Category 3	300	300
Category 3	10	0
Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	1	1
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Category 3	1	1
Category 3	10	10
Category 3	1	1
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Category 3	1	1
Category 3	1	1
Category 3	1	1
Category 3	5	5
Category 3	60	60
Category 3	30	30
Category 3	30	30
Category 3	300	300
Category 3	50	50
Category 3	1	1
Category 3	40	40
Category 3	50	50
Category 3	40	40

	No	No
	No	No
	No	No
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	No	No
529214	Yes	Yes
11700	Yes	Yes
28500	Yes	Yes
29000	Yes	Yes
4125	Yes	Yes
	No	No
1	Yes	Yes
1	Yes	Yes
	No	No
126000	Yes	Yes
84000	Yes	Yes
105000	Yes	Yes
101400	Yes	Yes
117000	Yes	Yes
1221925	Yes	Yes
5100	Yes	Yes
	No	No
	No	No
	No	No
0	No	No
1	Yes	Yes
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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3824 MCBRYDE AVENUE
4601 FALL AVENUE
10837 SAN PABLO AVENUE
646 20TH STREET
1612 Bissel Avenue
505 CLARENCE STREET
310 19TH STREET
HARBOUR WAY SOUTH AND WRIGHT AVENUE OVERFLOW WEIR
INTERSECTION OF 23RD STREET AND CUTTING BOULEVARD
INTERSECTION OF 33RD STREET AND LEONA STREET
INTERSECTION OF SAN PABLO AVENUE AND I-80 OVERPASS
INTERSECTION OF KEY BOULEVARD AND MACDONALD AVENUE
1601 MACDONALD AVENUE
INTERSECTIONS OF ROOSEVELT AVE AND WILSON AVENUE
2824 REGATTA BOULEVARD
1336 SOUTH 49TH
INTERSECTION OF I-80 OVERPASS AND SAN PABLO AVENUE NORTHEAST
INTERSECTION OF WILSON AVENUE AND ROOSEVELT AVENUE
LEONA AVENUE AND 33RD STREET
INTERSECTION OF I-80 OVERPASS AND SAN PABLO AVENUE SOUTHEAST
INTERSECTION OF 23RD STREET AND CUTTING BOULEVARD
INTERSECTION OF HARBOUR WAY SOUTH AND WRIGHT AVENUE
INTERSECTION OF 13TH STREET AND DUNN AVENUE
456 27TH STREET
2323 BARRETT AVENUE
161 BERK PLACE
121 SANTA FE AVENUE
2824 REGATTA BOULEVARD
SANITARY SEWER EASEMENT ON CONTRA COSTA COUNTY COURTHOUSE PROPERTY
1801 HELLINGS AVENUE
1423 HELLINGS AVENUE
441 SOUTH 17TH STREET
669 YUBA STREET
INTERSECTION OF LEONA AVENUE AND 33RD STREET
420 RIPLEY AVENUE
330 33RD STREET
1811 RHEEM AVENUE
651 11TH STREET
INTERSECTION OF MAINE AVENUE & MARINA WAY SOUTH
2108 CUTTING BOULEVARD
3625 MACDONALD AVENUE
3516 MACDONALD AVENUE
2730 MAINE AVENUE
1525 HAYES STREET
1324 MAINE AVENUE
2951 HOFFMANN BOULEVARD
2571 HINKLEY AVENUE
1700 BURBECK AVENUE
1705 BURBECK AVENUE
2343 RHEEM AVENUE
2322 MARICOPA AVENUE
818 Lucas Avenue
213 BARRETT AVENUE
KELLER BEACH PARK
2230 KEY BOULEVARD

37.95	-122.33	Contra Costa
37.92	-122.33	Contra Costa
37.91	-122.31	Contra Costa
37.94	-122.35	Contra Costa
37.93	-122.35	Contra Costa
37.93	-122.39	Contra Costa
37.94	-122.35	Contra Costa
37.92	-122.36	Contra Costa
37.93	-122.35	Contra Costa
37.93	-122.34	Contra Costa
37.94	-122.33	Contra Costa
37.93	-122.32	Contra Costa
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37.93	-122.39	Contra Costa
37.91	-122.34	Contra Costa
37.93218	-122.33341	Contra Costa
37.95	-122.35	Contra Costa
37.95	-122.36	Contra Costa
37.93	-122.35	Contra Costa
37.94	-122.32	Contra Costa
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37.94	-122.35	Contra Costa
37.95	-122.35	Contra Costa
37.95	-122.35	Contra Costa
37.944429	-122.361223	Contra Costa
37.94	-122.37	Contra Costa
37.921148	-122.385806	Contra Costa
37.93	-122.32	Contra Costa

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IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBS
IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OBS

AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOR
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Residential Home
RESIDENTIAL

SERVED DISCHARGING. THE MANH(
SERVED DISCHARGING. THE MANH(

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Other (specify)
Manhole
Manhole
Manhole
Manhole
Building or structure
Manhole
Other sewer system structure
Manhole
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Building or structure
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Other sewer system structure
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Other (specify)
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Building or structure
Building or structure
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Building or structure
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Manhole
Other (specify)

PRIVATE LATERAL OVERFLOWED DUE TO BLOCKAGE IN CITY'S SANITARY SEWER MAIN.

ENGINEERED STRUCTURE FOR THE PRESSURE RELIEF OF SEWAGE WHEN THE INFLUENT IS GREATER THAI

THE AMOUNT DISCHARGED IS UNKNOWN
-

ENGINEERED OVERFLOW WEIR

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/25/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OB:

CRACKS IN THE CURB AND GUTTER

AFTER AUDITING OUR SSO RECORDS, IT WAS DETERMINED THAT THESE WERE AN SSO BY THE WDR REPOI
SINKHOLE

STREET CRACKS

MH# 090335
PRIVATE LATERAL

Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface;Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Surface water
Surface water
Surface water
Surface water
Surface water
Storm drain
Separate storm drain
Separate storm drain
Building or structure
Storm drain
Storm drain
Storm drain
Storm drain
Storm drain
Surface water
Storm drain
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Separate storm drain
Other paved surface
Street/curb and gutter
Other (specify below)
Street/curb and gutter
Other paved surface
Street/curb and gutter
Building or structure
Building or structure
Street/curb and gutter
Building or structure
Unpaved surface
Street/curb and gutter
Building or structure
Building or structure
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Storm drain
Building or structure
Building or structure
Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Other paved surface;Unpaved surface
Street/curb and gutter

SEWAGE ENTERED THE STORM DRAIN AND WAS CONTAINED AND CAPTURED IN A PUMP STATION WET WEL
IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OB

THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WI

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/25/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OB

CATCH BASIN

EASEMENT

BACK YARD

11/16/2007 0:00	11/16/2007 10:00	11/16/2007 10:15	11/16/2007 10:30
11/28/2007 0:00	11/28/2007 8:30	11/28/2007 8:40	11/28/2007 8:45
12/7/2007 0:00	12/7/2007 13:30	12/7/2007 13:45	12/7/2007 14:00
12/7/2007 0:00	12/7/2007 7:00	12/7/2007 7:20	12/7/2007 9:00
12/14/2007 0:00	12/14/2007 8:15	12/14/2007 8:30	12/14/2007 8:45
12/11/2007 0:00	12/11/2007 15:00	12/11/2007 15:30	12/11/2007 15:30
12/23/2007 0:00	12/23/2007 15:00	12/23/2007 15:05	12/23/2007 15:15
1/4/2008 0:00	1/4/2008 8:40	1/4/2008 8:20	1/4/2008 14:38
1/4/2008 0:00	1/4/2008 8:45	1/4/2008 8:45	1/4/2008 14:15
1/4/2008 0:00	1/4/2008 9:00	1/4/2008 9:00	1/4/2008 14:00
1/4/2008 0:00	1/4/2008 9:15	1/4/2008 9:15	1/4/2008 14:25
1/4/2008 0:00	1/4/2008 11:00	1/4/2008 11:00	1/4/2008 13:45
1/2/2008 0:00	1/2/2008 14:00	1/2/2008 14:15	1/2/2008 14:25
1/4/2008 0:00	1/9/2008 11:00	1/9/2008 11:00	1/4/2008 0:00
1/4/2008 0:00	1/10/2008 10:00	1/10/2008 10:00	1/4/2008 0:00
1/14/2008 0:00	1/14/2008 12:00	1/14/2008 12:15	1/14/2008 12:20
1/25/2008 0:00	1/25/2008 14:00	1/25/2008 14:00	1/26/2008 3:40
1/25/2008 0:00	1/25/2008 14:00	1/25/2008 14:00	1/26/2008 3:45
1/25/2008 0:00	1/25/2008 14:18	1/25/2008 14:18	1/26/2008 3:30
1/25/2008 0:00	1/25/2008 16:30	1/25/2008 16:30	1/26/2008 3:40
1/25/2008 0:00	1/25/2008 14:00	1/25/2008 14:00	1/26/2008 3:00
1/25/2008 0:00	1/25/2008 14:45	1/25/2008 14:45	1/26/2008 2:20
1/26/2008 0:00	1/26/2008 11:30	1/26/2008 11:30	1/27/2008 16:30
1/28/2008 0:00	1/28/2008 11:00	1/28/2008 11:10	1/28/2008 11:20
2/12/2008 0:00	2/12/2008 10:15	2/12/2008 10:30	2/12/2008 10:45
2/8/2008 0:00	2/8/2008 8:20	2/8/2008 8:30	2/8/2008 9:50
2/5/2008 0:00	2/5/2008 3:15	2/5/2008 3:15	2/5/2008 0:00
1/25/2008 0:00	2/8/2008 10:00	2/8/2008 10:00	1/26/2008 0:00
2/13/2008 0:00	2/13/2008 12:00	2/13/2008 12:05	2/13/2008 12:15
3/7/2008 0:00	3/7/2008 14:47	3/7/2008 18:00	3/7/2008 18:10
3/10/2008 0:00	3/10/2008 8:00	3/10/2008 8:00	3/10/2008 8:20
6/6/2007 0:00	6/6/2007 9:00	6/6/2007 9:30	6/6/2007 10:30
7/18/2007 0:00	7/18/2007 11:07	7/18/2007 15:15	7/18/2007 15:45
12/19/2007 0:00	12/19/2007 11:20	12/19/2007 11:30	12/19/2007 12:00
8/20/2007 0:00	8/20/2007 11:00	8/20/2007 11:30	8/20/2007 12:00
10/10/2007 0:00	10/10/2007 21:25	10/10/2007 22:00	10/10/2007 22:30
10/23/2007 0:00	10/23/2007 9:01	10/23/2007 9:15	10/23/2007 9:30
10/29/2007 0:00	10/29/2007 10:51	10/29/2007 11:15	10/29/2007 11:30
12/9/2007 0:00	12/9/2007 15:20	12/9/2007 15:45	12/9/2007 16:15
12/9/2007 0:00	12/9/2007 16:20	12/9/2007 16:35	12/9/2007 17:00
12/19/2007 0:00	12/19/2007 15:00	12/19/2007 15:15	12/19/2007 15:30
12/20/2007 0:00	12/20/2007 13:10	12/20/2007 13:25	12/20/2007 13:40
12/27/2007 0:00	12/27/2007 9:17	12/27/2007 9:35	12/27/2007 9:50
12/29/2007 0:00	12/29/2007 2:59	12/29/2007 3:45	12/29/2007 4:15
12/9/2007 0:00	12/9/2007 15:00	12/9/2007 15:15	12/9/2007 15:30
4/6/2008 0:00	4/6/2008 14:30	4/6/2008 15:00	4/6/2008 14:27
4/17/2008 0:00	4/17/2008 17:00	4/17/2008 17:15	4/17/2008 17:30
5/31/2008 0:00	5/31/2008 16:15	5/31/2008 17:10	5/31/2008 17:20
5/31/2008 0:00	5/31/2008 16:15	5/31/2008 17:10	5/31/2008 17:20
6/29/2008 0:00	6/29/2008 21:28	6/29/2008 10:00	6/29/2008 22:30
7/7/2008 0:00	7/8/2008 9:10	7/8/2008 9:15	7/8/2008 9:30
9/25/2008 0:00	9/25/2008 11:10	9/25/2008 11:10	9/25/2008 11:10
10/12/2008 0:00	10/12/2008 12:00	10/12/2008 12:30	10/12/2008 12:45
2/4/2009 0:00	2/4/2009 9:08	2/4/2009 9:12	2/4/2009 9:30
2/9/2009 0:00	2/9/2009 15:20	2/9/2009 16:00	2/9/2009 15:40

Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Grease deposition (FOG)
Flow exceeded capacity (Seperate CS Only)
Flow exceeded capacity (Seperate CS Only)
Other (specify below)
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Flow exceeded capacity (Seperate CS Only)
Other (specify below)
Debris
Debris
Grease deposition (FOG)
Root intrusion
Debri-General
Other (specify below)
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Debris
Other (specify below)
Debris
Debris
Grease deposition (FOG)
Pipe structural problem/failure
Grease deposition (FOG)
Debris
Debri-General
Debri-General

NEAR RESIDENTIAL AREA
Residential area.

SEWAGE BACKED UP INTO RESIDENCE DUE TO ROOT BLOCKAGE IN CITY'S MAIN. EVENT WAS OVER WHEN

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/04/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OB
SHOP TOWELS
THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WI
THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WI

THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WI
THE DISCHARGE WAS DUE TO A 5.7 FOOT HIGH TIDE AT 1325 PM, AND AVERAGE OF 1.52 INCHES OF RAIN WI

RESIDENTIAL GREASE COLLECTED ON ROOTS.

IT IS ESTIMATED THIS OVERFLOW OCCURRED ON 1/25/08 DURING A 2 YEAR STORM EVENT. IT WAS NOT OB
SHOP RAGS, AND PAPER TOWELS FROM JAIL

UNKNOWN--OCCURRED WHILE CLEANING MAIN LINE.
UNKNOWN

UNKNOWN

UNKNOWN BLOCKAGE
UNKNOWN
UNKNOWN
UNKNOWN SOFT BLOCKAGE
UNKNOWN BLOCKAGE

UNKNOWN
PRIVATE LATERAL CONNECTION CAUSES DEBRIS TO COLLECT BY RESTRICTING FLOW IN THE MAIN.
PRIVATE LATERAL CONNECTION CAUSES DEBRIS TO COLLECT BY RESTRICTING FLOW IN THE MAIN.
RESIDENTIAL AREA

CITY'S MAIN WAS BLOCKED CAUSING BACKUP AND DISCHARGE FROM PRIVATE LATERAL

CREW ARRIVED.

Main
Main

THIN 24 HOURS. ALL CONTRIBUTING TO IN
THIN 24 HOURS. ALL CONTRIBUTING TO IN

THIN 24 HOURS. ALL CONTRIBUTING TO IN
THIN 24 HOURS. ALL CONTRIBUTING TO IN

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IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF
IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF

IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF
IFILTRATION AND INFLOW INTO THE SANITARY SEWER COLLECTION SYSTEM. THE POTW WAS BLENDING PF

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RIOR TO THIS EVENT THE

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Other (specify below)
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R

OBSERVED DISCHARGE. DISCHARGE TIMES AND AMOUNT IS ELECTRONICALLY RECORDED.
OBSERVED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE

REPORTED DISCHARGE TO CIWQS
REPORTED TO CIWQS

MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE
OBSERVED DISCHARGE

REPORTED TO CIWQS

EAST BAY REGIONAL PARKS POSTED KEEP OUT SIGNS AND COLLECTED A TOTAL COLLIFORM SAMPLE.

1/4/2008 14:38
1/4/2008 14:15
1/4/2008 14:00
1/4/2008 14:25
1/4/2008 13:45

1/9/2008 11:00
1/10/2008 11:00

1/26/2008 3:40
1/26/2008 3:45
1/26/2008 3:30
1/26/2008 3:40
1/26/2008 3:00
1/26/2008 2:20
1/27/2008 16:30

2/8/2008 0:00

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Other (specify below)
Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Other (specify below)

ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.
ONGOING IMPROVEMENTS WITH CIP (BOND) FUNDS.

REPORTED TO CIWQS
REPORTED TO CIWQS

REPORTED TO CIWQS

No
No
No
No
Yes

No
No

No
Yes
Yes
Yes
Yes
Yes
Yes

No

THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.
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THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.

THE DISCHARGE IS PRIMARILY GROUND AND STORM WATERS.

REPORTED TO CIWQS

No
No
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Unknown

SANTA FE CHANNEL
San Francisco Bay
SANTA FE CHANNEL
SANTA FE CHANNEL
SANTA FE CHANNEL

SANTA FE CHANNEL
San Francisco Bay

SAN FRANCISCO BAY
SAN FRANCISCO BAY
San Franciso Bay
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY

San Pablo Bay

Not applicable to this spill
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Not applicable to this spill

Not applicable to this spill

80055	1/4/2008 9:17
80101	1/4/2008 17:02
80056	1/4/2008 9:25
80057	1/4/2008 9:35
80102	1/4/2008 17:05

80713	1/25/2008 16:45
80715	1/25/2008 16:45
80716	1/25/2008 16:45
80714	1/25/2008 16:45
80720	1/25/2008 17:30
80721	1/25/2008 17:30
80859	1/28/2008 14:30

82868	4/17/2008 18:50

2SSO10170	Active	733997	BILL LINDSAY	Certified
2SSO10170	Active	734011	BILL LINDSAY	Certified
2SSO10170	Active	734468	BILL LINDSAY	Certified
2SSO10170	Active	734493	BILL LINDSAY	Certified
2SSO10170	Active	734629	BILL LINDSAY	Certified
2SSO10170	Active	734630	BILL LINDSAY	Certified
2SSO10170	Active	737194	Bill Lindsay	Certified
2SSO10170	Active	737804	BILL LINDSAY	Certified
2SSO10170	Active	739552	BILL LINDSAY	Certified
2SSO10170	Active	743048	BILL LINDSAY	Certified
2SSO10170	Active	743256	BILL LINDSAY	Certified
2SSO10170	Active	744322	BILL LINDSAY	Certified
2SSO10170	Active	744327	BILL LINDSAY	Certified
2SSO10170	Active	744484	BILL LINDSAY	Certified
2SSO10170	Active	744946	BILL LINDAY	Certified
2SSO10170	Active	745614	BILL LINDSAY	Certified
2SSO10170	Active	745781	BILL LINDSAY	Certified
2SSO10170	Active	745782	BILL LINDSAY	Certified
2SSO10170	Active	745977	BILL LINDSAY	Certified
2SSO10170	Active	746399	BILL LINDSAY	Certified
2SSO10170	Active	747127	BILL LINDSAY	Certified
2SSO10170	Active	747247	BILL LINDSAY	Certified
2SSO10170	Active	748234	BILL LINDSAY	Certified
2SSO10170	Active	748265	BILL LINDSAY	Certified
2SSO10170	Active	748403	BILL LINDSAY	Certified
2SSO10170	Active	748405	BILL LINDSAY	Certified
2SSO10170	Active	748415	BILL LINDSAY	Certified
2SSO10170	Active	748426	BILL LINDSAY	Certified
2SSO10170	Active	748430	BILL LINDSAY	Certified
2SSO10170	Active	748434	BILL LINDSAY	Certified
2SSO10170	Active	748439	BILL LINDSAY	Certified
2SSO10170	Active	748440	BILL LINDSAY	Certified
2SSO10170	Active	748445	BILL LINDSAY	Certified
2SSO10170	Active	748446	BILL LINDSAY	Certified
2SSO10170	Active	748448	BILL LINDSAY	Certified
2SSO10170	Active	748454	BILL LINDSAY	Certified
2SSO10170	Active	748456	BILL LINDSAY	Certified
2SSO10170	Active	748458	BILL LINDSAY	Certified
2SSO10170	Active	748473	BILL LINDSAY	Certified
2SSO10170	Active	748489	BILL LINDSAY	Certified
2SSO10170	Active	748492	BILL LINDSAY	Certified
2SSO10170	Active	748494	BILL LINDSAY	Certified
2SSO10170	Active	748496	BILL LINDSAY	Certified
2SSO10170	Active	748499	BILL LINDSAY	Certified
2SSO10170	Active	748500	BILL LINDSAY	Certified
2SSO10170	Active	748501	BILL LINDSAY	Certified
2SSO10170	Active	748684	BILL LINDSAY	Certified
2SSO10170	Active	748686	BILL LINDSAY	Certified
2SSO10170	Active	748694	BILL LINDSAY	Certified
2SSO10170	Active	748699	BILL LINDSAY	Certified
2SSO10170	Active	748705	BILL LINDSAY	Certified
2SSO10170	Active	748729	BILL LINDSAY	Certified
2SSO10170	Active	748730	BILL LINDSAY	Certified
2SSO10170	Active	748735	Bill Lindsay	Certified
2SSO10170	Active	748857	BILL LINDSAY	Certified

CITY MANAGER
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CITY OF RICHMOND	955733
CITY OF RICHMOND	384820
CITY OF RICHMOND	998378
CITY OF RICHMOND	468380
CITY OF RICHMOND	384709
CITY OF RICHMOND	132961
City of Richmond	743381
RICHMOND, CA	206643
RICHMOND, CA	232913
CITY OF RICHMOND	356447
CITY OF RICHMOND	167332
CITY OF RICHMOND	983159
CITY OF RICHMOND	622597
CITY OF RICHMOND	841132
CITY OF RICHMOND	912743
CITY OF RICHMOND	730594
CITY OF RICHMOND	371365
CITY OF RICHMOND	485589
CITY OF RICHMOND	167897
RICHMOND, CA	460994
RICHMOND, CA	769665
RICHMOND, CA	723400
RICHMOND, CA	198814
RICHMOND, CA	496768
CITY OF RICHMOND	167783
CITY OF RICHMOND	565994
CITY OF RICHMOND	207527
CITY OF RICHMOND	959558
CITY OF RICHMOND	125755
CITY OF RICHMOND	499675
CITY OF RICHMOND	350672
CITY OF RICHMOND	816660
CITY OF RICHMOND	539719
CITY OF RICHMOND	677546
CITY OF RICHMOND	798436
CITY OF RICHMOND	905688
CITY OF RICHMOND	129664
CITY OF RICHMOND	128018
CITY OF RICHMOND	306085
CITY OF RICHMOND	157754
CITY OF RICHMOND	988862
CITY OF RICHMOND	862886
CITY OF RICHMOND	745868
CITY OF RICHMOND	696696
CITY OF RICHMOND	834831
CITY OF RICHMOND	848694
CITY OF RICHMOND	670093
CITY OF RICHMOND	519629
CITY OF RICHMOND	358371
CITY OF RICHMOND	397020
CITY OF RICHMOND	705347
CITY OF RICHMOND	873539
CITY OF RICHMOND	683025
Richmond	769890
CITY OF RICHMOND	715967

23-Feb-09	18-Mar-09	3/18/2009
24-Feb-09	18-Mar-09	3/18/2009
2-Mar-09	18-Mar-09	3/18/2009
3-Mar-09	18-Mar-09	3/18/2009
5-Mar-09	18-Mar-09	4/28/2009
5-Mar-09	18-Mar-09	4/28/2009
6-May-09	21-May-09	5/21/2009
21-May-09	18-Aug-09	8/18/2009
18-Jun-09	18-Aug-09	8/18/2009
13-Aug-09	26-Oct-09	10/26/2009
18-Aug-09	26-Oct-09	10/26/2009
8-Sep-09	26-Oct-09	10/26/2009
8-Sep-09	26-Oct-09	10/26/2009
9-Sep-09	26-Oct-09	10/26/2009
22-Sep-09	26-Oct-09	10/26/2009
14-Oct-09	26-Oct-09	10/26/2009
19-Oct-09	26-Oct-09	10/26/2009
19-Oct-09	26-Oct-09	10/26/2009
22-Oct-09	26-Oct-09	10/26/2009
30-Oct-09	28-Jan-10	1/28/2010
25-Nov-09	28-Jan-10	1/28/2010
1-Dec-09	28-Jan-10	1/28/2010
7-Jan-10	28-Jan-10	1/28/2010
11-Jan-10	28-Jan-10	1/28/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
19-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
20-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
22-Jan-10	8-Feb-10	2/8/2010
23-Jan-10	2-Dec-10	12/2/2010
26-Jan-10	8-Feb-10	2/8/2010

Category 1	890000	0
Category 1	12360	0
Category 3	45	45
Category 3	40	40
Category 1	215075	0
Category 1	20250	0
Category 3	300	300
Category 3	10	10
Category 3	10	0
Category 3	150	150
Category 3	100	100
Category 3	50	50
Category 3	100	100
Category 3	500	500
Category 3	5	5
Category 1	1007715	0
Category 1	420	0
Category 1	200	0
Category 3	5	5
Category 3	50	50
Category 3	50	50
Category 3	75	75
Category 3	5	0
Category 3	100	100
Category 1	3952443	0
Category 1	880352	0
Category 1	1643613	0
Category 1	230843	0
Category 1	32600	0
Category 1	73125	0
Category 1	34500	0
Category 1	28000	0
Category 1	6000	0
Category 1	4500	0
Category 1	3000	0
Category 1	3533213	0
Category 1	28000	0
Category 1	554791	0
Category 1	13425	0
Category 1	14925	0
Category 1	61800	0
Category 1	44100	0
Category 1	69600	0
Category 1	68100	0
Category 1	43350	0
Category 3	200	200
Category 1	869447	0
Category 1	1650	0
Category 1	4650	0
Category 1	6150	0
Category 1	4950	0
Category 1	6450	0
Category 1	4950	0
Category 1	8000	8000
Category 2	2000	2000

890000	Yes	Yes
12360	Yes	Yes
0	No	No
0	No	No
215075	Yes	Yes
20250	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	Yes
0	No	No
1007715	Yes	Yes
420	Yes	Yes
200	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	Yes
3952443	Yes	Yes
880352	Yes	Yes
1643613	Yes	Yes
230843	Yes	Yes
32600	Yes	Yes
73125	Yes	Yes
34500	Yes	Yes
28000	Yes	Yes
6000	Yes	Yes
4500	Yes	Yes
3000	Yes	Yes
3533213	Yes	Yes
28000	Yes	Yes
554791	Yes	Yes
13425	Yes	Yes
14925	Yes	Yes
61800	Yes	Yes
44100	Yes	Yes
69600	Yes	Yes
68100	Yes	Yes
43350	Yes	Yes
0	No	No
869447	Yes	Yes
1650	Yes	Yes
4650	Yes	Yes
6150	Yes	Yes
4950	Yes	Yes
6450	Yes	Yes
4950	Yes	Yes
1	Yes	Yes
0	No	No

No
No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
Yes
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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No
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe

738 HARBOUR WAY SOUTH
12380 SAN PABLO AVENUE
1401 RIFLE RANGE ROAD
4920 MCBRYDE AVENUE
738 HARBOUR WAY SOUTH
2824 REGATTA BOULEVARD
4126 ROSEWOOD AVENUE
3321 Cutting Boulevard
9 WESTERN DRIVE
228 - 230 21ST STREET
425 S. 35TH STREET
306 WEST CHANSLOR
1613 BISSELL AVENUE
13TH STREET & PENNSYLVINIA
601 MARINE STREET
738 HARBOUR WAY SOUTH
INTERSECTION OF SAN PABLO AVENUE & NEVIN AVENUE
738 HARBOUR WAY SOUTH
2015 MACDONALD AVENUE
Intersection of Rheem Avenue & 23rd Street
2322 MARICOPA AVENUE
636 GOLDEN GATE AVENUE (MH 090076)
353 7TH STREET
223 25TH STREET
738 Harbour Way S & Wright Avenue Overflow Weir
Boatramp Road & W. Cutting Boulevard Overflow Weir
738 HARBOUR WAY SOUTH & WRIGHT AVENUE OVERFLOW WEIR
BOAT RAMP ROAD & W. CUTTING BOULEVARD OVERFLOW WEIR
SAN PABLO AVENUE & ROOSEVELT AVENUE (MH 010190)
SAN PABLO AVENUE AND I-80 OVERPASS (MH # 010186)
3200 REGATTA BOULEVARD (MH #120155)
SAN PABLO AVENUE & I-80 ON RAMP NEAR SIDEWALK (MH #010185)
SAN PABLO AVENUE & NEVIN AVENUE (MH 010297)
DIMM STREET & BARRETT AVENUE (MH #010259)
BARRETT AVENUE & 44TH STREET (MH #030269)
738 Harbour Way S & Wright Avenue Overflow Weir
614 WILSON AVENUE AND 44TH STREET (MH #030266)
Boatramp Road & Cutting Boulevard Overflow Weir
3200 REGATTA BOULEVARD (MH # 120155)
321 CANAL BOULEVARD (MH #100020)
SAN PABLO AVENUE & NEVIN AVENUE/EAST SIDE (MH #010300)
SAN PABLO AVENUE & NEVIN AVENUE/WEST SIDE (MH #010297)
SAN PABLO AVENUE & ROOSEVELT AVENUE (MH #010090)
SAN PABLO AVENUE & I-80 OVER PASS (MH# 010186)
614 WILSON AVENUE & 44TH STREET (MH #030266)
199 PARK PLACE
738 HARBOUR WAY SOUTH & WRIGHT AVENUE OVERFLOW WEIR
3200 REGATTA BOULEVARD (MH #120155)
SAN PABLO AVENUE & NEVIN AVENUE/EAST SIDE (MH # 010300)
SAN PABLO AVENUE & NEVIN AVENUE/WEST SIDE (MH #010297)
SAN PABLO AVENUE & ROOSEVELT AVENUE (MH #010190)
SAN PABLO AVENUE & I-80 OVERPASS (MH #010186)
614 WILSON AVENUE & 44TH STREET (MH #030266)
Richmond Wastewater Treatment Plant
SAN PABLO AVENUE & NEVIN AVENUE

37.92	-122.36	Contra Costa
37.94	-122.33	Contra Costa
37.93	-122.3	Contra Costa
37.95	-122.33	Contra Costa
37.92	-122.36	Contra Costa
37.914892	-122.341749	Contra Costa
37.92	-122.33	Contra Costa
37.93	-122.34	Contra Costa
37.921297	-122.386735	Contra Costa
37.93472	-122.349131	Contra Costa
37.925903	-122.336454	Contra Costa
37.932831	-122.373852	Contra Costa
37.934095	-122.356972	Contra Costa
37.942438	-122.359736	Contra Costa
37.92808	-122.39424	Contra Costa
37.92135	-122.36005	Contra Costa
37.93363	-122.32415	Contra Costa
37.921351	-122.360055	Contra Costa
37.935975	-122.350172	Contra Costa
37.94984	-122.3474	Contra Costa
37.95061	-122.3399	Contra Costa
37.9293	-122.39244	Contra Costa
37.9268	-122.36303	Contra Costa
37.93444	-122.3459	Contra Costa
37.92167	-122.35983	Contra Costa
37.925124	-122.373533	Contra Costa
37.92167	-122.35983	Contra Costa
37.92185	-122.35043	Contra Costa
37.93699	-122.3258	Contra Costa
37.93733	-122.32607	Contra Costa
37.91652	-122.34018	Contra Costa
37.93733	-122.32607	Contra Costa
37.93363	-122.32415	Contra Costa
37.93585	-122.32227	Contra Costa
37.93566	-122.32762	Contra Costa
37.92108	-122.35992	Contra Costa
37.93765	-122.32688	Contra Costa
37.92518	-122.3668	Contra Costa
37.91652	-122.34018	Contra Costa
37.92534	-122.36646	Contra Costa
37.93362	-122.32432	Contra Costa
37.93364	-122.32415	Contra Costa
37.93699	-122.3258	Contra Costa
37.93733	-122.32607	Contra Costa
37.93765	-122.32688	Contra Costa
37.92572	-122.38498	Contra Costa
37.92167	-122.35983	Contra Costa
37.91652	-122.34018	Contra Costa
37.93363	-122.32415	Contra Costa
37.93361	-122.32429	Contra Costa
37.93699	-122.3258	Contra Costa
37.93753	-122.32607	Contra Costa
37.93765	-122.32688	Contra Costa
37.91976	-122.37899	Contra Costa
37.93363	-122.32415	Contra Costa

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2

DUE TO A HIGH VOLUME OF RAIN IN A SHORT PERIOD OF TIME (4.35 INCHES IN 24 HOURS) THE COLLECTION

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed
The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed

OLD BOAT RAMP

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceed

Engineered overflow weir.

Richmond Wastewater Treatment Plant

SYSTEM WAS SURCHARGED WITH

ling the capacity of the collection system
ling the capacity of the collection system

ling the capacity of the collection system

Other sewer system structure
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other (specify)
Building or structure
Manhole
Building or structure
Other sewer system structure
Manhole
Manhole
Gravity sewer
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Building or structure
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Pump station
Other (specify)

ENGINEERED OVERFLOW STRUCTURE

ENGINEERED OVERFLOW WEIR

PLUMBING UNDER HOUSE

THROUGH CRACKS IN SIDEWALK. MAY HAVE COME FROM PRIVATE LATERAL

ENGINEERED OVERFLOW WEIR

DUE TO A LARGE AMOUNT OF RAIN IN A SHORT PERIOD OF TIME THE SANITARY SEWER COLLECTION SYSTE

PIPE SEGMENT 040067-040066
Engineered overflow weir

ENGINEERED OVERFLOW WEIR
ENGINEERED OVERFLOW WEIR
MH #010190
MH # 010186
MH #120155
MH #010185

MH #010259
MH #010259
The engineered overflow structure for the collection system (overflow weir).
MH #03026
Engineered overflow weir.
MH #120155
MH #100020
MH # 010300
MH #010297
MH #010090
MH# 010186
MH #030266

ENGINEERED OVERFLOW WEIR
MH #120155
MH #010300
MH #010297
MH #010190
MH #010186
MH # 030266
Submersible Pump at Treatment Plant
PRIVATE LATERAL CLEANOUT

Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Other paved surface;Street/curb and gutter
Other paved surface;Street/curb and gutter
Storm drain;Surface water
Storm drain;Unpaved surface
Building or structure
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Surface water
Storm drain
Surface water
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface
Storm drain;Street/curb and gutter
Surface water
Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Surface water
Storm drain;Street/curb and gutter;Surface water
Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Building or structure
Surface water
Storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Storm drain;Street/curb and gutter;Surface water
Surface water
Street/curb and gutter

OVERFLOW FROM THE ENGINEERED DISCHARGE WEIR IS CONVEYED TO A STORM DRAIN THAT DISCHARGE

THIS MAY ONLY BE A POTENTIAL SPILL. IT HAS NOT BEEN DETERMINED IF THIS WAS NOISE OR AN ACTUAL I

Santa Fe Channel
Spill discharged at overflow weir into Santa Fe Channel

Santa Fe Channel (no public access at spill location)

Santa Fe Channel

2/22/2009 0:00	2/22/2009 13:06	2/22/2009 16:30	2/23/2009 2:00
2/22/2009 0:00	2/22/2009 22:30	2/22/2009 23:00	2/23/2009 1:30
2/28/2009 0:00	2/28/2009 10:30	2/28/2009 11:00	2/28/2009 11:05
3/2/2009 0:00	3/2/2009 13:45	3/2/2009 13:45	3/2/2009 13:55
3/5/2009 0:00	3/5/2009 4:20	3/5/2009 5:10	3/5/2009 8:34
3/5/2009 0:00	3/5/2009 5:30	3/5/2009 6:05	3/5/2009 9:15
5/5/2009 0:00	5/5/2009 10:30	5/5/2009 11:00	5/5/2009 11:45
5/18/2009 0:00	5/18/2009 14:15	5/18/2009 14:30	5/18/2009 14:45
6/13/2009 0:00	6/13/2009 15:00	6/13/2009 15:30	6/13/2009 16:30
8/8/2009 0:00	8/8/2009 10:30	8/8/2009 10:45	8/8/2009 11:00
8/13/2009 0:00	8/13/2009 13:32	8/13/2009 13:45	8/13/2009 14:00
9/1/2009 0:00	9/1/2009 11:30	9/1/2009 11:50	9/1/2009 12:00
9/6/2009 0:00	9/6/2009 13:20	9/6/2009 15:00	9/6/2009 15:15
9/9/2009 0:00	9/9/2009 10:47	9/9/2009 11:00	9/9/2009 12:00
9/21/2009 0:00	9/21/2009 20:17	9/21/2009 20:50	9/21/2009 21:15
10/13/2009 0:00	10/13/2009 12:30	10/13/2009 0:00	10/13/2009 18:34
10/19/2009 0:00	10/19/2009 16:00	10/19/2009 16:10	10/19/2009 17:00
10/19/2009 0:00	10/19/2009 16:00	10/19/2009 16:10	10/19/2009 16:10
10/20/2009 0:00	10/21/2009 14:15	10/21/2009 14:30	10/21/2009 14:45
10/29/2009 0:00	10/29/2009 18:30	10/29/2009 19:25	10/29/2009 19:50
11/24/2009 0:00	11/24/2009 13:30	11/24/2009 13:45	11/24/2009 14:00
11/29/2009 0:00	11/29/2009 10:40	11/29/2009 11:10	11/29/2009 11:30
1/5/2010 0:00	1/5/2010 11:20	1/5/2010 11:30	1/5/2010 11:40
1/10/2010 0:00	1/10/2010 14:50	1/10/2010 15:00	1/10/2010 15:10
1/19/2010 0:00	1/19/2010 6:00	1/19/2010 6:15	1/19/2010 22:00
1/19/2010 0:00	1/19/2010 6:30	1/19/2010 6:35	1/19/2010 17:00
1/18/2010 0:00	1/18/2010 10:40	1/18/2010 11:00	1/18/2010 20:00
1/18/2010 0:00	1/18/2010 10:44	1/18/2010 11:00	1/18/2010 20:00
1/19/2010 0:00	1/19/2010 8:05	1/19/2010 8:20	1/19/2010 13:30
1/19/2010 0:00	1/19/2010 8:05	1/19/2010 8:25	1/19/2010 13:30
1/19/2010 0:00	1/19/2010 8:15	1/19/2010 8:15	1/19/2010 14:00
1/19/2010 0:00	1/19/2010 8:40	1/19/2010 0:40	1/19/2010 13:30
1/18/2010 0:00	1/18/2010 13:30	1/18/2010 14:45	1/18/2010 14:30
1/18/2010 0:00	1/18/2010 13:40	1/18/2010 14:00	1/18/2010 14:40
1/18/2010 0:00	1/18/2010 13:40	1/18/2010 14:00	1/18/2010 14:40
1/20/2010 0:00	1/20/2010 6:25	1/20/2010 6:30	1/20/2010 19:00
1/19/2010 0:00	1/19/2010 8:40	1/19/2010 8:40	1/19/2010 13:30
1/20/2010 0:00	1/20/2010 6:25	1/20/2010 6:30	1/20/2010 14:00
1/20/2010 0:00	1/20/2010 7:45	1/20/2010 7:45	1/20/2010 16:00
1/20/2010 0:00	1/20/2010 7:45	1/20/2010 7:45	1/20/2010 16:30
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 18:00
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 18:00
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 17:00
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 16:30
1/20/2010 0:00	1/20/2010 8:00	1/20/2010 8:00	1/20/2010 16:30
1/20/2010 0:00	1/20/2010 13:45	1/20/2010 14:00	1/20/2010 14:00
1/21/2010 0:00	1/21/2010 14:00	1/21/2010 14:00	1/21/2010 22:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 15:30
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 17:00
1/21/2010 0:00	1/21/2010 13:30	1/21/2010 14:30	1/21/2010 17:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 16:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 16:00
1/21/2010 0:00	1/21/2010 14:30	1/21/2010 14:30	1/21/2010 16:00
1/23/2010 0:00	1/23/2010 19:35	1/23/2010 19:35	1/23/2010 20:50
1/26/2010 0:00	1/26/2010 14:00	1/26/2010 14:00	1/26/2010 15:00

Flow exceeded capacity
Flow exceeded capacity
Root intrusion
Debri-Rags
Flow exceeded capacity
Flow exceeded capacity
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Debri-General
Grease deposition (FOG)
Debri-Rags
Debri-Rags
Pipe structural problem/failure
Debri-General
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Grease deposition (FOG)
Grease deposition (FOG)
Debri-Rags
Root intrusion
Root intrusion
Debri-General
Rainfall exceeded design
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
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Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Other (specify below)
Flow exceeded capacity

THE SSO OCCURRED IN A RESIDENTIAL AREA.

DUE TO A LARGE AMOUNT OF RAIN IN A SHORT PERIOD OF TIME THE SANITARY SEWER COLLECTION SYSTE

THE CITY'S SEWER CREW REMOVED A BALL OF RAGS FROM THE SEWER MAIN.

The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceec
The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceec
The collection system manhole (# 010190) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 010186) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 120155) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 010185) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 010297) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 010259) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 030269) servicing this area of the City overflowed from a large amount of rainfall in a
Excessive rainfall and Inflow & Infiltration caused the system to become hydraulically overloaded.
The collection system manhole (# 030266) servicing this area of the City overflowed from a large amount of rainfall in a s
Excessive rainfall and Inflow & Infiltration caused the system to become hydraulically overloaded.
The collection system manhole (#120155) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (# 100020) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (# 010300) servicing this area of the City overflowed from a large amount of rainfall in a s
The collection system manhole (#010297) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#010190) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#010186) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#030266) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system servicing this area of the City overflowed from a large amount of rainfall in a short period of time, a
The engineered overflow structure for this portion of the collection system discharged due to infiltration and inflow exceec
The collection system manhole (#120155) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#010300) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#010297) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#010190) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#010186) servicing this area of the City overflowed from a large amount of rainfall in a sl
The collection system manhole (#030266) servicing this area of the City overflowed from a large amount of rainfall in a sl
Mechanical Failure
The collection system manhole (#010297) servicing this area of the City overflowed from a large amount of rainfall in a sl

Main
Main

Main

Other (specify below)

sumbersible pump @ treatment plant

42
12

36

Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
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Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Contained all or portion of spill;Returned all or portion of spill to sanitary sewer system
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst

OBSERVED AND MONITORED DISCHARGE
OBSERVED DISCHARGE

CITY'S CONTRACT SEWER CREW WAS ON SCENE WHEN THE SSO OCCURRED.
OBSERVED & MONITORED DISCHARGE
UNABLE TO CONTAIN
CITY CREW REMOVED SEWAGE AND DISINFECTED CRAWL SPACE UNDER THE HOUSE. IPP DISTRIBUTED 16
City's Industrial Pretreatment Program will distribute door hangers/ plate scrapers on upstrream users notifiying them of tl
THE DISCHARGE WICKED OUT AROUND THE RIM OF THE MANHOLE. ALL THAT WAS DISCHARGED EVAPORA

MONITORED DISCHARGE--AMOUNT WAS ELECTRONICALLY RECORDED.
OBSERVED DISCHARGE
MONITORED DISCHARGE
WILL INSPECT RESCUE MISSION KITCHEN FOR FOG MANAGEMENT (UPSTREAM USER OTHER THAN RESIDEN

Monitored discharge
Unable to abate overflow due to system being at maximum capacity
MONITORED DISCHARGE
MONITORED DISCHARGE (RECORDED ELECTRONICALLY)
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
MONITORED DISCHARGE
No clean-up activity due to excessive rain from storm event.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event. The discharge was monitored.
No clean-up activity due to excessive rain from storm event. Discharge was monitored.
No clean-up activity due to excessive rain from storm event. Discharge monitored.
No clean-up activity due to excessive rain from storm event. Discharge monitored.
No clean-up activity due to excessive rain from storm event. Discharge monitored.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.

No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.
No clean-up activity due to excessive rain from storm event.

2/23/2009 16:00
2/23/2009 1:30

3/5/2009 8:34
3/5/2009 9:15

10/19/2009 12:00
10/19/2009 18:30
10/22/2009 15:00

1/19/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/19/2010 13:30
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
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1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/21/2010 22:00
1/23/2010 22:00
1/26/2010 15:00

Other (specify below)
Plan rehabilitation or replacement of sewer

Other (specify below)
Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Adjusted schedule/method of preventive maintenance

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Repaired sewer
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Plan rehabilitation or replacement of sewer
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)

Level indicator in overlfow structure was repositioned, and staff response procedures evaluated.

ADJUST PM SCHEDULE

No corrective action taken. System is hydraulicallly overloaded due to excessive rainfaill
Monitored discharge
Monitored discharge
Monitored discharge
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.
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Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Planned flow study to determine location of excessive inflow and infiltration will be conducted.
Investigation as to why the failure
Planned flow study to determine location of excessive inflow and infiltration will be conducted.

Yes
Yes

Yes
Yes

Yes
Yes
Yes

No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
No

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Nothing significate to report.

NOTHING SIGNAFICANT TO REPORT. NO NARRATIVE ISSUES OBSERVED.

Yes
No

Yes
Yes

Yes
Yes
Yes

No
Yes
No
No
No
No
No
No
No
No
Yes
No
Yes
No
No
No
No
Yes
No
No

No
No
No
No
No
No
No
Yes
No

Sheriday Observation Point, Lucretia Edwards Park & Barbara, Jay Vincent Park, & Rosie the Riveter Monument
NA

Rosie the Riveter beach front area, Sheridan Park, Vincent Park, and Marina Bay.
NA

SHERIDAN OBSERVATION POINT, BOAT RAMP STREET, LUCRETIAEDWARDS PARK, BARBARA & JAY VINCENT
NA...SMALL AMOUNT DISCHARGED MORE THAN 3 MILES FROM BAY IN STORM DRAIN PIPE.
NA...SMALL AMOUNT OF SEWAGE COMPARED TO RAINFALL. IT WAS A MIXTURE OF 90% RAINWATER (180 GA

NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA
NA

NA
NA
NA
NA
NA
NA
NA
NA
NA
NA

Santa Fe Channel & Richmond Inner Harbor
SAN FRANCISCO BAY

SAN FRANCISCO BAY
SAN FRANCISCO BAY

SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY

San Francisco Bay
Santa Fe Channel
SANTA FE CHANNEL A TRIBUTARY OF SAN FRACISCO BAY.
SANTA FE CHANNEL A TRIBUTARY OF SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCISCO BAY
SAN FRANCSICO BAY
SAN FRANCISCO BAY
Santa Fe Channel (San Francisco Bay)
SAN FRANCISCO BAY
Santa Fe Channel (San Francisco Bay)
SAN FRANCISCO BAY
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SANTA FE CHANNEL
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San Francisco Bay
na

No water quality samples taken
No water quality samples taken

Biological indicator(s) - specify below
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
Other (specify below)
No water quality samples taken
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Other (specify below)
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No water quality samples taken
No water quality samples taken
Other (specify below)
No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
Not applicable to this spill

BOD/TSS, AND COLIFORMS
BOD/TSS AND COLIFORMS

THIS WAS A FIRST FLUSH RAIN EVENT AND THERE ARE MANY CONTAMINANTS IN THAT ALSO CONTAIN COLI

EAST BAY REGIONAL PARKS ROUTINELY MONITORS FOR WATER QUALITY ISSUES AT KELLER BEACH AND P
EAS BAY REGIONAL PARKS ROUTINELY COLLECTS SAMPLES DURRING RAIN EVENTS FOR KELLER BEACH AN
EAST BAY REGIONAL PARKS ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE AFTER RAIN EVENT
EAST BAY REGIONAL PARKS ROUTINELY COLLECTS SAMPLES AT KELLER BEACH AND POINT ISABELLE AFTE
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY COLLECTS SAMPLES AT KELLER BEACH AND POINT ISABE
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
EAST BAY REGIONAL PARKS DISTRICT SAMPLES KELLER BEACH AND POINT ISABELLE ROUTINELY WHEN TH
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EAST BAY REGIONAL PARKS SAMPLES KELLER BEACH AND POINT ISABELLE ROUTINELY WHEN THERE ARE

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

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EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
No clean-up activity due to excessive rain from storm event.
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH
EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

No water quality samples taken
No water quality samples taken

None of the above
None of the above

Not applicable to this spill
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
None of the above
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No water quality samples taken
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None of the above

None of the above
None of the above
County Health Agency
None of the above
None of the above
None of the above
None of the above
No water quality samples taken
Not applicable to this spill

MONITORED DISCHARGE

EAST BAY REGIONAL PARKS DISTRICT ROUTINELY SAMPLES KELLER BEACH AND POINT ISABELLE WHEN TH

CONTRA COSTA COUNTY HEALTH SERVICES

ERE IS A RAIN EVENT.

91558	2/23/2009 10:08
91541	2/22/2009 0:00
92013	3/5/2009 5:10
92014	3/5/2009 6:21
96891	10/13/2009 13:15
97086	10/19/2009 17:10
Sep-86	10/19/2009 17:10
100200	1/11/2010 10:59
100387	1/19/2010 7:22
100388	1/19/2010 7:27
100352	1/18/2010 0:00
100353	1/18/2010 11:29
100394	1/19/2010 8:47
100395	1/19/2010 8:54
100396	1/19/2010 8:56
100397	1/19/2010 8:58
100366	1/18/2010 14:56
100368	1/18/2010 15:01
100369	1/18/2010 15:03
100443	1/20/2010 6:48
100398	1/19/2010 9:01
100444	1/20/2010 6:48
100449	1/20/2010 8:53
100451	1/20/2010 8:59
100452	1/20/2010 10:00
100452	1/20/2010 9:04
100394	1/20/2010 9:09
100395	1/20/2010 9:44
100398	1/20/2010 9:12
100387	1/21/2010 15:13
100449	1/21/2010 22:00
100452	1/21/2010 15:13
100452	1/21/2010 16:40
100394	1/21/2010 15:13
100395	1/21/2010 15:13
100398	1/21/2010 15:13
100623	1/23/2010 20:50

2SSO10170	Active	749022	Bill Lindsay	Certified
2SSO10170	Active	749178	Bill Lindsay	Certified
2SSO10170	Active	750034	BILL LINDSAY	Certified
2SSO10170	Active	750035	BILL LINDSAY	Certified
2SSO10170	Active	750036	BILL LINDSAY	Certified
2SSO10170	Active	750232	BILL LINDSAY	Certified
2SSO10170	Active	752409	BILL LINDSAY	Certified
2SSO10170	Active	752411	BILL LINDSAY	Certified
2SSO10170	Active	752636	BILL LINDSAY	Certified
2SSO10170	Active	752858	BILL LINDSAY	Certified
2SSO10170	Active	756698	Bill Lindsay	Certified
2SSO10170	Active	757220	Bill Lindsay	Certified
2SSO10170	Active	757947	Bill Lindsay	Certified
2SSO10170	Active	758179	BILL LINDSAY	Certified
2SSO10170	Active	758181	Bill Lindsay	Certified
2SSO10170	Active	758925	Bill Lindsay	Certified
2SSO10170	Active	759104	Bill Lindsay	Certified
2SSO10170	Active	759542	Bill Lindsay	Certified
2SSO10170	Active	759544	Bill Lindsay	Certified
2SSO10170	Active	759639	Bill Lindsay	Certified
2SSO10170	Active	759960	Bill Lindsay	Certified
2SSO10170	Active	759967	Bill Lindsay	Certified
2SSO10170	Active	760186	Bill Lindsay	Certified
2SSO10170	Active	761347	Bill Lindsay	Certified
2SSO10170	Active	762519	Bill Lindsay	Certified
2SSO10170	Active	762893	Bill Lindsay	Certified
2SSO10170	Active	763246	Bill Lindsay	Certified
2SSO10170	Active	763250	Bill Lindsay	Certified
2SSO10170	Active	763251	Bill Lindsay	Certified
2SSO10170	Active	763252	Bill Lindsay	Certified
2SSO10170	Active	763254	Bill Lindsay	Certified
2SSO10170	Active	763331	Bill Lindsay	Certified
2SSO10170	Active	763333	Bill Lindsay	Certified
2SSO10170	Active	763687	Bill Lindsay	Certified
2SSO10170	Active	763688	Bill Lindsay	Certified
2SSO10170	Active	764061	Bill Lindsay	Certified
2SSO10170	Active	764491	Bill Lindsay	Certified
2SSO10170	Active	764493	Bill Lindasy	Certified
2SSO10170	Active	764495	Bill Lindasy	Certified
2SSO10170	Active	764497	Bill Lindsay	Certified
2SSO10170	Active	764501	Bill Lindsay	Certified
2SSO10170	Active	764505	Bill Lindsay	Certified
2SSO10170	Active	764506	Bill Lindsay	Certified
2SSO10170	Active	764507	Bill Lindsay	Certified
2SSO10170	Active	764665	Bill Lindsay	Certified
2SSO10170	Active	764753	Bill Lindsay	Certified
2SSO10170	Active	764757	Bill Lindsay	Certified
2SSO10170	Active	764758	Bill Lindsay	Certified
2SSO10170	Active	764759	Bill Lindsay	Certified
2SSO10170	Active	764760	Bill Lindsay	Certified
2SSO10170	Active	764792	Bill Lindsay	Certified
2SSO10170	Active	764836	Bill Lindsay	Certified
2SSO10170	Active	764837	BIll Lindsay	Certified
2SSO10170	Active	764838	Bill Lindsay	Certified
2SSO10170	Active	764839	Bill Lindsay	Certified

City Manager
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Richmond, CA	643861
Richmond, CA	592802
CITY OF RICHMOND	687281
CITY OF RICHMOND	288787
CITY OF RICHMOND	967349
CITY OF RICHMOND	415325
CITY OF RICHMOND	246778
CITY OF RICHMOND	133681
CITY OF RICHMOND	915841
CITY OF RICHMOND	598451
City of Richmond	289082
City of Richmond	572052
Richmond, CA	666389
CITY OF RICHMOND	148398
Richmond, CA	257769
Richmond, CA	351565
Richmond, CA	761332
Richmond, CA	876767
Richmond, CA	559554
Richmond, CA	160848
Richmond, CA	360094
Richmond, CA	609593
City Hall	150539
City Hall	890799
City Hall	600823
City Hall	279451
City Hall	970790
City Hall	633243
City Hall	482657
City Hall	333702
City Hall	776405
City Hall	655240
Employee	948258
City Hall	208516
City Hall	314777
City Hall	117049
City Hall	314963
City Hall	407495
City Hall	552335
City Hall	590618
City Hall	656082
City Hall	999364
City Hall	168238
City Hall	800711
City Hall	245908
City Hall	807774
City Hall	812541
City Hall	573584
City Hall	894740
City Hall	872217
City Hall	802009
City Hall	533794
City Hall	872570
Richmond, CA	537070
City Hall	835319

1-Feb-10		8-Feb-10	12/2/2010
8-Feb-10		18-Feb-10	12/2/2010
3-Mar-10		22-Apr-10	4/22/2010
3-Mar-10		22-Apr-10	4/22/2010
3-Mar-10		22-Apr-10	4/22/2010
9-Mar-10		22-Apr-10	4/22/2010
14-May-10	5/14/2010	9-Jul-10	7/9/2010
14-May-10	5/14/2010	9-Jul-10	7/9/2010
24-May-10	5/24/2010	9-Jul-10	7/9/2010
2-Jun-10	6/2/2010	16-Jul-10	7/16/2010
12-Sep-10	9/28/2010	27-Oct-10	10/27/2010
28-Sep-10	9/28/2010	27-Oct-10	10/27/2010
19-Oct-10	10/19/2010	27-Oct-10	2/22/2011
27-Oct-10	10/27/2010	2-Dec-10	12/2/2010
27-Oct-10	10/27/2010	22-Feb-11	2/22/2011
29-Nov-10	11/29/2010	22-Feb-11	2/22/2011
4-Dec-10	12/4/2010	3-Mar-11	3/3/2011
19-Dec-10	12/19/2010	3-Mar-11	3/3/2011
19-Dec-10	12/19/2010	3-Mar-11	3/3/2011
21-Dec-10	12/21/2010	3-Mar-11	3/3/2011
28-Dec-10	12/28/2010	3-Mar-11	3/3/2011
29-Dec-10	12/29/2010	3-Mar-11	3/3/2011
4-Jan-11	1/4/2011	21-Jul-11	7/21/2011
17-Jan-11	1/17/2011	21-Jul-11	7/21/2011
7-Feb-11	2/7/2011	21-Jul-11	7/21/2011
13-Feb-11	2/13/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
17-Feb-11	2/17/2011	21-Jul-11	7/21/2011
18-Feb-11	2/18/2011	21-Jul-11	7/21/2011
19-Feb-11	2/19/2011	21-Jul-11	7/21/2011
25-Feb-11	2/25/2011	21-Jul-11	7/21/2011
25-Feb-11	2/25/2011	21-Jul-11	7/21/2011
5-Mar-11	3/5/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
18-Mar-11	3/18/2011	21-Jul-11	7/21/2011
20-Mar-11	3/20/2011	21-Jul-11	7/21/2011
20-Mar-11	3/20/2011	21-Jul-11	7/21/2011
20-Mar-11	3/20/2011	21-Jul-11	7/21/2011
23-Mar-11	3/23/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
24-Mar-11	3/24/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/27/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011

Category 1	120	75
Category 1	125	50
Category 1	600	0
Category 1	600	0
Category 1	1200	0
Category 3	2	2
Category 3	5	5
Category 3	40	40
Category 3	50	50
Category 3	150	150
Category 3	135	135
Category 3	100	100
Category 3	1	0
Category 3	1	1
Category 3	20	20
Category 3	10	10
Category 1	20	20
Category 1	3594793	0
Category 1	39435	0
Category 3	20	20
Category 1	3421837	0
Category 3	25	25
Category 3	200	200
Category 3	100	100
Category 3	60	60
Category 1	5	0
Category 1	1652074	0
Category 1	1500	0
Category 1	1800	0
Category 1	2100	0
Category 1	1500	0
Category 1	4842726	0
Category 1	17203	0
Category 3	250	50
Category 1	1853612	0
Category 1	1500	1250
Category 1	1300	0
Category 1	1625	0
Category 1	4213282	0
Category 2	1800	0
Category 1	24253	0
Category 1	1500	0
Category 1	1500	0
Category 1	1800	0
Category 1	500	0
Category 1	320	0
Category 1	1125	0
Category 1	1000	0
Category 1	1000	0
Category 1	25000	0
Category 3	45	45
Category 1	1886934	0
Category 1	3580	0
Category 1	8380	0
Category 1	4475	0

45	Yes	Yes
75	Yes	Yes
600	Yes	Yes
600	Yes	Yes
1200	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
1	No	Yes
3594793	Yes	Yes
39435	Yes	Yes
0	No	No
3421837	Yes	Yes
0	No	Yes
0	No	Yes
0	No	No
0	No	No
5	No	Yes
1652074	Yes	Yes
1500	Yes	Yes
1800	Yes	Yes
2100	Yes	Yes
1500	Yes	Yes
4842726	Yes	Yes
17203	Yes	Yes
0	No	Yes
1853612	Yes	Yes
250	Yes	Yes
1300	Yes	Yes
1625	Yes	Yes
4123282	Yes	Yes
0	No	Yes
24253	Yes	Yes
1500	Yes	Yes
1500	Yes	Yes
1800	Yes	Yes
500	Yes	Yes
320	Yes	Yes
1125	Yes	Yes
1000	Yes	Yes
1000	Yes	Yes
25000	Yes	Yes
0	No	Yes
1886934	Yes	Yes
3580	Yes	Yes
8380	Yes	Yes
4475	Yes	Yes

No
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No
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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HUMBOLDT AVENUE & SOLANO AVENUE
20TH STREET & GRANT AVENUE (MH# 050102)
San Pablo Ave & Nevin Ave Manhole ID 010297
San Pablo Ave & Nevin Ave Manhole ID 010297
San Pablo Ave & Nevin Ave Manhole ID 010297
579 5TH STREET
2132 Dunn Avenue
Intersection of 17th Street and Virginia Avenue
MARICOPA BETWEEN 28TH STREET AND 29TH STREET
3400 MACDONALD AVENUE
2400 Roosevelt Ave
353 24th St. Richmond, CA (Mr. Pizza Man)
3007 MARICOPA AVENUE
253 3rd Street
12201 San Pablo Avenue
207 MAINE AVENUE
2400 Rheem Ave
860 Harbour Way South (Harbour Way & Wright)
Boat Ramp Road & Cutting Blvd
4126 Rosewood Ave.
860 Harbour Way South
3410 Barrett Ave
8430 Wildcat Dr.
San Pablo Ave & Nevin Ave
118 Maine St
1500 Bissell Ave
860 Harbour Way s
2300 Cutting Blvd
2824 Regatta Blvd
San Pablo Ave & Interstate 80 East Bound On-ramp
614 Wilson Ave
860 Harbour Way South
Boat Ramp Road & Cutting Blvd
Curry St & West Chanslor Ave
860 Harbour Way S
1800 Costa Ave
614 Wilson Ave
I-80 East Bound & San Pablo Ave
860 Harbour Way South
1300 Dunn Ave
100 West Cutting Blvd
2300 Cutting Blvd
614 Wilson Ave
2824 Regatta Blvd
1300 Dunn Ave
1600 Dunn Avenue
I-80 and San Pablo Ave
2824 Regatta Blvd.
614 Wilson Ave
Harbour Way & Wright Ave
2300 McBryde Ave
860 Harbour Way South
4400 WIlson Avenue
1300 Dunn Avenue
Intersection of Roosevelt Avenue & San Pablo Avenue

37.94408	-122.32504	Contra Costa
37.94139	-122.3505	Contra Costa
37.93335	-122.32443	Contra Costa
37.93335	-122.32443	Contra Costa
37.93335	-122.32443	Contra Costa
37.92712	-122.365	Contra Costa
37.94886	-122.34867	Contra Costa
37.92729	-122.35334	Contra Costa
37.95081	-122.33975	Contra Costa
37.93277	-122.3366	Contra Costa
37.93956	-122.34513	Contra Costa
37.93659	-122.34644	Contra Costa
37.95082	-122.33775	Contra Costa
37.92849	-122.36698	Contra Costa
37.93392	-122.32488	Contra Costa
37.92826	-122.36768	Contra Costa
37.94983	-122.34531	Contra Costa
37.92	-122.35946	Contra Costa
37.92521	-122.36897	Contra Costa
37.92044	-122.33079	Contra Costa
37.92	-122.35946	Contra Costa
37.9366	-122.33602	Contra Costa
37.9297	-122.29241	Contra Costa
37.93369	-122.32427	Contra Costa
37.92783	-122.36841	Contra Costa
37.93406	-122.3552	Contra Costa
37.92	-122.35946	Contra Costa
37.92506	-122.34755	Contra Costa
37.91467	-122.34168	Contra Costa
37.93672	-122.32581	Contra Costa
37.93716	-122.32724	Contra Costa
37.92	-122.35946	Contra Costa
37.92521	-122.36897	Contra Costa
37.93287	-122.37384	Contra Costa
37.92	-122.35946	Contra Costa
37.9503	-122.35206	Contra Costa
37.93716	-122.32724	Contra Costa
37.93672	-122.32581	Contra Costa
37.92	-122.35946	Contra Costa
37.94868	-122.35692	Contra Costa
37.92521	-122.36897	Contra Costa
37.92506	-122.34755	Contra Costa
37.93716	-122.32724	Contra Costa
37.91467	-122.34168	Contra Costa
37.94868	-122.356952	Contra Costa
37.94868	-122.35692	Contra Costa
37.93672	-122.32581	Contra Costa
37.91467	-122.34168	Contra Costa
37.93716	-122.32714	Contra Costa
37.92	-122.35946	Contra Costa
37.94704	-122.34744	Contra Costa
37.92	-122.35946	Contra Costa
37.93187	-122.32472	Contra Costa
37.94883	-122.34745	Contra Costa
37.97709	-122.3628	Contra Costa

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Manhole ID 010297 located at the intersection of San Pablo Ave & Nevin Ave
Manhole ID 010297 located at the intersection of San Pablo Ave & Nevin Ave
Manhole ID 010297 located at the intersection of San Pablo Ave & Nevin Ave

MH# 050043.01-050020
MH #-110049-110073
MH #-020096-020048
MH #- 040140-040136
Main line blockage caused overflow from lateral clean-out
Back-up into business at 353 24th St.

Manhole at intersection of 24th St. & Rheem Ave

Constructed overflow weir
Sewer back-up into home from mainline.
Overflow weir located at Harbour Way South and Wright Ave.
Manhole near 3410 Barrett Ave.
Manhole near address spilled sewage into stormdrain.
Intersection of Nevin Ave & San Pablo Ave
Sewage backing up out of Lateral at location
Manhole in Street
Overflow Weir at Harbour Way South

Manhole at curb in front of address next to storm drain.
Manhole at intersection of San Pablo Ave & I-80 East on ramp.
Manhole at intersection of Wilson Ave & Roosevelt Ave.

Overflow weir at Boat Ramp Rd.
Manhole at intersection of Curry St. & W. Chanslor
Storms cauased system to reach maximum hydraulic capacity, which activated constructed overflow weir.
Manhole at intersection
Manhole at intersection of Wilson & San Pablo Ave.
Underpass at on-ramp at I-80 East @ San Pablo Ave
Overflow weir at Harbour Way & Wright Ave
Residential/business location
Overflow weir @ Boat Ramp Rd & Cutting Blvd
Manhole @ intersection

Manhole at intersection of 13th St and Dunn Ave.

Manhole at underpass

overflow weir

Overflow at engineered overflow weir

Other (specify)
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Other (specify)
Other sewer system structure
Building or structure;Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Gravity sewer
Gravity sewer;Manhole
Other sewer system structure
Gravity sewer
Building or structure
Gravity sewer
Gravity sewer
Gravity sewer
Manhole
Other sewer system structure
Force main or pressure sewer
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Manhole
Manhole

CRACKS IN SIDEWALK NEXT TO PRIVATE LATERAL CLEANOUT.
MH # 050102

TOILET
Sink hole

CLEANOUT
Lateral clean-out

LATERAL AND BATHTUB
lateral, bathtub

FROM PRIVATE CLEANOUTS DUE TO BLOCKAGE OF CITY OWNED LINE.

Overflow Weir

Resdential Lateral

Overflow weir

Overflow weir
overflow weir

Overflow weir

Overflow weir
clean-out
Overflow weir

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.
Engineered Overflow Weir

Engineered overflow weir

Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Storm drain
Storm drain
Storm drain
Building or structure
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface
Other paved surface
Building or structure;Street/curb and gutter
Building or structure
Other (specify below)
Street/curb and gutter
Street/curb and gutter
Separate storm drain
Surface water
Surface water
Building or structure
Surface water
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter
Building or structure
Street/curb and gutter
Surface water
Separate storm drain;Surface water
Separate storm drain
Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Surface water
Surface water
Other paved surface;Street/curb and gutter
Surface water
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Surface water
Other paved surface;Separate storm drain
Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Combined storm drain (combined CS only)
Other (specify below)
Surface water
Separate storm drain
Separate storm drain
Separate storm drain

Back-up occured at street and inside business

Lateral, bathtub

Santa Fe Channel

Santa Fe Channel

Sewage spilled into street and down gutter.

Santa Fe Channel

San Pablo Bay

Residential/Business Location
San Pablo Bay
Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.

Spill cleaned up and returned to sewer system.
Santa Fe Channel
San Pablo Creek System

2/1/2010 0:00	2/1/2010 11:55	2/1/2010 11:55	2/1/2010 12:10
2/5/2010 0:00	2/5/2010 8:15	2/5/2010 8:15	2/5/2010 8:25
3/2/2010 0:00	3/2/2010 9:05	3/2/2010 9:05	3/2/2010 11:00
3/2/2010 0:00	3/2/2010 9:05	3/2/2010 9:05	3/2/2010 11:00
3/3/2010 0:00	3/3/2010 6:30	3/3/2010 6:49	3/3/2010 10:00
3/3/2010 0:00	3/3/2010 13:15	3/3/2010 13:30	3/3/2010 13:45
5/9/2010 0:00	5/9/2010 19:30	5/9/2010 20:30	5/9/2010 20:35
5/13/2010 0:00	5/13/2010 9:35	5/13/2010 10:00	5/13/2010 10:25
5/23/2010 10:15	5/23/2010 10:15	5/23/2010 11:00	5/23/2010 11:45
6/1/2010 0:00	6/1/2010 7:07	6/1/2010 7:20	6/1/2010 7:30
9/12/2010 0:00	9/12/2010 12:00	9/12/2010 12:00	9/12/2010 12:45
9/28/2010 0:00	9/28/2010 13:45	9/28/2010 13:50	9/28/2010 14:15
10/16/2010 0:00	10/16/2010 20:45	10/16/2010 21:30	10/16/2010 21:55
9/23/2010 0:00	9/23/2010 10:00	9/23/2010 10:15	9/23/2010 10:30
10/26/2010 0:00	10/26/2010 13:30	10/26/2010 13:35	10/26/2010 13:40
11/29/2010 0:00	11/29/2010 9:15	11/29/2010 9:35	11/29/2010 9:45
12/4/2010 0:00	12/4/2010 16:00	12/4/2010 16:10	12/4/2010 16:20
12/19/2010 0:00	12/19/2010 6:00	12/19/2010 6:00	12/19/2010 23:56
12/19/2010 0:00	12/19/2010 9:01	12/19/2010 9:01	12/19/2010 9:16
12/20/2010 0:00	12/20/2010 18:05	12/20/2010 18:15	12/20/2010 18:20
12/28/2010 0:00	12/28/2010 20:50	12/28/2010 21:00	12/29/2010 9:10
12/29/2010 0:00	12/29/2010 9:45	12/29/2010 9:50	12/29/2010 10:00
1/4/2011 0:00	1/4/2011 9:20	1/4/2011 9:45	1/4/2011 13:45
1/17/2011 0:00	1/17/2011 12:40	1/17/2011 13:00	1/17/2011 13:20
1/30/2011 0:00	1/30/2011 19:00	1/30/2011 19:55	1/30/2011 20:55
2/13/2011 0:00	2/13/2011 1:25	2/13/2011 1:55	2/13/2011 2:00
2/17/2011 0:00	2/17/2011 11:36	2/17/2011 11:36	2/17/2011 17:52
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 13:20
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 14:00
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 14:30
2/17/2011 0:00	2/17/2011 12:40	2/17/2011 12:40	2/17/2011 14:20
2/18/2011 0:00	2/18/2011 21:55	2/18/2011 21:55	2/19/2011 22:34
2/19/2011 0:00	2/19/2011 13:02	2/19/2011 13:02	2/19/2011 15:20
2/25/2011 0:00	2/25/2011 1:40	2/25/2011 2:00	2/25/2011 3:10
2/25/2011 0:00	2/25/2011 2:16	2/25/2011 2:25	2/25/2011 11:38
3/5/2011 0:00	3/5/2011 10:30	3/5/2011 10:50	3/5/2011 11:00
3/18/2011 0:00	3/18/2011 12:45	3/18/2011 13:00	3/18/2011 13:50
3/18/2011 0:00	3/18/2011 12:45	3/18/2011 13:00	3/18/2011 13:50
3/18/2011 0:00	3/18/2011 13:22	3/18/2011 13:22	3/20/2011 14:18
3/18/2011 0:00	3/18/2011 13:30	3/18/2011 13:40	3/18/2011 15:50
3/18/2011 0:00	3/18/2011 21:27	3/18/2011 21:27	3/18/2011 21:27
3/20/2011 0:00	3/20/2011 0:20	3/20/2011 0:20	3/20/2011 3:00
3/20/2011 0:00	3/20/2011 0:20	3/20/2011 0:20	3/20/2011 2:00
3/20/2011 0:00	3/20/2011 0:10	3/20/2011 0:10	3/20/2011 2:15
3/23/2011 0:00	3/23/2011 7:30	3/23/2011 7:30	3/23/2011 9:45
3/24/2011 0:00	3/24/2011 9:56	3/24/2011 9:56	3/24/2011 10:45
3/24/2011 0:00	3/24/2011 11:00	3/24/2011 11:00	3/24/2011 11:45
3/24/2011 0:00	3/24/2011 11:20	3/24/2011 11:20	3/24/2011 11:20
3/24/2011 0:00	3/24/2011 11:20	3/24/2011 12:20	3/24/2011 12:20
3/24/2011 0:00	3/24/2011 11:36	3/24/2011 11:36	3/24/2011 11:36
3/24/2011 0:00	3/24/2011 17:45	3/24/2011 18:00	3/24/2011 18:15
3/26/2011 0:00	3/26/2011 7:34	3/26/2011 7:34	3/26/2011 13:56
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 11:30
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 15:05
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 8:31

Grease deposition (FOG)
Debri-General
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Debri-General
Pipe structural problem/failure
Debri-General
Debri-Rags
Debri-Rags
Grease deposition (FOG)
Grease deposition (FOG)
Debri-General
Debri-General
Other (specify below)
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Other (specify below)
Debri-General
Flow exceeded capacity (Separate CS Only)
Debri-Rags
Other (specify below)
Operator error
Grease deposition (FOG)
Root intrusion
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Other (specify below)
Other (specify below)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Debri-Rags
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Root intrusion
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)

Inflow & Infiltration from storm surge caused the line to reach maximim hydraulic capacity.
Inflow & Infiltration from storm surge caused the line to reach maximim hydraulic capacity.
Inflow & Infiltration from storm surge caused the line to reach maximim hydraulic capacity.

Under investigation

Excessive rain and Inflow and infiltration
Due to excessive inflow and infiltration from storms, system has reached maximum hydraulic capacity and sewage has di

Overflow weir located at Harbour Way and Wright Ave surged due to excessive inflow and infiltration from storms causin

Not able to determine cause of spill. Still under investigation at this time.
Contractor working on line in area was bypassing line and pump failed, causing sewage to back-up. Operator was not at s

Storm caused inflow & infiltration into sewer line causing sewer to reach maximum hydraulic capacity.
System reached maximum hydraulic capacity and discharged at overflow weir.
Storm

Storms cauased system to reach maximum hydraulic capacity, which activated constructed overflow weir.

System is hyrdaulically overloaded due to recent storms.

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.
Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at manhole.

Excessive rain has caused sewer system to reach maximum hydraulic capacity causing sewer to overflow at overflow we

Main
Main

Main

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Main

Overflow weir located at Harbour Way and Wright Ave surged due to excessive inflow and infiltration from storms causing

g untreated sewage to discha

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Restored flow
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
Restored flow;Other (specify below)
Restored flow
Restored flow
Other (specify below)
Other (specify below)
Restored flow;Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Inspected sewer using CCTV to determine cause;Restored flow
Restored flow
Other (specify below)
Restored flow
Other (specify below)
Restored flow;Other (specify below)
Restored flow;Other (specify below)
Restored flow;Other (specify below)
Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill)
Restored flow
Restored flow;Other (specify below)
Restored flow;Other (specify below)
Other (specify below)
Restored flow;Returned all or portion of spill to sanitary sewer system
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)

Reported to site, mitigated spill downstream. Blocked off storm drain, cleaned up and returned all of spill to sanitary sewe

Due to excessive storm/rain, unable to restor flow at this time.

Not able to clean up spill due to storm and volume of discharge.

Unable to clean-up spill due to location of spill. Overflow weir is specifically constructed to relieve pipe when maximum h
Unable to clean up spill due to storm.
Unable to clean up spill due to storm.

Unable to cleanup until after rain stops
Unable to clean up due to storm.
Unable to restore flow at this time due to size of storm.
Unable to restore flow at this time due to heavy storms.
Flushed streets and recovered as much of flush water from storm drain system as possible.

Unable to clean-up spill due to direct discharge to Santa Fe Channel

Storm surge made clean-up impossible
Not able to restore flow at current time due to storm surge. Will continue efforts until storm subsides.
Not able to restore flow at current time due to storm surge. Will continue efforts until storm subsides.
Not able to restore flow at current time due to storm surge. Will continue efforts until storm subsides.
Crew is on is working to clean-up spill and restore flow. However, clean-up has been delayed until storms subside to conti

Unable to contain/clean-up spill due to size of storm.
Unable to clean up spill due to excessive rain from storms.
Unable to clean up spill at this time due to excessive rain from storms
Unable to clean up spill due to excessive rain from storms.

Electronically recording volume overflowing
Observe discharge
Observed discharge
Observed discharge

2/2/2010 12:10
2/5/2010 8:25
3/2/2010 11:00
3/2/2010 11:00
3/2/2010 10:00

12/19/2010 23:56
12/19/2010 9:19

12/29/2010 9:10

2/13/2011 2:00
2/17/2011 17:52
2/17/2011 13:20
2/17/2011 14:00
2/17/2011 14:30
2/17/2011 14:20
2/19/2011 22:34
2/19/2011 0:00
2/25/2011 3:10
2/25/2011 0:00
3/5/2011 11:20
3/18/2011 14:00
3/18/2011 14:00
3/18/2011 0:00
3/18/2011 14:00
3/19/2011 0:00
3/20/2011 3:00
3/20/2011 3:15
3/20/2011 3:15
3/23/2011 10:45
3/24/2011 11:00
3/24/2011 12:45
3/24/2011 11:45
3/24/2011 14:45
3/24/2011 0:00

3/26/2011 13:56
3/26/2011 11:30
3/26/2011 17:00
3/26/2011 0:00

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance
Other (specify below)
Other (specify below)
Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer

Added sewer to preventive maintenance program
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Other (specify below)
Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Adjusted schedule/method of preventive maintenance;Other (specify below)
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer
Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Ongoing investigation as to the recurring cause of overflows at this location.
Ongoing investigation as to the recurring cause of overflows at this location.
Ongoing investigation as to the recurring cause of overflows at this location.

Will video Sewer line for possible defects and adjust maintenance/repair schedule accordingly.

Planned investigation as to cause of SSO at this location.

Yes
Yes
Yes
Yes
Yes

Yes
Yes

Yes

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Yes
Yes
Yes
No

Not applicable

NA
NA

None
None
None

None
None-too dark to see visable signs

No
No
No
No
No

No
No

Yes

No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
No
No
No
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No
No
No
No
No
No
No

No
No
No
No

NA
NA
NA
NA
NA

None

None
NA
NA
NA

None
None.
Keller Beach

Keller Beach
Keller Beach
Keller Beach
Keller Beach
None
Keller Beach
None
None

None
None
None

None
None
None

None
None
None
None
None

SAN PABLO BAY
San Pablo Bay
San Francisco Bay
San Francisco Bay
Santa Fe Channel

None
NONE

San Pablo Bay
Santa Fe Channel
Santa Fe Channel
None
Sante Fe Channel
NA
None
None
N/A
None
Santa Fe Channel
Santa Fe Channel/ San Francisco Bay
Santa Fe Channel
Sante Fe Channel
Santa Fe Channel
Santa Fe Channel & San Francisco Bay
Santa Fe Channel
None
Santa Fe Channel
San Pablo Bay
San Pablo Bay
San Pablo Bay
Santa Fe Channel and San Francisco Bay
San Pablo Bay
Santa Fe Channel/San Francisco Bay
Santa Fe Channel
Santa Fe Channel
Santa Fe Channel
San Pablo Bay
San Pablo bay
San Pablo Bay
Santa Fe Channel
San Pablo Bay
Santa Fe Channel / San Francisco Bay
None
Santa Fe Channel a tributary of San Francisco Bay
San Pablo Creek System
San Pablo Creek System
San Pablo Creek System

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken

Dissolved oxygen;Biological indicator(s) - specify below
No water quality samples taken

Biological indicator(s) - specify below

No water quality samples taken
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Other chemical indicator(s) - specify below
No water quality samples taken
Biological indicator(s) - specify below
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below
No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

LOCATION APPROX. 3 MI. FROM SF BAY. (NON-STORM EVENT)

Total coliform and BOD

Total Coliform

Total coliform
Total coliform
total coliform
total coliform
total coliform
Total coliform
total coliform

Total Coliform
Due to distannce to surface water from spill location, no samples were taken.
Not able to take samples at this time.

Total Coliform
Total Coliform
Total Coliform

total coliform

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken

Regional Water Quality Control Board
No water quality samples taken

Regional Water Quality Control Board

None of the above
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
No water quality samples taken
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
None of the above;No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
County Health Agency;Regional Water Quality Control Board

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

100856	2/1/2010 0:00
100943	2/5/2010 10:24
101494	3/2/2010 9:18
101494	3/2/2010 9:18
101515	3/2/2010 6:32
105485	9/12/2010 13:00
105839	9/28/2010 15:30
107290	12/4/2010 17:38
107607	12/19/2010 6:15
107615	12/19/2010 9:05
107925	10/28/2010 21:14
107949	12/29/2010 10:32
110052	1/4/2011 13:25
110864	2/13/2011 2:08
110961	2/17/2011 11:50
110970	2/17/2011 14:15
110968	2/17/2011 14:00
110971	2/17/2011 14:35
110971	2/17/2011 14:30
111011	2/18/2011 22:22
111027	2/19/2011 13:09
111149	2/25/2011 2:21
111150	2/25/2011 2:39
111336	3/5/2011 11:33
111623	3/18/2011 13:25
111624	3/18/2011 13:29
111625	3/18/2011 13:48
111626	3/18/2011 13:50
111647	3/18/2011 21:56
111676	3/20/2011 1:03
111677	3/20/2011 0:04
111678	3/20/2011 1:06
111799	3/23/2011 7:57
111836	3/24/2011 10:16
111842	3/24/2011 11:42
111843	3/24/2011 11:46
111844	3/24/2011 11:52
111845	3/24/2011 11:56
111952	3/26/2011 8:04
111953	3/26/2011 8:58
111957	3/26/2011 9:30
111958	3/26/2011 9:45

2SSO10170	Active	764840	Bill Lindsay	Certified
2SSO10170	Active	764841	Bill Lindsay	Certified
2SSO10170	Active	765616	Bill Lindsay	Certified
2SSO10170	Active	766624	Bill Lindsay	Certified
2SSO10170	Active	767590	Bill Lindsay	Certified
2SSO10170	Active	767841	Bill Lindsay	Certified
2SSO10170	Active	768551	Bill Lindsay	Certified
2SSO10170	Active	770033	Stephen Friday	Certified
2SSO10170	Active	770037	Mary Phelps	Certified
2SSO10170	Active	770389	Mary Phelps	Certified
2SSO10170	Active	771624	Mary Phelps	Certified
2SSO10170	Active	771874	Mary Phelps	Certified
2SSO10170	Active	772953	Mary Phelps	Certified
2SSO10170	Active	773155	Mary Phelps	Certified
2SSO10170	Active	773502	Mary Phelps	Certified
2SSO10170	Active	773827	Mary Phelps	Certified
2SSO10170	Active	774750	Mary Phelps	Certified
2SSO10170	Active	775904	Mary Phelps	Certified
2SSO10170	Active	776245	Mary Phelps	Certified
2SSO10170	Active	776292	Mary Phelps	Certified
2SSO10170	Active	776763	Mary Phelps	Certified
2SSO10170	Active	778015	Mary Phelps	Certified
2SSO10170	Active	778129	Mary Phelps	Certified
2SSO10170	Active	778632	Mary Phelps	Certified
2SSO10170	Active	778640	Mary Phelps	Certified
2SSO10170	Active	778641	Mary Phelps	Certified
2SSO10170	Active	778643	Mary Phelps	Certified
2SSO10170	Active	778645	Mary Phelps	Certified
2SSO10170	Active	778652	Mary Phelps	Certified
2SSO10170	Active	778655	Mary Phelps	Certified
2SSO10170	Active	778729	Mary Phelps	Certified
2SSO10170	Active	778760	Mary Phelps	Certified
2SSO10170	Active	779157	Mary Phelps	Certified
2SSO10170	Active	780050	Mary Phelps	Certified
2SSO10170	Active	780861	Mary Phelps	Certified
2SSO10170	Active	780968	Mary Phelps	Certified
2SSO10170	Active	782056	Stephen Friday	Certified
2SSO10170	Active	784459	Mary Phelps	Certified
2SSO10170	Active	784460	Mary Phelps	Certified
2SSO10170	Active	785084	Mary Phelps	Certified
2SSO10170	Active	785844	Mary Phelps	Certified
2SSO10170	Active	786240	Mary Phelps	Certified
2SSO10170	Active	786583	Mary Phelps	Certified
2SSO10170	Active	787205	Mary Phelps	Certified
2SSO10170	Active	788605	Mary Phelps	Certified
2SSO10170	Active	788643	Mary Phelps	Certified
2SSO10170	Active	788646	Mary Phelps	Certified
2SSO10170	Active	788647	Mary Phelps	Certified
2SSO10170	Active	788648	Mary Phelps	Certified
2SSO10170	Active	788650	Mary Phelps	Certified
2SSO10170	Active	788655	Mary Phelps	Certified
2SSO10170	Active	788677	Mary Phelps	Certified
2SSO10170	Active	788736	Mary Phelps	Certified
2SSO10170	Active	789152	Mary Phelps	Certified
2SSO10170	Active	789282	Mary Phelps	Certified

City manager
City Manager
City Manager
City Manager
City Manager
City Manager
City Manager
Sr. Industrial Waste Inspector
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
Source Control Inspector III
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Source Control Inspector III
Source Control Inspector III

City Hall	395288
City Hall	703168
City Hall	251481
City Hall	354691
City Hall	674345
City Hall	468817
City Hall	341236
City of Richmond	117647
Richmond, CA	527720
Richmond, CA	904477
Richmond, CA	123569
Richmond, CA	958618
Richmond, CA	851435
Richmond, CA	811876
Richmond, CA	951442
Richmond, CA	790617
Richmond, CA	412143
Richmond, CA	281899
Richmond, CA	765786
Richmond, CA	573343
Richmond, CA	560124
Richmond, CA	747709
Richmond, CA	476071
Richmond, CA	726802
Richmond, CA	141571
Richmond, CA	305019
Richmond, CA	853086
Richmond, CA	469267
Richmond, CA	728765
Richmond, CA	189983
Richmond, CA	682987
Richmond, CA	715979
Richmond, CA	390499
Richmond, CA	373234
Richmond, CA	516844
Richmond, CA	158836
City of Richmond	378026
Richmond, CA	584583
Richmond, CA	496686
Richmond, CA	133819
Richmond, CA	299184
Richmond, CA	618993
Richmond, CA	779027
Richmond, CA	753333
Richmond, CA	112280
Richmond, CA	830639
Richmond, CA	682025
Richmond, CA	919811
Richmond, CA	121911
Richmond, CA	200606
Richmond, CA	921098
Richmond, CA	161623
Richmond, CA	516659
Richmond, CA	793441
Richmond, CA	240043

26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
26-Mar-11	3/26/2011	21-Jul-11	7/21/2011
19-Apr-11	4/19/2011	21-Jul-11	7/21/2011
17-May-11	5/17/2011	21-Jul-11	7/21/2011
17-Jun-11	6/17/2011	21-Jul-11	7/21/2011
27-Jun-11	6/27/2011	21-Jul-11	7/21/2011
16-Jul-11	7/21/2011	21-Jul-11	7/21/2011
19-Aug-11	8/19/2011	6-Sep-11	9/6/2011
19-Aug-11	8/19/2011	25-Oct-11	10/25/2011
26-Aug-11	8/26/2011	25-Oct-11	10/25/2011
30-Sep-11	9/30/2011	10-Nov-11	11/10/2011
9-Oct-11	10/9/2011	10-Nov-11	11/10/2011
10-Nov-11	11/10/2011	10-Nov-11	11/10/2011
15-Nov-11	11/17/2011	1-Dec-11	12/1/2011
28-Nov-11	11/28/2011	8-Dec-11	12/8/2011
8-Dec-11	12/8/2011	22-Dec-11	12/22/2011
25-Dec-11	12/25/2011	23-Jan-12	1/23/2012
14-Jan-12	1/14/2012	2-Feb-12	2/2/2012
23-Jan-12	1/23/2012	8-Mar-12	3/8/2012
23-Jan-12	1/23/2012	16-Feb-12	2/16/2012
2-Feb-12	2/2/2012	16-Feb-12	2/16/2012
27-Feb-12	2/27/2012	4-Apr-12	4/4/2012
29-Feb-12	2/29/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
14-Mar-12	3/14/2012	5-Apr-12	4/5/2012
15-Mar-12	3/15/2012	5-Apr-12	4/5/2012
16-Mar-12	3/16/2012	5-Apr-12	4/5/2012
27-Mar-12	3/27/2012	4-Apr-12	4/5/2012
12-Apr-12	4/12/2012	25-Apr-12	4/25/2012
1-May-12	5/1/2012	30-May-12	5/30/2012
4-May-12	5/4/2012	30-May-12	5/30/2012
11-Jun-12	6/11/2012	22-Jun-12	6/22/2012
31-Jul-12	7/31/2012	31-Aug-12	8/31/2012
31-Jul-12	7/31/2012	31-Aug-12	8/31/2012
13-Aug-12	8/28/2012	28-Aug-12	8/28/2012
31-Aug-12	8/31/2012	1-Oct-12	10/1/2012
14-Sep-12	10/31/2012	31-Oct-12	10/31/2012
25-Sep-12	10/31/2012	31-Oct-12	10/31/2012
15-Oct-12	10/15/2012	30-Nov-12	11/30/2012
30-Nov-12	11/30/2012	18-Dec-12	3/14/2013
1-Dec-12	12/18/2012	18-Dec-12	12/18/2012
2-Dec-12	12/18/2012	18-Dec-12	12/18/2012
2-Dec-12	12/19/2012	19-Dec-12	12/19/2012
2-Dec-12	12/18/2012	18-Dec-12	3/14/2013
2-Dec-12	12/19/2012	19-Dec-12	12/19/2012
2-Dec-12	12/19/2012	19-Dec-12	12/19/2012
3-Dec-12	12/3/2012	19-Dec-12	12/19/2012
4-Dec-12	12/19/2012	19-Dec-12	12/19/2012
19-Dec-12	12/21/2012	21-Dec-12	12/21/2012
23-Dec-12	1/7/2013	7-Jan-13	1/7/2013

Category 1	76520	0
Category 1	2380	0
Category 3	50	50
Category 3	25	25
Category 3	10	10
Category 3	45	45
Category 1	100	55
Category 3	100	0
Category 1	100	0
Category 1	4000	0
Category 3	10	0
Category 3	10	0
Category 3	1	1
Category 3	30	20
Category 1	25	0
Category 1	20000	0
Category 3	300	300
Category 3	240	20
Category 1	600	0
Category 1	480	0
Category 3	125	125
Category 3	75	75
Category 3	50	50
Category 1	5415333	0
Category 1	206150	0
Category 1	292800	0
Category 1	292500	0
Category 1	479520	0
Category 1	80325	0
Category 1	58850	0
Category 1	7000	0
Category 1	50	0
Category 1	5557	0
Category 3	200	100
Category 3	795	120
Category 3	10	10
Category 3	40	30
Category 3	847	847
Category 3	300	300
Category 1	10	0
Category 3	675	675
Category 3	540	540
Category 3	5	5
Category 3	540	540
Category 1	360	0
Category 1	2200	0
Category 1	5925	0
Category 1	334783	0
Category 1	1775	0
Category 1	3550	0
Category 1	900	0
Category 1	750	375
Category 1	71	0
Category 3	980	980
Category 1	209035	0

76520	Yes	Yes
2380	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
45	Yes	Yes
0	No	No
100	Yes	Yes
1500	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
25	Yes	Yes
20000	Yes	Yes
0	No	No
0	No	Yes
600	Yes	Yes
480	Yes	Yes
0	No	Yes
0	No	No
0	No	No
5415333	Yes	Yes
206150	Yes	Yes
292800	Yes	Yes
292500	Yes	Yes
479520	Yes	Yes
80325	Yes	Yes
58850	Yes	Yes
7000	Yes	Yes
50	Yes	Yes
5557	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	Yes
0	No	No
0	No	No
10	Yes	Yes
0	No	Yes
0	No	Yes
0	No	No
0	No	Yes
360	Yes	Yes
2200	Yes	Yes
5925	Yes	Yes
334783	Yes	Yes
1775	Yes	Yes
3550	Yes	Yes
900	Yes	Yes
375	No	Yes
71	Yes	Yes
0	No	No
209035	Yes	Yes

No
No
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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No
Not Applicable - Spill did not reach a separate storm drainpipe
No

2824 Regatta Boulevard
23rd Street & Cutting Boulevard
4925 Macdonald Ave. Safeway Store
651 41st Street
157 South 20th Street
2541 Rheem Avenue
San Pablo Ave & Nevin Ave
305 Golden Gate Avenue
Keller Beach Manhole
35th & Bissell Ave
444 Key Blvd
659 S 21 St.
10823 San Pablo Ave
2120 Lincoln Ave
3429 Cutting Blvd
1 West Richmond Ave
1612 Bissell Ave
332 S 41st St
842 Amador Ave
1501 Rheem Ave
#6 13th Street
1420 Pennsylvania Avenue
5308 Zara Avenue
Harbour & Wright Ave
1301 Dunn Ave
2301 Cutting Blvd
3201 Leona Ave
300 West Chanslor Ave
3501 Wall Ave
1900 Meeker Ave
441 Santa Fe Ave
441 Santa Fe. Ave
860 Wright Ave.
2280 Key Blvd
615 Western Drive
973 29th Street
Intersection of Humboldt Street and Garvin Avenue
West Chanslor & Collins Ct.
1405 Hellings Ave
36 17th Street
516 Dimm St.
1900 Macdonald Ave
1315 Bishop Avenue
21st Street & Macdonald Ave (AC Transit Building)
2535 Andrade Ave
1300 Dunn Ave.
1300 Dunn Ave
Harbour & Wright
South 23rd & Cutting (North Side)
South 23rd and Cutting Blvd (South)
3rd & Pennsylvania Ave
3600 Cutting Blvd
2400 Maine Ave
1604 Visalia Ave.
860 Harbour Way South

37.91467	-122.34168	Contra Costa
37.92523	-122.34765	Contra Costa
37.93286	-122.32301	Contra Costa
37.939376	-122.329592	Contra Costa
37.92966	-122.35068	Contra Costa
37.95009	-122.3435	Contra Costa
38.00651	-122.28914	Contra Costa
37.92635	-122.38874	Contra Costa
37.92093	-122.3867	Contra Costa
37.93318	-122.33601	Contra Costa
37.93474	-122.32246	Contra Costa
37.92283	-122.34988	Contra Costa
37.91413	-122.31064	Contra Costa
37.94576	-122.34873	Contra Costa
37.92545	-122.33634	Contra Costa
37.92495	-122.38463	Contra Costa
37.93406	-122.35394	Contra Costa
37.92714	-122.33037	Contra Costa
37.94621	-122.32413	Contra Costa
37.9496	-122.35553	Contra Costa
37.93173	-122.35666	Contra Costa
37.94187	-122.3559	Contra Costa
37.9378	-122.32043	Contra Costa
37.92084	-122.36006	Contra Costa
37.94868	-122.35692	Contra Costa
37.92516	-122.34764	Contra Costa
37.93263	-122.33862	Contra Costa
37.93284	-122.37388	Contra Costa
37.92804	-122.33666	Contra Costa
37.91943	-122.35067	Contra Costa
37.92504	-122.38836	Contra Costa
37.92504	-122.38836	Contra Costa
37.92	-122.35916	Contra Costa
37.93119	-122.32112	Contra Costa
37.92815	-122.39289	Contra Costa
37.94562	-122.33884	Contra Costa
37.945	-122.32514	Contra Costa
37.93455	-122.37077	Contra Costa
37.94834	-122.35623	Contra Costa
37.93076	-122.35307	Contra Costa
37.93652	-122.32228	Contra Costa
37.93568	-122.35204	Contra Costa
37.92336	-122.38818	Contra Costa
37.93573	-122.34952	Contra Costa
37.948	-122.3435	Contra Costa
37.94868	-122.35692	Contra Costa
37.94868	-122.35692	Contra Costa
37.92001	-122.35968	Contra Costa
37.92489	-122.34742	Contra Costa
37.92523	-122.34761	Contra Costa
37.94259	-122.36668	Contra Costa
37.92525	-122.33517	Contra Costa
37.92776	-122.34647	Contra Costa
37.94647	-122.35433	Contra Costa
37.92001	-122.35968	Contra Costa

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Manhole located at driveway of Safeway store
Manhole near Wilson Elementary School
Shower drain inside home
Private lateral overflowed to to a blockage in the City's sanitary sewer main.
Clean-out near address

Manhole upstream of Kellers Beach area was blocked with debris causing sewage to discharge onto the beach and into th

Backyard area
Resident's backyard
Clean out at curb at address of 10823 San Pablo Ave.

Clean-out in Church sidewalk-planting strip
Broken pipe cross-connected to storm drain
Manhole in middle of street.

Overflow weir at Harbour Way South and Wright
Manhole overflowing
Manhole

Manhole overflowing due to storm surge

Manhole
Clean-out overflowing due to blockage in main line.
Engineered Overflow weir

Clean-out in front of resident's home
Spill originated from location name but entered storm drain inlet at the intersection of Humboldt Street and Solano Avenu
Street and gutter

Manhole

Clean-out in front yard of private residence
Manhole surging due to storm
clean-out/manhole
Engineered overflow weir
Manhole near storm drain

Manhole
Engineered overflow weir

ıe sand.

e (one block away)

Manhole
Manhole
Manhole
Manhole
Building or structure
Other (specify)
Gravity sewer;Manhole
Other (specify)
Manhole
Gravity sewer
Manhole
Gravity sewer;Manhole;Other sewer system structure
Other (specify)
Other (specify)
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Other (specify)
Building or structure
Other sewer system structure
Manhole
Manhole
Manhole
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Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other (specify)
Other sewer system structure
Manhole
Other (specify)
Other (specify)
Manhole
Other sewer system structure
Gravity sewer;Manhole
Manhole
Manhole;Other sewer system structure
Other sewer system structure
Gravity sewer;Manhole
Manhole
Other (specify)
Manhole
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Other (specify)

Private Lateral cleanout downstream of its backflow prevention device.
clean-out near address
Clear water containing high levels of ammonia upwelling from the hillside ground was orignally believed from a private lat

Manhole
clean-out located in backyard/easement area
cleanout in backyard
Clean out at curb at address of 10823 San Pablo Ave.
Front yard (grass) at Resident's home.
Clean-out
Sewer pipe

clean-out on property discharged to sidewalk, eventually discharging (flowing) to Storm drain.
EBMUD utility box

Engineered overflow weir

Severe storm is overloading system causing manhole to overflow.

Clean-out
Enigineered overflow weir
Clean-out
Cracks in street and ground
Clean-out
Intersection of Humboldt Street & Garvin Avenue
Cracks in street
Cracks in gutter

Private clean-out

Clean-out in front of building
Clean-out in front of private residence

Engineered overflow weir

Manhole overflowing due to blockage
Engineered overflow weir

Separate storm drain
Separate storm drain
Other paved surface
Street/curb and gutter
Building or structure
Street/curb and gutter
Other paved surface;Street/curb and gutter;Unpaved surface
Street/curb and gutter;Unpaved surface;Other (specify below)
Beach
Other paved surface
Other (specify below)
Unpaved surface
Street/curb and gutter
Other (specify below)
Street/curb and gutter
Surface water
Street/curb and gutter
Separate storm drain
Street/curb and gutter;Surface water
Other paved surface;Separate storm drain
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter
Building or structure
Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Surface water
Beach;Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water;Other (specify below)
Surface water
Street/curb and gutter
Unpaved surface
Other paved surface;Street/curb and gutter
Separate storm drain
Street/curb and gutter
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Other (specify below)
Street/curb and gutter
Street/curb and gutter;Other (specify below)
Street/curb and gutter
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Separate storm drain;Surface water
Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter;Unpaved surface
Surface water

Manhole - spill completely contained and returned to system
Sewage spilled from manhole into street and was contained in gutter.

CIty's sewer crew was able to collect all the overflowing sewage.
drainage ditch
It perculated into ground approximately 20 feet downhill from the point of origin.
Sewage spilled onto the sand of the beach.

Grassy area of backyard of Richmond Resident
resident's backyard
Street/curb during clean-up, then sewage returned to sanitary sewer system.
Front yard (grass) at Resident's home
Spill was reported late to District, so it's assumed that spill discharged into gutter and eventually to storm drain. Debris/m
Santa Fe Channel
No storm drains in area with sewage. Crew investigated all nearby drop-inlets, no residue, nor sewage present.

Santa Fe Channel

Sewage is flowing downhill to the stormdrain, which eventually may discharge near Keller Beach.
Clean-out flowing downhill and discharging (potentially) at Keller Beach

Sewage perculated into the ground 300 feet down the street from the source.
Street and drive-way at and near Resident's home

Storm drain pump station

Spill discharged into storm drain system, which is captured by the the storm drain pump station at 15th St. & Bissell Ave.

Street area eventually discharging into San Pablo Bay

Storm located within one foot of spill. Therefore crew was unable to recover any portion spilled.

3/26/2011 0:00	3/26/2011 8:31	3/26/2011 8:31	3/26/2011 0:00
3/26/2011 0:00	3/26/2011 8:31	3/26/2011 9:30	3/26/2011 0:00
4/19/2011 0:00	4/19/2011 8:10	4/19/2011 8:20	4/28/2011 8:28
5/17/2011 0:00	5/17/2011 15:11	5/17/2011 15:20	5/17/2011 15:25
6/11/2011 0:00	6/11/2011 12:44	6/11/2011 13:35	6/11/2011 14:35
6/24/2011 0:00	6/24/2011 19:00	6/24/2011 19:30	6/24/2011 19:45
7/16/2011 0:00	7/16/2011 19:00	7/16/2011 19:35	7/16/2011 19:45
8/12/2011 0:00	8/12/2011 14:00	8/15/2011 9:00	8/19/2011 11:30
8/19/2011 0:00	8/19/2011 16:50	8/19/2011 17:15	8/19/2011 17:15
8/18/2011 0:00	8/26/2011 7:45	8/26/2011 8:45	8/26/2011 8:45
9/28/2011 0:00	9/28/2011 7:00	9/28/2011 7:15	9/28/2011 9:05
10/9/2011 0:00	10/9/2011 20:40	10/9/2011 21:15	10/9/2011 22:00
10/17/2011 15:20	10/17/2011 16:20	10/17/2011 17:15	10/17/2011 18:45
11/15/2011 16:30	11/15/2011 16:45	11/15/2011 17:25	11/15/2011 17:55
11/26/2011 16:45	11/28/2011 10:55	11/28/2011 11:10	11/28/2011 12:00
12/8/2011 9:00	12/8/2011 9:00	12/8/2011 9:00	12/8/2011 11:30
12/24/2011 16:45	12/24/2011 17:30	12/24/2011 18:15	12/24/2011 19:20
1/14/2012 21:42	1/14/2012 21:42	1/14/2012 22:30	1/14/2012 23:20
1/23/2012 0:00	1/23/2012 8:51	1/23/2012 10:50	1/23/2012 11:30
1/23/2012 15:50	1/23/2012 15:50	1/23/2012 16:30	1/23/2012 16:40
2/2/2012 7:45	2/2/2012 8:15	2/28/2012 8:35	2/2/2012 9:40
2/27/2012 8:25	2/27/2012 8:25	2/27/2012 8:40	2/27/2012 8:50
2/29/2012 16:00	2/29/2012 19:30	2/29/2012 20:15	2/29/2012 18:30
3/14/2012 6:03	3/14/2012 6:15	3/14/2012 6:15	3/15/2012 0:59
3/14/2012 7:05	3/14/2012 9:15	3/14/2012 9:15	3/15/2012 5:15
3/14/2012 6:00	3/14/2012 8:45	3/14/2012 9:30	3/14/2012 22:00
3/14/2012 8:05	3/14/2012 9:30	3/14/2012 9:50	3/14/2012 21:05
3/14/2012 5:03	3/14/2012 9:00	3/14/2012 10:30	3/15/2012 3:15
3/14/2012 9:00	3/14/2014 13:15	3/14/2014 13:20	3/14/2012 21:45
3/14/2012 7:15	3/14/2012 13:50	3/14/2012 14:20	3/15/2012 1:05
3/14/2012 15:00	3/15/2012 15:15	3/15/2012 15:45	3/15/2012 16:45
3/16/2012 8:30	3/16/2012 9:00	3/16/2012 9:20	3/16/2012 9:20
3/27/2012 22:03	3/27/2012 22:03	3/27/2012 22:15	3/27/2012 22:57
4/12/2012 20:15	4/12/2012 20:15	4/12/2012 21:00	4/12/2012 21:40
4/30/2012 10:00	5/1/2012 11:10	5/1/2012 11:30	5/1/2012 12:30
5/4/2012 8:15	5/4/2012 8:45	5/4/2012 10:30	5/4/2012 11:00
6/11/2012 9:00	6/11/2012 9:25	6/11/2012 9:45	6/11/2012 10:00
7/6/2012 16:45	7/7/2012 21:30	7/7/2012 22:30	7/7/2012 23:15
7/16/2012 9:00	7/16/2012 14:45	7/16/2012 15:05	7/16/2012 15:15
8/10/2012 0:00	8/13/2012 14:50	8/13/2012 15:15	8/13/2012 16:00
8/10/2012 7:30	8/10/2012 7:45	8/10/2012 8:00	8/10/2012 8:15
9/14/2012 17:20	9/14/2012 18:15	9/14/2012 18:45	9/14/2012 19:20
9/25/2012 11:00	9/25/2012 11:00	9/25/2012 11:15	9/25/2012 12:00
10/14/2012 12:00	10/15/2012 11:30	10/15/2012 12:00	10/15/2012 12:05
11/30/2012 8:30	11/30/2012 8:45	11/30/2012 9:30	11/30/2012 10:00
12/1/2012 10:00	12/1/2012 10:10	12/1/2012 10:10	12/1/2012 14:00
12/2/2012 9:20	12/2/2012 9:20	12/2/2012 9:20	12/2/2012 15:35
12/2/2012 9:27	12/2/2012 9:27	12/2/2012 9:27	12/2/2012 13:55
12/2/2012 9:35	12/2/2012 9:35	12/2/2012 9:50	12/2/2012 13:18
12/2/2012 9:35	12/2/2012 9:35	12/2/2012 9:40	12/2/2012 13:18
12/2/2012 12:30	12/2/2012 12:45	12/2/2012 12:55	12/2/2012 16:45
12/3/2012 10:00	12/3/2012 10:15	12/3/2012 10:25	12/3/2012 10:25
12/4/2012 8:00	12/4/2012 8:30	12/4/2012 8:50	12/4/2012 9:15
12/12/2012 11:00	12/12/2012 11:00	12/12/2012 11:15	12/12/2012 12:40
12/23/2012 13:59	12/23/2012 13:59	12/23/2013 14:09	12/23/2012 17:26

Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Grease deposition (FOG)
Debri-General
Debri-Rags
Grease deposition (FOG)
Debri-General
Debri-Rags
Debri-General
Debri-General
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Pipe structural problem/failure
Grease deposition (FOG)
Debri-General
Debri-General
Debri-Rags
Other (specify below)
Grease deposition (FOG)
Other (specify below)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Root intrusion
Root intrusion
Flow exceeded capacity (Separate CS Only)
Debri-General
Pipe structural problem/failure
Pipe structural problem/failure
Debri-Rags
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Debri-General
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Root intrusion
Other (specify below)
Root intrusion
Rainfall exceeded design (Separate CS Only)

Grease and roots at the next segment down MH#E14MH1982_E14MH469 where the blockage was located.

Main line showed heavy deposits of grease after cleaning. Resident did not report back-up to agency until Monday mornir
Broken sewer pipe, cross connected to storm drain. Spill start and arrival time are the same, because the operator is the
Grease and rags in sewer line.

Cause is unknown at this time.
See attached investigative report
Unknown at this time...still under investigation.
Severe storm event caused system to be hydraulically overloaded
Severe Storm event
Severe storm caused systemt become overloaded.
Severe storm event overloaded sewer system.
Severe storm event caused the system to become hydraulically overloaded.
Severe storm impacting hydraulic capacity of sewer causing manhole to overflow.
Storm surge caused sewer to overflow.
Resident did not report spill immediately. Thought that manhole overflowing was storm drain. Possibly due to storm. Whe

Severe storm resulted in excessive inflow and infiltration. This caused the sanitary sewer system to reach maximum hydr

Broken pieces of pipe were stuck in the main line at 121 ft. Call-out crew speculates that the broken pieces of pipe came
Broken Main line, potentially damaged due to broken lateral line.
The obstruction of rags and grease was cleared 282' downstream of overflowing manhole.

Residential area
Root intrusion and broken pipe

Heavy grease deposited in main line.

Excessive rain caused pipe to reach maximum hydraulic capacity
Severe storm caused pipe to reach maximum hydraulic capacity.

Severe Storm caused pipe to exceed maximum hyrdraulic capacity.
Storm caused pipe to exceed maximum hydraulic capacity.

Root intrusion combined with Grease caused a blockage in the mainline. Upon arrival, spill was minimal. Based on volum
Obstruction
Several large trees in the vacinity potentially causing root intrusion problem
Severe storms and I&I caused system to exceed hydraulic capacity.

Main
Main
Main
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Other (specify below)
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Other (specify below)
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Other (specify below)
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Main
Other (specify below)

The main had a hard plug, it was removed and a new connection was installed in the manhole.

Resident reported that spill had been ongoing for more than 8 days, but had not reported it until 8/26/2011. Mainline is blc

Grease and roots at the next segment down MH#E14MH1982_E14MH469 where the blockage was located.

During routine maintenance, operator noticed that pipe discharge was not Normal after TV'ing the line, he noticed that th

Sewage backed up into basement of home.
System is currently hydraulically overloaded to do on-going severe storms.

Resident did not call SSO in right away due to they thought it was a storm drain manhole flooding because of the storm.

Previous call was reported as due to storm. After investigating call-out, it was determined that there were excessive roots

Service line

Engineered overflow weir.

Engineered overflow weir

ɔcked. Crew is working on cle 8

6 VCP
6

ıe discharge had been cross-

6 VCP

infiltrating the sewer main ca

6 VCP

Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill)
Other (specify below)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Other (specify belc
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Inspected sewer using CCTV to determine cause;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Other (specify below)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Inspected sewer using CCTV to determine cause;Restored flow;Returned all or portion of spill to sanitary sewer system
Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Other (specify below)

Observed discharge
Observed discharge
N/A

Sewage perculated into ground.
Due to spill soaking into beach area, unable to clean-up/contain spill and return to sanitary sewer system.
Washed down area and cleaned up and much of debris as possible. Returned portion of spill to sewer. Most of material w
Since the area was a grassy backyard, a small portion of the spill (10 gallons) had soaked into the ground from the line le

Used 20 gallons of flush water to clean area. Vactored flush water and sewage and returned to sewer system. Flush wate
Used wash water to in an effort to dilute the amount of sewage that had soaked into the grass area of the resident's yard.
Cleaned up area. Blocked storm drain upstream of location. Flushed and vactored debris in drain and returned wash wate
Have placed temporary plug in line to prevent further discharge. Will vactor sewage discharging upstream of spill and tru
Crew vactored spill. Used approximate 100 gallons of flush water to clean area. Flush water was vactored along with spill

Operator on site investigating cause to deremine course of action

Crew is currenlty on side ascertaining the effects of the spill.

City contracted restoration cleanup company to sanitize and repair sewage damage.
Unable to clean up spill. Spill is currently discharging to Santa Fe Channel through an engineered overflow weir
Unable to clean up spill due to severe storm
Unable to clean up spill due to significant storm event.
Unable to clean up spill at this time due to severe storm event.
Unable to clean up spill due to severe storms.
Unable to clean up spill due to severity of storm.
Unable to clean up spill due to storm.
Cut root intrusion out of sewer pipe. Recommend adding sewer line to CIP list.
Cleaned out roots and washed down area. Beach area still closed from storm event/spills from 03/14/2012.
Due to severe storm, unable to clean up/mitigate spill.

Public Works crew noticed clean-out debris and called Wastewater department. Resident was not home. Neighbor report

see attachment
Spill discharged into storm drain pump station. Crew checked if pump station had been operating at the time of the spill. E

Incident occurred on 10/14/12. City was not notified of incident until 10/15/12. Resident stated that he did not know who

Unable to contain or clean-up spill to constant rain and storms.
Unable to clean-out due to severe storm conditions.
Unable to clean-up spill due to severe storm and flowing out engineered overflow weir
Unable to contain or clean-up spill due to severe storm.
Unable to provide clean-up due to severe storm
Unrecoverable due to storm surge

Crew arrived on site and cleared blockage, storm drain is located approximately 15 ft. from incident. Unable to recover sp
Large volume spilled. NO storm drains in nearby area. All of spill was recovered and returned to the sanitary sewer. Area
CIP project underway for excess storage capacity.

3/26/2011 0:00
3/26/2011 0:00

7/16/2011 21:20

8/19/2011 18:30
8/26/2011 9:00

11/28/2011 12:20
12/8/2011 18:20

1/14/2012 23:30
1/23/2012 11:30
1/23/2012 19:00
2/2/2012 9:55

3/15/2012 0:59
3/15/2012 5:15
3/14/2012 22:00
3/14/2012 21:05
3/15/2012 3:15
3/14/2012 21:45
3/15/2012 1:05
3/15/2012 18:45
3/16/2012 11:00
3/27/2012 22:57
4/12/2012 0:00

6/11/2012 10:00

8/13/2012 16:00

11/30/2012 10:15
12/1/2012 14:00
12/2/2012 15:35
12/2/2012 13:15
12/2/2012 13:18
12/2/2012 14:00
12/2/2012 16:45
12/3/2012 10:30
12/4/2012 9:30

12/23/2012 17:26

Adjusted schedule/method of preventive maintenance
Other (specify below)

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b

Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Other (specify below)
Adjusted schedule/method of preventive maintenance
Other (specify below)
Added sewer to preventive maintenance program
Plan rehabilitation or replacement of sewer;Other (specify below)
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance

Other (specify below)

Added sewer to preventive maintenance program

Other (specify below)
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Other (specify below)
Added sewer to preventive maintenance program;Repaired sewer;Other (specify below)
Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Observed discharge

Will video sewer line to determine if repairs are needed.

Will put this segment on watch list of lines for potential grease issues.
Will meet with other management staff to determine location of lateral line replacement. Please see attached report for ir

See attached report.

Will investigate cause by televising line as soon as possible
Will investigate cause once storm has subsided.
Will investigate cause once storm subsides.

Investigation regarding damage/cause will need to be conducted.

Due to storm, spill was diluted. Unable to determine exactly the amount of sewage spilled. When crew arrived, they mana

Cleaned surface area; curb & gutter.

Will CCTV line as soon as storm subsides

Unable to contain or clean-up due to storm surge.
Will CCTV line to determine potential cause for root intrusion
Will CCTV line to determine cause for blockage.

CIP project underway.

Yes
Yes

Yes

Yes
Yes

Yes
Yes

Yes
Yes
Yes
Yes

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

No

Yes

No
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

Yes

N/A
N/A
N/A Did not discharge to receiving water.

None. Sewage soaked into beach area. Beach closed.
None visual
Not applicable.

N/A

N/A
No physical impacts reported. Will sample for coliform.
Not applicable.

Not applicable

N/A

Not applicable

N/A

N/A

No
No

No

Yes
No

No
Yes

No
No
No
No

Yes
No
No
Yes
No
Yes
Yes
Yes
Yes
No
Yes

No

No

No
No
No
No
No
No
No
No
No

No

N/A
N/A
N/A Did not discharge to receiving water.

Kellar Beach,Richmond, ca
None
None.

N/A

None. Not able to determine at this time.
No beach impacted
Not applicable

N/A

None. Spill was completely contained.
N/A

None. Boat Ramp Rd has public access for Kayaking. Will post health warning signs.
None
None
None

Possibly Keller Beach. East Bay Regional Parks will post beach closure signs.
Keller Beach
None
n/a
N/A

Not applicable

N/A
Not applicable
Not applicable
None
Keller Beach - warning signs will be posted as soon as storm subsides. No public access expected due to nature of sever
N/A
NA
NA
Not applicable

N/A
(potentially) Keller Beach. Road to beach area closed due to heavy storms.

San Francisco Bay
Santa Fe Channel
Not applicable
None
N/A Did not discharge to receiving water.
None
Not applicable
None
San Francisco Bay
San Francisco Bay
None.
None
N/A
None
Potentially San Francisco Bay.
Santa Fe Channel and San Francisco Bay
Not applicable. Spill did not reach waters of the state.
San Francisco Bay
Meeker Slough
San Pablo Bay
None. Spill was completely contained.
None
none
San Francisco Bay
San Francisco Bay
San Francisco Bay
San Francisco Bay
San Pablo Bay
San Francisco and (perhaps) San Pablo Bay
San Pablo Bay
San Francisco Bay
San Francisco Bay
Santa Fe Channel and San Francisco Bay
n/a
N/A. Spill did not discharge to storm drain system.
N/A
San Francisco Bay
Not applicable
Not applicable
Santa Fe Channel
Not applicable
None - did not discharge to waters of the state.
None
N/A
San Pablo Bay
San Pablo Bay
San Pablo Bay
Santa Fe Channel and San Francisco Bay
Santa Fe Channel/San Francisco Bay
Santa Fe Channel/San Francisco Bay
San Francisco Bay
San Francisco Bay
San Francisco Bay
None
Santa Fe Channel and San Francisco Bay

No water quality samples taken
No water quality samples taken

Not applicable to this spill

Not applicable to this spill
No water quality samples taken;Not applicable to this spill

No water quality samples taken
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken;Not applicable to this spill

Biological indicator(s) - specify below
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
Other (specify below)
Other chemical indicator(s) - specify below
No water quality samples taken
No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

No water quality samples taken;Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

Other (specify below)

Sewage soaked into sand unable to sample.

total coliform and fecal coliform

Not sampled due to inability to reach area.

Coliform and fecal coliform

Unable to sample due to storms.

Unable to sample.
Unable to sample due to safety issues at location of spill. Will investigate to determine if able to sample at public beach a
East Bay Regional Parks will sample for biological test.

Spill occured greater than one mile inland

Unable to take samples due to personnel safety issues (severe storm hazards - impossible to gain access safely).

Samples will not be taken due to severity of storm. If samples are taken at spill location, they will exceed the health limit f

No water quality samples taken
No water quality samples taken

None of the above

No water quality samples taken
No water quality samples taken;Not applicable to this spill

No water quality samples taken
County Health Agency;Regional Water Quality Control Board

No water quality samples taken
No water quality samples taken
Not applicable to this spill
No water quality samples taken;Not applicable to this spill

County Health Agency
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
None of the above
None of the above
No water quality samples taken
No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

No water quality samples taken
No water quality samples taken
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No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken

N/A
East Bay Regional Parks will conduct sampling and report to City of Richmond and County Health.
Pending.

111959	3/26/2011 9:45
111961	3/26/2011 9:45
114245	7/16/2011 20:01
114947	8/19/2011 17:35
115060	8/26/2011 9:10
117036	11/28/2011 12:10
117265	12/8/2011 10:20
120264	1/14/2012 22:50
120461	1/23/2012 10:45
120487	1/23/2012 17:40
120667	2/2/2012 8:30
121458	3/14/2012 6:47
121465	3/12/2012 9:35
121466	3/14/2012 9:40
121470	3/14/2012 9:58
121476	3/14/2012 10:33
121486	3/14/2012 13:25
121488	3/14/2012 14:20
121527	3/15/2012 15:50
121541	3/16/2012 9:28
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122179	4/12/2012 21:10
123393	6/11/2012 10:20
124770	8/13/2012 15:55
127241	11/30/2012 10:20
127278	12/1/2012 11:32
127278	12/2/2012 9:41
127298	12/2/2012 9:41
127298	12/2/2012 9:42
127298	12/2/2012 9:42
127318	12/2/2012 13:35
127365	12/3/2012 10:40
127309	12/4/2012 9:35
127842	12/23/2012 14:16

2SSO10170	Active	789283	Mary Phelps	Certified
2SSO10170	Active	789285	Mary Phelps	Certified
2SSO10170	Active	789286	Mary Phelps	Certified
2SSO10170	Active	789287	Mary Phelps	Certified
2SSO10170	Active	789288	Mary Phelps	Certified
2SSO10170	Active	789391	Mary Phelps	Certified
2SSO10170	Active	789444	Mary Phelps	Certified
2SSO10170	Active	789596	Mary Phelps	Certified
2SSO10170	Active	790028	Mary Phelps	Certified
2SSO10170	Active	790381	Mary Phelps	Certified
2SSO10170	Active	790816	Mary Phelps	Certified
2SSO10170	Active	790829	Mary Phelps	Certified
2SSO10170	Active	790830	Mary Phelps	Certified
2SSO10170	Active	790927	Mary Phelps	Certified
2SSO10170	Active	790968	Mary Phelps	Certified
2SSO10170	Active	790969	Mary Phelps	Certified
2SSO10170	Active	791505	Mary Phelps	Certified
2SSO10170	Active	791753	Mary Phelps	Certified
2SSO10170	Active	791818	Mary Phelps	Certified
2SSO10170	Active	793249	Mary Phelps	Certified
2SSO10170	Active	793400	Mary Phelps	Certified
2SSO10170	Active	794335	Mary Phelps	Certified
2SSO10170	Active	794336	Mary Phelps	Certified
2SSO10170	Active	794500	Mary Phelps	Certified
2SSO10170	Active	796158	Mary Phelps	Certified
2SSO10170	Active	796162	Mary Phelps	Certified
2SSO10170	Active	796179	Mary Phelps	Certified
2SSO10170	Active	798390	Mary Phelps	Certified
2SSO10170	Active	798391	Mary Phelps	Certified
2SSO10170	Active	800110	Mary Phelps	Certified
2SSO10170	Active	800461		Submit Draft
2SSO10170	Active	800557		Submit Draft
2SSO10170	Active	801104		Submit Draft
2SSO10170	Active	801105		Submit Draft
2SSO10171	Active	652777	Steven S. Beall, P.E.	Certified
2SSO10171	Active	655950	Steven S. Beall	Certified
2SSO10171	Active	656413	Steven S Beall	Certified
2SSO10171	Active	708593	Steven S. Beall	Certified
2SSO10171	Active	709495	Steven S. Beall	Certified
2SSO10171	Active	710553	Steven S. Beall	Certified
2SSO10171	Active	710794	Steven S. Beall	Certified
2SSO10171	Active	710798	Steven S. Beall	Certified
2SSO10171	Active	710799	Steven S. Beall	Certified
2SSO10171	Active	710803	Steven S. Beall	Certified
2SSO10171	Active	710806	Steven S. Beall	Certified
2SSO10171	Active	712207	Steven S. Beall	Certified
2SSO10171	Active	727964	Steven S. Beall	Certified
2SSO10171	Active	729141	Steven S. Beall	Certified
2SSO10171	Active	734155	Steven S. Beall	Certified
2SSO10171	Active	735069	Steven S. Beall	Certified
2SSO10171	Active	737332	Steven S. Beall	Certified
2SSO10171	Active	739429	Steven S. Beall	Certified
2SSO10171	Active	745540	Steven S. Beall	Certified
2SSO10171	Active	745542	Steven S. Beall	Certified
2SSO10171	Active	745543	Steven S Beall	Certified

Source Control Inspector III
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Engineer-Manager

Richmond, CA	411065
Richmond, CA	386479
Richmond, CA	701892
Richmond, CA	450786
Richmond, CA	789688
Richmond, CA	773186
Richmond, CA	480141
Richmond, CA	800173
Richmond, CA	192148
Richmond, CA	624278
Richmond, CA	973848
Richmond, CA	177296
Richmond, CA	895312
Richmond, CA	617623
Richmond, CA	801779
Richmond, CA	889927
Richmond, CA	421153
Richmond, CA	155128
Richmond, CA	953655
Richmond, CA	644496
Richmond, CA	413184
Richmond, CA	364495
Richmond, CA	831330
Richmond, CA	794368
Richmond, CA	820170
Richmond, CA	396720
Richmond, CA	555215
Richmond, CA	337122
Richmond, CA	224417
Richmond, CA	223176

Rodeo Sanitary District	147793
Rodeo Sanitary District WPCP	727842
Rodeo Sanitary District	957188
Rodeo Sanitary District	344806
Rodeo Sanitary District	260770
Rodeo Sanitary District	782028
Rodeo	897080
Rodeo	729564
Rodeo	544092
Rodeo	943070
Rodeo	666017
Rodeo	770838
Rodeo Sanitary District	888226
Rodeo Sanitary District	729493
Rodeo Sanitary District	980858
Rodeo Sanitary District	998012
Rodeo Sanitary District	285723
Rodeo Sanitarty District	885686
Rodeo Sanitary District	704519
Rodeo Sanitary District	381530
Rodeo Sanitary District	229252

23-Dec-12	12/23/2012	7-Jan-13	1/7/2013
23-Dec-12	12/23/2012	7-Jan-13	1/7/2013
23-Dec-12	1/7/2013	7-Jan-13	1/7/2013
23-Dec-12	1/7/2013	7-Jan-13	1/7/2013
23-Dec-12	1/7/2013	7-Jan-13	3/14/2013
25-Dec-12	1/9/2013	9-Jan-13	1/9/2013
26-Dec-12	1/9/2013	9-Jan-13	1/9/2013
2-Jan-13	1/2/2013	7-Feb-13	2/7/2013
9-Jan-13	1/9/2013	29-Jan-13	1/29/2013
16-Jan-13	1/16/2013	28-Feb-13	2/28/2013
25-Jan-13	2/8/2013	8-Feb-13	2/8/2013
28-Jan-13	2/11/2013	11-Feb-13	2/11/2013
28-Jan-13	2/11/2013	11-Feb-13	2/11/2013
29-Jan-13	2/11/2013	11-Feb-13	2/11/2013
30-Jan-13	1/30/2013	11-Feb-13	2/11/2013
30-Jan-13	2/11/2013	22-Feb-13	2/22/2013
11-Feb-13	2/22/2013	22-Feb-13	2/22/2013
18-Feb-13	2/18/2013	4-Mar-13	3/4/2013
19-Feb-13	3/4/2013	4-Mar-13	3/4/2013
8-Apr-13	5/21/2013	31-May-13	5/31/2013
16-Apr-13	4/16/2013	31-May-13	5/31/2013
21-May-13	5/21/2013	31-May-13	5/31/2013
21-May-13	5/31/2013	31-May-13	5/31/2013
25-May-13	5/31/2013	31-May-13	5/31/2013
26-Jun-13	6/26/2013	28-Jun-13	6/28/2013
26-Jun-13	6/26/2013	28-Jun-13	6/28/2013
26-Jun-13	6/26/2013	28-Jun-13	6/28/2013
30-Aug-13	9/26/2013	26-Sep-13	9/26/2013
30-Aug-13	9/26/2013	26-Sep-13	9/26/2013
22-Oct-13	11/1/2013	1-Nov-13	11/1/2013
1-Nov-13	11/1/2013		
6-Nov-13	11/6/2013		
25-Nov-13	11/25/2013		
25-Nov-13	11/25/2013		
25-Jun-07		2-Jul-07	7/2/2007
17-Aug-07		17-Aug-07	8/17/2007
28-Aug-07		6-Dec-10	12/6/2010
3-Dec-07		12-Dec-07	12/6/2010
14-Dec-07		18-Dec-07	12/18/2007
31-Dec-07		31-Dec-07	12/31/2007
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
7-Jan-08		1-Feb-08	2/1/2008
1-Feb-08		1-Feb-08	2/1/2008
16-Oct-08		16-Oct-08	10/16/2008
11-Nov-08		11-Nov-08	11/11/2008
26-Feb-09		26-Feb-09	2/26/2009
17-Mar-09		12-May-09	5/12/2009
12-May-09		12-May-09	5/12/2009
17-Jun-09		18-Jun-09	6/18/2009
12-Oct-09		12-Oct-09	11/4/2009
12-Oct-09		12-Oct-09	11/4/2009
12-Oct-09		2-Nov-09	11/2/2009

Category 1		2400	0
Category 1		6000	0
Category 1		7298	0
Category 1		3936	0
Category 1		5330	0
Category 1		1293	0
Category 1		465	50
Category 3		2	2
Category 1		1500	10
Category 1		150	150
Category 1		400	300
Category 1		150	100
Category 1		270	70
Category 3		20	20
Category 3		60	0
Category 3		25	25
Category 1		36000	8000
Category 1		240	20
Category 1		80	45
Category 3		16	16
Category 3		15	15
Category 3		3	3
Category 3		40	40
Category 1		120	20
Category 3		35	35
Category 3		3	3
Category 3		15	15
Category 3	0	20	20
Category 3	0	90	90
Category 2	14000	14000	14000
Category 3	20	20	20
Category 2	43500	43500	5000
Category 3	10	10	10
Category 3	3	3	3
Category 3		2	2
Category 3		25	0
Category 3		20	20
Category 3		25	25
Category 1		750	50
Category 1		225	150
Category 1		3150	0
Category 1		44250	0
Category 1		22125	0
Category 1		1200	0
Category 1		1200	0
Category 1		150	0
Category 3		3	3
Category 1		300	100
Category 3		1	0
Category 3		100	100
Category 3		1	1
Category 3		875	875
Category 1		50	25
Category 3		30	30
Category 3		125	125

2400	Yes	Yes
6000	Yes	Yes
7298	Yes	Yes
3936	Yes	Yes
5330	Yes	Yes
1293	Yes	Yes
405	No	Yes
0	No	No
1490	Yes	Yes
150	No	Yes
100	Yes	Yes
50	No	Yes
200	No	Yes
0	No	No
0	No	No
0	No	No
28000	No	Yes
220	No	Yes
35	No	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
100	Yes	Yes
0	No	No
0	No	No
0	No	No
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0	No	No
0	No	No
0	No	No
	No	No
0	No	No
0	No	No
0	No	No
700	Yes	No
75	Yes	Yes
3150	Yes	Yes
44250	Yes	Yes
22125	Yes	Yes
1200	Yes	Yes
1200	Yes	Yes
150	Yes	Yes
0	No	No
200	No	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
25	No	Yes
0	No	No
0	No	No

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Not Applicable - Spill did not reach a separate storm drainpipe
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Yes
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

2300 Cutting Blvd (north)
2300 Cutting Blvd (South)
1300 Dunn Ave
13th & Rheem
1300 Costa Ave
1300 Costa Ave
Ventura Ave. and Clinton Ave.
755 Western Dr
3500 Bissell Ave
2000 Hoffman Blvd
631 18th Street
800 Nevin Ave
4400 Macdonald Ave
338 Nevin Ave
452 Mount Street
616 Key Blvd.
3201 Leona Ave
915 8th st
901 Nevin Ave
16 16th Street
21st Street and Chanslor Ave
41 Terrace Ave
2600 Spinnaker Way
321 Tunnel Ave
336 Washington Ave
San Pablo Ave & Macdonald Ave (old Safeway Parking Lot)
16 16th Street
Richmond Parkway & National Court
West Chanslor Ave & Chanslor Court
151 Santa Fe Ave
1429 26th Street
317 Western Dr
20 Belvedere Ave. & Crest Ave.
535 Marina Bay Parkway & Potrero Avenue
Rodeo Sanitary District
2nd Ave and Parker Ave
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Barnes Way and County Property
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
401 Sonoma Avenue Basement

37.92489	-122.34742	Contra Costa
37.92515	-122.34763	Contra Costa
37.94868	-122.35692	Contra Costa
37.94957	-122.35716	Contra Costa
37.95005	-122.35674	Contra Costa
37.95005	-122.35674	Contra Costa
37.94097	-122.32545	Contra Costa
37.92919	-122.39463	Contra Costa
37.9332	-122.33602	Contra Costa
37.92237	-122.35055	Contra Costa
37.9411	-122.35275	Contra Costa
37.93682	-122.36232	Contra Costa
37.93289	-122.32817	Contra Costa
37.93659	-122.36392	Contra Costa
37.93573	-122.32104	Contra Costa
37.93876	-122.32445	Contra Costa
37.93263	-122.33862	Contra Costa
37.9465	-122.362	Contra Costa
37.93758	-122.36097	Contra Costa
37.93173	-122.35396	Contra Costa
37.93195	-122.3495	Contra Costa
37.92478	-122.38738	Contra Costa
37.91269	-122.34539	Contra Costa
37.92388	-122.3855	Contra Costa
37.92517	-122.38774	Contra Costa
37.93234	-122.32348	Contra Costa
37.93173	-122.35396	Contra Costa
37.92829	-122.37821	Contra Costa
37.93239	-122.36965	Contra Costa
37.92685	-122.38631	Contra Costa
37.95387	-122.34377	Contra Costa
37.92367	-122.39027	Contra Costa
37.921654	-122.386452	Contra Costa
37.924429	-122.347964	Contra Costa
38.031111	122.261944	Contra Costa
38.035919	122.267783	Contra Costa
38.036881	-122.263908	Contra Costa
38.03904	-122.26193	Contra Costa
38.018706	122.256542	Contra Costa
38.029508	122.258711	Contra Costa
38.035175	122.265053	Contra Costa
38.035258	122.265483	Contra Costa
38.035239	122.26585	Contra Costa
38.036661	122.266553	Contra Costa
38.036472	122.266508	Contra Costa
38.035258	122.265483	Contra Costa
38.030136	122.264672	Contra Costa
38.037	122.263714	Contra Costa
38.029969	122.263744	Contra Costa
38.032383	-122.267956	Contra Costa
38.028878	-122.264042	Contra Costa
38.034817	-122.262053	Contra Costa
38.033153	-122.260172	Contra Costa
38.033153	-122.260172	Contra Costa
38.033153	-122.260172	Contra Costa

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ED_006495_00001076-05090

Manhole

Crack in street near main line.
manhole
Sewage running down alley way and flowing into storm drain

Manhole in the middle of baseball field

cleanout
manhole

Manhole near location.

Parking lot

Manhole

Basement of residential home

Back Yard
Manhole at intersection of 2nd Ave and PArker Ave

Manhole on View Point Blvd at Rodeo Creek.

Manhole 99

Manhole 99

Manhole 70 in the intersection of Mariposa Ave and Pinole Ave.

Sewage overflowed into the residents homes at 422 and 425 Rodeo Ave.
Toilet and Tub
Manhole in the intersection of 3rd Street and Suisun Avenue
Manhole in front of house

Basement of Home

1
1
2
2
2
1
1

Gravity sewer
Manhole
Gravity sewer;Manhole
Gravity sewer;Manhole
Manhole
Manhole;Other sewer system structure
Manhole
Other (specify)
Manhole
Gravity sewer;Manhole
Other sewer system structure
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Manhole
Gravity Mainline
Inside Building or Structure
Inside Building or Structure
Gravity Mainline
Gravity Mainline
Gravity Mainline
Other (specify)
Manhole
Building or structure
Manhole
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Manhole
Building or structure
Building or structure
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Manhole
Manhole
Building or structure

Clean-out @ 1300 Dunn Ave. Manhole @ 1300 Dunn Ave. Manhole @ 1300 Rheem Ave.

Crack in street - possibly buried clean-out

Sewage running down alley way and flowing into storm drain
Clean-out located in Resident's yard
Discharging from manhole at address
mainline clean-out
clean-out at side of house

Manhole in the middle of the baseball field near first base.

Manhole near Kaiser Hospital
cleanout

Manhole overflowing
Manhole overflowing
Basement of two separate buildings
Front yard and basement of residential home
Front yard in front of home and earthen dirt under broken pipe.

Back Yard. Sewer line runs through backyard. Lateral connection is in back yard.

Coming from Garage

Manhole 80

Manhole 100
Manhole 76
Manhole 77

During a routine hydroflushing of the line on 7th street, a pressure transient traveled up the private sewer lateral and bur

Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Surface water
Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter;Surface water
Street/curb and gutter;Surface water
Separate storm drain;Street/curb and gutter;Surface water;Unpaved surface
Separate storm drain;Street/curb and gutter
Separate storm drain;Street/curb and gutter
Street/curb and gutter
Other (specify below)
Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface
Unpaved surface
Other paved surface;Separate storm drain
Street/curb and gutter;Unpaved surface
Street/curb and gutter;Unpaved surface;Other (specify below)
Street/curb and gutter
Street/curb and gutter
Separate storm drain;Street/curb and gutter;Surface water
Street/curb and gutter
Other paved surface;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other (specify below)
Other (specify below)
Other (specify below)
Paved Surface
Paved Surface
Other (specify below)
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other (specify below)
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Other paved surface
Storm drain;Street/curb and gutter
Unpaved surface
Building or structure
Building or structure
Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Street/curb and gutter
Building or structure

Sewage flowing from manhole into street.

Santa Fe Channel into Richmond Inner Harbor and eventually discharging into San Francisco Bay
Some sewage soaked into grass in resident's yard. The remainder intered a storm drain. Crew able to chase the storm d

Grass area of resident's home. Not able to recover volume on grass.
Sewage was in gutter when crew arrived but had not (yet) reached a storm drain.
Portions of sewage soaked into baseball field of middle school. Unable to determine the exact volume.
Spill was recovered. Earthen ditch downstream of spill was dry (see photos).
Spill discharged into storm drain. Due to recent rain (not storm) event, residual water was present in storm drain. Crew is
There was gravel toward end of street. Spill soaked into the location near the gravel, and did not discharge into the storm
The spill was contained in the gutter at the end of the street, but may have spilled onto portions of the greenbelt.

Parking Lot

Spill was completely contained and returned to sanitary sewer.

Basement of buildings
Front yard and basement of residential home
Earthen dirt under broken gravity pipe and in yard in front of home.

Back yard land. Area was cleaned and disinfected.

Rodeo Creek

12/23/2012 13:40	12/23/2012 14:40	12/23/2012 14:40	12/23/2012 15:40
12/23/2012 13:40	12/23/2012 14:40	12/23/2012 14:40	12/23/2012 15:40
12/23/2012 13:15	12/23/2012 14:45	12/23/2012 14:45	12/23/2012 19:00
12/23/2012 13:15	12/23/2012 14:50	12/23/2012 14:50	12/23/2012 17:56
12/23/2012 13:15	12/23/2012 14:50	12/23/2012 14:50	12/23/2012 19:00
12/25/2012 20:15	12/25/2012 20:15	12/25/2012 21:15	12/25/2012 22:30
12/26/2012 18:00	12/26/2012 18:14	12/26/2012 19:10	12/26/2012 19:35
12/27/2012 15:11	12/27/2012 15:11	12/27/2012 15:55	12/27/2012 16:00
1/7/2013 12:00	1/9/2013 15:00	1/9/2013 15:25	1/9/2013 15:35
1/16/2013 8:45	1/16/2013 9:00	1/16/2013 9:45	1/16/2013 10:30
1/25/2013 18:00	1/25/2013 20:05	1/25/2013 20:55	1/25/2013 22:10
1/28/2013 8:15	1/28/2013 8:55	1/28/2013 9:10	1/28/2013 9:30
1/28/2013 7:30	1/28/2013 8:40	1/28/2013 9:25	1/28/2013 9:45
1/29/2013 12:03	1/29/2013 12:10	1/29/2013 12:25	1/29/2013 12:35
1/17/2013 20:20	1/17/2013 20:30	1/17/2013 21:20	1/17/2013 21:20
1/24/2013 15:50	1/24/2013 16:00	1/24/2013 16:45	1/24/2013 16:45
2/7/2013 14:00	2/11/2013 11:35	2/11/2013 11:50	2/11/2013 11:55
2/17/2013 17:00	2/17/2013 19:53	2/17/2013 20:30	2/17/2013 20:45
2/19/2013 15:15	2/19/2013 15:40	2/19/2013 16:00	2/19/2013 16:10
4/8/2013 13:10	4/8/2013 13:15	4/8/2013 13:55	4/8/2013 14:05
4/11/2013 11:20	4/11/2013 11:45	4/11/2013 12:05	4/11/2013 12:26
4/21/2013 10:00	4/22/2013 11:10	4/22/2013 11:55	4/21/2013 10:05
5/6/2013 8:45	5/6/2013 9:15	5/6/2013 9:40	5/6/2013 10:15
5/25/2013 18:45	5/25/2013 18:45	5/25/2013 18:45	5/25/2013 18:50
5/3/2013 8:45	5/3/2013 9:15	5/3/2013 9:30	5/3/2013 10:45
5/23/2013 11:00	5/23/2013 11:25	5/23/2013 11:35	5/23/2013 11:35
5/21/2013 11:00	5/21/2013 11:05	5/21/2013 11:36	5/21/2013 12:05
7/24/2013 16:25	7/24/2013 16:25	7/24/2013 16:35	7/24/2013 16:35
7/16/2013 16:15	7/16/2013 16:26	7/16/2013 16:50	7/16/2013 17:10
10/21/2013 13:00	10/22/2013 8:55	10/22/2013 9:15	10/22/2013 10:20
10/27/2013 13:35	10/27/2013 13:55	10/27/2013 14:30	10/27/2013 14:30
10/5/2013 14:00	11/5/2013 14:48	11/5/2013 15:15	11/20/2013 0:00
11/24/2013 10:03	11/24/2013 10:05	11/24/2013 11:00	11/24/2013 11:45
11/13/2013 10:00	11/13/2013 10:33	11/13/2013 10:33	11/13/2013 10:55
6/14/2007 0:00	6/14/2007 15:00	6/14/2007 15:15	6/14/2007 15:30
8/15/2007 0:00	8/15/2007 9:00	8/15/2007 9:05	8/15/2007 9:15
8/15/2007 0:00	8/15/2007 17:00	8/15/2007 17:15	8/15/2007 17:20
11/30/2007 0:00	11/30/2007 16:00	11/30/2007 16:15	11/30/2007 16:30
12/12/2007 0:00	12/12/2007 6:15	12/12/2007 6:45	12/12/2007 7:00
12/30/2007 0:00	12/30/2007 13:00	12/30/2007 13:15	12/30/2007 13:45
1/4/2008 0:00	1/4/2008 10:15	1/4/2008 10:15	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 11:30	1/4/2008 11:30	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 11:30	1/4/2008 11:30	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 15:00	1/4/2008 15:00	1/4/2008 18:00
1/4/2008 0:00	1/4/2008 14:00	1/4/2008 14:00	1/4/2008 18:00
1/25/2008 0:00	1/25/2008 16:30	1/25/2008 16:30	1/25/2008 17:05
10/13/2008 0:00	10/13/2008 0:00	10/13/2008 0:00	10/13/2008 0:00
11/9/2008 0:00	11/9/2008 14:30	11/9/2008 15:00	11/9/2008 15:30
2/20/2009 0:00	2/20/2009 9:00	2/20/2009 9:05	2/20/2009 9:10
3/16/2009 0:00	3/16/2009 16:30	3/16/2009 16:35	3/16/2009 17:00
5/1/2009 0:00	5/1/2009 15:00	5/1/2009 15:00	5/1/2009 15:00
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10/9/2009 0:00	10/10/2009 13:25	10/10/2009 13:30	10/9/2009 15:45

Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Rainfall exceeded design (Separate CS Only)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Debri-General
Pipe structural problem/failure
Grease deposition (FOG)
Pipe structural problem/failure
Debri-Rags
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Other (specify below)
Debri-Rags
Debri-Rags
Grease deposition (FOG)
Debri-Rags
Other (specify below)
Other (specify below)
Debri-General
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Root Intrusion
Root Intrusion
Pipe Structural Problem/Failure
Pipe Structural Problem/Failure
Root Intrusion
Grease Deposition (FOG)
Pipe structural problem/failure
Debris
Other (specify below)
Debri-General
Root intrusion
Root intrusion
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Other (specify below)
Grease deposition (FOG)
Debri-General
Pipe structural problem/failure
Other (specify below)
Root intrusion
Debri-General
Debri-General
Debri-General

Severe storms.

Teacher noticed discharge on 01/07/2013, but was unsure what it was. After seeing the discharge again, sent an e-mail tc

3 ft. void in mainline pipe was the cause of SSO. The pipe was repaired

Broken pipe.
Rags and Grease
Broken pieces of pipe caused by roots
Cause is currently being investigated. Determine cause to be broken pipe. Will repair no later than 02/25/2013. Manhole i
See comments on attached report. School district initially thought water on field was due to broken EBMUD line.
Private contractor called out to clear resident's lateral and got their snake stuck in the main line causing blockage.
Rags in mainline. Suspect coming from Kaiser Hospital.

Rags and Heavy Grease
Roots and Rags
Diaper
Operator hit mainline blockage resulting in manhole overflowing several feet from initial call-out. Operators were on site t

Heavy Grease, rags collected from17 segments upstream of incident location.
Plastic Bag and a 4 inch plug. The blockage was a 160 ft. downstream of the manhole.
Cause stll under investigation.After full investigaton, cause was determined to be roots.
Severe roots in main line caused back-up in abandoned building resulting in second back-up in building next to abandone
Major offset 200' up from the downstream of Emeric.

Unknown
Diapers, Aluminum Cans, Trash

Blockage unknown

Determined to be a failed section of manhole. Piece of concrete lodged itself between the old brick manhole and the fibe
During a routine hydroflushing of the line on 7th street, a pressure transient traveled up the private sewer lateral and bur

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Gravity Mainline
Gravity Mainline
Gravity Mainline
Gravity Mainline
Gravity Mainline

Main
Main

Main

Clean-out on Dunn as well as manhole. Two locations in close proximity to each other.

Main sewer line on 13th Street (multiple spill appearance points).

Crew responded to odor complaint and potential lateral line issue. Procedure is to flush main line. In doing so, operator hi

t blockage in main line sever

No
No
No
No
No
No
No

8
8
6

12
12

6 vcp
6 vcp
6 clay

30
50

75
75

70
70
75

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Restored flow;Returned all or portion of spill to sanitary sewer system;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
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Cleaned-Up;Mitigated Effects of Spill;Contained all or portion of spill;Restored flow

Other (specify below)

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Other (specify below)
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
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Cleaned-up (mitigated effects of spill)
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Unable to clean-up spill due to severe storm. Unable to clean up spill due to severity of storm.Estimated start time of disc
Unable to clean up spill due to severity of storm.Estimated start time of discharge based on time the overflow weirs begai
Unable to clean up spill due to severity of storm
Unable to clean up spill due to severity of storm
Unable to clean up spill due to severity of storms. Estimated start time of discharge based on time the overflow weirs beg
Unable to clean up spill due to severe storms
Crew not able to contain entire quantity of spill due to some dilution in the storm system from previous day's rain event. V

Reported to site and abated spill. After clearing blockage, it was reported that it was Grease in the line.

See attached report.
Not all of spill was recovered. Crew attempting to chase the spill downstream of the storm drain, flush with dechlorinatec
Chased spill downstream of location to determine extent of spill that discharged to waters of the state. Not able to determ
Will increase maintenance of line due to sag. Line is not scheduled for CIP. Only issue is sag. FInished clean-up at 13:10
Crew arrived on site to determine effects of spill. Spill was contained to grass/yard of resident. Not able to recover any of
Will CCTV at a later date to determine reason for spill. Determined the line needs to be repaired. Will repair by 02/25/201
Placed caution tape around school yard, washed down basketball court and flooded baseball field with dechlorinated wate

Will meet with Kaiser staff to ensure they are aware of problems with rags in line.

Spill clean-up completed on 04/11/2013 at 13:05
Crew was not notified of incident until the following day. When crew arrived on site there was little evidence of any sewer

Flushed area with several hundred gallons of dechlorinated water to dilute environmental impacts.

Spill is on-going. Working on containment and repairs

Will remove the affected wsection of pipe and replace to reduce future root intrustion. Area does receive tri-annual chem
During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity i
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Please see SSO events 710794, 710798, 710799, 710803, 710806 for prior events

District installed new manhole upstream of spill site. This allowed the District to CCTV the entire section of sewer line. T

Investigations have determined that a failed manhole upstreamfrom the affected manhole was responsible for the debris.
Can not write in field below entitled Overall Spill Description . Will be entered here... Home owner notified the Distrit th

12/23/2012 15:40
12/23/2012 15:40
12/23/2012 19:00
12/23/2012 17:56
12/23/2012 19:00
12/25/2012 22:30
12/26/2012 19:30

1/9/2013 15:50

1/25/2013 23:15
1/28/2013 10:00
1/28/2013 10:15

2/11/2013 14:00

2/19/2013 16:40

5/25/2013 20:30

10/22/2013 11:00

11/21/2013 0:00

12/14/2007 12:00
12/30/2007 13:45
2/1/2008 0:00
2/1/2008 0:00
2/1/2008 0:00
2/1/2008 0:00
2/1/2008 0:00
2/1/2008 0:00

11/9/2008 15:30

10/9/2009 10:00

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer;Repaired sewer;Other (specify below)
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Enforcement act

Other (specify below)

Other (specify below)

Other (specify below)

Other (specify below)

Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic

Other (specify below)

Other (specify below)

Will distribute Public outreach material for FOG.

City will conduct public outreach and potential enforcement for FOG related activities.

Replaced defective portion of pipe (main cause of incident). Replaced on 02/01/2013..
Will work with local businesses to determine FOG activities occuring in the area.
Inspected each potential FOG business in the area. Also provided educational materials to residents and businesses rega

Removed rain guard from sewer line. (see attached photos). Will also investigate as to how this could occur without the

Potential enforcement with Commecial facility (hospital) due to rags coming from location.

Possible review operator procedures.

Under investigation to determine if further work is necessary.

Scheduling repair/replacement of sewer pipe

During week of January 7, 2008, hired company to clean and inspect all down stream sewer line to identify any capacity i
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see attachements

Will CCTV and inspect to determine if there is a more serious problem.

Investigate why debris in manhole

Yes
Yes
Yes
Yes
Yes
Yes
Yes

No

Yes
Yes
Yes

Yes

Yes

No

Yes

Yes

Yes
No
Yes
Yes
Yes
Yes
Yes
Yes

Yes

Yes

N/A
N/A

Not applicable

Not applicable. Did not reach receiving water. Storm drain was blocked further down stream by BART construction projec
Not applicable

N/A
Not applicable
Not applicable
None reported.

CCTV on 12/14 to ascertain condition of pipe

No
No
No
No
No
No
No

No

No
No
No

No

No

No

Yes
Yes
No
No
No
No
No
No

No

No

None

None
None

None
N/A
N/A
None
None
None
None
None

None. No waters of the state impacted
Not applicable
None
None
N/A
None
Not applicable
Possibly Keller Beach. May be too far north to be certain of known impact.

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San Francisco Bay
San Francisco Bay
San Pablo Bay
San Pablo Bay
San Pablo Bay
San Pablo Bay
San Francisco Bay
N/A
San Francisco Bay
Sante Fe Channel, Richmond Inner Harbor and eventually San Francisco Bay
Not applicable.
Unknown at this time
Unknown
Not Applicable
N/A
Not applicable
None. No waters impacted. Spill evaporated from ditch.
None.
None known at this time.
None
N/A
Not applicable
Not applicable
San Francisco Bay
None

Rodeo Creek
Rodeo Creek. Department of fish an game was notified of the spill. Report # 07-8011
Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek

na

na

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
Not applicable to this spill

No water quality samples taken

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

No water quality samples taken;Not applicable to this spill;Other (specify below)

No water quality samples taken

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken

Not applicable to this spill

Unable to determine based on storm drain evidence how much (if any) discharged to waters of the state.

Not applicable. Spill did not reach waters of the state.

Not certain of wateway that may be impacted

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
None of the above

Not applicable to this spill

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

No water quality samples taken

No water quality samples taken

Not applicable to this spill
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken

None of the above

Not able to determine location to where potentially discharged. Chased all downstream storm drain pipes and all were dry

Not applicable

Not applicable

/ for indication of spill.

Base area calculation: Length x width x depth

127845	12/23/2012 14:45
127845	12/23/2012 14:45
127846	12/23/2012 15:15
127846	12/23/2012 15:15
127846	12/23/2012 15:15
127903	12/25/2012 21:51
127927	12/26/2012 19:26
130193	1/9/2013 15:50
130334	1/16/2013 10:15
130543	1/25/2013 21:58
130586	1/28/2013 9:40
130587	1/28/2013 9:45
130890	2/11/2013 12:35
131041	2/18/2013 11:40
131055	2/19/2013 16:43
133183	5/25/2013 20:18
80979	2/1/2008 0:00
80981	2/1/2008 0:00
80982	2/1/2008 0:00
80983	2/1/2008 0:00
80984	2/1/2008 0:00
80985	2/1/2008 0:00
88108	11/9/2008 16:00
92305	3/16/2009 19:00

Mary Phelps, Inspector III	5106850820
Mary Phelps, Inspector III	5106850820
Mary Phelps, Source Control Inspector III	510685080
Wayne Madison	5105423547
Wayne Madison, Collection Supervisor	5105423247
Wayne Madison	5105423247
Wayne Madison	5105423247

2SSO10171	Active	745602	Steven S Beall	Certified
2SSO10171	Active	746417	Steven S Beall	Certified
2SSO10171	Active	746418	Steven S Beall	Certified
2SSO10171	Active	748511	Steven S. Beall	Certified
2SSO10171	Active	748518	Steven S. Beall	Certified
2SSO10171	Active	749374	Steven S. Beall	Certified
2SSO10171	Active	750659	Steven S. Beall	Certified
2SSO10171	Active	751748	Steven S. Beall	Certified
2SSO10171	Active	756542	Steven S. Beall	Certified
2SSO10171	Active	758790	Steven S Beall	Certified
2SSO10171	Active	762516	Steven S. Beall	Certified
2SSO10171	Active	764814	Steven S. Beall	Certified
2SSO10171	Active	764816	Steven S Beall	Certified
2SSO10171	Active	764817	Steven S. Beall	Certified
2SSO10171	Active	764818	Steven S Beall	Certified
2SSO10171	Active	764880	Steven S Beall	Certified
2SSO10171	Active	767645	Steven S. Beall	Certified
2SSO10171	Active	769022	Steven S. Beall	Certified
2SSO10171	Active	771283	Steven S Beall	Certified
2SSO10171	Active	771284	Steven S Beall	Certified
2SSO10171	Active	772216	Steven S. Beall	Certified
2SSO10171	Active	780320	Steven S. Beall	Certified
2SSO10171	Active	780844	Steven S. Beall	Certified
2SSO10171	Active	781194	Steven S. Beall	Certified
2SSO10171	Active	788645	Steven S. Beall	Certified
2SSO10171	Active	788659	Steven S. Beall	Certified
2SSO10171	Active	789525	Steven S. Beall	Certified
2SSO10171	Active	792610	Steven S. Beall	Certified
2SSO10171	Active	793397	Steven S. Beall	Certified
2SSO10171	Active	793734	Steven S. Beall	Certified
2SSO10171	Active	800875	Steven S. Beall	Certified
2SSO10172	Active	650259	Eric Smith	Certified
2SSO10172	Active	650562	Eric Smith	Certified
2SSO10172	Active	651005	Eric Smith	Certified
2SSO10172	Active	651472	Dennis Gavallos	Certified
2SSO10172	Active	651578	Eric Smith	Certified
2SSO10172	Active	652695	Dennis Gavallos	Certified
2SSO10172	Active	655452	Eric Smith	Certified
2SSO10172	Active	655953	Eric Smith	Certified
2SSO10172	Active	656299	Eric Smith	Certified
2SSO10172	Active	657623	Eric Smith	Certified
2SSO10172	Active	657760	Eric Smith	Certified
2SSO10172	Active	658045	Eric Smith	Certified
2SSO10172	Active	705260	Eric Smith	Certified
2SSO10172	Active	707332	Eric Smith	Certified
2SSO10172	Active	707473	Eric Smith	Certified
2SSO10172	Active	707544	Eric Smith	Certified
2SSO10172	Active	708000	Eric Smith	Certified
2SSO10172	Active	708010	Eric Smith	Certified
2SSO10172	Active	708071	Eric Smith	Certified
2SSO10172	Active	708136	Eric Smith	Certified
2SSO10172	Active	708673	Eric Smith	Certified
2SSO10172	Active	708935	Eric Smith	Certified
2SSO10172	Active	709028	E Smith	Certified
2SSO10172	Active	709641	Eric Smith	Certified

Engineer-Manager
Engineer-Manager
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Rodeo Sanitary District	368198
Rodeo Sanitary District	165674
Rodeo Sanitary District	498285
Rodeo Sanitary District	144178
Rodeo Sanitary District	972189
Rodeo Sanitary District	241667
Rodeo Sanitary District	579955
Rodeo Sanitary District	431851
Rodeo	696112
Rodeo Sanitary District	166424
Rodeo Sanitary District	485682
Rodeo Sanitary District	124645
Rodeo Sanitary District	752607
Rodeo Sanitary District	878090
Rodeo Sanitary District	670820
Rodeo Sanitary District	145230
Rodeo Sanitary District	570519
Rodeo Sanitary District	138857
Rodeo Sanitary District	609092
Rodeo Sanitary District	769552
Rodeo Sanitary District	791431
Rodeo Sanitary District	635822
Rodeo Sanitary District	536080
Rodeo Sanitary District	273430
Rodeo Sanitary District	314670
Rodeo Sanitary District	427641
Rodeo Sanitary District	809277
Rodeo Sanitary District	883239
Rodeo Sanitary District	774524
Rodeo Sanitary District	319863
Rodeo Sanitary District	420041
San Rafael	736111
San Rafael	219187
San Rafael	291919
RVSD	214621
San Rafael	763254
RVSD	793226
San Rafael	574917
San Rafael	184371
San Rafael	416491
San Rafael	243503
San Rafael	301058
San Rafael	625095
San Rafael	431496
San Rafael	910081
San Rafael	430249
San Rafael	374674
San Rafael	544868
San Rafael	141291
San Rafael	903925
San Rafael	597378
San Rafael	228838
San Rafael	502099
San Rafael	751431
San Rafael	330480

14-Oct-09		14-Oct-09	10/14/2009
2-Nov-09		2-Nov-09	11/2/2009
2-Nov-09		2-Nov-09	11/2/2009
21-Jan-10		21-Jan-10	1/21/2010
21-Jan-10		22-Jan-10	1/22/2010
16-Feb-10		16-Feb-10	2/16/2010
17-Mar-10		17-Mar-10	3/17/2010
19-Apr-10		19-Apr-10	4/19/2010
2-Sep-10	9/2/2010	2-Sep-10	9/2/2010
19-Nov-10	12/9/2010	9-Dec-10	12/9/2010
7-Feb-11	2/7/2011	7-Feb-11	2/7/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
29-Mar-11	3/29/2011	29-Mar-11	3/29/2011
20-Jun-11	6/29/2011	29-Jun-11	6/29/2011
27-Jul-11	7/27/2011	27-Jul-11	7/27/2011
20-Sep-11	9/20/2011	20-Sep-11	9/20/2011
20-Sep-11	9/20/2011	20-Sep-11	9/20/2011
20-Oct-11	10/20/2011	20-Oct-11	10/20/2011
18-Apr-12	4/18/2012	3-May-12	5/3/2012
1-May-12	5/1/2012	3-May-12	5/3/2012
11-May-12	5/11/2012	5-Jul-12	7/5/2012
2-Dec-12	12/2/2012	6-Dec-12	1/30/2013
2-Dec-12	12/2/2012	6-Dec-12	12/6/2012
28-Dec-12	12/28/2012	10-Jan-13	1/31/2013
13-Mar-13	3/13/2013	2-Apr-13	4/2/2013
16-Apr-13	4/16/2013	24-Apr-13	4/24/2013
30-Apr-13	4/30/2013	1-May-13	5/1/2013
19-Nov-13	11/19/2013	26-Nov-13	11/26/2013
8-May-07		8-May-07	5/8/2007
16-May-07		16-May-07	3/30/2011
25-May-07		12-Jun-07	12/8/2010
7-Jun-07		12-Jun-07	3/29/2011
8-Jun-07		12-Jun-07	3/31/2011
25-Jun-07		25-Jun-07	3/29/2011
8-Aug-07		8-Aug-07	12/15/2010
17-Aug-07		17-Aug-07	8/17/2007
24-Aug-07		27-Aug-07	8/27/2007
18-Sep-07		18-Sep-07	9/18/2007
19-Sep-07		14-Jun-10	12/15/2010
26-Sep-07		26-Sep-07	9/26/2007
15-Oct-07		15-Oct-07	10/15/2007
6-Nov-07		8-Nov-07	11/8/2007
8-Nov-07		8-Nov-07	11/8/2007
9-Nov-07		13-Nov-07	11/28/2007
21-Nov-07		21-Nov-07	11/21/2007
21-Nov-07		26-Nov-07	11/26/2007
26-Nov-07		26-Nov-07	11/26/2007
26-Nov-07		28-Nov-07	11/28/2007
3-Dec-07		5-Dec-07	12/5/2007
10-Dec-07		10-Dec-07	12/15/2010
12-Dec-07		14-Jun-10	6/14/2010
17-Dec-07		18-Dec-07	12/18/2007

Category 3		25	25
Category 3		50	50
Category 3		100	10
Category 3		50	50
Category 1		24750	0
Category 3		15	15
Category 3		100	60
Category 3		3	3
Category 3		10	0
Category 1		1750	300
Category 3		100	100
Category 1		3765	0
Category 1		15200	0
Category 1		2305	0
Category 1		915	0
Category 3		2	2
Category 3		10	0
Category 3		1	1
Category 3		500	0
Category 3		590	0
Category 3		150	150
Category 3		303	150
Category 3		20	15
Category 3		2	2
Category 1		832	0
Category 1		19778	0
Category 1		890	0
Category 1		660	0
Category 1		3561	5
Category 3		1	1
Category 1	546	751	0
Category 1		126	0
Category 3		40	0
Category 1		300	0
Category 1		3480	0
Category 3		1	1
Category 3		30	30
Category 1		30	0
Category 3		25	25
Category 3		200	0
Category 3		10	0
Category 1		500	0
Category 3		5	5
Category 1		50	0
Category 3		50	0
Category 1		175	0
Category 2		13440	0
Category 3		135	0
Category 3		50	
Category 1		300	0
Category 2		2700	0
Category 1		18198	200
Category 1		20	0
Category 3		500	250
Category 1		480	0

0	No	No
0	No	No
0	No	No
0	No	No
24750	Yes	Yes
0	No	No
0	No	Yes
0	No	No
0	No	No
1450	Yes	Yes
0	No	No
3765	Yes	Yes
15200	Yes	Yes
2305	Yes	Yes
915	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
832	Yes	Yes
19778	Yes	Yes
890	No	No
620	Yes	Yes
3555	Yes	Yes
0	No	No
205	Yes	Yes
126	Yes	Yes
0	No	No
300	No	Yes
3480	Yes	Yes
0	No	No
0	No	No
30	No	Yes
0	No	No
0	No	No
	No	No
500	Yes	Yes
	No	No
50	No	Yes
	No	No
175	No	Yes
0	No	Yes
	No	No
	No	No
300	No	Yes
0	No	No
17998	Yes	Yes
20	No	Yes
0	No	Yes
480	Yes	No

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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No
Not Applicable - Spill did not reach storm drainpipe

Rodeo Sanitary District
519 Sonoma Avenue Basement
540, 534 and 528 Vallejo Avenue
512 4th street
3rd street, manhole 80, manhole 99, manhole 100
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary Distric t
Rodeo Sanitary District
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Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District
541 Suisun Ave
426 Vallejo Ave Back Yard
Rodeo Sanitary District
Rodeo Sanitary District
Rodeo Sanitary District Tormey Lift Station
Lefty Gomez Ballfield
820 7th St
820 7th St
401 Sonoma St
3rd and Vaqueros Ave
541 Suisun Ave
Barnes Way
523 Vallejo Ave
73 3rd St
Vaqueros Ave_11-17-13
129 Via La Brisa
114 Greenfield ave
192 Tamalpais
12 Allyn
American legion hall larkspur
69 Hatzic Ct.
119 Santa Cruz
Sycamore Ave
128 Tamalpais
75 Mt. View Rd Fairfax
355 Tamalpais
Greenfield at Spring Grove, San Anselmo
506 Sequoia
17 Via Navarro
367 Oak Ave. San Anselmo
708 Fawn Dr. San Anselmo Ca. 94960
80 Corte Encanto
29 Terrace Ave. Kentfield
5 Wolf Glen
Redwood park
1100 S. Eliseo Dr. Greenbrae
497 Scenic
9 Skyland
310 Woodland

38.031147	-122.256489	Contra Costa
38.030819	-122.260778	Contra Costa
38.0307	-122.262431	Contra Costa
38.032972	-122.26775	Contra Costa
38.035258	-122.26585	Contra Costa
38.035789	-122.267822	Contra Costa
38.036975	-122.261594	Contra Costa
38.031389	-122.270456	Contra Costa
38.032081	-122.271697	Contra Costa
38.028536	-122.264331	Contra Costa
38.03691	-122.26959	Contra Costa
38.03524	-122.2657	Contra Costa
38.03526	-122.26539	Contra Costa
38.03518	-122.26509	Contra Costa
38.03652	-122.26646	Contra Costa
38.02903	-122.26762	Contra Costa
38.03057	-122.26287	Contra Costa
38.033069	-122.261483	Contra Costa
38.03696	-122.26549	Contra Costa
38.03234	-122.2605	Contra Costa
38.04854	-122.24875	Contra Costa
38.03112	-122.26848	Contra Costa
38.02879	-122.26397	Contra Costa
38.02879	-122.26397	Contra Costa
38.03386	-122.26007	Contra Costa
38.03528	-122.26569	Contra Costa
38.03057	-122.26284	Contra Costa
38.031176	-122.264612	Contra Costa
38.030967	-122.261693	Contra Costa
38.033534	-122.273256	Contra Costa
38.02996	-122.26463	Contra Costa
37.9393753	-122.52572	Marin
37.9762	-122.55882	Marin
37.98733	-122.59687	Marin
37.976111	-122.57741	Marin
37.93274	-122.5343	Marin
37.93049	-122.52251	Marin
37.98608	-122.5668	Marin
37.9773	-122.5649	Marin
37.9885	-122.5969	Marin
37.9855	-122.5962	Marin
37.98581	-122.59775	Marin
37.9762	-122.5572	Marin
37.9823	-122.5568	Marin
37.9496	-122.5157	Marin
37.9726	-122.5734	Marin
38.0009	-122.5664	Marin
37.9469	-122.5271	Marin
37.9559	-122.5446	Marin
37.9566	-122.5352	Marin
37.954	-122.5337	Marin
37.9443	-122.5345	Marin
37.97806	-122.57924	Marin
37.9629	-122.5506	Marin
37.9382	-122.5303	Marin

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Manhole infront of house at 712 California Street
Sewage entered basement sink and spilled onto floor. Plumber on site removed cleanout cover inside home and cause n
Sewage flowed from the manhole in the backyard of 528 Vallejo and flowed donwhill into the backyard of 534 Vallejo and
Sewage came out illegal floor drain in home a spilled less then 50 gallons into residence.
Three consecutive manholes in 3rd street, all within 223 feet of each other overflowed due to heavy rains.

clean-out infront of residence

Manhole in 7th street and vaqueros avenue

Toilet in bathroom of Residence from pressure surge during cleaning operation.
Resident's backyard cleanout area and adjacent stone patio

Clean-out for Connoco Phillips Administration Building next to the Rodeo Sanitary District Tormey Lift Station
Manhole # 443 was nearly full, leak observed adjacent to MH
Customer private lateral clean out located at front of residence in a gravel driveway
Soil near driveway clean-out

3 Street manholes in closely associated Collections sewer-shed
Back yard patio area
Midway down Barnes Way @ MH169, spill also presented at a location 30' South of MH
Private Lateral cleanout and some small seepage thru pavement at driveway
Spill moistened the area around #3 C/O, did not enter a storm drain and essentially dried on its own while obstruction was
Manhole # 112
In street in front of 129 Via La Brisa

Leaking into storm drain infront of 192 Tamalpais
80 feet below #12 Allyn Ave, leaking from a crack in pavement
No surface overflow
Easement behind 69 Hatzic Ct.
Driveway of 119 Santa Cruz
Planting Strip near side walk
Hillside behind 128 Tamalpais
In front of 75 Mt. View

Greenfield Ave. at Spring Grove
Man hole in street
Back yard of 17 Via Navarro, hillside
Dirt area along road
Overflowing rod hole by gytterpan
Inside Apt. and from cleanout
Sewage seaping from rodhole #1056 on street in front of # 29 Terrace Ave.
Driveway of #5 Wolf Glen
Behind 465 Los Cerros
Rodhole overflowed into a parking lot storm drain that eventually drains into the Corte Madera Creek.
Manhole at 497 Scenic
Overflowing rodhole next to 9 Skyland
Manhole on Woodland Rd. in front of # 310

nore flooding. Less then 50 gallons of s
into the side yard and garage of 540 Va

relieved

Manhole
Building or structure
Manhole
Building or structure
Manhole
Building or structure
Manhole
Other sewer system structure
Manhole
Manhole
Building or structure
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Manhole
Manhole
Building or structure
Other (specify)
Other sewer system structure
Other (specify)
Manhole
Other sewer system structure
Other (specify)
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Other (specify)
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Manhole;Other (specify)
Other sewer system structure;Other (specify)
Other sewer system structure
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Other (specify)
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Manhole
Manhole

Resident's lateral clean out
cleanout
lateral clean-out

Area of soil just downhill from manhole
Customer private lateral clean out
customer lateral cleanout

3 Manholes in closely associated Collections sewer-shed
Residents Lateral cleanout
A section of dirt adjacent to roadway
cracks in pavement at driveway
end of the line cleanout

Storm drain
crack in pavement
14 main line was plugged of and abandoned at least 14 years ago. Live lateral was never tied in to new main. Do not be

leaking through ground from main

Lateral

Private clean out

Inside Apt. and from cleanout

Rodhole

Street/curb and gutter
Building or structure
Building or structure;Street/curb and gutter;Unpaved surface
Building or structure
Storm drain;Surface water
Building or structure
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface
Other paved surface
Other paved surface;Separate storm drain;Street/curb and gutter;Surface water
Building or structure
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Building or structure
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Other (specify below)
Unpaved surface
Street/curb and gutter;Unpaved surface;Other (specify below)
Separate storm drain
Separate storm drain
Unpaved surface
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface
Other paved surface;Separate storm drain;Street/curb and gutter;Surface water;Other (specify below)
Other (specify below)
Drainage Channel;Separate Storm Drain;Street/Curb and Gutter;Surface Water;Unpaved surface
Storm drain;Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Separate storm drain;Street/curb and gutter
Other (specify below)
Other (specify below)
Separate storm drain
Storm drain;Street/curb and gutter
Unpaved surface
Other paved surface
Separate storm drain;Unpaved surface
Other paved surface
Storm drain
Unpaved surface
Other paved surface;Storm drain
Other (specify below)
Building or structure;Unpaved surface
Street/curb and gutter
Street/curb and gutter
Unpaved surface
Storm drain;Other (specify below)
Street/curb and gutter
Other paved surface;Street/curb and gutter;Unpaved surface
Street/curb and gutter;Surface water

concrete drainage swale located just below man hole on hill and flat area of soil at end of swale

Affected soil removed to plant for disposal, cleanup water vacuumed and returned to plant

Entered storm drain, which eventually drains into the San Francisco Bay
evaporated (spill amount was less than 1 gal)

Spill dried in the gutter, debris was removed from area
From storm drain onto open land

14 main line was plugged of and abandoned at least 14 years ago. Live lateral was never tied in to new main. Unknown
Water was absorbed into ground.

Sewage was recovered from dip in the street

Spill started at Rodhole, to gutterpan, to storm drain then land(hillside).

Corte Madera Creek

10/12/2009 0:00	10/12/2009 13:30	10/12/2009 13:40	10/12/2009 13:50
10/30/2009 0:00	10/30/2009 12:00	10/30/2009 12:15	10/30/2009 18:00
11/2/2009 0:00	11/2/2009 7:45	11/2/2009 8:00	11/2/2009 8:30
1/18/2010 0:00	1/18/2010 14:00	1/18/2010 14:10	1/18/2010 14:20
1/20/2010 0:00	1/20/2010 10:00	1/20/2010 10:00	1/20/2010 12:30
2/15/2010 0:00	2/15/2010 14:00	2/15/2010 14:10	2/15/2010 14:00
3/16/2010 0:00	3/16/2010 8:00	3/16/2010 8:10	3/16/2010 8:20
4/14/2010 0:00	4/14/2010 9:00	4/14/2010 9:05	4/14/2010 9:05
9/1/2010 0:00	9/1/2010 21:15	9/1/2010 22:00	9/1/2010 22:10
11/19/2010 0:00	11/19/2010 8:00	11/19/2010 8:05	11/19/2010 8:45
1/26/2011 0:00	1/26/2011 13:00	1/26/2011 13:10	1/26/2011 13:30
3/24/2011 0:00	3/24/2011 12:11	3/24/2011 12:11	3/24/2011 17:15
3/24/2011 0:00	3/24/2011 12:11	3/24/2011 12:11	3/24/2011 17:45
3/24/2011 0:00	3/24/2011 12:31	3/24/2011 12:31	3/24/2011 16:30
3/24/2011 0:00	3/24/2011 12:58	3/24/2011 12:58	3/24/2011 16:01
2/2/2011 0:00	2/2/2011 12:00	2/2/2011 12:00	2/2/2011 12:00
6/19/2011 13:15	6/19/2011 14:22	6/19/2011 14:50	6/19/2011 17:20
6/29/2011 0:00	6/29/2011 7:45	6/29/2011 7:45	6/29/2011 7:45
9/13/2011 0:00	9/13/2011 8:15	9/13/2011 8:15	9/13/2011 8:15
9/17/2011 0:00	9/17/2011 19:07	9/17/2011 20:20	9/17/2011 21:05
10/10/2011 0:00	10/10/2011 13:05	10/10/2011 13:05	10/10/2011 13:05
4/18/2012 0:00	4/18/2012 12:15	4/18/2012 12:50	4/18/2012 14:15
4/28/2012 0:00	4/30/2012 15:34	4/30/2012 16:05	4/28/2012 12:15
5/9/2012 11:45	5/9/2012 11:45	5/9/2012 11:22	5/9/2012 11:47
12/2/2012 7:15	12/2/2012 8:25	12/2/2012 8:38	12/2/2012 10:13
12/2/2012 7:45	12/2/2012 9:12	12/2/2012 9:12	12/2/2012 10:12
12/22/2012 0:00	12/22/2012 11:53	12/22/2012 12:10	12/22/2012 13:28
3/9/2013 11:55	3/9/2013 12:00	3/9/2013 12:15	3/9/2013 15:35
4/13/2013 10:00	4/16/2013 8:02	4/16/2013 8:30	4/16/2013 8:42
4/28/2013 11:30	4/28/2013 11:42	4/28/2013 12:00	4/28/2013 13:15
11/17/2013 10:20	11/17/2013 10:30	11/17/2013 11:00	11/17/2013 11:39
5/7/2007 7:41	5/7/2007 7:41	5/7/2007 8:05	5/7/2007 8:30
5/12/2007 11:00	5/12/2007 11:00	5/12/2007 12:00	5/12/2007 13:30
5/18/2007 13:00	5/18/2007 0:00	5/18/2007 13:30	5/25/2007 13:00
6/5/2007 8:20	6/5/2007 8:20	6/5/2007 9:15	6/6/2007 11:00
6/1/1993 12:00	6/8/2007 12:00	6/8/2007 12:00	6/8/2007 12:00
6/22/2007 15:45	6/22/2007 15:45	6/22/2007 16:15	6/22/2007 17:00
8/4/2007 9:21	8/4/2007 9:22	8/4/2007 10:10	8/4/2007 10:10
8/16/2007 11:27	8/16/2007 11:27	8/16/2007 12:00	8/16/2007 12:20
8/22/2007 12:00	8/24/2007 10:15	8/24/2007 11:00	8/24/2007 11:15
9/17/2007 11:50	9/17/2007 11:50	9/17/2007 12:05	9/17/2007 13:05
9/17/2007 12:45	9/17/2007 12:45	9/17/2007 14:00	9/17/2007 15:00
9/25/2007 11:15	9/25/2007 11:15	9/25/2007 11:30	9/25/2007 12:00
10/14/2007 10:40	10/14/2007 10:40	10/14/2007 11:40	10/14/2007 11:40
11/5/2007 9:30	11/5/2007 9:30	11/5/2007 10:00	11/5/2007 10:45
11/5/2007 10:45	11/6/2007 10:45	11/6/2007 11:15	11/6/2007 12:00
11/2/2007 11:00	11/9/2007 9:25	11/9/2007 9:45	11/9/2007 11:00
11/21/2007 10:05	11/21/2007 10:05	11/21/2007 10:05	11/21/2007 10:50
11/21/2007 0:00	11/21/2007 2:30	11/21/2007 2:50	11/21/2007 3:10
11/24/2007 4:25	11/24/2007 4:25	11/24/2007 5:15	11/24/2007 5:45
11/25/2007 12:00	11/25/2007 12:00	11/25/2007 12:50	11/25/2007 1:30
11/19/2007 10:30	12/3/2007 10:30	12/3/2007 11:00	12/3/2007 11:30
12/9/2007 5:25	12/9/2007 5:45	12/9/2007 9:20	12/9/2007 11:50
12/10/2007 18:00	12/11/2007 8:05	12/11/2007 8:20	12/11/2007 9:20
12/17/2007 8:00	12/17/2007 10:45	12/17/2007 11:20	12/17/2007 12:00

Grease deposition (FOG)
Root intrusion
Root intrusion
Other (specify below)
Flow exceeded capacity
Debri-Rags
Other (specify below)
Pipe structural problem/failure
Pipe structural problem/failure
Debri-General
Pipe structural problem/failure
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Other (specify below)
Debri-Rags
Other (specify below)
Debri-General
Debri-General
Pump station failure
Pipe structural problem/failure
Grease deposition (FOG)
Other (specify below)
Flow exceeded capacity (Separate CS Only)
Flow exceeded capacity (Separate CS Only)
Root intrusion
Root intrusion
Root intrusion
Grease deposition (FOG)
Debris from Lateral
Debris
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Root intrusion
Root intrusion
Pipe structural problem/failure
Root intrusion
Pipe structural problem/failure
Debri-General
Pipe structural problem/failure
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Other (specify below)
Root intrusion
Root intrusion
Root intrusion
Pipe structural problem/failure
Other (specify below)
Grease deposition (FOG)
Debris

Residence has illegal floor drain and non-functional back flow preventer. This allowed sewage to enter home through the

Diapers

During routine cleaning operation of the sewer main, a pressure surge went up the residence lateral and burped the toile

unknown, removed root debris and diapers after cleaning operation

Original issue was a private lateral spill at 824 7th St, during hydrojetting to verify line integrity a small amount of water w

Combination of rags, paper and grease
Large amount of paper products removed from private lateral and pushed into main

Contractor damaged sewer main when installing new water main. Backfill rock blocked main Above GPM is 2., not 21
THIS LATERAL WAS MISSED DURING A REHAB PRIOR TO 1994 THE DATES ARE AS ACCURATE AS POSSIBLE.

Debris/Roots from a lateral

Contractor plugged main with a plug to test causing main to back up into apartment. Apartment maintenance staff respor

Large amount of rags

Paper/rags

Main
Main

Main
Main
Main
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Main
Main
Main
Main
Main
Main
Other (specify below)
Main
Main
Lower Lateral
Main
Main
Main
Main
Main
Main
Gravity Mainline

Main
Main
Main
Other (specify below)
Main
Main

Main

ıded and removed clean out cap allowing sewag

Main

Pump station PLC went into fault mode and did not start pumps to pump sewage from lift station. Wet well filled up and s

There was not an overflow, only a back up contained in the lateral and large a large abandoned trunk line. The old trunk l

ge to flow to land

	10	unk	
	6	VCP	
	6	VCP	
spilled at nearest clean-out fr			
	8	VCP	
	6	VCP	
	6	VCP	
	10		
	6	VCP	
	6	VCP	
		VCP	
	6	VCP	
No	6	VCP	
	6	vcp	
	6		6
	6	vcp	
	6	vcp	
line may have acting as a pa	4	vcp	
	6	vcp	
	6	vcp	
	5	vcp	
	6	vcp	
	6	vcp	
	6		45
	6	VCP	
	6	VCP	
	6	VCP	
	6	vcp	
	6	vcp	
	6		
	4	CIP	

80

75

50

75

45
50
85

50

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;Re
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
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Cleaned-up (mitigated effects of spill);Restored flow
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Cleaned-up (mitigated effects of spill);Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-Up;Mitigated Effects of Spill;Restored flow;Property Owner Notified
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;Re
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Restored flow;Other (specify below)
Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow

Had Restoration Management clean and disinfect all affected areas of basement floor.
Replaced section of pipe and removed roots. Had Resoration Management clean and disinfect affected areas of land an

Sampled upstream and downstream in Rodeo Creek for Total Coliform and Ammonia.
Hired Restoration Management to clean bathrooms.

Replaced broken sections of pipe.

The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runo
The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runo
The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runo
The District was unable to recover any flow due to the nature of the storm event. The location has extremely heavy runo

Cleared broken VCP chunks from sewer, hydro-jetted line clean, barricaded area, dry sweep concrete drainage ditch afte

Shoveled soil around clean-out for disposal at treatment plant, assisted resident at 824 7th St in cleaning the area around
Barricade and post warnings to area, cleanup small amount of paper products when spill was over
Installed bypass pumping to reduce size of spill (last 16 minutes of spill were only at 8 gpm), the bypass pumping was ass

Vacum as much of spill as was possible

The SSO was originally miss reported as a category 1. Water dried in gutter, Small amount of debris was removed and a

Originally thought to be a private issue. A plumber working for the owner discovered why the lateral was backing up, SD#

Cleaned main and surrounding area

Man hole was full but not overflowing on arrival. Restored flow in main. Recovered all spilled sewage. A work order has
Mouth of mainline was partialy blocked with roots that were cut from a lateral

Broke the root blockage and cleaned the accesable storm drain with the vac truck and flushed the unaccesable strom dra
Inspection Department arrived to inspect a new man hole installed privately (Not a District job) When Joe arrived, he four
Cleaned up street & gutterpan. Removed 5gal bucket worth of contaminated leaves.

Broke blockage with rodder and contained some of the spill in the parking lot. Restored flow. Vacced up some sewage frc
Posted signs

1/20/2010 14:00

3/16/2010 10:00

12/9/2010 8:20

3/24/2011 18:00
3/24/2011 18:00
3/24/2011 18:00
3/24/2011 18:00

12/2/2012 10:12
12/2/2012 15:21

3/9/2013 16:00
4/16/2013 11:30

11/19/2013 12:48
5/7/2007 8:45

5/29/2007 16:00
6/7/2007 16:00

8/4/2007 11:15

9/19/2007 12:00

10/14/2007 1:00

11/6/2007 1:30
11/9/2007 3:15

11/24/2007 6:15
11/25/2007 2:45
12/3/2007 1:30
12/9/2007 11:50
12/11/2007 0:00
12/17/2007 3:00

Plan rehabilitation or replacement of sewer

Other (specify below)

Adjusted schedule/method of preventive maintenance

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Other (specify below)
Other (specify below)

Other (specify below)
Repaired sewer

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance;Repaired sewer
Repaired sewer

Adjusted schedule/method of preventive maintenance

Repaired sewer

Other (specify below)

Other (specify below)
Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program
Other (specify below)
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Other (specify b
Adjusted schedule/method of preventive maintenance;Other (specify below)

Continue to utilize semi annual news letter to send message toilet is not a trash can

Master plan to address
To be addressed in Master Plan development

Ongoing investigation will determine most effective future steps

Stopped leak, will dig and repair on 5-29-07 Repaired main on 5-29-07

Rodded/flushed mainRestored flow. cleaned debris and solids from area

Roots were from a private lateral

Main will be TV' ed on 11-9-07 to determine correrions needed. Main line is only 6 years old
CCTV sewer in three months to determine future maintenance and or replacement.

A work order has been issued for TV and repair as needed
Will CCTV to determine if any further repairs are necessary
Will repair as needed
Will CCTV for needed repairs

Yes

No

Yes

Yes
Yes
Yes
Yes

No
Yes

Yes
Yes

No
No

Yes
No

No

Yes

No

Yes
No

Yes
No
No
No
Yes
Yes

No observable indications
no changes

Drainage channel flows into a culvert and on to Rodeo creek less that 50 feet away, interior of culvert showed no indicatic
No Visual impact
N/A
NA
No impact
n/a
N/A
N/A
N/A
N/A
N/A
NA
N/A
N/A
Manhole was seeping water from lid
N/A
N/A
n/a

n/a

Found no visual impact

n/a
No visual materal or other impact

No

No

No

No
No
No
No

Yes
Yes

No
Yes

No No
No

Yes
Yes

Yes

Yes

No

Yes
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Rodeo Creek

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Rodeo Creek

Rodeo Creek
Rodeo Creek
Rodeo Creek
Rodeo Creek
n/a

n/a

no impacted surface waters
no surface waters impacted
no impacted surface water
Rodeo Creek
Rodeo Creek
no impacted surface waters
Rodeo Creek
Rodeo Creek, San Francisco Bay
none impacted
Rodeo Creek, which flows eventually into San Pablo Bay
NA
N/A
NA
San Anselmo Creek
n/a
none
N/A

Fairfax creek

N/A

n/a
N/A

n/a
n/a
Corte Madera Creek
N/A
n/a
Woodland Rd Creek

Other chemical indicator(s) - specify below;Biological indicator(s) - specify below

Not applicable to this spill

Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
Other (specify below)

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
Other (specify below)
No water quality samples taken
No water quality samples taken
No water quality samples taken

Ammonia and Total Coliform

Total Coliform, up stream, at spill location, and down stream. 1000 feet upstream total coliform = 900 mpn/100ml At sp

0.4 Ammonia From down stream storm drain prior to cleaning

Ammonia

None of the above

Not applicable to this spill

None of the above

None of the above
None of the above
None of the above
None of the above

No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
None of the above

None of the above
None of the above

None of the above

County Health Agency

None of the above

None of the above
None of the above

None of the above
None of the above
None of the above
None of the above
County Health Agency;Regional Water Quality Control Board
None of the above

Central Marin Sanitation Agency ran ammonia tests on two samples: one was taken 30ft upstream and one was taken 30f

Duration of observed flow rate and upstream connections methods

't. downstream of where the storm drain empties into creek. CMSA found no difference in color between both samples. W

100455	1/20/2010 11:00
106958	11/19/2010 9:25
111859	3/24/2011 14:00
111859	3/24/2011 14:00
111859	3/24/2011 14:00
111859	3/24/2011 14:00
127296	12/2/2012 9:34
127296	12/2/2012 9:34
132286	4/16/2013 10:19
137140	11/19/2013 13:51
73435	6/6/2007 14:55
76923	11/9/2007 1:40
Jul-74	11/26/2007 9:00
77471	12/3/2007 2:50

Steven S. Beall, P.E., District Manager 5107992970

2SSO10172	Active	709839	Eric Smith	Certified
2SSO10172	Active	710237	Eric Smith	Certified
2SSO10172	Active	710244	Eric Smith	Certified
2SSO10172	Active	710569	Eric Smith	Certified
2SSO10172	Active	710728	Eric Smith	Certified
2SSO10172	Active	710735	Eric Smith	Certified
2SSO10172	Active	710884	Eric Smith	Certified
2SSO10172	Active	710935	Eric Smith	Certified
2SSO10172	Active	710958	Eric Smith	Certified
2SSO10172	Active	710974	Eric Smith	Certified
2SSO10172	Active	711187	Eric Smith	Certified
2SSO10172	Active	711936	Eric Smith	Certified
2SSO10172	Active	711999	E Smith	Certified
2SSO10172	Active	712071	E Smith	Certified
2SSO10172	Active	712075	E Smith	Certified
2SSO10172	Active	712086	Eric Smith	Certified
2SSO10172	Active	712112	Eric Smith	Certified
2SSO10172	Active	712114	Eric Smith	Certified
2SSO10172	Active	712120	Eric Smith	Certified
2SSO10172	Active	712122	Eric Smith	Certified
2SSO10172	Active	712180	Eric Smith	Certified
2SSO10172	Active	712348	Eric Smith	Certified
2SSO10172	Active	712676	Eric Smith	Certified
2SSO10172	Active	712713	Eric Smith	Certified
2SSO10172	Active	712962	E Smith	Certified
2SSO10172	Active	712965	E Smith	Certified
2SSO10172	Active	713773	Eric Smith	Certified
2SSO10172	Active	713774	Eric Smith	Certified
2SSO10172	Active	713959	Eric Smith	Certified
2SSO10172	Active	714795	Eric Smith	Certified
2SSO10172	Active	715488	Eric Smith	Certified
2SSO10172	Active	715904	Eric Smith	Certified
2SSO10172	Active	716268	E Smith	Certified
2SSO10172	Active	716522	Eric Smith	Certified
2SSO10172	Active	717945	Eric Smith	Certified
2SSO10172	Active	718024	Eric Smith	Certified
2SSO10172	Active	718775	Eric Smith	Certified
2SSO10172	Active	720989	Eric Smith	Certified
2SSO10172	Active	725458	Eric Stassevitch	Certified
2SSO10172	Active	727492	E Smith	Certified
2SSO10172	Active	727771	Eric Smith	Certified
2SSO10172	Active	727911	E Smith	Certified
2SSO10172	Active	728563	E Smith	Certified
2SSO10172	Active	729181	E Smith	Certified
2SSO10172	Active	729308	Eric Smith	Certified
2SSO10172	Active	729337	Eric Smith	Certified
2SSO10172	Active	729417	Eric Smith	Certified
2SSO10172	Active	729711	Eric Smith	Certified
2SSO10172	Active	730029	Eric Smith	Certified
2SSO10172	Active	730967	Eric Smith	Certified
2SSO10172	Active	731232	Eric Smith	Certified
2SSO10172	Active	731642	E Smith	Certified
2SSO10172	Active	731672	Eric Smith	Certified
2SSO10172	Active	731870	Eric Smith	Certified
2SSO10172	Active	732033	Eric Smith	Certified

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San Rafael	582662
San Rafael	126525
San Rafael	617908
San Rafael	917956
San Rafael	393804
San Rafael	261465
San Rafael	980933
San Rafael	419607
San Rafael	900400
San Rafael	606403
San Rafael	703936
San Rafael	123900
San Rafael	696648
San Rafael	515863
San Rafael	915771
San Rafael	502233
San Rafael	645223
San Rafael	764973
San Rafael	903208
San Rafael	356930
San Rrafael	900502
San Rafael	977382
San Rafael	591962
San Rafael	112981
San Rafael	373541
San Rafael	370704
San Rafael	962756
San Rafael	623803
San Rafael	804064
San Rafael	676929
San Rafael	290436
San Rafael	289581
San Rafael	291226
San Rafael	122893
San Rafael	503319
San Rafael	803934
San Rafael	606088
San Rafael	691482
San Rafael	838512
San Rafael	890698
San Rafael	346796
San Rafael	549506
San Rafael	377461
San Rafael	143349
San Rafael	676487
San Rafael	985236
San Rafael	628552
San Rafael	727308
San Rafael	642502
San Rafael	393399
San Rafael	601875
San Rafael	723706
San Rafael	417317
San Rafael	601367
San Rafael	247712

19-Dec-07	20-Dec-07	12/20/2007
24-Dec-07	26-Dec-07	12/26/2007
24-Dec-07	26-Dec-07	12/26/2007
2-Jan-08	7-Jan-08	1/7/2008
7-Jan-08	9-Jan-08	12/16/2010
7-Jan-08	7-Jan-08	1/7/2008
8-Jan-08	9-Jan-08	1/9/2008
8-Jan-08	9-Jan-08	1/9/2008
9-Jan-08	9-Jan-08	1/9/2008
9-Jan-08	9-Jan-08	1/9/2008
14-Jan-08	14-Jan-08	1/14/2008
28-Jan-08	29-Jan-08	1/29/2008
29-Jan-08	14-Jun-10	6/14/2010
30-Jan-08	14-Jun-10	6/14/2010
30-Jan-08	14-Jun-10	6/14/2010
30-Jan-08	5-Feb-08	2/5/2008
31-Jan-08	31-Jan-08	1/31/2008
31-Jan-08	31-Jan-08	1/31/2008
31-Jan-08	31-Jan-08	1/31/2008
31-Jan-08	31-Jan-08	1/31/2008
1-Feb-08	1-Feb-08	3/31/2011
5-Feb-08	5-Feb-08	2/5/2008
11-Feb-08	12-Feb-08	2/12/2008
11-Feb-08	12-Feb-08	2/12/2008
14-Feb-08	14-Jun-10	6/14/2010
14-Feb-08	14-Jun-10	6/14/2010
24-Feb-08	24-Feb-08	2/24/2008
24-Feb-08	24-Feb-08	2/24/2008
26-Feb-08	3-Mar-08	3/3/2008
12-Mar-08	12-Mar-08	3/12/2008
27-Mar-08	28-Mar-08	3/28/2008
8-Apr-08	9-Apr-08	4/9/2008
18-Apr-08	14-Jun-10	6/14/2010
25-Apr-08	25-Apr-08	4/25/2008
23-May-08	27-May-08	5/27/2008
27-May-08	27-May-08	5/27/2008
3-Jun-08	3-Jun-08	3/31/2011
30-Jun-08	30-Jun-08	6/30/2008
28-Aug-08	2-Sep-08	9/2/2008
7-Oct-08	14-Jun-10	6/14/2010
13-Oct-08	14-Oct-08	10/14/2008
15-Oct-08	14-Jun-10	6/14/2010
27-Oct-08	14-Jun-10	6/14/2010
12-Nov-08	14-Jun-10	6/14/2010
17-Nov-08	17-Nov-08	3/31/2011
18-Nov-08	18-Nov-08	11/18/2008
19-Nov-08	19-Nov-08	11/19/2008
21-Nov-08	8-Dec-08	12/8/2008
1-Dec-08	8-Dec-08	12/8/2008
22-Dec-08	29-Dec-08	12/29/2008
30-Dec-08	31-Dec-08	12/31/2008
9-Jan-09	14-Jun-10	6/14/2010
9-Jan-09	9-Jan-09	1/9/2009
14-Jan-09	14-Jan-09	1/14/2009
16-Jan-09	20-Jan-09	1/20/2009

Category 1	126	0
Category 3	20	0
Category 1	280	0
Category 3	50	0
Category 1	50	0
Category 1	216	0
Category 1	150	0
Category 3	450	0
Category 2	2808	0
Category 1	117	0
Category 3	64	0
Category 3	262	262
Category 1	4800	0
Category 1	4800	0
Category 1	33000	0
Category 1	24000	0
Category 1	24000	0
Category 1	24000	0
Category 3	500	0
Category 1	4800	0
Category 2	1144	0
Category 1	18	0
Category 1	50	0
Category 1	81	0
Category 1	50	0
Category 1	50	0
Category 1	486	0
Category 3	405	0
Category 1	8000	0
Category 3	153	0
Category 3	300	0
Category 3	600	0
Category 3	638	0
Category 3	150	2
Category 3	162	0
Category 3	50	0
Category 1	7200	7199
Category 3	319	250
Category 3	20	0
Category 3	50	0
Category 3	567	0
Category 3	673	0
Category 3	100	0
Category 3	50	0
Category 3	25	0
Category 3	40	0
Category 3	27	0
Category 3	150	0
Category 3	100	0
Category 1	555	50
Category 3	50	50
Category 3	50	50
Category 3	200	0
Category 3	600	0
Category 3	250	0

126	No	Yes
0	No	Yes
280	No	Yes
	No	No
50	No	Yes
260	Yes	Yes
150	No	Yes
	No	No
0	No	No
117	Yes	Yes
	No	No
	No	No
4800	Yes	Yes
4800	Yes	Yes
33000	Yes	Yes
24000	Yes	Yes
24000	Yes	Yes
24000	Yes	Yes
	No	No
4800	Yes	Yes
0	No	No
18	No	Yes
50	No	Yes
81	No	Yes
50	Yes	Yes
50	Yes	Yes
486	Yes	Yes
	No	No
8000	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
0	No	No
0	No	No
0	No	No
1	Yes	Yes
0	No	Yes
0	No	No
0	No	No
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0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
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505	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No

No
No
No
Not Applicable - Spill did not reach storm drainpipe
No
No
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Yes
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe

PG&E Dig In At 25 Hill Kentfield
8 Deer Park Ln.
60 Geary Ave. Fairfax
153 Ridge Rd. Fairfax
100 Deer Hollow
Banchero
4 Oak Springs
111 Goodhill
Via La Cumbre
33 Agatha
64 Via Navaro
19 Morningside
67 College
Diane Ln
111 Goodhill
800 San Anselmo Ave.
800 San anselmo Ave #2
San Rafael
Quisisana
118 Sycamore
17 Morningside
Westwood
14 Tamalpais Ave. Larkspur
808 S.F. Drake Blvd.
Banchero
Banchero
310 West Baltimore
Cordone
40 Green Valley
101 Legend
65 Corte Amado
700 Lincoln Village Cir
94 Gregory
70 Corte Dorado
Via LA Paz Easement
68 Alder
2 Los Cerros
72 Almanar
112 Goodhill
8 Toyon
120 Oak Kentfield
16 Laurel Grove
40 Corte Cordva
Laurel Grove
16 Wolfe Canyon
61 Ridgecrest
110 Wood Lane
21 Toussin
405 Sequoia
20 Liberty
Broadmore
22 Canyon
67 Ridgecrest
100 Deer Hollow
6 Greenwood

37.9615	-122.5409	Marin
37.982	-122.5794	Marin
37.989	-122.588	Marin
37.9871	-122.601	Marin
37.99949	-122.57415	Marin
37.9987	-122.6013	Marin
37.999	-122.5807	Marin
37.9519	-122.5523	Marin
37.9512	-122.5137	Marin
37.9806	-122.5707	Marin
37.9507	-122.5174	Marin
37.9863	-122.5733	Marin
37.9502	-122.5497	Marin
37.9343	-122.5273	Marin
37.9519	-122.5523	Marin
37.9764	-122.5635	Marin
37.9768	-122.564	Marin
37.9767	-122.5642	Marin
37.9573	-122.5417	Marin
37.9773	-122.5648	Marin
37.98609	-122.57344	Marin
37.9448	-122.5658	Marin
37.9348	-122.5411	Marin
37.9536	-122.5409	Marin
37.9987	-122.6013	Marin
37.9987	-122.6013	Marin
37.9301	-122.5381	Marin
37.9855	-122.5706	Marin
37.9634	-122.561	Marin
38.0051	-122.5812	Marin
37.9558	-122.5275	Marin
37.9482	-122.5062	Marin
38.0027	-122.5913	Marin
37.9565	-122.531	Marin
37.9521	-122.5204	Marin
37.9814	-122.5723	Marin
37.94913	-122.52541	Marin
37.9503	-122.5328	Marin
37.95217871	-122.5515726	Marin
37.9601	-122.533	Marin
37.9552	-122.5413	Marin
37.9637	-122.5556	Marin
37.9547	-122.5308	Marin
37.9637	-122.5556	Marin
37.95721	-122.53483	Marin
37.9402	-122.5549	Marin
37.9769	-122.5962	Marin
37.96	-122.5504	Marin
37.9817	-122.5571	Marin
37.9355	-122.5282	Marin
37.9888	-122.5733	Marin
37.9695	-122.5503	Marin
37.94	-122.5548	Marin
37.9988	122.5738	Marin
37.9451	122.5559	Marin

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Seepage under some common steps
Overflowing Contra Costa Valve
Rodhole in street

Fairfax creek
Manhole in front of #5 Oak Springs
50 inside house, 400 outside
Land slide area behind 307 Via La Cumbre
In the street in front of 33 Agatha Ct.
Rodhole in back of 69 Via Navaro
Bathroom of house
College Ave at Kent.
Manhole at Diane and William
Manhole at Vineyard and Woodland
Surcharging manhole at Bridge and San Anselmo Ave.
Surcharging manhole on San Anselmo ave at San Rafael Ave
Surcharging manhole at 807 San Rafael Ave
Lateral clean out at #7 Quisisana
Manhole on Sycamore at Center Blvd.
Bathroom/cellar inside house
In easement above 60 westwood
Rodhole overflowed onto street
Planter area in sidewalk

Clean out at 47 Cordone
Backyard of 40 Green Valley Ct.
seeping from ground and driveway
Hillside next to 65 Corte Amado
Manhole in open area
From manhole in street
Manhole in dirt area
Open Hillside
Clean out in yard

Easement in rear of yard
In the easement, on the property of # 112 Goodhill Rd.
Dirt area on side of the road
Lateral clean out
Overflowing cleanout flowed outside of building into crawl space opening and under it

In Kitchen area of Marin Art and Garden Center
Water seeping from manhole buried under flagstone in yard of 16 Wolfe Canyon.
Street
Hillside
Manhole leaking, 3 houses on main
On dirt hillside

Other (specify)
Other (specify)
Other (specify)
Other (specify)
Other sewer system structure
Gravity sewer
Manhole
Building or structure
Gravity sewer
Manhole
Other (specify)
Building or structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Manhole
Building or structure
Gravity sewer
Other (specify)
Other (specify)
Gravity sewer
Gravity sewer
Manhole
Other (specify)
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Other (specify)
Other (specify)
Other (specify)
Manhole
Gravity sewer
Manhole
Other (specify)
Other (specify)
Manhole
Building or structure
Manhole
Manhole
Other (specify)
Manhole
Other (specify)
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Other (specify)
Manhole

Hole drilled in 6 ' main during emergency repair/replacement of power pole, USA was not called.
Under some common steps
Contra Costa Valve in front of 60 Geary Ave.
Rodhole in street
Clean out

Rodhole

Lateral clean out

Rodhole
Planter area between sidewalk and gutterpan

Clean out

seeping from ground and driveway

Rodhole
Clean out at house
Cleanout

Lateral cleanout
Cleanout

Dirt hillside

Through ground

Rod hole

Clean out in yard of 100 Deer Hollow

Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Other paved surface;Street/curb and gutter;Unpaved surface
Unpaved surface
Surface water
Street/curb and gutter
Building or structure;Unpaved surface
Unpaved surface
Storm drain;Surface water
Unpaved surface
Building or structure
Street/curb and gutter
Other paved surface
Storm drain
Other paved surface;Storm drain
Other paved surface;Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Unpaved surface
Storm drain;Street/curb and gutter;Surface water
Building or structure;Unpaved surface
Storm drain;Unpaved surface
Other paved surface;Storm drain;Street/curb and gutter
Storm drain;Other (specify below)
Surface water
Surface water
Surface water
Unpaved surface
Surface water;Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Storm drain;Street/curb and gutter
Other paved surface;Unpaved surface
Unpaved surface
Unpaved surface
Separate storm drain
Storm drain;Unpaved surface
Other (specify below)
Unpaved surface
Unpaved surface
Unpaved surface;Other (specify below)
Unpaved surface
Other (specify below)
Other (specify below)
Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Other paved surface;Storm drain
Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface

San Anselmo Creek

Corte Madera Creek
Owner had used a small pump to remove sewage from building to rear yard before The District was notified of spill

Dirt area of planter

Removed and returned all 250 gallons that entered from drain. Remaining was absorbed into dirt area
Land/yard

Under building

Building
flagstone in yard of 16 Wolfe Canyon.

12/18/2007 20:30	12/18/2007 20:30	12/18/2007 21:35	12/18/2007 22:30
12/22/2007 11:43	12/22/2007 11:43	12/22/2007 12:40	12/22/2007 18:45
12/23/2007 3:32	12/23/2007 3:32	12/23/2007 4:35	12/23/2007 4:45
12/29/2007 11:30	12/29/2007 11:30	12/29/2007 12:35	12/29/2007 12:50
1/3/2008 10:15	1/3/2008 10:15	1/3/2008 11:00	1/4/2008 2:30
1/5/2008 0:00	1/5/2008 9:40	1/5/2008 10:30	1/5/2008 15:30
1/7/2008 13:00	1/7/2008 13:00	1/7/2008 13:30	1/7/2008 13:50
1/4/2008 12:00	1/7/2008 3:00	1/7/2008 3:30	1/4/2008 13:00
1/4/2008 7:00	1/7/2008 2:00	1/7/2008 2:00	1/8/2008 4:00
1/8/2008 10:00	1/8/2008 10:35	1/8/2008 10:40	1/8/2008 11:00
1/13/2008 14:25	1/13/2008 14:25	1/13/2008 15:00	1/13/2008 18:20
1/25/2008 11:00	1/26/2008 10:00	1/26/2008 10:20	1/26/2008 4:00
1/25/2008 23:00	1/25/2008 23:00	1/25/2008 23:00	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 11:00	1/26/2008 1:00
1/25/2008 15:30	1/25/2008 15:30	1/25/2008 13:00	1/25/2008 21:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/26/2008 1:00	1/28/2008 10:00	1/28/2008 10:40	1/26/2008 1:00
1/25/2008 21:00	1/25/2008 21:00	1/25/2008 21:00	1/26/2008 1:00
1/25/2008 20:00	1/25/2008 21:00	1/25/2008 21:20	1/25/2008 21:00
2/4/2008 15:00	2/4/2008 16:00	2/4/2008 16:05	2/4/2008 0:00
2/10/2008 12:45	2/10/2008 12:45	2/10/2008 1:30	2/10/2008 1:45
2/11/2008 9:00	2/11/2008 1:05	2/11/2008 1:15	2/11/2008 1:30
2/13/2008 10:30	2/13/2008 7:45	2/13/2008 8:00	2/13/2008 10:45
2/13/2008 10:30	2/13/2008 7:45	2/13/2008 8:00	2/13/2008 10:45
2/23/2008 13:20	2/23/2008 13:20	2/23/2008 14:10	2/23/2008 14:50
2/24/2008 8:00	2/24/2008 11:25	2/24/2008 12:10	2/24/2008 12:30
2/24/2008 9:40	2/25/2008 10:00	2/25/2008 10:50	2/25/2008 11:40
3/10/2008 9:25	3/10/2008 9:25	3/10/2008 9:45	3/10/2008 10:30
3/26/2008 17:00	3/27/2008 7:05	3/27/2008 7:30	3/27/2008 10:45
4/8/2008 9:30	4/8/2008 9:30	4/8/2008 10:00	4/8/2008 11:30
4/17/2008 20:15	4/17/2008 20:15	4/17/2008 21:20	4/17/2008 22:05
4/23/2008 18:00	4/23/2008 18:00	4/23/2008 0:00	4/23/2008 19:15
5/22/2008 18:00	5/23/2008 9:25	5/23/2008 10:30	5/23/2008 12:00
5/26/2008 11:30	5/26/2008 11:30	5/26/2008 12:30	5/26/2008 13:00
5/4/2008 8:00	5/5/2008 7:55	5/5/2008 8:00	5/5/2008 8:05
6/28/2008 16:35	6/28/2008 16:35	6/28/2008 17:35	6/28/2008 19:30
8/27/2008 9:00	8/27/2008 15:30	8/27/2008 15:45	8/27/2008 16:30
10/6/2008 14:20	10/6/2008 14:20	10/6/2008 15:00	10/6/2008 15:15
10/12/2008 12:30	10/12/2008 18:45	10/12/2008 20:30	10/12/2008 20:45
10/14/2008 12:00	10/14/2008 14:55	10/14/2008 15:15	10/14/2008 16:00
10/27/2008 9:30	10/27/2008 9:30	10/27/2008 9:45	10/27/2008 10:00
11/10/2008 8:30	11/10/2008 9:35	11/10/2008 9:15	11/10/2008 10:15
11/15/2008 11:15	11/15/2008 11:15	11/15/2008 11:45	11/15/2008 12:30
11/17/2008 12:05	11/17/2008 12:05	11/17/2008 12:30	11/17/2008 12:45
11/18/2008 9:30	11/18/2008 10:05	11/18/2008 10:30	11/18/2008 10:30
11/20/2008 10:05	11/20/2008 10:05	11/20/2008 10:30	11/20/2008 10:30
11/25/2008 9:10	11/25/2008 9:10	11/25/2008 9:45	11/25/2008 10:15
12/21/2008 20:20	12/21/2008 20:20	12/21/2008 21:20	12/21/2008 21:30
12/30/2008 8:00	12/30/2008 8:00	12/30/2008 8:30	12/30/2008 9:00
1/8/2009 12:05	1/8/2009 12:05	1/8/2009 12:15	1/8/2009 12:25
1/8/2009 9:40	1/8/2009 9:40	1/8/2009 10:15	1/8/2009 10:15
1/13/2009 18:30	1/13/2009 18:30	1/13/2009 18:50	1/13/2009 19:30
1/16/2009 9:25	1/16/2009 9:25	1/16/2009 9:40	1/16/2009 9:55

Other (specify below)
Root intrusion
Debris
Root intrusion
Other (specify below)
Pipe structural problem/failure
Root intrusion
Rainfall exceeded design
Pipe structural problem/failure
Other (specify below)
Debris
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity
Flow exceeded capacity (Separate CS Only)
Pipe structural problem/failure
Other (specify below)
Grease deposition (FOG)
Pipe structural problem/failure
Pipe structural problem/failure
Debris
Root intrusion
Debris
Pipe structural problem/failure
Other (specify below)
Root intrusion
Root intrusion
Debris
Debris
Other (specify below)
Pipe structural problem/failure
Grease deposition (FOG)
Debris
Other (specify below)
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Root intrusion
Debris
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Grease deposition (FOG)
Root intrusion
Debri-General
Other (specify below)
Root intrusion
Root intrusion

Hole drilled in 6 ' main during emergency repair/replacement of power pole
Broken pipe

Restricted main and heavy rain caused minor overflow

Unknown start and stop times. Times stated above are based on heavest flows at nearest pump station. Volume was det

Heavy rain and rock accumulation from possible main break
Paper towels
Heavy Rain

High flows due to heavy rains surcharged system

A small amount of roots caught towels flushed into the system

Large amount of paper towels and a piece of clay pipe

Plastic Gatorade bottle

Rock from a damaged section of pipe

Towels in main

Roots from a lateral
Paper towels

Roots

Roots from lateral

Plastic water bottle, some roots
Unknown. Did not find any grease, roots of debris.

Main

ermined by RP, assisted by Roy's sewer service

Main

Main

Main

Main

Main

Main

Main

Main

Main
Main

Main

Main
Main
Main
Main
Main
Main
Main

Paper towels

4 VCP
6 VCP
6 PVC
6 vcp
8
6 vcp
6 vcp
4
6
4 cip

6 vcp
6
4 VCP
4 CI

6 vcp

8 pvc
6 vcp
6 vcp
4 Cast Iron
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Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
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Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
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Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
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Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Other (specify belc
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
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Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;Re
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow

Pipe repaired 12-19-07

Responded on 1-4-08 checked main all clear. Cleaned area out of house.
Repaired pipe

Cleaning service co. cleaned house

Manhole surcharged due to heavy rains. Water flowed to Corte Madera Creek which was at flood stage by storm drain Ba
Manhole surcharged due to heavy rains. Water flowed by storm drain to Corte Madera Creek which was at flood stage Ba

Overflow stopped before crew arrived.
County employee found offset pipe in easement, made a tempoary repair, crew will repair 2-5-08. Only two houses on ea

Main has been replaced

Cleaned main, cleaned and posted area
Repaired pipe

Cleaned/restored building, repaired main

Repaired main

Dug to repair

12/19/2007 0:00
12/22/2007 22:00
12/23/2007 19:30

1/4/2008 2:30
1/5/2008 15:00
1/7/2008 14:15

1/8/2008 4:00
1/8/2008 11:30

1/26/2008 1:00
1/26/2008 0:00
1/28/2008 0:00
1/26/2008 13:00
1/26/2008 13:00
1/26/2008 13:00

1/26/2008 13:00
1/26/2008 0:00
2/4/2008 16:30
2/10/2008 2:15
2/11/2008 1:45
2/14/2008 12:30
2/14/2008 12:30
2/23/2008 15:00

2/25/2008 15:30

4/18/2008 0:00

5/5/2008 18:00

12/22/2008 3:00

Repaired sewer
Plan rehabilitation or replacement of sewer;Repaired sewer
Other (specify below)

Added sewer to preventive maintenance program
Repaired sewer
Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer
Other (specify below)

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer

Plan rehabilitation or replacement of sewer
Plan rehabilitation or replacement of sewer
Repaired sewer
Other (specify below)
Other (specify below)
Other (specify below)
Plan rehabilitation or replacement of sewer;Repaired sewer
Other (specify below)

Repaired sewer;Other (specify below)

Adjusted schedule/method of preventive maintenance;Other (specify below)

Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance

Removed a scrub brush from our main, therefore corrective action is done.

Will CCTV to determine if any other action is needed

Will CCTV and locate, repair as needed

Heavy Rains, unable to collect samples

Overflow stopped before crew arrived. Owner had used a small pump to remove sewage from building to rear yard before

CCTV line for possible repairs or root Intrusion.
CCTV for possible repairs
The staff has issued a work order to engineering to abondon main and provide new lateral to only house on old main. Th

will TV and repair as needed

CCTV is being performed, no results at this time Update: see attached report

Will CCTV to determine repairs needed

See attachment

No
No
No

No
No
No

Yes
Yes

No
No
No
No
No
No

No
No
No
No
Yes
No
No
Yes

Yes

Yes

No

No

n/a

N/A
n/a
No visual impact
n/a
n/a
n/a
Heavy rain, no visual impact
n/a
None
N/A
N/A
N/A
None
No visual impact
No Visual impact
n/a
No Visual impact
N/A
N/A
N/A
N/A

na
No Visual impact, heavy flow due to recent rain
n/a
n/a
N/A
n/a
n/a
n/a
n/a
No Visual damage
N/A

N/A
N/A
N/A
N/A
N/A
N/A

N/A
N/A
N/A
No visible impact
N/A
N/A
N/A
N/A
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Yes
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Yes
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NA

n/a
Fairfax creek along Olema Rd.
n/a

n/a
San Anselmo creek

Corte Madera Creek
Corte Madera Creek
Corte Madera Creek
San Anselmo Creek
San Anselmo Creek
Corte Madera Creek

Corte Madera Creek
N/A
N/A
N/A
N/A
Fairfax Creek
Fairfax creek
na

Sleepy hollow Creek

n/a

Corte Madera Creek

N/A

Small creek that flows to Corte Madera creek.

No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
Not applicable to this spill
No water quality samples taken
No water quality samples taken
No water quality samples taken

No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken;Not applicable to this spill
No water quality samples taken;Not applicable to this spill
No water quality samples taken

Other (specify below)

No water quality samples taken

Other (specify below)

Biological indicator(s) - specify below

Samples have bee sent to lab, no results at this time Update: see attached report

Ammonia

Total coliforms, E.Coli, Enterococcus

None of the above
No water quality samples taken
No water quality samples taken

None of the above
None of the above
None of the above

None of the above
None of the above

None of the above
Not applicable to this spill
None of the above
None of the above
None of the above
None of the above

None of the above
None of the above
None of the above
No water quality samples taken
None of the above
Not applicable to this spill
No water quality samples taken
None of the above

Regional Water Quality Control Board

None of the above

County Health Agency;Regional Water Quality Control Board

County Health Agency

Samples have bee sent to lab, no results at this time Update: see attached report

Not yet available

80304	1/8/2008 8:40
8862	1/28/2008 0:00
80863	1/28/2008 15:08
80856	1/28/2008 15:00
80857	1/28/2008 15:00
80858	1/28/2008 15:03
80860	1/28/2008 15:00
80861	1/28/2008 15:00
80827	1/28/2008 15:00
	2/23/2008 16:35
81579	2/25/2008 12:42
802236	3/26/2008 9:20
82871	4/17/2008 23:35
83258	5/5/2008 9:38
89072	12/21/2008 11:22

2SSO10172	Active	732573	Eric Smith	Certified
2SSO10172	Active	732731	Eric Smith	Certified
2SSO10172	Active	733249	E Smith	Certified
2SSO10172	Active	733825	Eric Smith	Certified
2SSO10172	Active	733826	Eric Smith	Certified
2SSO10172	Active	733914	Eric Smith	Certified
2SSO10172	Active	733992	E Smith	Certified
2SSO10172	Active	734632	Eric Smith	Certified
2SSO10172	Active	735333	Eric Smith	Certified
2SSO10172	Active	735425	E Smith	Certified
2SSO10172	Active	735874	Eric Smith	Certified
2SSO10172	Active	735956	Eric Smith	Certified
2SSO10172	Active	736004	Eric Smith	Certified
2SSO10172	Active	736476	Eric Smith	Certified
2SSO10172	Active	736995	E Smith	Certified
2SSO10172	Active	737287	E Smith	Certified
2SSO10172	Active	737972	Eric Smith	Certified
2SSO10172	Active	738603	Eric Smith	Certified
2SSO10172	Active	740883	Eric Smith	Certified
2SSO10172	Active	741483	Eric Smith	Certified
2SSO10172	Active	742033	Eric Smith	Certified
2SSO10172	Active	742658	Eric Smith	Certified
2SSO10172	Active	743010	Eric Smith	Certified
2SSO10172	Active	744038	Eric Smith	Certified
2SSO10172	Active	744940	E Smith	Certified
2SSO10172	Active	745162	Eric Smith	Certified
2SSO10172	Active	746628	E Smith	Certified
2SSO10172	Active	746646	Eric Smith	Certified
2SSO10172	Active	746701	Eric Smith	Certified
2SSO10172	Active	746853	E Smith	Certified
2SSO10172	Active	747253	Eric Smith	Certified
2SSO10172	Active	747332	E Smith	Certified
2SSO10172	Active	747697	E Smith	Certified
2SSO10172	Active	747818	E Smith	Certified
2SSO10172	Active	748057	E Smith	Certified
2SSO10172	Active	748133	Eric Smith	Certified
2SSO10172	Active	748134	Eric Smith	Certified
2SSO10172	Active	748459	E Smith	Certified
2SSO10172	Active	748460	E Smith	Certified
2SSO10172	Active	748650	Eric Smith	Certified
2SSO10172	Active	749210	E Smith	Certified
2SSO10172	Active	749361	E Smith	Certified
2SSO10172	Active	749887	Noel Sandoval	Certified
2SSO10172	Active	750703	Dennis V Gavallos	Certified
2SSO10172	Active	750763	Randell Ishii	Certified
2SSO10172	Active	752255	Dennis Gavallos	Certified
2SSO10172	Active	752281	Dennis Gavallos	Certified
2SSO10172	Active	752284	Dennis Gavallos	Certified
2SSO10172	Active	752332	Dennis Gavallos	Certified
2SSO10172	Active	752600	dennis Gavallos	Certified
2SSO10172	Active	752811	Dennis Gavallos	Certified
2SSO10172	Active	753477	E Smith	Certified
2SSO10172	Active	754987	Jeff Yee	Certified
2SSO10172	Active	755636	Jeff Yee	Certified
2SSO10172	Active	755783	John Clark	Certified

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Senior Supervisor
Interim Maintenance Superintendent
District Engineer
Interim District Superintendent
Interim Maintenance Superintendent
Dennis Gavallos
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Supt
Supervisor
Senior Supervisor
Chief of Operations

San Rafael		142582
San Rafael		702830
San Rafael		327874
San Rafael		158144
San Rafael		729200
San Rafael		228141
San Rafael		976083
San Rafael		620893
San Rafael		225535
San Rafael		524641
San Rafael		915015
San Rafael		590298
San Rafael		203377
San Rafael		672158
San Rafael		600110
San Rafael		483376
San Rafael		457487
San Rafael		820326
San Rafael		810602
San Rafael		148987
San Rafael		692251
San Rafael		185913
San Rafael		865931
San Rafael		825831
San Rafael		726251
San Rafael		111216
San Rafael		929537
San Rafael		863746
San Rafael		352273
San Rafael		229133
San Rafael		424550
San Rafael		863320
San Rafael		371892
San Rafael		595629
San Rafael		985620
San Rafael		183939
San Rafael		121659
San Rafael		259497
San Rafael		373416
San Rafael		928045
San Rafael		357550
San Rafael		709610
San Rafael		492397
San District No. 1		273033
	9:10 AM	527143
	14:57	470984
	15:05	447557
	14:35	649890
	15:20	632343
	11:32	392618
	13:45	998611
San Rafael		118473
San Rafael		709297
San Rafael		681716
	17:20	423473

26-Jan-09		3-Feb-09	2/3/2009
28-Jan-09		3-Feb-09	2/3/2009
9-Feb-09		14-Jun-10	6/14/2010
18-Feb-09		18-Feb-09	2/18/2009
18-Feb-09		18-Feb-09	2/18/2009
20-Feb-09		20-Feb-09	2/20/2009
23-Feb-09		23-Feb-09	6/14/2010
6-Mar-09		10-Apr-09	4/10/2009
23-Mar-09		23-Mar-09	3/23/2009
24-Mar-09		14-Jun-10	6/14/2010
2-Apr-09		2-Apr-09	4/7/2009
6-Apr-09		7-Apr-09	4/7/2009
6-Apr-09		6-Apr-09	4/6/2009
20-Apr-09		20-Apr-09	4/20/2009
30-Apr-09		14-Jun-10	6/14/2010
11-May-09		14-Jun-10	6/14/2010
26-May-09		5-Jun-09	6/5/2009
8-Jun-09		8-Jun-09	6/8/2009
9-Jul-09		9-Jul-09	7/9/2009
20-Jul-09		20-Jul-09	7/20/2009
29-Jul-09		29-Jul-09	7/29/2009
7-Aug-09		14-Jun-10	12/16/2010
13-Aug-09		25-Aug-09	8/25/2009
31-Aug-09		31-Aug-09	8/31/2009
22-Sep-09		28-Sep-09	9/28/2009
29-Sep-09		29-Sep-09	9/29/2009
6-Nov-09		14-Jun-10	6/14/2010
9-Nov-09		12-Nov-09	11/12/2009
10-Nov-09		12-Nov-09	11/12/2009
18-Nov-09		18-Nov-09	6/14/2010
2-Dec-09		2-Dec-09	12/2/2009
7-Dec-09		14-Jun-10	6/14/2010
21-Dec-09		14-Jun-10	6/14/2010
23-Dec-09		5-Jan-10	6/14/2010
31-Dec-09		5-Jan-10	6/14/2010
4-Jan-10		5-Jan-10	1/5/2010
4-Jan-10		5-Jan-10	1/5/2010
20-Jan-10		14-Jun-10	6/14/2010
20-Jan-10		14-Jun-10	6/14/2010
21-Jan-10		21-Jan-10	1/21/2010
9-Feb-10		14-Jun-10	6/14/2010
12-Feb-10		12-Feb-10	6/17/2010
26-Feb-10		1-Mar-10	3/1/2010
17-Mar-10		7-Apr-10	4/7/2010
18-Mar-10		25-Mar-10	3/25/2010
10-May-10	5/10/2010	24-May-10	5/24/2010
11-May-10	5/11/2010	24-May-10	5/24/2010
11-May-10	5/11/2010	11-May-10	5/11/2010
12-May-10	5/12/2010	24-May-10	5/24/2010
20-May-10	5/20/2010	27-May-10	5/27/2010
1-Jun-10	6/1/2010	7-Jun-10	6/7/2010
17-Jun-10	6/17/2010	17-Jun-10	6/17/2010
15-Jul-10	7/15/2010	15-Jul-10	7/15/2010
30-Jul-10	7/30/2010	30-Jul-10	7/30/2010
5-Aug-10	8/5/2010	19-Oct-10	10/19/2010

Category 2	1822	100
Category 3	80	0
Category 3	450	0
Category 3	120	0
Category 3	20	0
Category 3	27	0
Category 3	100	0
Category 3	24	0
Category 3	50	25
Category 1	400	100
Category 3	15	0
Category 1	4937	225
Category 3	150	100
Category 3	40	0
Category 3	300	0
Category 3	600	0
Category 3	50	0
Category 3	250	250
Category 3	50	50
Category 3	50	0
Category 3	936	0
Category 1	470	0
Category 3	177	0
Category 3	23	0
Category 3	600	0
Category 3	50	50
Category 3	300	0
Category 3	90	0
Category 3	25	0
Category 3	50	0
Category 3	30	30
Category 3	600	600
Category 3	180	50
Category 3	200	50
Category 3	20	0
Category 3	200	0
Category 3	300	0
Category 1	900	50
Category 1	900	50
Category 1	1	0
Category 3	25	0
Category 3	150	0
Category 3	50	0
Category 1	200	50
Category 3	25	3
Category 3	25	0
Category 3	25	0
Category 2	1150	0
Category 3	75	0
Category 1	200	0
Category 3	100	10
Category 3	50	50
Category 3	20	20
Category 3	50	50
Category 3	75	75

0	No	No
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0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
300	Yes	Yes
0	No	No
4712	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	Yes
0	No	Yes
0	No	No
0	No	No
5	Yes	Yes
0	No	No
0	No	No
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0	No	Yes
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0	No	No
0	No	Yes
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0	No	No
0	No	No
500	Yes	Yes
850	Yes	Yes
1	Yes	Yes
0	No	No
0	No	No
0	No	No
150	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
200	Yes	Yes
0	No	No
0	No	Yes
0	No	No
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0	No	Yes

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Yes

260 Crescent
832 Fawn
644 Bolinas
635 Goodhill
10 Canyon Ross
5 Palm Ct.
8 Ivy Ln
135 Crown
931 Bolinas Rd
100 Red Hill
52 Woodside Dr.
20 Skyland
673 Magnolia
83 Hatzic Ct
7 Woodhaven
5 Palm
51 Woodland
SF Drake & SA Ave
2100 SF Drake
56 Jordan
119 Crown Rd
167 Scenic
29 Ridgecrest
91 Forrest
88 Wellington
351 Olema Rd
78 Chester
564 Scenic
49 summit
31 corte Placida
14 Geary Ave
66 Maple
39 Wreden Ave.
21 Raven Rd.
506 Sequoia Dr.
19 Bretano Way
309 Via La Paz
410 William
2 Los Cerros
991 Butterfield
80 Baywood Ave.
5 Circle Dr. Ross
33 Woodhaven Rd.
440 Woodland Rd.
110 Winding Way
8 Ivy Ln.
3 Rocca Dr.
370 Via La Cumbre
14 garden Way
62 Valley Rd.
14 Elm Ct.
94 Forrest
639 Magnolia Ave. Larkspur
475 South Eliseo Drive
1100 South Eliseo Drive.

37.9726	122.5666	Marin
37.9982	122.5643	Marin
37.9742	-122.5995	Marin
37.9623	122.5389	Marin
37.9676	122.5498	Marin
37.932	122.5303	Marin
37.9777	-122.58	Marin
37.9478	-122.5701	Marin
37.9744	-122.6155	Marin
37.9767	-122.5528	Marin
37.9962	-122.5782	Marin
37.944	-122.5461	Marin
37.9401	-122.5372	Marin
37.9804	-122.5895	Marin
37.9665	-122.5728	Marin
37.923	-122.5301	Marin
37.9502	-122.5223	Marin
37.9866	-122.5769	Marin
37.9887	-122.591	Marin
37.97911	-122.55571	Marin
37.94718	-122.57055	Marin
37.99015	-122.59903	Marin
37.94239	-122.55887	Marin
37.98256	-122.58119	Marin
37.96968	-122.55666	Marin
37.99925	-122.60333	Marin
37.99147	-122.58549	Marin
37.97755	-122.581245	Marin
37.979675	-122.579814	Marin
37.951754	-122.511923	Marin
37.98912	-122.58809	Marin
37.99053	-122.58463	Marin
37.9305	-122.55214	Marin
38.00751	-122.58068	Marin
37.98233	-122.55689	Marin
37.94839	-122.52706	Marin
37.95223	-122.52051	Marin
37.93419	-122.5287	Marin
37.949134	-122.525427	Marin
38.06613	-122.57742	Marin
37.96938	-122.55411	Marin
37.96546	-122.56373	Marin
37.946598	-122.550356	Marin
37.95122	-122.56376	Marin
37.96447	-122.547507	Marin
37.97775	-122.58	Marin
37.98767	-122.58687	Marin
37.9515	-122.51114	Marin
37.93484	-122.52914	Marin
37.98495	-122.59724	Marin
37.97803	-122.57526	Marin
37.9828	-122.581189	Marin
37.93923	-122.53603	Marin
37.94436305	-122.526178	Marin
37.94430137	-122.5344987	Marin

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Hillside below 635 Goodhill

Found by District cleaning crew in easement behind 135 Crown Rd.
Man hole in street

From a rodhole on open hillside
Man hole at San Anselmo Ave & SF Drake

In back of 119 Crown Rd. Not reported for 52 hours

In easement behind 29 Ridgecrest

Large open hillside
Apartment building driveway Captured in a private drain

In an easement in back of 31 Corte Placida. Was not overflowing on arrival. Cleaned main and area. will CCTV for repa
Manhole in street
Sewage overflowed into basement. Sump pump pumped it to the street, all was recovered from the storm drain system.
Street and hillside
MH on side of road and roadway cracks
Street
Cristy box/ check valve between district main and studio in rear of home. Studio was affected too.
RH behind home down hillside
Clean out in front yard
Manhole in intersection
Rodhole in street
Baby MH on road in front of a garage.
Spill coming out of hillside behind homes on Circle Dr.
Street. MH4575 spilled out of pickhole. Sewage left a trail on street for about 70'. Small puddle was picked up along with t
MH2456 overflowed due to roots and wipes on road. Restored flow using power rodder. Flushed/vacced line and street.
MH on side of road.

ejector pump clean out at edge of street
The spill was in the gutter pan
4 inch cleanout in the parking lot behind the building.
1100 South Eliseo Drive the rod hole in the back parking lot.

airs as ness.

the contaminated soil and leaves.

Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
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Manhole
Other sewer system structure
Gravity sewer
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Building or structure
Other (specify)
Manhole;Other (specify)
Manhole
Building or structure;Other (specify)
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Manhole
Other (specify)
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other (specify)
Gravity sewer
Manhole
Other (specify)
Gravity sewer
Other (specify)
Gravity sewer

Clean out

Rod hole

Rod hole, end of main

Street
cracks on road.

Christy box that housed a check valve and bathroom floor through 4 toilet flange (no toilet). Note: Contra Costa valve ha
Rodhole

Found hole on hillside possibly from lateral or main. Will CCTV.

Rodhole

ejector pump clean out at edge of street
The sewage was leaking from the sidewalk and no sewage was coming out when we arrived.
4 inch cleanout in the parking lot behind the building overflowed due to both pumps running at once. Turned them off and
The spill came out of the rod hole.

Unpaved surface
Other paved surface
Unpaved surface
Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Other (specify below)
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Street/curb and gutter
Building or structure;Storm drain;Street/curb and gutter
Street/curb and gutter;Other (specify below)
Street/curb and gutter
Street/curb and gutter
Building or structure;Other (specify below)
Other (specify below)
Storm drain;Street/curb and gutter;Surface water;Unpaved surface
Other paved surface;Storm drain;Surface water
Storm drain;Street/curb and gutter;Surface water
Street/curb and gutter;Other (specify below)
Other (specify below)
Street/curb and gutter;Unpaved surface
Storm drain;Other (specify below)
Other (specify below)
Unpaved surface
Unpaved surface
Unpaved surface
Unpaved surface
Surface water
Unpaved surface
Storm drain;Street/curb and gutter
Street/curb and gutter
Other (specify below)
Storm drain

Land
Dried on street

All was recovered

Open hillside

Hillside

Rear yard
Hillside

Small amount made it to land next to garage.
Hillside

Tamalpais creek
Small amount of soil around MH

Sewage was contained in the parking lot due to the curb.
The sewage was captured in the storm drain.

1/25/2009 12:00	1/26/2009 9:35	1/26/2009 10:00	1/26/2009 9:35
1/27/2009 21:45	1/27/2009 9:45	1/27/2009 22:45	1/27/2009 23:00
2/6/2009 10:00	2/6/2009 10:00	2/6/2009 10:10	2/6/2009 10:35
2/16/2009 15:25	2/16/2009 15:25	2/16/2009 16:18	2/16/2009 16:25
2/14/2009 14:22	2/14/2009 14:22	2/14/2009 15:05	2/14/2009 15:10
2/19/2009 12:30	2/19/2009 12:30	2/19/2009 12:50	2/19/2009 13:30
2/21/2009 10:55	2/21/2009 10:55	2/21/2009 0:00	2/21/2009 12:15
3/5/2009 13:30	3/5/2009 13:30	3/5/2009 13:50	3/5/2009 15:00
3/22/2009 8:40	3/22/2009 8:40	3/22/2009 10:00	3/22/2009 10:05
3/24/2009 11:40	3/24/2009 11:40	3/24/2009 12:50	3/24/2009 12:00
4/1/2009 14:55	4/1/2009 14:55	4/1/2009 15:15	4/1/2009 16:00
4/4/2009 10:30	4/4/2009 12:30	4/4/2009 13:40	4/4/2009 15:30
4/3/2009 12:50	4/3/2009 12:50	4/3/2009 13:00	4/3/2009 13:15
4/19/2009 15:15	4/19/2009 15:15	4/19/2009 16:00	4/19/2009 5:00
4/27/2009 14:00	4/27/2009 14:00	4/27/2009 14:15	4/27/2009 15:15
5/9/2009 1:00	5/10/2009 20:35	5/10/2009 21:25	5/10/2009 22:25
5/21/2009 9:00	5/21/2009 9:00	5/21/2009 9:15	5/21/2009 0:00
6/7/2009 12:50	6/7/2009 12:50	6/7/2009 13:40	6/7/2009 14:45
7/6/2009 9:50	7/6/2009 9:50	7/6/2009 10:00	7/6/2009 10:00
7/19/2009 17:20	7/19/2009 17:20	7/19/2009 18:30	7/19/2009 18:45
7/25/2009 8:30	7/27/2009 11:30	7/27/2009 11:30	7/27/2009 12:00
8/6/2009 22:00	8/7/2009 10:00	8/7/2009 10:15	8/7/2009 10:30
8/13/2009 11:20	8/13/2009 11:20	8/13/2009 11:35	8/13/2009 12:25
8/28/2009 11:45	8/28/2009 11:45	8/28/2009 12:15	8/28/2009 13:00
9/21/2009 16:20	9/21/2009 16:20	9/21/2009 17:20	9/21/2009 17:45
9/28/2009 19:25	9/28/2009 19:25	9/28/2009 20:30	9/28/2009 21:30
11/4/2009 9:45	11/4/2009 14:00	11/5/2009 10:00	11/5/2009 10:30
11/8/2009 11:20	11/8/2009 11:20	11/8/2009 12:20	11/8/2009 12:35
11/8/2009 12:00	11/9/2009 9:15	11/9/2009 9:35	11/9/2009 9:50
11/16/2009 7:55	11/16/2009 7:55	11/16/2009 8:15	11/16/2009 8:55
11/29/2009 21:55	11/29/2009 21:55	11/29/2009 22:45	11/29/2009 23:15
12/5/2009 20:45	12/5/2009 20:45	12/5/2009 21:45	12/5/2009 22:00
12/19/2009 14:20	12/19/2009 14:20	12/19/2009 15:00	12/19/2009 15:20
12/22/2009 8:00	12/22/2009 13:50	12/22/2009 14:00	12/22/2009 14:20
12/31/2009 9:00	12/31/2009 9:30	12/31/2009 9:50	12/31/2009 10:00
1/2/2010 16:50	1/2/2010 16:50	1/2/2010 17:20	1/2/2010 20:30
1/4/2010 13:25	1/4/2010 13:25	1/4/2010 13:45	1/4/2010 14:30
1/19/2010 9:45	1/19/2010 12:15	1/19/2010 12:45	1/19/2010 12:45
1/18/2010 15:30	1/18/2010 15:30	1/18/2010 16:15	1/18/2010 16:20
1/20/2010 12:00	1/21/2010 9:00	1/21/2010 9:45	1/20/2010 9:01
2/8/2010 11:15	2/8/2010 11:15	2/8/2010 11:30	2/8/2010 12:00
2/9/2010 15:30	2/9/2010 16:45	2/9/2010 17:45	2/10/2010 9:30
2/26/2010 9:05	2/26/2010 9:05	2/26/2010 9:25	2/26/2010 9:30
3/16/2010 11:00	3/16/2010 11:00	3/16/2010 11:20	3/16/2010 11:40
3/16/2010 9:00	3/16/2010 9:00	3/16/2010 9:00	3/16/2010 9:00
5/8/2010 10:00	5/8/2010 10:00	5/8/2010 11:15	5/8/2010 12:15
5/10/2010 9:05	5/10/2010 9:05	5/10/2010 9:45	5/10/2010 9:55
4/21/2010 1:00	4/22/2010 13:20	4/22/2010 13:20	4/22/2010 13:40
5/11/2010 13:55	5/11/2010 13:55	5/11/2010 14:00	5/11/2010 14:45
5/20/2010 12:45	5/20/2010 12:45	5/20/2010 12:45	5/20/2010 14:00
5/29/2010 14:20	5/29/2010 14:20	5/29/2010 14:45	5/29/2010 15:10
6/16/2010 7:10	6/16/2010 7:25	6/16/2010 8:00	6/16/2010 8:15
7/14/2010 2:00	7/14/2010 2:50	7/14/2010 3:00	7/14/2010 3:10
7/29/2010 2:45	7/29/2010 2:45	7/29/2010 2:45	7/29/2010 2:46
8/4/2010 9:55	8/4/2010 10:55	8/4/2010 11:15	8/4/2010 11:30

Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Debri-Rags
Root intrusion
Grease deposition (FOG)
Other (specify below)
Debri-Rags
Debri-Rags
Root intrusion
Debri-Rags
Root intrusion
Pipe structural problem/failure
Root intrusion
Other (specify below)
Other (specify below)
Debri-Rags
Debri-Rags
Root intrusion
Debri-Rags
Pipe structural problem/failure
Grease deposition (FOG)
Root intrusion
Debri-Rags
Debri-Rags
Root intrusion
Root intrusion
Root intrusion
Root intrusion
Vandalism
Other (specify below)
Root intrusion
Other (specify below)
Flow exceeded capacity
Debri-Rags
Other (specify below)
Debri-Rags
Other (specify below)
Root intrusion
Root intrusion
Other (specify below)
Debri-General
Root intrusion
Other (specify below)
Root intrusion
Other (specify below)
Other (specify below)
Debri-General
Root intrusion
Other (specify below)
Grease deposition (FOG)

Roots and towels
Towels/Rags

Rags and rock

Operator found roots he felt were from a lateral
Grease, rags

Failed pipe

While cleaning the main grease blocked the line causing it to overflow for a short time
Unable to determine

Manhole was not overflowing on arrival. Sewage was contained to low spot in gutter pan. Removed with Vac truck. CCT

Rock / debris
Roots from lateral- Resident told us that days prior a plumber had worked on getting a lateral cleared upstream. We brok
Cannot write in box 46
Some root intrusion but LOTS of wipes

Cleaned mains in area, no blockage.

Found hole on hillside where sewage came out. Also found a 4 in-line CO that had the cap off and full of dirt and rock. Bl
Also pulled many wipes
Root intrusion and wipes
4 test plug and small amount of roots.

Mouth of Manhole blocked by debris from private lateral blockage and Wipes

Root Intrusion and collapsed pipe
Rocks, wipes and rags

Cleared the blockage with hand rods and a 4 inch square bar removed roots. Couldn't get a 6 inch square bar through hit
Ran 2 pumps at once and it came out of the 4 inch cleanout. Turned off both pumps and it stopped immediately.
The spill cause was grease,wipes and tampons.

Main
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Main

Main

Main
Main
Other (specify below)
Main

Private lateral

Still cannot write in box 46.

Wipes bunched up at base of baby MH and caused a partial blockage.
On 2-16-10 line was tv'd and found drainage above our main had undermined our pipe and it fell. Pipe was repaired.

Somebody lost their test plug down their lateral and into our main.

Root Intrusion and slide caused collapse in main

The failure occurred because of running 2 pumps at the same time.
The blockage was 60 feet from the rod hole.

6 vcp
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vcp
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4 CIP
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4 CIP
8 CIP
6 VCP
6 vcp
6 VCP
6 vcp

6 vcp
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4 C.I.
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4 C. I.
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6 VCP
6 VCP
5 VCP
4 C.I.
6 VCP
6 V.C.P.
6 VCP

6 VCP
6 VCP
4 Cast iron
VCP

85
60
70
60
80
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90
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50

Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Contained all or portion of spill;Inspected sewer using CCTV to determine cause
Other (specify below)
Other (specify below)

Repaired main
Posted area

Cleaned storm drain, recovered 100 gallons
Posted area

Will TV to locate cause

Cleared main, broke blockage. Cleaned hillside area. Posted warning signs. Main is being CCTV'ed 9-22-09
Broke blockage, cleaned area. cleaned drain line and recovered all of the sewage

Manhole was not overflowing on arrival, area was damp. Cleaned main cleaned area.
Not a full on blockage, restricted main

Broke blockage with a rodder. Used Vac-Con to hose down street and vac up

Hauled off contaminated gravel. Cleaned small out building
RH looked to be overflowing during peek flows. Broke root/wipe blockage at base of RH. Hand rodded all easment. Clear

Baby MH was not overflowing when we arrived. Broke a partial wipes blockage at base of MH. Hosed down area into MH
Will CCTV week of 2-15-10. Note: Operator arrived on 2-9-10 and could not break blockage due to a car parked over MH
Rodded from MH4575 to MH4498. Removed roots and wipes. MH leaked out of pickhole and street was wet for about 70'
Broke blockage with power rodder. Hosed down and vacced up road. Took samples and posted signs.
Restored flow with a power rodder and removed a 4 test plug that caused partial blockage. Hosed grey matter into MH an

Spill was reported late due to a misscommunication from field staff to management staff. This is the first report submitted

Repaired collapsed main

Private ejector pump overflowed at cleanout due to congestion in District main. Crew was able to recover all of the overf

Vacuumed up all the sewage that came out with the Vac Con. Recovered all 50 gallons.
We used the Vac Con to suck up all the sewage that was captured in the storm drain.

1/26/2009 14:00

3/24/2009 13:20

4/5/2009 13:30

8/7/2009 0:00

1/19/2010 17:30
1/19/2010 12:00
1/21/2010 14:00

3/16/2010 14:20

4/22/2010 14:00

5/20/2010 15:30

Adjusted schedule/method of preventive maintenance;Other (specify below)

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance

Other (specify below)

Other (specify below)
Adjusted schedule/method of preventive maintenance
Plan rehabilitation or replacement of sewer

Other (specify below)

Added sewer to preventive maintenance program

Repaired sewer

Will apply root control foam program. Re-check in three months

Will TV for problem/repair

Future C I P
Cleared main, were only able to collect 50 gallons. Posted area
R P reported that on 1-20-10 at noon she noticed an overflow from a rod hole. The District was notified until 1-21-10 at 0

made work order to CCTV line for possible repairs.

Yes

Yes

Yes

Yes

No
No
No

Yes

No

No

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
No visible impact
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
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N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

N/A

Heavy rain, no visual impact
No visible impact, heavy rain
No visual impact. Heavy rain.

N/A
N/A

Yes

Yes

No

Yes

Yes
Yes
No

Yes

Yes

Yes

N/A

N/A

N/A

N/A

N/A
N/A
N/A

N/A

N/A

NA

N/A

San Anselmo creek

N/A

5 gallons flowed into dry creek bed, unable to collect samples

N/A
Corte Madera Creek
Sleepy Hollow Creek

Tamalpais creek

N/A

NA

Not applicable to this spill

Biological indicator(s) - specify below

No water quality samples taken

No water quality samples taken

Other chemical indicator(s) - specify below
Other chemical indicator(s) - specify below
No water quality samples taken

Biological indicator(s) - specify below

No water quality samples taken

Biological indicator(s) - specify below

Enterococcus

N/A

Samples were taken, informed by Rob Turner at M.C.E.H. that that samples were not required due to the heavy rain sam
Samples were taken, informed by Rob Turner at M.C.E.H. they would not be tested due to rains, samples were discarded

Total coliforms, E.coli, and Enterococcus-seacalis

Coliform/E. coli Enterococcus

None of the above

County Health Agency

None of the above

None of the above

County Health Agency
County Health Agency
None of the above

County Health Agency

No water quality samples taken

County Health Agency

5 gallons flowed into dry creek bed, unable to collect samples

Samples were taken, informed by Rob Turner at M.C.E.H. that that samples were not required due to the heavy rain sam
Samples were taken, informed by Rob Turner at M.C.E.H. they would not be tested due to rains, samples were discarded

ɔles were discarded.

90772	1/26/2009 11:30
92487	3/24/2009 13:40
92749	4/4/2009 17:33
95515	8/7/2009 11:15
100434	1/19/2010 18:15
100374	1/18/2010 17:19
10530	1/21/2010 13:05
101826	3/16/2010 13:20
102530	4/22/2010 13:54
103145	5/20/2010 15:10

2SSO10172	Active	755909	Jeffrey R. Yee	Certified
2SSO10172	Active	756133	Dennis V Gavallos	Certified
2SSO10172	Active	756513	Jeffrey R. Yee	Certified
2SSO10172	Active	757152	Eric Smith	Certified
2SSO10172	Active	757314	Eric Smith	Certified
2SSO10172	Active	757448	Dennis Gavallos	Certified
2SSO10172	Active	757452	Eric Smith	Certified
2SSO10172	Active	757461	Eric Smith	Certified
2SSO10172	Active	757669	Eric Smith	Certified
2SSO10172	Active	758075	Jeffrey R. Yee	Certified
2SSO10172	Active	758212	Eric Smith	Certified
2SSO10172	Active	758513	Jeffrey R. Yee	Certified
2SSO10172	Active	758935	Eric Smith	Certified
2SSO10172	Active	759126	Eric Smith	Certified
2SSO10172	Active	759155	Eric Smith	Certified
2SSO10172	Active	759156	Eric Smith	Certified
2SSO10172	Active	759420	Eric Smith	Certified
2SSO10172	Active	759634	John Clark	Certified
2SSO10172	Active	759835	John Clark	Certified
2SSO10172	Active	759894	Jeffrey R. Yee	Certified
2SSO10172	Active	760006	Jeffrey R. Yee	Certified
2SSO10172	Active	760012	Jeffrey R. Yee	Certified
2SSO10172	Active	760936	Jeffrey R. Yee	Certified
2SSO10172	Active	761360	Jeffrey R. Yee	Certified
2SSO10172	Active	761622	Jeffrey R.Yee	Certified
2SSO10172	Active	761989	Jeffrey R.Yee	Certified
2SSO10172	Active	761997	Jeffrey R. Yee	Certified
2SSO10172	Active	762544	Jeffrey R. Yee	Certified
2SSO10172	Active	762781	Jeffrey R. Yee	Certified
2SSO10172	Active	763774	Jeffrey R. Yee	Certified
2SSO10172	Active	763775	Jeffrey R. Yee	Certified
2SSO10172	Active	763871	Jeffrey R. Yee	Certified
2SSO10172	Active	764011	Jeffrey R. Yee	Certified
2SSO10172	Active	764085	Jeffrey R. Yee	Certified
2SSO10172	Active	764435	Jeffrey R. Yee	Certified
2SSO10172	Active	764654	Jeffrey R. Yee	Certified
2SSO10172	Active	764717	Jeffrey R. Yee	Certified
2SSO10172	Active	764791	Jeffrey R. Yee	Certified
2SSO10172	Active	764805	Jeffrey Yee	Certified
2SSO10172	Active	764875	Jeffrey R. Yee	Certified
2SSO10172	Active	765382	Dennis Gavallos	Certified
2SSO10172	Active	765667	Jeffrey R. Yee	Certified
2SSO10172	Active	765695	Jeffrey R. Yee	Certified
2SSO10172	Active	766649	Stephen Miksis	Certified
2SSO10172	Active	766947	Stephen Miksis	Certified
2SSO10172	Active	767448	Stephen Miksis	Certified
2SSO10172	Active	767548	Stephen Miksis	Certified
2SSO10172	Active	767874	Stephen Miksis	Certified
2SSO10172	Active	769653	Stephen Miksis	Certified
2SSO10172	Active	769754	Stephen Miksis	Certified
2SSO10172	Active	772169	Stephen Miksis	Certified
2SSO10172	Active	772277	Stephen Miksis	Certified
2SSO10172	Active	772396	Stephen Miksis	Certified
2SSO10172	Active	772816	Stephen Miksis	Certified
2SSO10172	Active	774399	john Clark	Certified

Senior Maintenance Supervisor
Assistant Engineer
Senior Supervisor
Supt
Supt.
Assistant Engineer
Supt
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Maintenance Superintendent
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Maintenance Superintendent
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Chief of Operations
Chief of Operations
Maintenance Superintendent
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Assistant Engineer
Maintenance Superintendent
Maintenance Superintendent
Superintendant
Interim Superintendant
Interim Maintenance Superintendent
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Interim Maintenance Superintendant
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Interim Maintenance Superintendent
Chief of Operations

San Rafael		340911
San Rafael 08:40		383943
San Rafael		658313
San Rafael		351159
San Rafael		266033
RVSD		826304
San Rafael		891167
San Rafael		444165
San Rafael		671341
San Rafael		749292
San Rafael		321496
San Rafael		600544
San Rafael		835880
San Rafael		705349
San Rafael		348649
San Rafael		763830
San Rafael		710935
	12:45	858212
	14:30	645272
San Rafael		646567
San Rafael		274965
San Rafael		194529
San Rafael		562507
San Rafael		174771
San Rafael		255162
San Rafael		788631
San Rafael		740938
San Rafael		340706
San Rafael		480676
San Rafael		905183
San Rafael		516140
San Rafael		677356
San Rafael		594837
San Rafael		705552
San Rafael		993271
San Rafael		257449
San Rafael		437906
San Rafael		926034
San Rafael		389453
San Rafael		678349
RVSD		661923
San Rafael		685846
San Rafael		881591
San Rafael		314286
San Rafael		674237
San Rafael		408813
San Rafael		296177
San Rafael		219930
San Rafael		620674
San Rafael		361664
San Rafael		577869
San Rafael		300674
San Rafael		175840
San Rafael		934463
	9:30	820049

9-Aug-10	8/9/2010	9-Aug-10	8/9/2010
18-Aug-10	8/18/2010	18-Aug-10	8/18/2010
1-Sep-10	9/1/2010	1-Sep-10	9/1/2010
24-Sep-10	9/24/2010	24-Sep-10	9/24/2010
4-Oct-10	10/4/2010	4-Oct-10	10/4/2010
7-Oct-10	10/7/2010	7-Oct-10	3/29/2011
7-Oct-10	10/7/2010	7-Oct-10	10/7/2010
8-Oct-10	10/8/2010	8-Oct-10	10/8/2010
13-Oct-10	10/13/2010	14-Oct-10	10/14/2010
22-Oct-10	10/22/2010	22-Oct-10	10/22/2010
28-Oct-10	10/28/2010	28-Oct-10	10/28/2010
12-Nov-10	11/12/2010	12-Nov-10	11/12/2010
29-Nov-10	11/29/2010	29-Nov-10	11/29/2010
6-Dec-10	12/6/2010	8-Dec-10	12/8/2010
7-Dec-10	12/7/2010	7-Dec-10	12/7/2010
7-Dec-10	12/7/2010	7-Dec-10	12/7/2010
15-Dec-10	12/15/2010	15-Dec-10	12/15/2010
20-Dec-10	12/20/2010	23-Dec-10	12/20/2011
23-Dec-10	12/23/2010	23-Dec-10	12/20/2011
27-Dec-10	12/27/2010	27-Dec-10	12/27/2010
30-Dec-10	12/30/2010	30-Dec-10	12/30/2010
30-Dec-10	12/30/2010	30-Dec-10	12/30/2010
12-Jan-11	1/12/2011	12-Jan-11	1/12/2011
18-Jan-11	1/18/2011	18-Jan-11	1/18/2011
21-Jan-11	1/21/2011	21-Jan-11	1/21/2011
26-Jan-11	1/26/2011	26-Jan-11	1/26/2011
26-Jan-11	1/26/2011	26-Jan-11	1/26/2011
7-Feb-11	2/7/2011	7-Feb-11	2/7/2011
9-Feb-11	2/9/2011	9-Feb-11	2/9/2011
25-Feb-11	2/25/2011	25-Feb-11	2/25/2011
25-Feb-11	2/25/2011	25-Feb-11	2/25/2011
28-Feb-11	2/28/2011	28-Feb-11	2/28/2011
4-Mar-11	3/4/2011	4-Mar-11	3/4/2011
7-Mar-11	3/7/2011	7-Mar-11	3/7/2011
16-Mar-11	3/17/2011	17-Mar-11	3/17/2011
22-Mar-11	3/23/2011	23-Mar-11	3/23/2011
23-Mar-11	3/23/2011	23-Mar-11	3/23/2011
24-Mar-11	3/24/2011	24-Mar-11	3/24/2011
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
29-Mar-11	3/29/2011	5-Apr-11	4/5/2011
12-Apr-11	4/12/2011	13-Apr-11	4/13/2011
20-Apr-11	4/20/2011	20-Apr-11	4/26/2011
21-Apr-11	4/21/2011	21-Apr-11	4/21/2011
18-May-11	5/18/2011	18-May-11	5/18/2011
27-May-11	5/27/2011	27-May-11	5/27/2011
14-Jun-11	6/14/2011	14-Jun-11	11/14/2011
16-Jun-11	6/16/2011	16-Jun-11	6/16/2011
27-Jun-11	6/27/2011	27-Jun-11	6/27/2011
10-Aug-11	8/10/2011	10-Aug-11	8/10/2011
12-Aug-11	8/12/2011	12-Aug-11	8/12/2011
18-Oct-11	10/18/2011	18-Oct-11	10/18/2011
24-Oct-11	10/24/2011	24-Oct-11	10/24/2011
26-Oct-11	10/26/2011	26-Oct-11	10/26/2011
7-Nov-11	11/7/2011	7-Nov-11	11/7/2011
20-Dec-11	12/20/2011	9-Jan-12	11/21/2012

Category 3	150	150
Category 3	50	0
Category 1	200	0
Category 3	120	0
Category 3	25	5
Category 1	200	100
Category 3	200	0
Category 3	10	0
Category 2	3600	400
Category 1	8650	0
Category 3	20	0
Category 1	300	100
Category 3	10	0
Category 3	50	0
Category 3	200	55
Category 3	60	0
Category 3	100	0
Category 1	32066	24432
Category 1	58178	0
Category 2	3150	100
Category 1	600	0
Category 3	5	0
Category 3	50	5
Category 1	800	50
Category 3	200	100
Category 3	5	5
Category 3	30	5
Category 3	480	50
Category 3	20	20
Category 1	2000	0
Category 1	360	0
Category 3	30	30
Category 3	250	0
Category 3	3	0
Category 1	300	0
Category 3	20	0
Category 1	6000	0
Category 1	9000	0
Category 3	20	0
Category 1	2500	0
Category 3	150	150
Category 1	8540	0
Category 2	1500	0
Category 3	500	0
Category 3	10	10
Category 3	1	0
Category 3	1	0
Category 3	300	0
Category 3	600	0
Category 3	75	75
Category 2	1000	800
Category 3	150	150
Category 3	150	0
Category 3	50	50
Category 1	62364	0

0	No	No
0	No	No
200	Yes	Yes
0	No	No
0	No	No
100	No	No
0	No	No
0	No	No
0	No	No
8650	Yes	Yes
0	No	No
30	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
7634	Yes	Yes
58178	Yes	Yes
0	No	No
600	Yes	Yes
0	No	No
0	No	No
100	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
2000	Yes	No
360	Yes	No
0	No	No
0	No	No
0	No	No
300	Yes	Yes
0	No	No
6000	Yes	Yes
9000	Yes	Yes
0	No	No
2500	Yes	Yes
0	No	Yes
8540	Yes	Yes
0	No	No
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0	No	No
62364	Yes	Yes

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
No
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
Yes
Not Applicable - Spill did not reach a separate storm drainpipe
Yes
Yes
Not Applicable - Spill did not reach a separate storm drainpipe
No

Bon Air Road and Bayview Road
11 Tree Top Way
850 South Eliseo Drive
832 Fawn Dr.
10 Madreo
57 Berkeley
599 South Eliseo
317 Via La Paz
133 Butterfield
South Eliseo
3 Heather Way
Taylor Street
123 Terrace
506 Sequoia
644 Bolinas Rd
905 Bolinas Rd
444 Scnic
Multiple locations, but first arrived at address below
Bon Air Rd and South Eliseo
38 Redwood Road
Diane Lane
557 Scenic Ave.
20 El Camino Bueno
Morningside Drive
1701 San Anselmo Ave.
Bon Air Rd. & South Eliseo Dr.
79 Berens Drive
286 Via La Paz
99 Broadmore Avenue
61 Willow Avenue
Frustuck and Coree Lane
48 Calumet
2 Oakwood Court
152 San Francisco Boulevard
2 Fairview Court
78 Mountain View Road
Broadmoor Ave
San Anselmo Avenue and San Rafael Avenue
68 Alder Ave
115 Woodside Drive
Manhole located at 100 Hawthrone
277 Tamalpais Road
30 Vista Drive.
460 Scenic Ave
Nadina Way, Greenbrae
460 Scenic
460 Scenic Ave
33 Hatzic Ct Backyard easement
Vista Grande Easement
235 San Francisco Blvd Cleanout
2107 Sir Francis Drake Blvd Cleanout
81 Corte Gracitas
95 Westwood Dr
68 Taylor Dr
Manhole # 3863

37.94524406	-122.5372657	Marin
37.951964	-122.56709	Marin
37.94493097	-122.5371218	Marin
37.9982954	-122.564399	Marin
37.98081	-122.558132	Marin
37.989796	-122.571354	Marin
37.944964	-122.530322	Marin
37.95243	-122.52045	Marin
37.99144	-122.57699	Marin
37.94354551	-122.5326122	Marin
37.93499	-122.52758	Marin
37.98186449	-122.5705271	Marin
37.995522	-122.54384	Marin
37.98222	-122.55708	Marin
37.97416	-122.59988	Marin
37.97351	-122.61481	Marin
37.98775	-122.59875	Marin
37.95296	-122.54487	Marin
37.94772	-122.53944	Marin
37.98823977	-122.5989193	Marin
37.9343093	-122.5273434	Marin
37.97758368	-122.5810752	Marin
37.96784144	-122.5571464	Marin
37.9868399	-122.5754317	Marin
37.98661208	-122.5769211	Marin
38.00533963	-122.5765481	Marin
37.94996858	-122.5435631	Marin
37.952029	-122.518971	Marin
37.98941629	-122.5732648	Marin
37.98874829	-122.5831854	Marin
37.98258714	-122.5931106	Marin
37.98039359	-122.5688691	Marin
37.99232788	-122.5795285	Marin
37.98430962	-122.5662518	Marin
37.98955971	-122.5775978	Marin
37.98547218	-122.5961962	Marin
37.98654892	-122.5746018	Marin
37.97682717	-122.564023	Marin
37.98145565	-122.5723228	Marin
37.99641	-122.58274	Marin
37.93463	-122.53807	Marin
37.98548	-122.59719	Marin
37.9612	-122.53774	Marin
37.9876	-122.59956	Marin
37.9507	-122.53052	Marin
37.97924	-122.57956	Marin
37.97924	-122.57956	Marin
37.93069	-122.55164	Marin
37.95793	-122.52887	Marin
37.9869	-122.5649	Marin
37.99095	-122.59244	Marin
37.94908	-122.51886	Marin
37.94568	-122.56428	Marin
37.98926	-122.58826	Marin
37.949083	-122.549667	Marin

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Argonaut Construction broke the 8 inch A.C. force main and a 6 inch A.C. lateral. Sewage didn't leave the ditch.
M.H. 2460 in street.
Maggiora & Ghilotti where pumping a trench out . The hose was in the manhole when the hose came out and started pum

Front yard, clean out overflowing onto dirt area and driveway. hoesed down area, removed with Vac-Con
Clean out on side of building
4 District clean out on hillside. There was no debris, a small area around clean out was damp. Was not overflowing a th
Backyard / hillside behind 133
The District was filling up the 36 inch force main after being worked on all summer. The force main might have come app

Manhole was overflowing in the street.
Manhole in dirt area
Hillside in back of 506 Sequoia
This blockage was caused by the surcharge from blockage we broke upstream on 905 Bolinas. Had Vac-on crew clean up
Man hole in street
Open hillside below 444 Scenic
5 Stadium Way, Kentfield 221 McAllister Ave, Kentfield Pump Station 15 Kentfield, MH# 2516
Berm at Pit 5
Overflow was coming out of a 4 inch cleanout.
City of Larkspurs storm water pumps were clogged causing pump station 30 to be inundated in 2 feet of storm water.
Upon arrival at the location the manhole was not overflowing, the area was dry.
Yard/Land
The spill was coming out underneath the sidewalk.
The spill was coming out of a manhole.
The spill came out of an area that where Maggiora & Ghilotti had worked on.
The spill came out of a rod hole.
4 inch cleanout in the backyard of 286 Via La Paz overflowed.
4 inch cleanout in the front yard of 99 Broadmore Avenue had overflowed. Sewage was standing in the cleanout.
4 inch cleanout for 61 Willow Avenue was overflowing.
Manhole overflowed in the intersection.
Baby manhole in the driveway of 48 Calumet Avenue overflowed.
4 inch cleanout on the hillside overflowed. Category 2
3 gallons came out of the rod hole.
.Manhole in the intersection of Fairview Court and Butterfield Road was overflowing.
The overflow came out of the 4 inch cleanout in the front yard and went into the dirt.
Intersection of Braodmoor Ave and Morningside Dr. , San Anselmo
The manhole overflowed out of the pick hole in the intersection of San Anselmo Ave. and San Rafael Ave.
Spill location was from cleanout in the backyard of 68 Alder.
Overflowing manhole on common driveway 115 Woodside Dr.
Manhole at the intersection had a partial blockage.
6 inch sewer main on the hillside came apart at a joint due to a mudslide. 6 inch sewer main repaired temporarily at the b
6 inch sewer line was broken on the hillside. A tree root popped the top of the pipe at the hub. Rocks and mud plugged th
A landslide occured due to water main and pushed the road out along with our sewer. Sewer was seeping slowly out from
There was a rod hole with a wooden box around it. There was standing sewer in the line but way not high enough at the t
Temporary bypass was installed due to slide area. Water Dept called in a minor leak from a coupling. The on call worke
Slide area that is taking out the street
Easement behind house had a manhole that had sewer coming out of it. We have multiple pictures upon request
Easement had sewage coming throught the ground about 150 feet from the upstream manhole.
Cleanout right next to the street was seeping out liquid through the pic hole.
Spill came out of a cleanout.
Manhole was overflowing minimally.
Liquid came out of our manhole and entered a storm drain line that was broken downstream so the liquid was isolated the
Spill occured in a broken line in the basement of the house. The rooter tech also pulled a major amount of roots from the
Manhole at College and Magnolia

ping into the storm drain.

e time crew arrived. The line was not bl

art between the new pipe that was conn

› area and put out signs. About 200 gallc

ottom of 277 Tamalpias Road Fairfax.
e line.
ı the asphalt. No sewer was seen comir
ime drain down the hillside. A partial blc
- said that the pipe was most likely move

re.
private lateral and not the main.

Force main or pressure sewer
Manhole
Other (specify)
Manhole
Manhole
Other sewer system structure
Other (specify)
Other sewer system structure
Other (specify)
Force main or pressure sewer
Manhole
Manhole
Manhole
Manhole
Manhole
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Manhole
Other sewer system structure
Force main or pressure sewer
Other (specify)
Manhole
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Other (specify)
Other (specify)
Manhole
Force main or pressure sewer
Gravity sewer
Gravity sewer
Other (specify)
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Gravity sewer
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Manhole
Other (specify)
Manhole

The hose came out of the manhole and then pumped into the storm drain.

Clean out
Clean out
Clean out
Spill was coming out the ground

manhole and cleanouts.

Overflow was coming out of a 4 inch cleanout.

4 inch cleanout and the ground.
The spill was coming out underneath the sidewalk.

District 4 inch cleanout in the backyard of 286 Via La Paz overflowed.
4 inch cleanout in the front yard of 99 Broadmore Avenue had overflowed.

The other sewer system structure was a 4 inch cleanout for 2 Oakwood Court. Category 2
3 gallons overflowed out of a rodhole.
Manhole in the intersection of Fairview Court and Butterfield Road was overflowing.
The overflow came out of the 4 inch cleanout.

The manhole overflowed out of the pick hole in the intersection of San Anselmo Ave. and San Rafael Ave.
4 inch cleanout from 68 Alder
Overflowing manhole

The spill made a hole in the ground due to mudslide at the bottom of the property of 277 Tamalpias Road Fairfax.
6 inch sewer line was broken on the hillside. A tree root popped the top of the pipe at the hub. Rocks and mud plugged th Road

From a pipe joint behind the shear band
Suds were seen coming through the asphalt.

Cleanout by the deck of the house.

broken pipe in the basement.

Other (specify below)
Street/curb and gutter
Surface water
Street/curb and gutter;Unpaved surface
Street/curb and gutter
Unpaved surface;Other (specify below)
Unpaved surface
Unpaved surface
Unpaved surface
Storm drain;Surface water
Street/curb and gutter
Surface water
Other paved surface;Unpaved surface
Unpaved surface
Street/curb and gutter;Unpaved surface
Street/curb and gutter;Unpaved surface
Unpaved surface
Other paved surface;Unpaved surface
Surface water
Other (specify below)
Other (specify below)
Street/curb and gutter
Other (specify below)
Street/curb and gutter;Surface water
Combined storm drain (combined CS only)
Other (specify below)
Street/curb and gutter
Other (specify below)
Other (specify below)
Surface water
Surface water
Street/curb and gutter
Unpaved surface
Unpaved surface
Other (specify below)
Unpaved surface
Other (specify below)
Surface water
Other (specify below)
Surface water
Separate storm drain
Surface water
Other (specify below)
Street/curb and gutter
Other (specify below)
Other paved surface
Street/curb and gutter
Unpaved surface
Unpaved surface
Separate storm drain
Unpaved surface
Other paved surface;Separate storm drain
Unpaved surface
Other paved surface
Surface water

The sewage never left the ditch.

Concrete Driveway

The sewage came out of the street went into the storm drain then into the surface water.
Was not overflowing on arrival, area was only damp
Manhole overflowed in the street flowed into the storm drain then into the creek.
Main was not overflowing on arrival, but showed that it had, very minor. cleaned main and area around MH.

Open land

This spill possibly entered Corte Madera Creek.
Corte Madera Creek
The sewer overflowed out of a 4 inch cleanout and went into the ground.
Corte Madera Creek

Yard/ Land

The final Destination was in a storm drain that was not flowing. The crew vaccumed all of the sewage out of the storm dr
The spill flowed onto land and was vaccumed up. Samples were taken.
The final destination was around the rod hole.
The spill destination was in the dirt of backyard of 286 Via La Paz.
In the front yard of 99 Broadmore Avenue.
Fairfax Creek
Fairfax Creek

The overflow went on the side of a hill.
3 gallons overflowed out of a rodhole into dirt.
The overflow came out of the manhole went into the storm drain then into the creek.
The spill destination was in the dirt.
San Anselmo Creek
The overflow went into the San Anselmo Creek.
Soil around cleanout

The storm drain system eventually goes into the creek. The creek is 1000 feet away.
The final destination was into the creek at the bottom of the property of 277 Tamalpias Road Fairfax then into a 30 inch s
6 inch sewer line was broken on the hillside. A tree root popped the top of the pipe at the hub. Rocks and mud plugged th
Ditch
Minor spill right next to wooden box on hillside. Spill located in grass and dirt.
Minor saturation around the pipe joint.
No liquid. Only soap suds bubble out.
Area around the manhole had rags going about 12 feet around.

The end destination was in the storm drain. Our Vac Con thoroughly cleaned the DI and the downstream pipe. There wa

Concrete area in front of the door to the basement.

8/6/2010 2:00	8/6/2010 2:35	8/6/2010 3:00	8/6/2010 4:15
8/17/2010 10:50	8/17/2010 10:59	8/17/2010 11:20	8/17/2010 11:40
8/31/2010 3:30	8/31/2010 3:45	8/31/2010 4:00	8/31/2010 3:35
9/23/2010 21:30	9/23/2010 21:30	9/23/2010 23:00	9/23/2010 23:00
10/2/2010 5:25	10/2/2010 5:25	10/2/2010 6:45	10/2/2010 0:00
10/6/2010 10:25	10/6/2010 10:25	10/6/2010 10:30	10/6/2010 10:50
10/5/2010 10:30	10/5/2010 16:40	10/5/2010 17:30	10/5/2010 18:10
10/7/2010 13:00	10/7/2010 15:00	10/7/2010 15:40	10/7/2010 15:30
10/7/2010 12:00	10/12/2010 11:00	10/12/2010 11:20	10/12/2010 12:30
10/22/2010 11:48	10/22/2010 11:48	10/22/2010 11:48	10/22/2010 12:30
10/25/2010 14:40	10/25/2010 14:40	10/25/2010 15:00	10/25/2010 15:15
11/10/2010 16:30	11/10/2010 16:40	11/10/2010 17:30	11/10/2010 18:00
11/27/2010 11:00	11/27/2010 11:00	11/27/2010 11:55	11/27/2010 11:55
12/3/2010 8:50	12/3/2010 8:50	12/3/2010 9:00	12/3/2010 9:40
12/6/2010 12:45	12/6/2010 12:45	12/6/2010 12:50	12/6/2010 12:55
12/6/2010 11:10	12/6/2010 11:10	12/6/2010 11:40	12/6/2010 11:50
12/11/2010 16:00	12/11/2010 16:00	12/11/2010 17:20	12/11/2010 18:00
12/17/2010 10:43	12/17/2010 11:43	12/17/2010 16:00	12/18/2010 1:30
12/22/2010 9:18	12/22/2010 9:18	12/22/2010 9:18	12/22/2010 10:20
12/27/2010 10:55	12/27/2010 10:35	12/27/2010 10:55	12/27/2010 11:15
12/28/2010 21:30	12/28/2010 21:30	12/28/2010 21:30	12/28/2010 23:30
12/29/2010 15:30	12/29/2010 15:45	12/29/2010 16:00	12/29/2010 17:45
1/10/2011 13:50	1/10/2011 13:50	1/10/2011 14:00	1/10/2011 14:45
1/17/2011 12:00	1/17/2011 2:30	1/17/2011 15:10	1/17/2011 15:20
1/21/2011 6:30	1/21/2011 7:05	1/21/2011 7:45	1/21/2011 8:30
11/29/2010 9:25	11/29/2010 9:30	11/29/2010 9:30	11/29/2010 9:45
1/21/2011 9:00	1/25/2011 8:30	1/25/2011 9:00	1/25/2011 9:10
2/4/2011 15:00	2/5/2011 0:00	2/5/2011 14:25	2/5/2011 15:00
2/8/2011 21:00	2/8/2011 21:40	2/8/2011 22:45	2/9/2011 1:20
2/25/2011 6:00	2/25/2011 9:00	2/25/2011 9:10	2/25/2011 9:20
2/25/2011 10:15	2/25/2011 11:45	2/25/2011 11:55	2/25/2011 12:15
2/28/2011 8:15	2/28/2011 8:30	2/28/2011 10:00	2/28/2011 11:30
3/2/2011 16:45	3/2/2011 16:45	3/2/2011 17:55	3/2/2011 18:30
3/6/2011 14:45	3/6/2011 14:45	3/6/2011 15:55	3/6/2011 18:00
3/16/2011 10:00	3/16/2011 13:20	3/16/2011 13:40	3/16/2011 13:55
3/17/2011 10:20	3/17/2011 10:20	3/17/2011 10:35	3/17/2011 10:50
3/23/2011 7:29	3/23/2011 8:00	3/23/2011 8:28	3/23/2011 8:34
3/24/2011 11:34	3/24/2011 11:34	3/24/2011 11:45	3/24/2011 12:25
3/24/2011 18:15	3/24/2011 21:20	3/24/2011 19:40	3/24/2011 19:00
3/27/2011 10:05	3/27/2011 10:06	3/27/2011 11:40	3/27/2011 11:45
4/12/2011 9:00	4/12/2011 9:05	4/12/2011 9:20	4/12/2011 9:30
4/13/2011 10:00	4/20/2011 11:20	4/20/2011 11:20	4/20/2011 13:17
4/19/2011 8:00	4/21/2011 9:20	4/21/2011 9:58	4/21/2011 10:50
5/15/2011 0:00	5/15/2011 20:37	5/15/2011 21:15	5/15/2011 21:15
5/26/2011 0:00	5/26/2011 12:00	5/26/2011 12:30	5/26/2011 12:30
6/13/2011 0:00	6/13/2011 16:40	6/13/2011 17:30	6/13/2011 17:56
6/14/2011 0:00	6/14/2011 20:30	6/14/2011 21:47	6/14/2011 21:47
6/24/2011 0:00	6/24/2011 13:10	6/24/2011 13:35	6/24/2011 13:45
8/7/2011 0:00	8/9/2011 9:45	8/9/2011 9:45	8/9/2011 10:50
8/11/2011 0:00	8/11/2011 19:10	8/11/2011 20:00	8/11/2011 20:00
10/17/2011 0:00	10/17/2011 18:30	10/17/2011 20:00	10/17/2011 20:20
10/21/2011 0:00	10/21/2011 14:55	10/21/2011 15:16	10/21/2011 15:30
10/26/2011 0:00	10/26/2011 7:36	10/26/2011 8:05	10/26/2011 8:10
11/4/2011 0:00	11/4/2011 12:50	11/4/2011 13:23	11/4/2011 13:32
12/17/2010 0:00	12/18/2010 3:00	12/18/2010 3:30	12/18/2010 13:00

Other (specify below)
Debri-General
Operator error
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Debri-Rags
Debri-General
Pipe structural problem/failure
Other (specify below)
Root intrusion
Debri-General
Root intrusion
Flow exceeded capacity (Seperate CS Only)
Root intrusion
Root intrusion
Other (specify below)
Pipe structural problem/failure
Root intrusion
Pump station failure
Debri-General
Root intrusion
Root intrusion
Debri-Rags
Pipe structural problem/failure
Debri-Rags
Root intrusion
Root intrusion
Surcharged pipe (Combined CS Only)
Surcharged pipe (Combined CS Only)
Debri-General
Grease deposition (FOG)
Root intrusion
Root intrusion
Root intrusion
Debri-Rags
Surcharged pipe (Combined CS Only)
Debri-General
Debri-Rags
Debri-General
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Root intrusion
Other (specify below)
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Pipe structural problem/failure
Debri-Rags
Root intrusion
Grease deposition (FOG)
Root intrusion
Other (specify below)

The force main was not located. Argonaut hit force main with the back hoe.
Debri-General and Rock

Wipes
Part of a brick, some roots and wipes

Wipes, small amount of roots. low flow line

Overflow was caused by surcharging after breaking an upstream blockage. Owner at 700 Bloinas had just had their later

A combination of debris and surcharged conditions.

City of Larkspur storm drain pump was clogged causing pump station 30 to be inundated in 2 feet of storm water.
Rock was found in the system.

5 gallons per day came out of the rodhole. The line was conjested with wipes. Washed the area with the Vac Con.

Root intrusion
Root intrusion

Rags and blockage 78 feet upstream from the intersection.
Surcharging manhole due to heavy rain for several hours.
Partial blockage was seen opened 150 up the line from MH 765. We crew arrived, the overflow was not occuring.
Manhole was over flowing in the driveway and a large amount rags was pulled off the rodder blade.

6 inch sewer main on the hillside came apart at the joint due to a mudslide. 6 inch sewer main repaired temporarily at the
A tree root popped the top of the pipe at the hub. Rocks and mud plugged the line.
Land slide due to broken water main
Baby wipes and minor roots were the cause.
An above ground bypass is installed due to a slide on the street. Contractors are repairing other utilities and it is our gues
Multiple contractors are on site attempting to fix and reroute the utilities. We installed a manhole and a temporary bypass
Some homeowner had a rooter company that cut 2 large root masses about 3 to 4 feet long that conformed to the inside

Severe amount of rags and grease in the downstream line.

A combination of debris and surcharged conditions.

Other (specify below)

Other (specify below)
Main
Main
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Other (specify below)
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Other (specify below)
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Main
Other (specify below)
Main
Main
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Main
Main
Other (specify below)
Main

The force main and lateral was not located.

Operator error when the hose came out of the manhole. No one was watching the hose to make sure the hose was not go

City of Larkspur storm drain pump was clogged causing pump station 30 to be inundated in 2 feet of storm water.

Force main failure at full circle coupling.
Residents in the area flushed down wipes.

78 feet upstream from the manhole
Surcharging manhole due to heavy rain for several hours.

The failure occured 90 feet upstream and will be CCTV and proper response will be made to resolve the issue.

6 inch sewer main on the hillside came apart at the joint due to a mudslide. 6 inch sewer main repaired temporarily at the
When the pipe was broken at the hub it allowed rocks and mud down the system.
Earth pushed out our mainline due to saturation

Pipe Joint
Due to a fragile situation, excavation on our sewer line was not ideal due to the shift of the earth. Our repair crew is on si

There must be a break in the line and sewage was coming out of the mainline. There are only 2 houses above the point
The problem was in the main and the backup came out the cleanout and into the christy box. It was a partial blockage in

There are multiple failures in the main line and private lateral.

	8 A.C.
	6 VCP
ing to come out.	
	6 vcp
	5 vcp
	6 vcp
	6 vcp
	4 cip
	6
	36 Tec ite
	6 VCP
	6 VCP
	VCP
	6 vcp
	6 vcp
	6 vcp
	6 vcp
	VCP
	6 VCP
	4 C.I.
	6 VCP
	VCP
	36 Techite
	6 VCP
	4 C.I.
	6 VCP
	6 VCP
	6 VCP
	5 VCP
	6 VCP
	6 VCP
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	8 VCP
	6 VCP
	6 VCP
	6 VCP
	6 VCP
bottom of the property of 27	6 VCP
	6 VCP
	6 VCP
	6 VCP
	6 PVC
te rerouting the residents late	6 VCP
	6 VCP
were the blockage occured.	6 vcp
which we will CCTV.	8 HDPE
	6 VCP
	6 VCP
	6 VCP
	6 VCP

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80
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70

Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Restored flow
Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Other (specify below)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill)
Other (specify below)
Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill)
Restored flow
Other (specify below)
Contained all or portion of spill
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Other (specify below)
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill)

Contained all portion of spill in the ditch and returned it all in the 6 inch lateral.
Broke Blockage with power rodder and Cleaned up with combination unit.
We could not contain the spill in the storm drain due to the hige tide came into the stormdrain.
Manhole was not overflowing on arrival. Road was damp. No standing water. Cleaned main, restored flow. No debris wa
Restored flow, cleaned area with Vac truck, recovered 5 gallons

The District is fixing the problem.

Overflow was caused by surcharging after breaking an upstream blockage. Owner at 700 Bloinas had just had their latera

Storm water coming out of the manhole.

Baby manhole in the driveway overflowed due to rocks and grit. Used the Vac Con to clean out the Debri.

The surcharge stopped when rain slowed up.

The 6 inch sewer main repaired temporarily.
Cleared the blockage removed mud and rock. Dug the pipe up and fixed the problem.

Shear band was reconnected. I will personally speak with the other utility managers to make sure our pipe is safe.
I will know for sure when the road is shored and I can excavate our sewer main. Camera was unable to get past the 90 d
Material was cleaned up and blockage was removed using hand rod.
I have a repair crew replacing that section of the easement this morning.
The oncall personnel checked the downstream storm drain DI to ensure that all liquids would be contained. The downstre

3 Parcels are above the manhole. Homeowner called it in and the blockage was removed. CCTV will follow to determine

8/31/2010 3:35

10/14/2010 3:00
10/22/2010 12:30

11/10/2010 18:00

12/20/2010 12:00
12/23/2010 7:00
12/27/2010 12:00
12/28/2010 22:30

1/17/2011 15:20

2/25/2011 9:20
2/25/2011 13:30

3/16/2011 13:55

3/23/2011 8:34
3/24/2011 12:25

3/27/2011 15:30

4/20/2011 13:17
4/21/2011 10:50

10/18/2011 12:00

12/20/2010 12:00

Other (specify below)

Other (specify below)
Other (specify below)

Added sewer to preventive maintenance program

Other (specify below)
Repaired sewer
Added sewer to preventive maintenance program
Other (specify below)

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program
Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Added sewer to preventive maintenance program
Plan rehabilitation or replacement of sewer

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer;Repaired sewer
Repaired sewer

Adjusted schedule/method of preventive maintenance;Enforcement action against FOG source;Other (specify below)

Plan rehabilitation or replacement of sewer

Water samples were taken at the sorce 100 feet upstream and 100 feet downstream.

Cleaned main removed blockage, clean area on hillside and around spill area by hand and with Vac truck. Removed and
It was high tide when the overflow happened.

In progress, replacing and rehab sewer.

We will put this system on a 6 month machine rod maintenance program.
Talk to the City of Larkspur to start doing a maintenance program on there storm drain pump.

CCTV will be completed and proper rehabilitation will commence

Dug the 6 inch pipe up and replaced 6 feet of pipe with C 900.

Due to the severe amount of rags in the line, for a minimal section of pipe, we will notify surrounding home owners about

Yes

Yes
Yes

Yes

Yes
No
No
Yes

Yes

No
No

Yes

Yes
Yes

Yes

Yes
No

Yes

Yes

The water was flowing.
N/A
N/A
N/A
N/A
N/A
N/A
The District took 2 samples at the storm drain entering the surface water. 2 samples 100 feet upstream and 2 samples 10
N/A
30 gallons went into the creek. Took samples that night.
N/A
N/A
n/a
n/a
n/a

Health Dept. inspected Site 12/23/10

None

The surcharge went into the creek when it was raining very hard.

The District went off of when we had the last heavy rain. The ground around the area was not septic or black.
No water way was impacted.
None
None

None
None
none
None
None

Yes

No
Yes

Yes

Yes
Yes
Yes
Yes

Yes

Yes
Yes

Yes

Yes
Yes

Yes

Yes
No

Yes

Yes

Corte Madera Creek
N/A
N/A
N/A
N/A
N/A
N/A

N/A

N/A
N/A
n/a
n/a
n/a

None

No beaches were affected
There was no beach impacted.

No beaches were affected
None
There were no beaches impacted.
No beach was impacted.
No Beaches
No Beaches
none
None

None
None
none
None
None

Corte Madera Creek
N/A
N/A
N/A
N/A
N/A
N/A
Corte Madera Creek
N/A
San Anselmo creek
N/A
N/A
n/a
n/a
n/a
Cort Madera Creek
Corte Madera Creek and Creek Side Park

Corte Madera Creek

None
San Anselmo Creek
No water way was effected.
None
None
None
None
Fairfax Creek
Fairfax Creek
None
None
No surface water was impacted.
San Anselmo Creek
There was no impact to any surface water.
San Anselmo Creek
The name of the impacted surface water was the San Anselmo Creek.
No surface water was impacted
Sleepy Hollow Creek
None
The impacted surface water is called Fairfax Creek.
No surface water was impacted.
None
None
none
None
None
None
None
None
none
None
None
Corte Madera Creek

Other (specify below)

No water quality samples taken
Biological indicator(s) - specify below

Biological indicator(s) - specify below

Biological indicator(s) - specify below
Biological indicator(s) - specify below
Not applicable to this spill
Other (specify below)

Biological indicator(s) - specify below

Not applicable to this spill
Not applicable to this spill

No water quality samples taken

Other (specify below)
Other (specify below)

Biological indicator(s) - specify below

Other (specify below)
No water quality samples taken

Not applicable to this spill

Biological indicator(s) - specify below

Water samples were taken to CMSA and the County Health Department.

E. coli

The samples are being tested for Coliform and Fecal/EC.

Total Colif, E Colif, Enterococcus
Total Cliform, E-Coli, Enterococcus

Total Coliform, E-coil, Enterococcus

Total Coliform, E. Coil, Enterococcus

Rebecca Ng from the Marin County Health Dept. said no samples needed.

Robert Turner from Marin County Enviromental Health Services did not require a sample due to heavy and dengerous flc
Enterococcus, Total coliform, Fecal coliform

Sewer, Ecoli, choliform

The water quality samples analyzed are Total Coliform, E Coil and Enterococcus
No water samples were taken. The overflow went into the dirt.

total Colif, EColif, Enterococcus

County Health Agency

None of the above
County Health Agency

None of the above

County Health Agency;Regional Water Quality Control Board
County Health Agency
Not applicable to this spill
County Health Agency

County Health Agency

None of the above
Not applicable to this spill

No water quality samples taken

None of the above
County Health Agency

County Health Agency

County Health Agency
No water quality samples taken

None of the above

County Health Agency;Regional Water Quality Control Board

Centeral Marin Sanitary District and Marin County Public Health Laboratory.

The samples where taken to Central Marin Sanitation Agency.

The overflow went into the dirt.

105233	8/31/2010 4:48
106366	10/22/2010 12:55
106789	11/10/2010 20:40
107583	12/17/2010 23:30
107766	12/22/2010 9:45
107890	12/27/2010 14:00
107941	12/29/2010 1:40
110177	1/10/2011 16:05
110315	1/17/2011 16:26
110417	1/21/2011 14:20
110499	1/25/2011 16:45
111160	2/25/2011 10:15
111165	2/25/2011 12:40
111228	2/28/2011 15:35
111289	3/2/2011 19:20
111361	3/6/2011 17:15
111583	3/16/2011 15:45
111604	3/17/2011 15:36
111809	3/23/2011 11:00
111846	3/24/2011 12:03
111921	3/25/2011 10:40
111980	3/27/2011 10:30
112320	4/12/2011 9:55
112498	4/20/2011 11:25
112526	4/21/2011 12:09
113006	5/16/2011 9:00
113204	5/26/2011 13:13
113542	6/13/2011 18:20
113563	6/14/2011 22:46
113800	6/24/2011 14:10
114717	8/9/2011 11:30
114787	8/11/2011 21:20
116201	10/17/2011 21:14
116325	10/24/2011 5:56
116380	10/26/2011 9:14
116590	11/4/2011 14:28
107583	12/17/2010 23:30

2SSO10172	Active	774406	John Clark	Certified
2SSO10172	Active	774416	John Clark	Certified
2SSO10172	Active	774426	johnclark	Certified
2SSO10172	Active	774428	John Clark	Certified
2SSO10172	Active	774429	john Clark	Certified
2SSO10172	Active	774660	Jeffrey R. Yee	Certified
2SSO10172	Active	775020	Jeffrey R. Yee	Certified
2SSO10172	Active	775127	Stephen Miksis	Certified
2SSO10172	Active	775593	Stephen Miksis	Certified
2SSO10172	Active	775818	Stephen Miksis	Certified
2SSO10172	Active	775919	Stephen Miksis	Certified
2SSO10172	Active	776334	Stephen Miksis	Certified
2SSO10172	Active	776814	Stephen Miksis	Certified
2SSO10172	Active	777790	Stephen Miksis	Certified
2SSO10172	Active	778670	Jeffrey R. Yee	Certified
2SSO10172	Active	778999	Stephen Miksis	Certified
2SSO10172	Active	779313	Stephen Miksis	Certified
2SSO10172	Active	779768	Stephen Miksis	Certified
2SSO10172	Active	781077	Stephen Miksis	Certified
2SSO10172	Active	781340	Stephen Miksis	Certified
2SSO10172	Active	781767	Stephen Miksis	Certified
2SSO10172	Active	782135	Stephen Miksis	Certified
2SSO10172	Active	782965	Stephen Miksis	Certified
2SSO10172	Active	783393	Stephen Miksis	Certified
2SSO10172	Active	785121	Stephen Miksis	Certified
2SSO10172	Active	785877	Stephen Miksis	Certified
2SSO10172	Active	786203	Jeffrey R. Yee	Certified
2SSO10172	Active	786281	Stephen Miksis	Certified
2SSO10172	Active	786365	Stephen Miksis	Certified
2SSO10172	Active	787717	John Clark	Certified
2SSO10172	Active	787948	John	Certified
2SSO10172	Active	788190	Stephen Miksis	Certified
2SSO10172	Active	788191	Jeffrey R Yee	Certified
2SSO10172	Active	788192	John Clark	Certified
2SSO10172	Active	788193	Jeffrey R. Yee	Certified
2SSO10172	Active	788416	Stephen Miksis	Certified
2SSO10172	Active	788573	Jeffrey R. Yee	Certified
2SSO10172	Active	788656	Stephen Miksis	Certified
2SSO10172	Active	788757	Stephen Miksis	Certified
2SSO10172	Active	788783	Jeffrey R. Yee	Certified
2SSO10172	Active	788830	Stephen Miksis	Certified
2SSO10172	Active	789107	Stephen Miksis	Certified
2SSO10172	Active	789512	Stephen Miksis	Certified
2SSO10172	Active	790262	Stephen Miksis	Certified
2SSO10172	Active	791919	Stephen Miksis	Certified
2SSO10172	Active	792007	Stephen Miksis	Certified
2SSO10172	Active	792214	john clark	Certified
2SSO10172	Active	792834	Stephen Miksis	Certified
2SSO10172	Active	792969	Stephen Miksis	Certified
2SSO10172	Active	793412	Stephen Miksis	Certified
2SSO10172	Active	793559	Stephen Miksis	Certified
2SSO10172	Active	796470	John Clark	Certified
2SSO10172	Active	796616	Stephen Miksis	Certified
2SSO10172	Active	798192	Stephen Miksis	Certified
2SSO10172	Active	798232	Stephen Miksis	Certified

Chief of Operations
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chief of operations
Chief of Operations
Chief of Operations
Maintenance Superintendent
Maintenance Superintendent
Interim Maintenance Superintendent
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Maintenance Superintendent

	13:10	706740
	14:05	496956
	13:15	961952
	17:00	616449
	17:00	666536
San Rafael		505829
San Rafael		504318
San Rafael		192829
San Rafael		956096
San Rafael		941310
San Rafael		743544
San Rafael		584380
San Rafael		134080
San Rafael		533514
San Rafael		496784
San Rafael		418044
San Rafael		265751
San Rafael		977644
San Rafael		352917
San Rafael		539440
San Rafael		356884
San Rafael		683731
San Rafael		359380
San Rafael		577120
San Rafael		312784
San Rafael		555719
San Rafael		700790
San Rafael		394049
San Rafael		513766
RVSD		752909
RVSD		659589
Larkspur		464957
San Rafael		248760
	17:00	292468
San Rafael		402877
San Rafael		369904
San Rafael		443531
San Rafael		228708
San Rafael		347687
San Rafael		403679
San Rafael		193260
San Rafael		981913
San Rafael		368154
San Rafael		184663
San Rafael		862366
San Rafael		320494
	9:30	637286
San Rafael		629646
San Rafael		341555
San Rafael		705171
San Rafael		936078
	15:30	281878
San Rafael		899765
San Rafael		901430
2000 Larkspur Landing Circle		656397

20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
20-Dec-11	12/20/2011	20-Dec-11	1/9/2012
20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
20-Dec-11	12/20/2011	20-Dec-11	12/20/2011
23-Dec-11	12/23/2011	23-Dec-11	12/23/2011
30-Dec-11	12/30/2011	30-Dec-11	12/30/2011
3-Jan-12	1/3/2012	3-Jan-12	1/3/2012
10-Jan-12	1/10/2012	10-Jan-12	1/10/2012
13-Jan-12	1/13/2012	13-Jan-12	1/13/2012
17-Jan-12	1/17/2012	17-Jan-12	1/17/2012
24-Jan-12	1/24/2012	24-Jan-12	1/24/2012
2-Feb-12	2/2/2012	2-Feb-12	2/2/2012
21-Feb-12	2/21/2012	21-Feb-12	2/21/2012
14-Mar-12	3/14/2012	14-Mar-12	3/14/2012
23-Mar-12	3/23/2012	23-Mar-12	3/23/2012
2-Apr-12	4/2/2012	2-Apr-12	4/2/2012
9-Apr-12	4/9/2012	9-Apr-12	4/10/2012
8-May-12	5/8/2012	8-May-12	5/8/2012
15-May-12	5/15/2012	15-May-12	5/15/2012
31-May-12	5/31/2012	31-May-12	5/31/2012
13-Jun-12	6/13/2012	13-Jun-12	6/13/2012
5-Jul-12	7/5/2012	5-Jul-12	7/5/2012
12-Jul-12	7/12/2012	12-Jul-12	7/12/2012
14-Aug-12	8/14/2012	14-Aug-12	8/14/2012
4-Sep-12	9/4/2012	4-Sep-12	9/4/2012
13-Sep-12	9/13/2012	13-Sep-12	9/13/2012
17-Sep-12	9/17/2012	17-Sep-12	9/19/2012
19-Sep-12	9/19/2012	1-Nov-12	11/1/2012
31-Oct-12	10/31/2012	1-Nov-12	11/1/2012
8-Nov-12	11/8/2012	16-Nov-12	11/16/2012
18-Nov-12	11/19/2012	5-Dec-12	12/5/2012
18-Nov-12	11/19/2012	4-Dec-12	12/4/2012
18-Nov-12	11/19/2012	20-Nov-12	11/20/2012
18-Nov-12	11/18/2012	4-Dec-12	12/4/2012
27-Nov-12	11/27/2012	27-Nov-12	11/27/2012
29-Nov-12	11/29/2012	29-Nov-12	11/29/2012
2-Dec-12	12/2/2012	27-Dec-12	12/27/2012
4-Dec-12	12/4/2012	27-Dec-12	12/27/2012
5-Dec-12	12/5/2012	5-Dec-12	12/5/2012
6-Dec-12	12/6/2012	27-Dec-12	12/27/2012
17-Dec-12	12/17/2012	27-Dec-12	12/27/2012
28-Dec-12	12/28/2012	28-Dec-12	12/28/2012
15-Jan-13	1/15/2013	15-Jan-13	1/15/2013
21-Feb-13	2/21/2013	11-Mar-13	3/11/2013
25-Feb-13	2/25/2013	11-Mar-13	3/11/2013
28-Feb-13	2/28/2013	11-Mar-13	8/5/2013
21-Mar-13	3/21/2013	21-Mar-13	3/21/2013
27-Mar-13	3/27/2013	15-Apr-13	4/15/2013
16-Apr-13	4/16/2013	16-Apr-13	4/16/2013
22-Apr-13	4/22/2013	23-Apr-13	4/23/2013
3-Jul-13	7/3/2013	15-Aug-13	8/15/2013
9-Jul-13	7/9/2013	24-Jul-13	7/24/2013
26-Aug-13	8/26/2013	26-Aug-13	8/26/2013
27-Aug-13	8/27/2013	5-Sep-13	9/5/2013

Category 1	998100	176107
Category 1	18000	0
Category 1	7250	1850
Category 1	1770840	359620
Category 3	300	300
Category 3	50	0
Category 3	50	0
Category 3	450	450
Category 1	4200	200
Category 3	200	0
Category 3	10	10
Category 3	15	15
Category 1	400	0
Category 3	600	50
Category 3	50	0
Category 2	1100	0
Category 3	200	0
Category 3	360	150
Category 3	100	0
Category 1	1700	250
Category 1	4320	0
Category 3	5	0
Category 1	1000	800
Category 3	900	100
Category 3	10	0
Category 3	200	0
Category 3	50	0
Category 1	1036	2
Category 3	25	0
Category 1	87776	1250
Category 2	9852	0
Category 3	20	0
Category 1	730	0
Category 1	21735	0
Category 1	5	0
Category 3	40	0
Category 3	35	20
Category 1	26894	14000
Category 2	7350	0
Category 3	15	3
Category 3	100	0
Category 3	125	10
Category 3	125	10
Category 3	20	0
Category 1	91	27
Category 3	100	0
Category 1	23834	0
Category 1	43	43
Category 1	3600	25
Category 1	15	0
Category 1	12600	0
Category 3	150	150
Category 1	2659	0
Category 3	900	900
Category 3	50	10

821993	Yes	Yes
18000	Yes	Yes
540	Yes	Yes
1410920	Yes	Yes
0	No	No
0	No	Yes
0	No	No
0	No	No
4200	Yes	No
0	No	No
0	No	No
0	No	No
400	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
1200	Yes	Yes
4000	Yes	No
0	No	No
100	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
1034	Yes	Yes
0	No	No
86526	Yes	Yes
0	No	No
0	No	No
730	Yes	Yes
20000	Yes	No
5	Yes	No
0	No	Yes
0	No	No
12894	Yes	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
64	No	Yes
0	No	Yes
23834	Yes	Yes
1	Yes	Yes
3575	Yes	No
15	No	No
12600	Yes	No
0	No	Yes
2659	Yes	No
0	No	Yes
0	No	No

No
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Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach a separate storm drainpipe
Yes
Not Applicable - Spill did not reach a separate storm drainpipe
Yes
Not Applicable - Spill did not reach a separate storm drainpipe

Manhole #7317 at Kent Middle School
Manhole #3800
Clean out at 5 Stadium Way, Manhole #2262, Cleanout at 18 Laurel Street.
Kent Middle School Manhole # 7316, 7317
Cleanout at 131 Kent Street
557 Scenic Avenue
21 Toussin Avenue
83 Hatzic Ct Larkspur
7 Woodhaven Road
21 Toussin Ave
24 San Francisco Blvd
1000 Sir Francis Drake Blvd
133 Poplar Drive
Melville and Vine, San Anselmo
7 Quisisanna Drive
28 Crest Road
130 Barber Ave
2501 Sir Francis Drake Blvd
24 forest court Sleepy hollow
17 Frances Larkspur
432 Woodland Ave Kentfield
253 Los Angeles BLVD, San Anselmo
Pump Station 13 ARV Bon Air Shopping center
400 Woodland Road
10 Ivy Lane, San Anselmo
201 Evergreen, Kentfield
78 Mountain View Road
35 San Francisco Blvd, San Anselmo
506 Sequoia Drive, San Anslemo
64 Woodside Drive, Back of house
506 Sequoia Drive, San Anselmo
Cleanout
Manhole
Cleanout
Cleanout
540 Sequoia Drive
11 Tamalpias
16 Broadmoor Avenue
Sir Francis Drake Blvd.
Hooper Lane
Quisisana Drive
635 Goodhill Road
697 Fawn Drive
5 Madera Ave Ross
84 Almenar Drive
243 Wilson Way
495 Los Cerros Greenbrae
151 Bon Air shopping center
45 Mountain View
8 Ivy Lane
9 Glen Way Larkspur
6 Myrtle Ave
Westbrae trunk sewer, Olema creek crossing
5 Gregory Drive
673 Magnolia Drive

37.952806	-122.546722	Marin
37.957111	-122.5505	Marin
37.957111	-122.5505	Marin
37.952806	-122.546722	Marin
37.953528	-122.55125	Marin
37.97773	-122.58086	Marin
37.96022	-122.5508	Marin
37.93103	-122.5527	Marin
37.96624	-122.57189	Marin
37.96022	-122.5508	Marin
37.98281	-122.56805	Marin
37.98163	-122.56729	Marin
37.96019	-122.53947	Marin
37.96946	-122.56957	Marin
37.95703	-122.5419	Marin
37.97363	-122.55406	Marin
37.97143	-122.56022	Marin
37.99582	-122.59689	Marin
38.00127	-122.57648	Marin
37.9464	-122.54665	Marin
37.95052	-122.56324	Marin
37.98675	-122.56353	Marin
37.94645	-122.5265	Marin
37.94997	-122.56176	Marin
37.97747	-122.58004	Marin
37.94628	-122.55664	Marin
37.98559	-122.59598	Marin
37.98344	-122.56823	Marin
37.98222	-122.55708	Marin
37.997556	-122.578247	Marin
37.982303	-122.557014	Marin
37.931044	-122.535314	Marin
38.004661	-122.594311	Marin
37.989236	-122.576728	Marin
37.989097	-122.576714	Marin
37.98232	-122.55622	Marin
37.93426	-122.54153	Marin
37.986375	-122.574642	Marin
37.95076	-122.5369	Marin
37.98331	-122.58024	Marin
37.95729	-122.5439	Marin
37.95489	-122.56761	Marin
38.00109	-122.5649	Marin
37.9702	-122.55366	Marin
37.94994	-122.53142	Marin
37.93136	-122.55269	Marin
37.95403	-122.53405	Marin
37.94854	-122.5247	Marin
37.98627	-122.57234	Marin
37.97771	-122.58027	Marin
37.93223	-122.54995	Marin
37.93467	-122.53822	Marin
37.996867	-122.598614	Marin
38.00104	-122.59376	Marin
37.94018	-122.53726	Marin

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Middle School Race Track

Clean out at 5 Stadium Way, Manhole #2262 at Laurel and Locust, Cleanout at 18 Laurel.

Manhole 5448 in the street had overflowed. When the crew arrived on site the street was dry and had flowed into a drain a
The spill description is a manhole that overflowed.
Manhole overflowed in the yard.
Part of a decaying tree limb fell on a 6 HDPE sewer line that was suspened 3-4 feet high over a drainage channel. The c
Liquid was bubbling out of the manhole
A blockage from a private lateral broke and the surcharge overwhelmed capacity in a 4 District line and liquid came out c
Material came out of Rod hole or cleaning port.
Water and Sewage came out of the manhole.
Wastewater was coming out of a manhole.
The spill location was in the front yard.
Sewage came out of a rod hole.
Sewage came out of a cleanout into a paved area.
Sewage came out of a cleanout in front of the building complex due to a partial blockage in the mainline
Material was seen around the manhole that was dried up. The manhole had a partial blockage.
A large void developed a sink hole in the street and sewer came out of the 8 hole in the ashpalt due to a 6 sewer main c
Spill was coming out of the street and the ground due to debris that was lodge in a major sag. The blockage grew upstrea
Sewer came out of a cleanout
The schedule 80 PVC broke off on the air release valve in the manhole next to the Pump Station.
A pipe collapse occured just downstream from a manhole in the street. The easement line that came into the surcharged
Steep Easement
Manhole

Sewer came out of the asphalt on the side of the street.
Out of a manhole that had a partial blockage
Behind 64 Woodside Drive San Anselmo
East side of 506 Sequoia

From Manhole in street.
Same call as 14 Willow way.
This spill was called in first but the major spill was next door at 9 Willow way.
Sewage was not coming out of the rod hole when operator arrived. Line was recently CCTV'd and line was clear of any d
The overflow came out of the rodhole casting onto the street.
Manhole, in street
The spill was overflowing out of an old lamp hole.
The spill location is a 4 inch rod hole in the driveway of 15 Hooper Lane.
The overflow was coming out of a 4 inch cleanout due to large amounts of rain.
The spill was leaching from the manhole cover.
Sewage came out of a lamp hole.
Sewage was leaking out of the node due to a partial blockage. Line is 400 feet long and the camera could not make it do
Sewage was coming out of the manhole pick slowly and ran down the street.
Sewage came out of a rod hole. When operator arrived, it was not overflowing. There was standing water in the manhole
Overflow was noticed the day before by a contractor working on the house next door. A note was left with the homeowne
Manhole for a ARV to pump station 13 ruptured just below the bottom riser ring.
Through cracks in a bridge over a creek.

Sewage came out of the hillside via a large void in the pipe. Sewage came down the hillside into a drainage ditch and the
Sewage came out of cracks in the street / curb
Spill is seeping out of a creek bank directly under a trunk sewer where it crosses the creek.
Sewage came out of a lamp hole due to a lot of rags and hand towels that got blocked behind a root ball.
Sewage came out of the ground on an easement

and then went into the dirt. Posted signs

coupler was torn creating an offset in wh

of the lower rod hole due to the amount

ollapse.
am about 30 feet and exfiltrated out of th

manhole had a buried manhole about 1

ebris.

wnstream due to material in the line. Va

e but there was only one house above st
r and the District was not called till the n

en absorbed into the ground

Manhole
Manhole
Manhole;Other sewer system structure
Manhole
Other (specify)
Manhole
Manhole
Gravity sewer
Gravity sewer
Manhole
Gravity sewer
Other sewer system structure
Manhole
Manhole
Other sewer system structure
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Other (specify)
Other (specify)
Other sewer system structure
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Gravity sewer
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Manhole
Manhole
Gravity sewer
Other sewer system structure
Other (specify)
Manhole
Other (specify)
Other (specify)
Other (specify)
Other sewer system structure
Other (specify)

clean out at home
Manhole 5448 in the street had overflowed. When the crew arrived on site the street was dry and had flowed into a drain

Rod Hole

It overflowed out of the 4 inch cleanout.

Cleanout
Cleanout

Sewer came out out of the asphalt in the middle of the street.
Spill came out of the dirt through a void in the pipe
Cleanout

Cleanout that was broken at the transition

Cracks in the asphalt

Rodhole
Cleanout
pick hole
Cleanout
Cleanout
Cleanout

The spill was overflowing out of an old lamp hole.
The spill location is a 4 inch rod hole in the driveway of 15 Hooper Lane.
The overflow was coming out of a 4 inch cleanout due to large amounts of rain.
The spill was leaching from the manhole cover.
Lamphole

Sewer exfiltrated out of a siphon exfiltrated at several locations under a bridge

Came out of the ground via a large void in the pipe.
Asphalt / concrete curb
side of a creek bank.
Lamp Hole or Cleaning port
Sewage came out of the hill side and ponded in a 4 foot radius

Surface water
Separate storm drain
Separate storm drain
Surface water;Unpaved surface
Unpaved surface
Unpaved surface
Street/curb and gutter
Unpaved surface
Unpaved surface
Street/curb and gutter
Other paved surface
Other paved surface
Separate storm drain
Separate storm drain
Unpaved surface
Unpaved surface
Other paved surface
Other paved surface
Unpaved surface
Surface water
Surface water
Unpaved surface
Surface water
Unpaved surface
Other paved surface
Unpaved surface
Other paved surface
Separate storm drain
Other paved surface
Separate storm drain
Unpaved surface
Unpaved surface
Separate storm drain
Surface water
Separate storm drain
Other paved surface
Other paved surface
Other paved surface;Separate storm drain
Separate storm drain;Street/curb and gutter
Other paved surface
Unpaved surface
Other paved surface
Unpaved surface
Other paved surface
Separate storm drain
Unpaved surface
Separate storm drain
Other (specify below)
Surface water
Other paved surface
Unpaved surface
Separate storm drain
Surface water
Separate storm drain
Unpaved surface

Flower Bed
When the crew arrived the street was dry and had flowed into a drain and then into the dirt. Posted sings
The overflow went in the street, gutter then into the dirt.

Final Destination is unclear as about 800-1000ft downstream, the storm drain pipe had no flow or moisture. The spill was
Liquid drained down the pavement and asphalt till it dissipated.
Liquid made it about 30 feet from rodhole.

Most of the spill went on the street and not the storm drain

The final spill destination was in the front yard.

The spill was contained in the parking lot and was vacuumed up by on call personnel. Pictures were taken at the time to
The hillside down from the manhole
Spill entered waterway that leads to the Corte Madera Creek.
The sewer was absorbed into the ground and made its way to the drainage channel that was flowing about 2 gallons a mi

The spill was contained behind a retaining wall next to a drainage ditch.

Willow Creek

Sewage spilled into a short storm drain and the outfall was dry.

The spill location is a 4 inch rod hole in the driveway of 15 Hooper Lane.
The final destination of the spill was around the 4 inch cleanout.
The final spill destination is on the pavement.

The sewage came down the hill in the gutter pan and appears that it ran into the storm drain. There was also ground wat

Security guard saw a burst of air and water that lasted 5 seconds around our manhole in the back parking lot. It is presun

The report indicates that there was a small amount of sewage that mixed with runoff and went into the storm drain. First

Storm drain was checked to the outfall. Outfall to creek was dry and the Vac con thoroughly cleaned and vacuumed the

12/18/2010 7:30	12/18/2010 7:30	12/18/2010 7:30	12/18/2010 15:00
12/18/2010 19:40	12/18/2010 19:40	12/18/2010 19:40	12/19/2010 3:10
12/22/2010 11:00	12/22/2010 11:00	12/22/2010 11:00	12/22/2010 17:00
12/22/2010 0:00	12/22/2010 11:00	12/22/2010 11:00	12/22/2010 23:00
12/22/2010 15:00	12/22/2010 23:00	12/22/2010 23:45	12/22/2010 16:00
12/22/2011 0:00	12/22/2011 20:08	12/22/2011 21:00	12/22/2011 21:00
12/28/2011 0:00	12/28/2011 11:10	12/28/2011 11:33	12/28/2011 11:10
12/31/2011 0:00	12/31/2011 15:12	12/31/2011 16:30	12/31/2011 17:05
12/26/2011 0:00	1/9/2012 14:30	1/9/2012 15:00	1/9/2012 15:55
1/12/2012 0:00	1/12/2012 12:30	1/12/2012 12:50	1/12/2012 13:00
1/16/2012 0:00	1/16/2012 14:03	1/16/2012 15:10	1/16/2012 16:46
1/23/2012 0:00	1/23/2012 14:25	1/23/2012 15:25	1/23/2012 15:35
2/1/2012 0:00	2/1/2012 14:10	2/1/2012 14:15	2/1/2012 14:15
2/18/2012 0:00	2/18/2012 18:20	2/18/2012 19:20	2/18/2012 19:30
3/14/2012 0:00	3/14/2012 10:30	3/14/2012 11:00	3/14/2012 12:15
3/16/2012 0:00	3/22/2012 15:00	3/22/2012 15:00	3/22/2012 16:00
3/30/2012 0:00	3/30/2012 9:50	3/30/2012 10:25	3/30/2012 10:35
4/5/2012 0:00	4/5/2012 17:30	4/5/2012 17:55	4/5/2012 19:30
5/7/2012 0:00	5/7/2012 10:48	5/7/2012 10:48	5/7/2012 10:48
5/14/2012 0:00	5/14/2012 7:40	5/14/2012 8:11	5/14/2012 8:30
5/26/2012 0:00	5/29/2012 19:30	5/29/2012 20:19	5/29/2012 21:10
6/11/2012 0:00	6/11/2012 19:02	6/11/2012 20:05	6/11/2012 20:10
7/3/2012 0:00	7/3/2012 13:50	7/3/2012 13:50	7/3/2012 17:00
7/10/2012 0:00	7/10/2012 9:48	7/10/2012 10:05	7/10/2012 10:12
7/13/2012 0:00	8/13/2012 15:20	8/13/2012 15:45	8/14/2012 12:00
9/3/2012 0:00	9/4/2012 9:46	9/4/2012 10:20	9/4/2012 10:20
9/7/2012 0:00	9/7/2012 11:30	9/7/2012 12:00	9/7/2012 12:00
9/15/2012 0:00	9/17/2012 11:00	9/17/2012 11:00	9/17/2012 12:30
9/18/2012 0:00	9/18/2012 16:42	9/18/2012 17:11	9/18/2012 17:11
10/26/2012 8:00	10/30/2012 20:55	10/30/2012 21:45	10/30/2012 22:35
11/4/2012 0:00	11/8/2012 8:40	11/8/2012 8:58	11/8/2012 9:10
11/17/2012 8:00	11/17/2012 9:02	11/17/2012 10:18	11/17/2012 10:35
11/17/2012 11:00	11/17/2012 12:13	11/17/2012 13:02	11/17/2012 13:23
11/17/2012 14:40	11/17/2012 14:42	11/17/2012 17:30	11/17/2012 18:08
11/17/2012 16:40	11/17/2012 16:42	11/17/2012 17:30	11/17/2012 18:08
11/23/2012 7:15	11/23/2012 7:30	11/23/2012 8:15	11/23/2012 8:00
11/27/2012 7:45	11/27/2012 7:45	11/27/2012 8:03	11/27/2012 8:12
12/2/2012 7:25	12/2/2012 7:50	12/2/2012 7:50	12/2/2012 10:23
12/3/2012 8:00	12/4/2012 8:05	12/4/2012 8:05	12/4/2012 8:30
11/29/2012 9:30	11/29/2012 9:30	11/29/2012 10:37	11/29/2012 10:39
12/2/2012 8:54	12/2/2012 10:52	12/2/2012 10:52	12/2/2012 9:26
12/13/2012 8:35	12/13/2012 10:00	12/13/2012 10:15	12/13/2012 10:35
12/27/2012 9:00	12/27/2012 10:00	12/27/2012 10:21	12/27/2012 10:28
1/10/2013 7:00	1/10/2013 9:12	1/10/2013 9:21	1/10/2013 9:25
2/19/2013 18:45	2/19/2013 18:45	2/19/2013 19:50	2/19/2013 20:16
2/21/2013 16:30	2/21/2013 17:04	2/21/2013 17:40	2/21/2013 17:40
2/25/2013 8:00	2/26/2013 11:00	2/26/2013 11:06	2/26/2013 11:38
3/20/2013 8:45	3/20/2013 8:48	3/20/2013 9:00	3/20/2013 8:45
1/26/2013 0:00	3/21/2013 9:00	3/26/2013 10:06	3/26/2013 12:05
4/12/2013 5:00	4/13/2013 12:36	4/13/2013 13:25	4/13/2013 13:25
3/29/2013 15:45	4/19/2013 15:45	4/19/2013 16:16	4/19/2013 17:30
7/1/2013 9:28	7/1/2013 9:32	7/1/2013 9:55	7/1/2013 10:30
7/1/2013 9:30	7/8/2013 11:28	7/8/2013 11:55	7/8/2013 11:55
8/22/2013 9:45	8/22/2013 10:00	8/22/2013 10:11	8/22/2013 10:15
8/26/2013 9:00	8/26/2013 12:15	8/26/2013 12:44	8/26/2013 13:15

Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Debri-Rags
Debri-General
Debri-Rags
Pipe structural problem/failure
Other (specify below)
Other (specify below)
Debri-General
Root intrusion
Debri-Rags
Surcharged pipe (Combined CS Only)
Root intrusion
Other (specify below)
Pipe structural problem/failure
Root intrusion
Pipe structural problem/failure
Pipe structural problem/failure
Operator error
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Root intrusion
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Root intrusion
Root intrusion
Debri-General
Other (specify below)
Debri-General
Root intrusion
Pipe structural problem/failure
Root intrusion
Other (specify below)
Rainfall exceeded design (Separate CS Only)
Root intrusion
Pipe structural problem/failure
Debri-Rags
Other (specify below)
Root intrusion
Root intrusion
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Other (specify below)
Pipe structural problem/failure
Root intrusion
Other (specify below)

Acombination of Debris and Surcharged Conditions.
A Combination of debris and surcharged condiitons.
A combination of debris and surcharged conditions.
This spill was caused by a several situations, pipe failure, debris in pipe, and surcharging.
A combination of debris and surcharged conditions.
The spill was cause due too large amounts of rags.
The blockage had roots, rags and removed a fish. It looks like someone just cleaned their lateral.
A severe amount of grease came into the bottom manhole along with moslty baby wipes.

There is a 4 inch line serving several houses. There was an SSO recently at the same manhole. A large quantity of larg
The District was called because a contractor said that there was a problem in a District line. When Noel showed up, the c

Our Vactor dumped water down the line to help flush for a rodder unit called for. The amount of water dumped down the
Baby wipes and disposable towels were all clumped together. The crew did not see roots in the manhole after clearing th

MMWD (Water District) had a contractor installing new water lines and they found a rather large void. Upon finding the v
The steel pipe was seen to be perforated after emergency excavation was done the following day and we could see the p

The homeowner saw moisture just below the District cleanout and decided to call after a month. The transition was broke
Partial blockage in the main. The level of liquid in the manhole was 5 inches below the casting and was not leaking at the

There is a piece of 4 inch cast iron wedged in the 4 inch pipe 40 feet down from the manhole. CCTV crews located it anc

Concrete stake through pipe, from retaining wall construction.

brick in siphon
Brick found in main.
A very small amount went into the storm drain and most of it dried up on the asphalt above. The damp dirt was removed

The crew was driving by the location this morning when they noticed that sewage was overflowing out of the lamp hole. V
The 4 inch blockage was caused by 3/4 rock and grit.
A crew member was out for a storm drain problem and noticed the 4 inch cleanout had overflowed. Crew member called
Broken pipe causing root intrusion.
Debris and roots and a piece of 6 VCP broken pipe was removed from the line.

A large root mass from what we could tell that was captured in the downstream manhole after the blockage was broken at
A three foot long slug of roots was pushed out of the line. The line was CCTV'd and there was minimal RFJ's in the line s
This line is an easement line and has been a hand rod line. Even after breaking the blockage with handrods, there was m
The ARV Line is allowing multiple joints to have infiltration occur so the line was full of ground water and sewer gases. 3
Joints on the upstream side of an inverted siphon allowed exfiltration to occur, that came through the voids and cracks ur
Manhole was surcharged 6 inches from the top of the casting.

The Trenchless Crew installed a point repair into a large void that had a lamp hole hanging in the dirt. A line came into th

The resident Patty Tarn called in the overflow right away and we had a rodder crew right in the area.
Massive root intrusion. Line was not on mapping system but through investigation, we found it hand drawn on old maps.

Main
Main
Main
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Main
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Other (specify below)
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Other (specify below)
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Main
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Main
Lower Lateral
Other (specify below)
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Main
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Other (specify below)
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Main

The failure occurred due too large amounts of rags.
The blockage had roots,rags and removed a fish. It looks like someone just cleaned their lateral.

Outgoing manhole invert.

There was an issue in our main and and a couple hundred down, a homeowner was still backup even though our mainline

The 6 inch line has a major sag in the line about 20 feet upstream. Asphalt and rocks were removed along with a couple

The 90 sheared off at the bottom of the ARV which resulted in sewer being discharge out of a 2 pipe. Valves were imme
A large void was found in the line with the CCTV camera.

The pipe is in decent condition. Something came down a lateral and plugged up the main. This was partial blockage and
The roots came into the pipe from the connection.

Root intrusion.
The 4 inch blockage was caused by 3/4 rock and grit.
The rainfall dependent I/I exceeded the capacity of the sewer main.
Broken pipe causing root intrusion.

The main blockage was 192-197 ft upstream from the downstream manhole.
ARV access manhole
Joints throughout the fairly short siphon.

Still unknown. Crews will be out there today addition. Multiple grade 5 and 4 defects. Line has been added to CMMS a

		Cast iron
	4	Cast Iron
	6	VCP
	6	HDPE VCP
	4	Cast Iron
	4	Cast Iron
was cleared. A CCTV crew	4	CI
	6	VCP
	6	
	8	VCP
	4	VCP
	6	VCP
	8	Steel
	4	VCP
	6	VCP
buckets worth of rags that cc	6	cas
	4	HDPE
diately closed and the pump	2	PVC
	6	VCP
	4	ci
	6	VCP
	6	VCP
	4	CI
	6	VC
	6	VCP
near the end of a system	4	CI
	4	VCP
	18	VCP
	6	Cast Iron
	4	cast iron
	6	VCP
	6	VCP
	6	VCP
	6	VCP
	6	VCP
	4	VCP
	6	VCP
	6	CI DI
	4	CAS VCP
	6	VCP
	6	VCP
	8	Steel
	6	VCP
and GIS.6 month maintenanc	6	VCP

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Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sani
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sani
Inspected sewer using CCTV to determine cause
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Other (specify belc
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sani
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;O
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sani
Contained all or portion of spill
Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sani
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Other (specify belc
Restored flow
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Other (specify below)
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Inspected sewer using CCTV to determine cause;Restored flow;Other (specify below)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Inspected sewer using CCTV to determine cause;Restored flow;Returned all or portion of spill to sanitary sewer system;O
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Other (specify belc
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause
Cleaned-up (mitigated effects of spill);Inspected sewer using CCTV to determine cause;Restored flow;Other (specify belc
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Returned all or portion of spill to sanitary sewer syst
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Inspected sewer using CCTV to determine cause;Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;O
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Inspected sewer using CCTV to determine cause;R

Added to the response activities is that our crews laid new dirt down to help out the resident.
The Crew opened the blockage and restored flow. The Health Department was notified and due to the access and darkne
Notification has been given to all the homeowners about dumping large fish down the sewer lines. The CCTV showed th

District personnel will be present while the contractor clears the line so that our main line does not back up again.

The crew took several pictures of the outfall of the storm drain DO which was clear. They attempted to clean that section

During normal maintenance, our LMC found a rod hole that had standing sewage in it. The main is on an steep easemen

Emergency USA called in and excavation. The pipe was in catastrophic state and had to be replaced immediately. Multi
The partial blockage was opened with the vactor and CCTV was completed and the line was added to 6 month maintenar
The sink hole was excavated and repaired by the District and the contractor.
This line was located and inspected the next morning due to safety concerns during the late night activity. It was put on 6
The inflatable plug was removed from the line that caused the blockage in the lateral to the mainline.

The sewer was contained behind the retaining wall of a flower bed right next to a drainage ditch. The grout was damp bu
Crews contained the spill area as it was small amounts of moisture. The repair was made the next morning.
Line is scheduled for CCTV but the Rodder operator said there were roots in the line. The Vactor will be sent out there to

Crews are repairing the collapse as of 3:30 pm. Vactor and the CCTV truck are present with the Line Repair Crew just in
The manhole was surcharged when the oeprator arrived and was not overflowing. Level was just below the frame. The s
See Attachments
Repair sewer pipe and remove stake.

See attachments

Large 3 inch roots were cut out with a Chain Flail and the Vactor. District will be installing a Cured in Place Point Repair

The crew swept 3 gallons of sewage and toilet paper back into the 4 inch rod hole.
Cleaned up around the 4 inch cleanout picked up all the small amounts of paper.
Scheduled for spot repair.
Staff looked up records to see when line had been cleaned and CCTV'd and it was cleaned 7/5/2012. CCTV was 4/26/20
A manhole must be installed to obtain access to the middle of the line. Dye test was preformed and took several minutes
Manhole base will be repaired so that better flow is achieved and does not get caught at the outgoing invert

Video and pcitures were taken of the spill area.
SOP has been implement
Cured in place point repair was installed on a void upstream 6 feet from the upstream manhole so that exfiltration was stc
Manhole was surcharge when the operator arrived. The asphalt around the manhole was dry. Minor dampness was 15 fe
Pipe was repaired using a cured in place point repair
Emergency USA was called in and the Repair Crew opened the line up and figured out what happened. Flow was restore
RVSD discovered the seepage after a week of investigation. RVSD became relatively sure that this was in fact a Sewer
A cured in place point repair will be inserted today, Aug 26 so there will never have a overflow due to this defect.
Repair Crew will be out there today with CCTV again to install point repairs and find out why sewage came out of the grou

12/20/2010 12:00
12/20/2010 12:00
12/23/2010 17:00
12/23/2010 7:00

1/10/2012 16:30

1/16/2012 20:27

2/1/2012 15:00
2/18/2012 21:00

3/23/2012 12:00

5/14/2012 12:06
5/30/2012 12:00

7/3/2012 17:00

9/17/2012 14:00

11/2/2012 15:00
11/9/2012 4:00

11/21/2012 16:00
11/20/2012 14:00
11/20/2012 16:00

12/2/2012 16:00
12/4/2012 16:00

2/26/2013 8:00
2/22/2013 11:00
3/6/2013 12:00
3/20/2013 17:00
4/1/2013 9:00

4/22/2013 12:00

7/22/2013 16:00

Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Plan rehabilitation or replacement of sewer
Repaired sewer
Repaired sewer

Repaired sewer;Other (specify below)

Other (specify below)

Other (specify below)
Added sewer to preventive maintenance program;Other (specify below)

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer;Repaired sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic

Repaired sewer;Other (specify below)

Plan rehabilitation or replacement of sewer;Repaired sewer

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer
Repaired sewer

Repaired sewer
Repaired sewer
Plan rehabilitation or replacement of sewer

Repaired sewer
Plan rehabilitation or replacement of sewer

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Plan rehabilitatic
Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer;Other (specify below)
Repaired sewer

Repaired sewer

Adjusted schedule/method of preventive maintenance;Plan rehabilitation or replacement of sewer;Repaired sewer

An emergency repair and cleanup is underway. The total gallons was estimated by what the tenant said. He smelled son

Line will be CCTV'd today.

Crews have been notified so that this accident does not occur again and that shallow manholes must be treated differentl
Line will be CCTV'd to see how a clump of rags got caught on a fairly steep line.

A contractor, Team Ghilotti, called the District to report a collapsed sewer pipe and an SSO from Hillcresst and Frances i

Crew removed the ARV and put a 2 inch ball valve to stop the discharging sewer. ARV will be installed properly soon.

Point Repair plained.
Cleaned siphon and checked system.

Rehab of manhole and cured in place point repairs inside the sewer line.
Line will be jetted and not rodded. After completing the inspection of the upstream, CCTV found another partial blockage
District Crews will install cured in place point repairs so this segment of pipe will not have an SSO due to joint root infilitra
Repaired area around manhole by pouring concrete and filling the cracks. Used the Vac con to vacuum out 4500 gallons
The siphon was lined by cured in place to prevent further exfiltration of sewage into the creek. A bypass was put in place

Yes
Yes
Yes
Yes

Yes

No

No
Yes

Yes

Yes
No

No

Yes

Yes
Yes

Yes
Yes
Yes

Yes
Yes

No
No
No
Yes
Yes

No

Yes

None
None. Spill was contained in a long drainage section.
None
None
None
None

None
None
none
none
The storm drain outfall had brackish water ponding before the creek. Samples were taken there.
The ground looked to have absorbed a large degree of the spill over the course of our 3 day estimate and the drainage ch
none
Water was stagnant at the drainage ditch and murky.

none

The storm drain was moist but there was no ponding. Wrong Address was initially given off of google maps which is inco

No evidence of harm to water body.

None
none

None

none

None
Following the storm drain underground system was challenging and took sometime to see where the flow actually went.

Dye came out and Crews did their best to pump it up with hand pumps.

There is no noticeable impact on the creek, fish can be seen swimming around, and there are no odors.

none

Yes
Yes
Yes
Yes

Yes

Yes

Yes
Yes

No

Yes
Yes

Yes

Yes

Yes
Yes

Yes
Yes
Yes

Yes
Yes

No
No
Yes
Yes
Yes

Yes

Yes

None
None
None
None
None
None
None

None
None
none
none
none
none
none
Drainage ditch went to Corte Madera Creek.

none

none

None

No beach was impacted.

None

No beach was impacted.
No beach was impacted.
No beaches were impacted.
No beaches were impacted.
none

None

none

Corte Madera Creek
Corte Madera Creek
Corte Madera Creek
Corte Madera Creek
None
None
No surface water was impacted.
None
None
None
None
None
None
None
No water way was impacted.
None
None
none
none
Corte Madera Creek
Tamalpias Creek, Kentfield is further downstream from the spillsite drainage channel.
none
Large drainage ditch behind Bon Air Shopping Center
none
none
none
None
none
none
Sleepy Hollow Creek
N/A
None
Oak Manor creek
Willow Creek
Willow creak
None
No water way was impacted.
Sleepy hollow creek
No surface water was impacted.
There was no impact to any surface water.
No surface water was impacted.
No impact to surface water.
none
None
None
None
Corte Madera Creek.is several thousand feet away and would be the final destination and then proceed to the bay.
none
Sleepy Hollow Creek
None
none
none
Fairfax Creek
none
none

Biological indicator(s) - specify below
Other (specify below)
Other (specify below)
Other (specify below)

Other (specify below)

No water quality samples taken

Biological indicator(s) - specify below
Not applicable to this spill

Not applicable to this spill

Biological indicator(s) - specify below
Biological indicator(s) - specify below

Biological indicator(s) - specify below

Biological indicator(s) - specify below

Biological indicator(s) - specify below
Not applicable to this spill

Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below

Biological indicator(s) - specify below
Biological indicator(s) - specify below

No water quality samples taken
No water quality samples taken
Biological indicator(s) - specify below
Biological indicator(s) - specify below
Biological indicator(s) - specify below

Biological indicator(s) - specify below

Other chemical indicator(s) - specify below;Biological indicator(s) - specify below

Total Colif, EColif, Enterococcus
Total Colif, E Colif, Enterococcus
Total Coli, E Coli, Enterococcus
Total Coli, E coli, Enterococcus

Water Samples taken.

Enteroccus, E coli, Coliform

Coliform and Enterocuccus
Enzyme Substrate Coliform Total Coliform E-coli Enzyme Substrate Enterococcus Enterococcus

Ecoli Entrococcus

Ecoli and Entrococcus

E-Coli Entr Coli

Colif, E-Colif, Entr
Colif, E-Colif, entr
Colif, E-Colif, Entr

Ecoli, Enterococcus, Total Coliform
Total Coliform, E- Coli & Enterococcus.

The sewage entered the storm drain and the District managed to locate part of the system but there was no viable maps t

Total Coliform Enterococcus
Ecoli Entrococcus
Ecoli Entrococcus

Ecoli Entrococcus

The Water was analyzed for Coliform and Fecal Coliform bacteria, along with Ammonia.

County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency

None of the above

None of the above

County Health Agency
None of the above

None of the above

County Health Agency
County Health Agency

County Health Agency

County Health Agency

County Health Agency;Regional Water Quality Control Board
None of the above

County Health Agency;Regional Water Quality Control Board
County Health Agency;Regional Water Quality Control Board
County Health Agency

County Health Agency;Regional Water Quality Control Board
County Health Agency

None of the above
County Health Agency
County Health Agency
County Health Agency
County Health Agency

County Health Agency

County Health Agency

Waiting for results from Marin Lab

107583	12/17/2010 23:30
107583	12/17/2010 23:30
107766	12/22/2011 9:45
107766	12/22/2010 9:45
107766	12/22/2010 12:00
117558	12/22/2011 21:27
117629	12/28/2011 12:35
117681	12/31/2011 3:12
120152	1/9/2012 15:58
120214	1/12/2012 13:34
120301	1/16/2012 21:17
120484	1/23/2012 15:40
120657	2/1/2012 14:45
120963	2/18/2012 19:40
121483	3/14/2012 12:05
121701	3/22/2012 16:10
121881	3/30/2012 12:52
122026	4/12/2012 18:24
122713	5/7/2012 11:50
122861	5/14/2012 8:40
123163	5/29/2012 20:44
123408	6/11/2012 20:42
123866	7/3/2012 14:05
123989	7/10/2012 11:06
124771	8/13/2012 16:23
125297	9/4/2012 11:55
125388	9/7/2012 12:10
125616	9/17/2012 12:42
125647	9/18/2012 18:00
126561	10/30/2012 22:50
126772	11/8/2012 9:35
126965	11/17/2012 10:57
126970	11/17/2012 13:00
126987	11/18/2012 9:26
126977	11/17/2012 18:18
127069	11/23/2012 8:23
127145	11/27/2012 8:31
127289	12/2/2012 8:08
127392	12/4/2012 9:46
127204	11/29/2012 11:09
127306	12/2/2012 11:25
127615	12/13/2012 12:03
127944	12/27/2012 11:04
130208	1/10/2013 10:27
131058	2/19/2013 20:08
131109	2/21/2013 18:23
131185	2/26/2013 11:33
131698	3/20/2013 10:28
131826	3/26/2013 11:04
132223	4/13/2013 13:46
132353	4/19/2013 16:53
134041	7/1/2013 10:45
134210	7/8/2013 11:28
135209	8/22/2013 11:09
135309	8/26/2013 15:07

2SSO10172	Active	798486	Stephen Miksis	Certified
2SSO10172	Active	798559	Stephen Miksis	Certified
2SSO10172	Active	799027	Stephen Miksis	Certified
2SSO10172	Active	799176	Stephen Miksis	Certified
2SSO10172	Active	800410	Stephen Miksis	Certified
2SSO10172	Active	801032	Stephen Miksis	Certified
2SSO10175	Active	711896	Tony Pullin	Certified
2SSO10175	Active	730499	Tony Pullin	Certified
2SSO10175	Active	746478	Tony Pullin	Certified
2SSO10175	Active	758457	David Partida	Certified
2SSO10175	Active	759671	DavidPartida	Certified
2SSO10175	Active	764829	James Thrall	Certified
2SSO10175	Active	773427	Kevin Antonelli	Certified
2SSO10175	Active	773484	David Partida	Certified
2SSO10175	Active	776285	David Partida	Certified
2SSO10175	Active	776355	nelson sandoval	Certified
2SSO10175	Active	776402	nelson sandoval	Certified
2SSO10175	Active	798461	Tony Pullin	Certified
2SSO10176	Active	650698	Dennis Bosch	Certified
2SSO10176	Active	651511	Dennis Bosch	Certified
2SSO10176	Active	651751	Dennis Bosch	Certified
2SSO10176	Active	651973	Dennis Bosch	Certified
2SSO10176	Active	652328	Dennis Bosch	Certified
2SSO10176	Active	652331	Dennis Bosch	Certified
2SSO10176	Active	653972	Dennis Bosch	Certified
2SSO10176	Active	654176	Dennis Bosch	Certified
2SSO10176	Active	655451	Dennis Bosch	Certified
2SSO10176	Active	655492	Dennis Bosch	Certified
2SSO10176	Active	656773	Dennis Bosch	Certified
2SSO10176	Active	657337	Dennis Bosch	Certified
2SSO10176	Active	657402	Dennis Bosch	Certified
2SSO10176	Active	657511	Dennis Bosch	Certified
2SSO10176	Active	657512	Dennis Bosch	Certified
2SSO10176	Active	657822	Dennis Bosch	Certified
2SSO10176	Active	704412	Dennis Bosch	Certified
2SSO10176	Active	704426	Dennis Bosch	Certified
2SSO10176	Active	705005	Dennis Bosch	Certified
2SSO10176	Active	705160	Dennis Bosch	Certified
2SSO10176	Active	705178	Dennis Bosch	Certified
2SSO10176	Active	705186	Dennis Bosch	Certified
2SSO10176	Active	705355	Dennis Bosch	Certified
2SSO10176	Active	705592	Dennis Bosch	Certified
2SSO10176	Active	707558	Dennis Bosch	Certified
2SSO10176	Active	707591	Dennis Bosch	Certified
2SSO10176	Active	708069	Dennis Bosch	Certified
2SSO10176	Active	708403	Dennis Bosch	Certified
2SSO10176	Active	708684	Dennis Bosch	Certified
2SSO10176	Active	709649	Dennis Bosch	Certified
2SSO10176	Active	709955	Dennis Bosch	Certified
2SSO10176	Active	710146	Dennis Bosch	Certified
2SSO10176	Active	710269	Dennis Bosch	Certified
2SSO10176	Active	710277	Dennis Bosch	Certified
2SSO10176	Active	710300	Dennis Bosch	Certified
2SSO10176	Active	710394	Dennis Bosch	Certified
2SSO10176	Active	710734	Dennis Bosch	Certified

Maintenance Superintendent
Maintenance Superintendent
Maintenance Superintendent
Maintenance Superintendent
Maintenance Superintendent
Maintenance Superintendent
Technical Services Supervisor
Technical Services Supervisor
Techmical Services Supervisor
Collection Worker
Collection worker
Maitenance Mechanic
Mechanic
Collection Worker
Collection Worker
collection worker
collections
Technical Services Supervisor
Wastewater Field Supervisor
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Wastewater Field Supervisor

San Rafael		976234
San Rafeal		922389
San Rafael		101074
San Rafael		149575
San Rafael		715301
San Rafael		861650
	12:59	621616
	13:20	170394
	8:27	371850
	8:04	466535
SAM 15:37		335903
SAM 15:12		229417
SAM		504884
SAM 8:27		311297
	15:35	917441
sam @15:50pm		115639
sam @8 am on 1/26/12		437083
Half Moon Bay, CA		975773
San Bruno, Ca		610145
San Bruno, Ca		939217
San Bruno, Ca		501230
San Bruno, Ca		908358
San Bruno, Ca		457019
San Bruno, Ca		221530
San Bruno, Ca		709132
San Bruno, Ca		464754
San Bruno, Ca		670753
San Bruno, Ca		539215
San Bruno, Ca		966647
San Bruno, Ca		336577
San Bruno, Ca		515476
San Bruno, Ca		538174
San Bruno, Ca		558427
San Bruno, Ca		489530
San Bruno, Ca		415564
San Bruno, Ca		971863
San Bruno, Ca		158689
San Bruno, Ca		845946
San Bruno, Ca		660424
San Bruno, Ca		818156
San Bruno, Ca		786448
San Bruno,Ca		426309
San Bruno, Ca		360534
San Bruno, Ca		500444
San Bruno, Ca		371264
San Bruno, Ca		970675
San Bruno, Ca		830455
San Bruno, Ca		840614
San Bruno, Ca		307686
San Bruno, Ca		486109
San Bruno, Ca		188561
San Bruno, Ca		470191
San Bruno, Ca		151907
San Bruno, Ca		213219
San Bruno, Ca		952417

5-Sep-13	9/5/2013	10-Sep-13	9/10/2013
6-Sep-13	9/6/2013	16-Sep-13	9/16/2013
24-Sep-13	9/24/2013	12-Nov-13	11/12/2013
26-Sep-13	9/26/2013	12-Nov-13	11/12/2013
30-Oct-13	11/12/2013	15-Nov-13	11/15/2013
22-Nov-13	11/22/2013	22-Nov-13	11/22/2013
26-Jan-08		8-Feb-08	2/8/2008
12-Dec-08		12-Dec-08	12/12/2008
4-Nov-09		4-Nov-09	11/4/2009
10-Nov-10	11/10/2010	10-Nov-10	11/10/2010
21-Dec-10	12/21/2010	21-Dec-10	12/21/2010
25-Mar-11	3/25/2011	25-Mar-11	3/25/2011
23-Nov-11	11/23/2011	23-Nov-11	11/23/2011
24-Nov-11	11/24/2011	24-Nov-11	11/29/2011
23-Jan-12	1/23/2012	23-Jan-12	1/23/2012
24-Jan-12	1/24/2012	24-Jan-12	1/24/2012
26-Jan-12	1/26/2012	26-Jan-12	1/26/2012
4-Sep-13	9/4/2013	4-Sep-13	9/4/2013
18-May-07		18-May-07	10/6/2008
8-Jun-07		8-Jun-07	10/6/2008
12-Jun-07		20-Jun-07	10/6/2008
15-Jun-07		20-Jun-07	10/6/2008
19-Jun-07		20-Jun-07	7/16/2009
19-Jun-07		20-Jun-07	10/6/2008
11-Jul-07		11-Jul-07	10/6/2008
16-Jul-07		16-Jul-07	10/6/2008
8-Aug-07		8-Aug-07	10/6/2008
8-Aug-07		8-Aug-07	10/6/2008
4-Sep-07		4-Sep-07	10/6/2008
12-Sep-07		12-Sep-07	10/6/2008
13-Sep-07		13-Sep-07	10/6/2008
17-Sep-07		17-Sep-07	10/6/2008
17-Sep-07		17-Sep-07	10/6/2008
21-Sep-07		21-Sep-07	10/6/2008
1-Oct-07		1-Oct-07	10/6/2008
1-Oct-07		1-Oct-07	10/6/2008
11-Oct-07		11-Oct-07	10/6/2008
12-Oct-07		12-Oct-07	10/6/2008
15-Oct-07		15-Oct-07	10/6/2008
15-Oct-07		15-Oct-07	10/6/2008
16-Oct-07		16-Oct-07	10/6/2008
17-Oct-07		17-Oct-07	10/6/2008
13-Nov-07		13-Nov-07	10/6/2008
13-Nov-07		13-Nov-07	10/6/2008
26-Nov-07		26-Nov-07	10/1/2008
29-Nov-07		29-Nov-07	10/1/2008
4-Dec-07		4-Dec-07	10/1/2008
18-Dec-07		18-Dec-07	10/1/2008
20-Dec-07		20-Dec-07	10/1/2008
20-Dec-07		20-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
26-Dec-07		26-Dec-07	10/1/2008
7-Jan-08		7-Jan-08	10/1/2008

Category 3	0	675	0
Category 3	0	600	600
Category 3	50	50	0
Category 3	150	150	0
Category 1	0	55720	7000
Category 1	0	600	100
Category 1		132710	0
Category 1		500	0
Category 1		500	250
Category 1		600	90
Category 1		3162	0
Category 3		870	870
Category 3		20	0
Category 1		200	0
Category 1		3136	500
Category 3		500	0
Category 1		500	0
Category 3		5	0
Category 1		115	10
Category 1		3700	2500
Category 3		70	0
Category 3		30	20
Category 3		30	25
Category 1		675	450
Category 1		130	50
Category 3		80	20
Category 3		150	90
Category 3		3	1
Category 3		10	10
Category 1		3400	1800
Category 3		400	0
Category 3		150	0
Category 3		5	2
Category 3		50	30
Category 1		750	50
Category 3		15	0
Category 1		2000	1400
Category 1		1000	0
Category 3		10	2
Category 3		30	10
Category 3		15	2
Category 3		55	30
Category 3		3	0
Category 1		2075	300
Category 1		1500	10
Category 3		50	30
Category 2		57934	0
Category 3		840	5
Category 3		45	0
Category 3		50	45
Category 3		10	5
Category 3		5	5
Category 1		1005	50
Category 3		20	20
Category 1		9000	0

0	No	No
0	No	No
0	No	No
0	No	No
55720	Yes	No
600	Yes	No
132710	Yes	No
500	Yes	Yes
250	Yes	Yes
510	Yes	Yes
3162	Yes	Yes
0	No	No
0	No	Yes
100	Yes	Yes
2636	Yes	Yes
0	No	No
500	Yes	Yes
0	No	No
105	No	Yes
1200	No	Yes
0	No	No
0	No	No
0	No	No
225	Yes	Yes
80	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
3400	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
700	No	Yes
0	No	No
600	No	Yes
1000	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
0	No	No
1775	No	Yes
1490	No	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
955	No	Yes
0	No	No
9000	No	Yes

Not Applicable - Spill did not reach a separate storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
No

11 Coogan Ave
Del Monte and Sir Francis Drake
8 Ivy Lane San Anselmo
369 Wilson Way Larkspur
11 Evergreen, Kent Woodlands, CA
1 Veterans Pl San Anselmo
Montara PS
Vallemar Street IPS
CalTrans right of way adjacent to El Granada Elementry School
2084 Vallemar st
Vallemar st
Princeton Pump station
Vallemar St.
Vallemar st
Coronado st
vallemar
coronado
141 california ave
695 San Mateo Ave.
2429 Trenton Drive
2740 Chabot Dr.
291 Bryant Wy
2335 Trenton Dr.
2575 Olympic Dr.
741 Masson Ave
774 Chestnut Ave.
1151 Huntington Ave.
901 6th Ave
466 San Mateo Ave.
Crestmoor Canyon (easement behind Claremont Dr.
Crestmoor Canyon
483 Oak Ave.
630 Skyline Drive
823 Hensley Ave.
Traeger Ave.
1711 El Camino Real
Trenton Outfall
San Antonio Ave @ Santa Clara
2001 Whitman way
799 El Camino Real
Manhole #45, Intersection of Santa Clara Ave. and San Antonio Ave.
799 El Camino Real
2359 Trenton Drive
2481 Trenton Drive
345 El Camino Real
701 Linden Ave
1560 Claremont Drive
364 El Camino Real
421 Acacia Ave.
565 East San Bruno Ave.
483 East San Bruno Ave.
416 Euclid Ave.
560 East San Bruno Ave.
1501 Donner Ave.
3496 Highland Drive (Pacific Heights Sewer Pump Station)

37.97855	-122.55826	Marin
37.9445	-122.51799	Marin
37.97771	-122.58027	Marin
37.93348	-122.55213	Marin
37.94845	-122.55385	Marin
37.983772	-122.565636	Marin
37.53707	122.51837	San Mateo
37.53131	122.51708	San Mateo
37.49932	-122.46538	San Mateo
37.53215	-122.51752	San Mateo
37.53215	-122.51755	San Mateo
37.50351	-122.49456	San Mateo
37.3193	-122.310554	San Mateo
37.3193	-122.31055	San Mateo
37.50005	-122.4672	San Mateo
37.3193	-122.31055	San Mateo
37.50005	-122.4672	San Mateo
37.302	-122.2924	San Mateo
37.62815	-122.41167	San Mateo
37.62074	-122.43144	San Mateo
37.63389	-122.45202	San Mateo
37.61055	-122.43392	San Mateo
37.62291	-122.43113	San Mateo
37.63787	-122.4551	San Mateo
37.62873	-122.41321	San Mateo
37.62565	-122.42284	San Mateo
37.63931	-122.41675	San Mateo
37.63293	-122.40704	San Mateo
37.62349	-122.411	San Mateo
37.62282	-122.43864	San Mateo
37.627274	-122.437747	San Mateo
37.6199	-122.4178	San Mateo
37.61482	-122.43779	San Mateo
37.62967	-122.41627	San Mateo
37.627	-122.4218	San Mateo
37.61414	-122.40573	San Mateo
37.62264	-122.43104	San Mateo
37.61459	-122.4019	San Mateo
37.61701	-122.42579	San Mateo
37.6284	-122.41671	San Mateo
37.61459	-122.4019	San Mateo
37.6284	-122.41671	San Mateo
37.62239	-122.43095	San Mateo
37.61979	-122.434	San Mateo
37.62146	-122.41179	San Mateo
37.62663	-122.41688	San Mateo
37.62174	-122.4398	San Mateo
37.62048	-122.41072	San Mateo
37.62017	-122.41502	San Mateo
37.63087	-122.40805	San Mateo
37.63086	-122.40867	San Mateo
37.63167	-122.41577	San Mateo
37.63087	-122.40811	San Mateo
37.61549	-122.41606	San Mateo
37.6351	-122.46885	San Mateo

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Sewage came out the ground due to having a severely fractured pipe. Site and defect was repaired

A spill had occurred and was all dried up paper and towels.
The pipe was separated under a bridge crossing Tamalpias Creek that was embedded in concrete. The bottom of the co

Field between El Granada Elementry School and Hwy 1
Spill was in Moss Beach, CA . From a force main that belongs to the Sewer Authority Mid-Coastside in Half Moon Bay no
Air relief valve pit (manhole).

Sewage seeping out on vallemar st from ruptured force main
Raw sewage seeping out of asphalt on coronado st

sewage coming out of asphalt in the street

Sanitary sewer manhole at the rear of property.

Manhole located in street
Sanitary Sewer Manhole at rear of residence.

Cleanout located in front of residence.
City parking lot.

Gravity sewer-back yard location.

Sewage from blocked sewer main, entered business and exited front door to sidewalk/gutter.

Cleanout to building.
Cleanout of business.

Cleanout.
Manhole located in a backyard easement.
State Road SR-82
Manhole near intersection.
Underground lateral-main connection was disconnected during main rehabilitation project. Lateral was not reconnected to

Sewer manhole at lift station.

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t Moss Beach. The intial two hour notifi

new main once the new pipe was instal

Other (specify)
Force Main
Gravity Mainline
Other sewer system structure
Gravity Mainline
Lateral Clean Out (Private)
Pump station
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer;Manhole
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Force main or pressure sewer
Other (specify)
Manhole
Manhole
Manhole
Manhole
Gravity sewer
Gravity sewer
Manhole
Manhole
Manhole
Other sewer system structure
Gravity sewer
Gravity sewer
Gravity sewer
Gravity sewer
Other sewer system structure
Other sewer system structure
Manhole
Other (specify)
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure
Other sewer system structure
Manhole
Manhole
Manhole
Gravity sewer
Manhole
Other (specify)
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Pump station

Sewage came out of the ground
Contractor was attempting to preform cathode testing and the as built said the pipe was steel incased in concrete. The pi
Sewage came out of the manhole.
Rod Hole
I will try an attach video of sewage going into the exposed bridge wall.

Main influent line slip coupler came apart at pump inside the dry well

spill came from leaking air release valve

Cleanout located in front of residence.

Floor drain within business.

Cleanout to business.

4 inch lateral approx. 7 feet underground.

City cleanout for residence.
At City cleanout to residence.
City cleanout to residence.
City cleanout to residence.
City cleanout to residence.
City cleanout to residence.
Sewer lift station was unable to keep up with Inflow and Infiltration from large storm event.

Unpaved surface
Unpaved surface;Other paved surface
Paved Surface
Unpaved surface
Drainage Channel
Drainage Channel
Surface water
Storm drain;Surface water
Other paved surface;Storm drain;Street/curb and gutter;Unpaved surface
Beach;Separate storm drain
Other paved surface;Separate storm drain;Surface water
Other paved surface;Unpaved surface
Other paved surface;Separate storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Surface water
Beach;Separate storm drain;Street/curb and gutter
Unpaved surface
Beach;Surface water
Street/curb and gutter
Storm drain
Storm drain
Other paved surface
Street/curb and gutter
Street/curb and gutter
Street/curb and gutter
Storm drain
Other (specify below)
Storm drain
Street/curb and gutter
Other paved surface
Surface water
Unpaved surface
Unpaved surface
Street/curb and gutter
Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter;Unpaved surface
Other paved surface;Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface
Unpaved surface
Storm drain
Unpaved surface
Storm drain
Other paved surface;Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Unpaved surface
Other paved surface
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter

Sewage ponded around the manhole.

They creek had ponding and most of the sewage went into the ground.

Pacific Ocean
Pacific ocean
spill was drained back into wet well.

no sewer was recovered, 100 gallons of the 200 stayed on pavement.

on ground (street)

The sewage spilled into a near by valley gutter and was captured and returned to the sewer main.

Grass, dirt area.

spill discharged over dirt hillside before reaching paved street gutter and finally to the stormdrain.

Grass-lawn area.
Grass-lawn area.

9/3/2013 6:30	9/3/2013 11:47	9/3/2013 12:05	9/3/2013 12:30
9/5/2013 11:28	9/5/2013 11:28	9/5/2013 11:28	9/5/2013 12:06
9/22/2013 19:30	9/22/2013 20:00	9/22/2013 20:45	9/22/2013 21:00
9/20/2013 0:00	9/23/2013 11:30	9/23/2013 12:00	9/20/2013 0:00
10/14/2013 6:00	10/28/2013 8:38	10/28/2013 9:27	10/28/2013 14:27
11/20/2013 18:00	11/20/2013 18:10	11/20/2013 19:00	11/20/2013 19:45
1/25/2008 18:20	1/25/2008 18:20	1/25/2008 12:45	1/26/2008 1:43
12/6/2008 13:00	12/6/2008 13:00	12/6/2008 13:25	12/6/2008 14:15
11/1/2009 12:30	11/1/2009 12:30	11/1/2009 13:09	11/1/2009 15:00
11/7/2010 12:10	11/7/2010 12:10	11/7/2010 12:20	11/7/2010 13:40
12/19/2010 9:07	12/19/2010 9:07	12/19/2010 9:20	12/19/2010 9:20
3/24/2011 8:30	3/24/2011 8:30	3/24/2011 8:30	3/24/2011 8:40
11/22/2011 15:00	11/22/2011 15:00	11/22/2011 15:00	11/22/2011 16:00
11/24/2011 14:52	11/24/2011 14:52	11/24/2011 15:10	11/24/2011 15:30
1/21/2012 8:30	1/21/2012 8:30	1/21/2012 8:35	1/21/2012 9:40
1/24/2012 13:42	1/24/2012 13:42	1/24/2012 14:00	1/24/2012 14:00
1/25/2012 9:30	1/25/2012 9:30	1/25/2012 9:45	1/25/2012 22:00
9/4/2013 8:41	9/4/2013 8:45	9/4/2013 9:00	9/4/2013 9:45
5/18/2007 11:17	5/18/2007 11:17	5/18/2007 11:30	5/18/2007 11:40
6/7/2007 1:10	6/7/2007 1:10	6/7/2007 1:15	6/7/2007 2:24
6/9/2007 5:15	6/9/2007 4:45	6/9/2007 5:15	6/9/2007 6:30
6/11/2007 9:45	6/11/2007 9:30	6/11/2007 9:45	6/11/2007 10:15
6/14/2007 12:56	6/14/2007 12:56	6/14/2007 13:10	6/14/2007 13:25
6/18/2007 12:45	6/18/2007 12:30	6/18/2007 12:45	6/18/2007 13:30
7/9/2007 19:04	7/9/2007 19:04	7/9/2007 19:24	7/9/2007 19:30
7/16/2007 8:09	7/16/2007 8:09	7/16/2007 8:15	7/16/2007 8:25
8/7/2007 11:01	8/7/2007 11:01	8/7/2007 11:11	8/7/2007 11:16
8/5/2007 10:48	8/5/2007 10:48	8/5/2007 10:58	8/5/2007 10:58
9/1/2007 15:42	9/1/2007 15:42	9/1/2007 15:52	9/1/2007 16:00
9/11/2007 8:30	9/11/2007 8:30	9/11/2007 9:10	9/12/2007 10:20
9/13/2007 8:30	9/13/2007 8:30	9/13/2007 8:30	9/13/2007 8:50
9/15/2007 8:10	9/15/2007 8:13	9/15/2007 8:25	9/15/2007 8:40
9/16/2007 4:03	9/16/2007 4:05	9/16/2007 4:20	9/16/2007 4:20
9/20/2007 10:35	9/20/2007 10:35	9/20/2007 10:40	9/20/2007 11:00
9/30/2007 9:45	9/30/2007 9:45	9/30/2007 9:55	9/30/2007 10:00
10/1/2007 9:51	10/1/2007 9:51	10/1/2007 10:00	10/1/2007 10:07
10/10/2007 12:50	10/10/2007 12:40	10/10/2007 12:50	10/10/2007 1:10
10/12/2007 2:55	10/12/2007 2:45	10/12/2007 2:55	10/12/2007 3:15
10/14/2007 11:03	10/14/2007 11:03	10/14/2007 11:20	10/14/2007 11:25
10/12/2007 4:32	10/12/2007 4:32	10/12/2007 4:38	10/12/2007 4:38
10/16/2007 7:50	10/16/2007 7:50	10/16/2007 8:00	10/16/2007 8:00
10/17/2007 12:41	10/17/2007 12:41	10/17/2007 12:47	10/17/2007 12:52
11/12/2007 16:43	11/12/2007 16:43	11/12/2007 17:10	11/12/2007 17:10
11/13/2007 9:14	11/13/2007 9:14	11/13/2007 9:20	11/13/2007 10:37
11/22/2007 12:00	11/22/2007 12:00	11/22/2007 12:30	11/22/2007 13:00
11/29/2007 10:45	11/29/2007 10:45	11/29/2007 10:45	11/29/2007 10:55
12/6/2006 12:00	4/23/2007 10:00	11/19/2007 7:30	11/19/2007 13:00
12/18/2007 7:16	12/18/2007 7:16	12/18/2007 7:20	12/18/2007 7:30
12/19/2007 17:55	12/19/2007 17:55	12/19/2007 18:35	12/19/2007 18:35
12/20/2007 13:10	12/20/2007 13:10	12/20/2007 13:10	12/20/2007 13:10
12/24/2007 11:32	12/24/2007 11:32	12/24/2007 12:00	12/24/2007 13:00
12/24/2007 13:13	12/24/2007 13:13	12/24/2007 14:00	12/24/2007 14:00
12/25/2007 14:53	12/25/2007 14:53	12/25/2007 15:45	12/25/2007 16:00
12/26/2007 13:15	12/26/2007 13:15	12/26/2007 13:20	12/26/2007 13:20
1/4/2008 10:00	1/4/2008 10:00	1/4/2008 10:00	1/4/2008 17:00

Pipe structural problem/failure
Other (specify below)
Pipe Structural Problem/Failure
Root Intrusion
Pipe Structural Problem/Failure
Grease Deposition (FOG)
Rainfall exceeded design
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pump station failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pipe structural problem/failure
Pump station failure
Pipe structural problem/failure
Debris
Root intrusion
Debris
Root intrusion
Vandalism
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Other (specify below)
Pipe structural problem/failure
Root intrusion
Root intrusion
Debris
Root intrusion
Grease deposition (FOG)
Root intrusion
Root intrusion
Debris
Rainfall exceeded design
Grease deposition (FOG)
Grease deposition (FOG)
Root intrusion
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Operator error
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Root intrusion
Root intrusion
Grease deposition (FOG)
Root intrusion
Rainfall exceeded design

contractor punched hole in pipe
This section of pipe has multiple grade fives and fours upstream and downstream. It is scheduled for rehab. The blockag

There was a small separation of the pipe joint that is 6 VCP that was seen with CCTV.
Partial blockage in the 8 mainline.

Rupture on force main caused spill.

Raptured force main

Found grease in air release valve

During excavation contractor hit and damage sewer main pipe. They were able to contain the spill the majority of the time

Grease and silt within main line. Line was cleaned approx. one week prior.

Root intrusion in lateral line.

Rain event lasted approx. 7 hours. Spill calculations are based on 5 hours of time where the station could not keep up wit

Main
Main
Gravity Mainline
Gravity Mainline
Gravity Mainline
Gravity Mainline

Other (specify below)
Main
Main
Other (specify below)
Other (specify below)
Other (specify below)
Other (specify below)
Main
Main
Main
Other (specify below)

Force Main

Broken Air relief valve
Influent main line coupler
Force Main
Force main
Force main

force main
air release valve

No	6	VCP	
No	30	RCP	
No	4	VCP	
No	6	VCP	
No	6	VCP	
No	8	PVC	
	12	Iron	
	6	Clay	
	8	Clay	
	6	Clay	
	6	Clay	
	6	Clay	
	4	Clay	
	6		6
	6	Clay	
	6	Clay	
	4	Clay	
	4	Clay	
	10	Clay	
	6	Clay	
	4	Clay	
	4	Clay	
	6	Clay	
	4	Clay	
	4	Clay	
	8	Clay	
	6	Clay	
	6	Clay	
	4	Clay	
	6	Clay	
	4	Clay	
	4	Clay	
	4	Clay	
	4	Clay	
	6	Clay	
	4	Clay	
	8	Plastic	

60
40
60
60

2

25

60
60

80
60
60
60
100

60
80
65

60
100

60
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80

55
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80
90
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70
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80
80
80
55
6

Cleaned-Up;Mitigated Effects of Spill;Contained all or portion of spill;Returned Portion of Spill to Sanitary Sewer System;
Cleaned-Up;Mitigated Effects of Spill;Contained all or portion of spill;Restored flow;Returned Portion of Spill to Sanitary S
Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Contained all or portion of spill;Restored flow
Restored flow
Restored flow;Returned all or portion of spill to sanitary sewer system
Restored flow
Contained all or portion of spill
Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill)
Other (specify below)
Other (specify below)
Contained all or portion of spill
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Restored flow
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Returned all or portion of spill to sanitary sewer system
Contained all or portion of spill
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill)
Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow
Inspected sewer using CCTV to determine cause;Restored flow
Restored flow
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill)
Restored flow;Returned all or portion of spill to sanitary sewer system
Cleaned-up (mitigated effects of spill);Contained all or portion of spill;Restored flow;Returned all or portion of spill to sanit
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Contained all or portion of spill
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Restored flow

There was no blockage and the pipe had no roots. An odor complaint was called in and the Operators could smell sewag
Line has been put on a 3 month maintenance schedule till the reach can be repaired.

While Sewer Line was being repaired approximately 4000 gallons leaked into the excavation and all was captured by vac

was not able to recover anything went straight into stormdrain
shut off valve stopped leak will repair as soon as possible

Vactor truck was used to clean area.

1.)Returned sewage debris to sewer. 2.) cleaned area with Vactor and captured run off. 3.) Disinfected area around manh
1.)Returned all possible sewage to sewer 2.) Disinfected and washed down area
Sewage in gutter and storm drain was cleaned by Vactor truck. Area around manhole was also cleaned and disinfected.
11/26/07 City of San Bruno Public Works Department- Wastewater Division Spill Location: 1560 Claremont Drive, Sa

Vactor was used to clean storm drain and area.
Vactor was used to clean storm drain and area.
No visible material to clean.

11/1/2013 16:00
11/22/2013 13:00
1/26/2008 1:43
12/9/2008 17:00
11/1/2009 20:30
11/7/2010 22:00
12/21/2010 16:30

11/22/2011 21:30
11/24/2011 0:00
1/22/2012 13:00

1/25/2012 22:00

5/18/2007 12:30
6/7/2007 7:00

6/18/2007 13:30
7/9/2007 19:30

9/12/2007 12:20

9/30/2007 10:45

10/10/2007 1:10
10/12/2007 3:15

10/17/2007 13:20

11/13/2007 11:25
11/22/2007 15:30

11/19/2007 13:00

12/25/2007 18:00

1/4/2008 18:00

Inspected Sewer Using CCTV to Determine Cause;Repaired Facilities or Replaced Defect
Added sewer to preventive maintenance program;Adjusted schedule/method of preventive maintenance;Inspected Sewe
Other (specify below)
Plan rehabilitation or replacement of sewer;Repaired sewer
Repaired sewer
Repaired sewer
Repaired sewer

Repaired sewer
Plan rehabilitation or replacement of sewer;Repaired sewer
Repaired sewer

Repaired sewer

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program
Added sewer to preventive maintenance program

Repaired sewer

Adjusted schedule/method of preventive maintenance

Adjusted schedule/method of preventive maintenance
Adjusted schedule/method of preventive maintenance

Added sewer to preventive maintenance program

Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program

Repaired sewer

Added sewer to preventive maintenance program

Plan rehabilitation or replacement of sewer

3 Point Repairs (Cured in Place Epoxy were installed overlapping through the base of the bridge. A Dye test was perform
The main has a large sag in the line. The 2 manholes downstream were buried so that cleaning could not properly be dor
Agency is currently evaluating project options which would increase storm capacity

Overall Spill Description (field doesn't work) - Staff visually viewed 500 gallons and report as estimate. There was more a

Force main of station will be replaced/ upsized through the upcoming Rollingwood Sewer Basin improvement CIP Project

Yes	Possi
No	
No	
Yes	
Yes	
Yes	
No	
No	
No	
Yes	
Yes	
No	
Yes	
No	
No	
No	
No	
No	
No	
No	
Yes	
No	
No	
No	
Yes	

The creek / drainage ditch was completely dry about 500 feet below with no visual evidence of ponding or water.
Sewage came out a 6 PVC pipe into a drainage channel behind the veterans bar.
Spill entered the ocean in area that is very rocky and extreemly turbulent. The waves were very large and the overflow w

Searched all possible entry points. SSO did not reach beach.

N/A

N/A
N/A
N/A
N/A

N/A

N/A

Yes	No
Yes	No
No	
No	
No	
No	
No	
No	
No	
Yes	
Yes	
No	
Yes	
No	
No	
Yes	
No	
Yes	
No	
No	
No	
No	
No	
No	
No	

NA
Rocky coast adjacent to Pt Montara Lighthouse
N/A
NA

Surfers beach

surfers beach in el granada

NA
NA

N/A
NA

NA

N/A

N/A
N/A

N/A

N/A
N/A

N/A

N/A

N/A

Pacific Ocean
Pacific Ocean
NA
Pacific Ocean
Pacific Ocean

None
Pacific Ocean
Pacific ocean

pacific ocean

NA
NA

N/A
NA

San Francisco Bay

N/A

N/A
N/A

N/A

N/A
N/A

N/A

N/A

N/A

Dissolved oxygen;Biological indicator(s) - specify below
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken
No water quality samples taken

Not applicable to this spill
Not applicable to this spill
Biological indicator(s) - specify below

Other chemical indicator(s) - specify below

Not applicable to this spill
Not applicable to this spill

No water quality samples taken
Not applicable to this spill

No water quality samples taken

Not applicable to this spill

No water quality samples taken
No water quality samples taken

No water quality samples taken

Not applicable to this spill
No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Ecoli, Entrococcus, Coliform

Colilert test and enterolert test

test for colilert test also a enterolert test

N/A

County Health Agency;Regional Water Quality Control Board;Other (specify below)
No water quality samples taken
No water quality samples taken
No water quality samples taken
None of the above
No water quality samples taken
No water quality samples taken

Not applicable to this spill
Not applicable to this spill
County Health Agency

County Health Agency

Not applicable to this spill
Not applicable to this spill

None of the above
Not applicable to this spill

No water quality samples taken

Not applicable to this spill

No water quality samples taken
No water quality samples taken

No water quality samples taken

Not applicable to this spill
No water quality samples taken;Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Wildlife Fish and Game

N/A

flow looked to about 15 gallon a minute coming out of the pic hole and the outside of the manhole lid.
Eye ball
Hard to tell due to the area being all dried up. Crews raked the area and found out that the homeowner was not there ove
Engineering completed a excel spread sheet that will be attached. Initial test was using an orfice calculation. Using the b
Eyeball method was used to estimate how many gallons it would take to go from the cleanout and fill the side patio. A b

136682	10/28/2013 10:15
137178	11/20/2013 0:00
80780	1/26/2008 13:50
88722	12/6/2008 14:00
97351	11/1/2009 14:49
106702	11/7/2010 13:55
107625	12/19/2010 11:38
116956	11/22/2011 17:00
116989	11/24/2011 15:32
120413	1/21/2012 10:42
120525	1/25/2012 14:30
73475	6/8/2007 9:13
75556	9/12/2007 2:30
76171	10/11/2007 12:50
76213	10/12/2007 4:00
76994	11/13/2007 11:40
77285	11/26/2007 10:00
77483	12/4/2007 8:14
77919	12/26/2007 9:43
80227	1/7/2008 9:35

Stephen Miksis	4156861540
Stephen Miksis	4156861540
Manny Vigil	4157173102
Stephen Miksis	4156861540
Stephen Miksis	4156861540
Stephen Miksis	4156861540

2SSO10176	Active	711538	Dennis Bosch	Certified
2SSO10176	Active	711577	Dennis Bosch	Certified
2SSO10176	Active	711685	Dennis Bosch	Certified
2SSO10176	Active	711976	Dennis Bosch	Certified
2SSO10176	Active	711986	Dennis Bosch	Certified
2SSO10176	Active	711990	Dennis Bosch	Certified
2SSO10176	Active	711992	Dennis Bosch	Certified
2SSO10176	Active	711993	Dennis Bosch	Certified
2SSO10176	Active	711994	Dennis Bosch	Certified
2SSO10176	Active	712675	Dennis Bosch	Certified
2SSO10176	Active	713780	Dennis Bosch	Certified
2SSO10176	Active	715192	Dennis Bosch	Certified
2SSO10176	Active	715667	Dennis Bosch	Certified
2SSO10176	Active	716060	Dennis Bosch	Certified
2SSO10176	Active	716375	Dennis Bosch	Certified
2SSO10176	Active	716467	Dennis Bosch	Certified
2SSO10176	Active	716491	Dennis Bosch	Certified
2SSO10176	Active	717207	Dennis Bosch	Certified
2SSO10176	Active	717220	Dennis Bosch	Certified
2SSO10176	Active	717552	Dennis Bosch	Certified
2SSO10176	Active	719479	Dennis Bosch	Certified
2SSO10176	Active	722629	Dennis Bosch	Certified
2SSO10176	Active	723530	Dennis Bosch	Certified
2SSO10176	Active	723581	Dennis Bosch	Certified
2SSO10176	Active	724710	Dennis Bosch	Certified
2SSO10176	Active	725123	Dennis Bosch	Certified
2SSO10176	Active	725188	Dennis Bosch	Certified
2SSO10176	Active	726208	Dennis Bosch	Certified
2SSO10176	Active	726244	Dennis Bosch	Certified
2SSO10176	Active	726600	Dennis Bosch	Certified
2SSO10176	Active	727200	Dennis Bosch	Certified
2SSO10176	Active	728117	Dennis Bosch	Certified
2SSO10176	Active	728422	Dennis Bosch	Certified
2SSO10176	Active	728485	Dennis Bosch	Certified
2SSO10176	Active	728553	Dennis Bosch	Certified
2SSO10176	Active	728582	Dennis Bosch	Certified
2SSO10176	Active	728591	Dennis Bosch	Certified
2SSO10176	Active	728822	Dennis Bosch	Certified
2SSO10176	Active	729091	Dennis Bosch	Certified
2SSO10176	Active	729109	Dennis Bosch	Certified
2SSO10176	Active	729144	Dennis Bosch	Certified
2SSO10176	Active	729243	Dennis Bosch	Certified
2SSO10176	Active	729336	Dennis Bosch	Certified
2SSO10176	Active	729442	Dennis Bosch	Certified
2SSO10176	Active	729912	Dennis Bosch	Certified
2SSO10176	Active	730178	Dennis Bosch	Certified
2SSO10176	Active	730270	Dennis Bosch	Certified
2SSO10176	Active	730819	Dennis Bosch	Certified
2SSO10176	Active	731096	Dennis Bosch	Certified
2SSO10176	Active	731383	Dennis Bosch	Certified
2SSO10176	Active	731725	Dennis Bosch	Certified
2SSO10176	Active	731727	Dennis Bosch	Certified
2SSO10176	Active	731873	Dennis Bosch	Certified
2SSO10176	Active	731929	Dennis Bosch	Certified
2SSO10176	Active	732043	Dennis Bosch	Certified

Wastewater Field Supervisor
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Wastewater Field Supervisor

San Bruno, Ca	675756
San Bruno, Ca	335481
San Bruno, Ca	111829
San Bruno, Ca	557066
San Bruno, Ca	129300
San Bruno, Ca	685187
San Bruno, Ca	361355
San Bruno, Ca	343514
San Bruno, Ca	476895
San Bruno, Ca	881905
San Bruno, Ca	544432
San Bruno, Ca	229122
San Bruno, Ca	498965
San Bruno, Ca	143846
San Bruno, Ca	413561
San Bruno, Ca	961279
San Bruno, Ca	826874
San Bruno, Ca	865651
San Bruno, Ca	857396
San Bruno, Ca	367407
San Bruno, Ca	773755
San Bruno, Ca	347572
San Bruno, Ca	914843
San Bruno, Ca	243123
San Bruno, Ca	372572
San Bruno, Ca	380567
San Bruno, Ca	188849
San Bruno, Ca	443825
San Bruno , Ca	468883
San Bruno, Ca	819147
San Bruno, Ca	175169
San Bruno, Ca	717983
San Bruno, Ca	854992
San Bruno, Ca	461138
San Bruno, Ca	596439
San Bruno, Ca	895498
San Bruno, Ca	261227
San Bruno, Ca	286782
San Bruno, Ca	406934
San Bruno, Ca	856980
San Bruno, Ca	252940
San Bruno, Ca	570867
San Bruno,Ca	230123
San Bruno, Ca	750427
San Bruno, Ca	117799
San Bruno, Ca	944823
San Bruno, Ca	752240
San Bruno, Ca	889996
San Bruno, Ca	241673
San Bruno, Ca	220845
San Bruno, Ca	535010
San Bruno, Ca	698691
San Bruno, Ca	266606
San Bruno, Ca	479060
San Bruno, Ca	205287

23-Jan-08	23-Jan-08	10/1/2008
23-Jan-08	23-Jan-08	10/1/2008
24-Jan-08	24-Jan-08	10/1/2008
29-Jan-08	29-Jan-08	9/29/2008
29-Jan-08	29-Jan-08	10/6/2008
29-Jan-08	29-Jan-08	10/6/2008
29-Jan-08	29-Jan-08	9/29/2008
29-Jan-08	29-Jan-08	9/29/2008
29-Jan-08	29-Jan-08	9/29/2008
11-Feb-08	11-Feb-08	9/29/2008
25-Feb-08	25-Feb-08	1/31/2011
24-Mar-08	24-Mar-08	9/29/2008
2-Apr-08	2-Apr-08	9/29/2008
11-Apr-08	11-Apr-08	9/29/2008
22-Apr-08	22-Apr-08	9/29/2008
24-Apr-08	24-Apr-08	9/29/2008
24-Apr-08	24-Apr-08	10/6/2008
12-May-08	12-May-08	9/29/2008
12-May-08	12-May-08	9/29/2008
19-May-08	19-May-08	9/29/2008
13-Jun-08	13-Jun-08	9/29/2008
16-Jul-08	16-Jul-08	9/29/2008
25-Jul-08	25-Jul-08	9/29/2008
26-Jul-08	26-Jul-08	9/29/2008
14-Aug-08	14-Aug-08	9/29/2008
25-Aug-08	25-Aug-08	9/29/2008
26-Aug-08	26-Aug-08	9/29/2008
12-Sep-08	12-Sep-08	9/29/2008
15-Sep-08	15-Sep-08	9/29/2008
22-Sep-08	22-Sep-08	9/26/2008
1-Oct-08	1-Oct-08	10/1/2008
20-Oct-08	20-Oct-08	10/20/2008
23-Oct-08	23-Oct-08	10/23/2008
24-Oct-08	24-Oct-08	10/24/2008
27-Oct-08	27-Oct-08	10/27/2008
28-Oct-08	28-Oct-08	10/28/2008
28-Oct-08	28-Oct-08	10/28/2008
3-Nov-08	3-Nov-08	11/3/2008
7-Nov-08	7-Nov-08	11/7/2008
10-Nov-08	10-Nov-08	11/10/2008
12-Nov-08	12-Nov-08	11/12/2008
13-Nov-08	13-Nov-08	11/13/2008
18-Nov-08	18-Nov-08	11/18/2008
19-Nov-08	20-Nov-08	1/31/2011
26-Nov-08	26-Nov-08	11/26/2008
3-Dec-08	3-Dec-08	12/3/2008
8-Dec-08	8-Dec-08	12/8/2008
19-Dec-08	19-Dec-08	12/19/2008
26-Dec-08	26-Dec-08	1/6/2009
5-Jan-09	5-Jan-09	1/5/2009
12-Jan-09	12-Jan-09	1/12/2009
12-Jan-09	12-Jan-09	1/12/2009
14-Jan-09	14-Jan-09	1/14/2009
15-Jan-09	15-Jan-09	1/15/2009
16-Jan-09	16-Jan-09	1/16/2009

Category 3	3	0
Category 3	4	2
Category 3	50	5
Category 1	756000	0
Category 1	576000	0
Category 1	108000	0
Category 1	108000	0
Category 1	12000	0
Category 1	3000	0
Category 3	50	50
Category 1	1250	0
Category 1	825	300
Category 3	10	10
Category 3	150	150
Category 3	20	20
Category 3	825	150
Category 3	10	10
Category 1	2625	100
Category 3	5	5
Category 3	180	180
Category 1	525	0
Category 1	75	25
Category 3	50	50
Category 1	75	55
Category 1	450	150
Category 3	10	0
Category 3	20	5
Category 3	100	100
Category 3	100	100
Category 1	100	20
Category 3	20	5
Category 3	5	5
Category 3	13	13
Category 1	200	100
Category 3	45	45
Category 3	42	42
Category 3	10	0
Category 3	800	800
Category 3	50	50
Category 3	50	50
Category 3	30	30
Category 3	60	30
Category 1	500	0
Category 3	30	30
Category 3	220	220
Category 3	150	150
Category 3	25	25
Category 3	200	200
Category 1	7300	1000
Category 3	360	360
Category 3	50	0
Category 3	10	5
Category 3	20	20
Category 3	300	300
Category 3	50	50

0	No	No
0	No	No
0	No	No
756000	No	Yes
576000	No	Yes
108000	No	Yes
108000	No	Yes
12000	No	Yes
3000	No	Yes
0	No	No
1250	No	Yes
525	Yes	Yes
0	No	No
0	No	No
0	No	No
0	No	No
0	No	No
2525	Yes	Yes
0	No	No
0	No	Yes
525	No	Yes
50	No	Yes
0	No	No
20	Yes	Yes
300	No	Yes
0	No	No
0	No	No
0	No	Yes
0	No	Yes
80	No	Yes
0	No	No
0	No	No
0	No	Yes
100	No	Yes
0	No	Yes
0	No	Yes
0	No	No
0	No	No
0	No	Yes
0	No	Yes
0	No	No
0	No	Yes
500	No	Yes
0	No	Yes
0	No	No
0	No	Yes
0	No	Yes
0	No	No
6300	No	Yes
0	No	Yes
0	No	No
0	No	No
0	No	No
0	No	Yes
0	No	Yes

Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
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Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Not Applicable - Spill did not reach storm drainpipe
Yes
Yes

541 Elm Ave.
2601 Cottonwood Drive
2641 Crestmoor Drive
3496 Highland Drive
Earl Drive at Sneath Lane (Intersection)
Rollingwood Drive at Sneath Lane
Susan Drive at Fasman Drive (Intersection)
Kains Ave @ Masson Ave (Intersection)
Crystal Springs Road at Linden Ave. (Intersection)
901 6th Ave.
398 El Camino Real (SR-82)
424 San Mateo Ave.
540 2nd Ave.
Intersection of Oakmont Drive and Chabot Drive
1811 Parkview Drive.
161 Fernwood Drive
Intersection of Sneath Lane and Engvall Canyon
Engvall Canyon
217 El Camino Real (SR-82)
61 Tanforan Ave.
Intersection of Crestmoor Drive and Kingston Way
Donner Ave. @ Palomar Ct.
1000 San Mateo Ave.
464 Milton Ave.
290 Lowell Ave.
2339 Trenton Drive
333 Acacia Ave.
San Bruno
462 Milton Ave.
241 El Camino Real
466 Milton Ave.
9016th Ave.
799 El Camino Real SR-82
816 5th Ave.
596 Skyline Blvd.
Intersection of Linden Ave. and Kains Ave.
795 5th Ave.
179 Linden Ave.
430 San Antonio Ave.
Intersection of Kains Ave. and Linden Ave.
416 Euclid Ave.
2101 Sneath Lane
2001 Whitman Way
2001 Whitman Way
483 Oak Ave.
890 El Camino real SR-82
823 Hensley Ave.
940 Hensley Ave.
20 Livingston Terrace
2010 Rollingwood Drive
467 Oak Ave.
608 6th Ave.
161 Diamond Ave.
Intersection of Scott Ave. and Montgomery Ave.
100 San Bruno Ave.

37.62317	-122.41618	San Mateo
37.62949	-122.44556	San Mateo
37.62045	-122.43704	San Mateo
37.6351	-122.46885	San Mateo
37.6246	-122.4464	San Mateo
37.631	-122.4351	San Mateo
37.6329	-122.456	San Mateo
37.62797	-122.41248	San Mateo
37.61974	-122.41171	San Mateo
37.63293	-122.40704	San Mateo
37.62096	-122.41077	San Mateo
37.6221	-122.41101	San Mateo
37.62569	-122.40748	San Mateo
37.63304	-122.45342	San Mateo
37.61068	-122.41633	San Mateo
37.63447	-122.4402	San Mateo
37.6286	-122.4377	San Mateo
37.62282	-122.43864	San Mateo
37.61828	-122.40929	San Mateo
37.63996	-122.41439	San Mateo
37.62188	-122.43463	San Mateo
37.61594	-122.41603	San Mateo
37.63493	-122.4096	San Mateo
37.62387	-122.40919	San Mateo
37.61358	-122.43095	San Mateo
37.62278	-122.43109	San Mateo
37.61897	-122.4138	San Mateo
37.63479	-122.41265	San Mateo
37.62391	-122.40898	San Mateo
37.61864	-122.4099	San Mateo
37.62389	-122.4092	San Mateo
37.63293	-122.40704	San Mateo
37.6284	-122.41671	San Mateo
37.63131	-122.40744	San Mateo
37.61255	-122.43568	San Mateo
37.6265	-122.4163	San Mateo
37.63066	-122.40787	San Mateo
37.61664	-122.40912	San Mateo
37.61684	-122.40366	San Mateo
37.62691	-122.4167	San Mateo
37.63167	-122.41577	San Mateo
37.6286	-122.4377	San Mateo
37.61701	-122.42579	San Mateo
37.61701	-122.42579	San Mateo
37.6199	-122.4178	San Mateo
37.6305	-122.41719	San Mateo
37.62967	-122.41627	San Mateo
37.63177	-122.41725	San Mateo
37.62322	-122.42962	San Mateo
37.63074	-122.43692	San Mateo
37.61938	122.41743	San Mateo
37.62856	122.40545	San Mateo
37.63558	122.41388	San Mateo
37.63479	122.41265	San Mateo
37.6306	122.41207	San Mateo

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Lateral Cleanout in lawn
City cleanout to residence.

Spill from 7 sewer manholes. Each with a flow of 150 GPM. Manholes flow to near by sewer lift station.
Sewer manhole at intersection.
Sewer manhole at intersection.
Sewer manhole at intersection.
Sewer manhole at intersection.
Sewer manhole at intersection.
City cleanout to residence.
Manhole in street.

Lamphole located in intersection.
City cleanout in driveway.
Sewage backflow into a residence.
Manhole near intersection.
Sewer Manhole located in Canyon area.
City cleanout.
Sewer manhole in street.
Sewer manhole in intersection of street.

Sewer manhole located to the rear of the property.
Cleanout of residential house.
Sewer manhole in street.
Cleanout at rear of residence.
Private cleanout to residence.
Main spill at initiallyb 3 gpm in residential street
Cleanout to apartment building.
City cleanouts to two buildings.
Cleanout to apartment building.
Cleanout to residence.
Cleanout to buisness.
Cleanout to residence.
Sewer manhole.
Intersection of roads. Manhole number # 1515.
Cleanout to residence.
Sewer manhole at rear of residence.
Cleanout located in sidewalk.
Manhole in center of intersection.
Cleanout to residence.
Sewer manhole near intersection.
Cleanout to large apartment building.

City cleanout located at the rear of the property.
Cleanout to building.

Sewer manhole in street.
Cleanout to food business.
Cleanout in back yard area.
Cleanout to residence.
Cleanout to residence.

Cleanout to residence.

Gravity sewer
Other sewer system structure
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Manhole
Other sewer system structure
Manhole
Manhole
Other sewer system structure
Other sewer system structure
Other sewer system structure
Other (specify)
Manhole
Manhole
Other sewer system structure
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Other sewer system structure
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Other sewer system structure
Gravity sewer
Manhole
Other sewer system structure
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Other sewer system structure
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Other sewer system structure
Manhole
Other sewer system structure
Other (specify)
Gravity sewer
Other sewer system structure
Other sewer system structure
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Other sewer system structure
Other sewer system structure
Other sewer system structure
Other sewer system structure
Manhole
Other sewer system structure

Cleanout.

Sewer manhole at rear of building, near City parking lot.
Blockage in main caused sewage to back up private lateral. Property owner then used pump to pump out lateral to curb a Lamphole-start of main.

Sewage exited a toilet within a home and then flowed outside to backyard Canyon area.

Manhole is a cleanout opening for one lateral of a business.

Manhole in street.

Lateral

Cleanout to building.

Cleanout.

Grass in front of residence.

Manhole near intersection.

Unpaved surface
Other (specify below)
Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Building or structure;Other paved surface;Storm drain
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Unpaved surface
Storm drain;Street/curb and gutter
Unpaved surface;Other (specify below)
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain
Storm drain
Other paved surface
Storm drain
Storm drain
Unpaved surface
Street/curb and gutter
Other paved surface;Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain
Other paved surface
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Street/curb and gutter
Other (specify below)
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Unpaved surface
Other paved surface;Storm drain
Storm drain;Street/curb and gutter
Other paved surface;Separate storm drain;Street/curb and gutter;Unpaved surface
Street/curb and gutter
Other paved surface;Storm drain
Other paved surface;Storm drain
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter
Unpaved surface
Unpaved surface
Street/curb and gutter
Storm drain;Street/curb and gutter
Storm drain;Street/curb and gutter

Grass/Lawn area.

Sewage traveled over ground and into a storm drain culvert.
On sidewalk, around cleanout.

Spill reached curb and gutter.

Sewage exited manhole, and traveled to a floor drain that is connected to the sewer system.

Grass area around cleanout.

Ground, grass, asphalt, gutter, stormdrain

Grass area.

1/18/2008 9:52	1/18/2008 9:52	1/18/2008 10:10	1/18/2008 10:15
1/22/2008 15:53	1/22/2008 15:53	1/22/2008 16:20	1/22/2008 16:20
1/24/2008 7:55	1/24/2008 7:55	1/24/2008 7:59	1/24/2008 8:05
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 0:01
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 4:00
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 0:01
1/25/2008 12:00	1/25/2008 12:00	1/25/2008 12:00	1/26/2008 0:01
1/25/2008 3:45	1/25/2008 3:45	1/25/2008 3:45	1/25/2008 5:45
1/25/2008 15:00	1/25/2008 15:00	1/25/2008 15:00	1/25/2008 16:00
2/9/2008 10:24	2/9/2008 10:24	2/9/2008 10:50	2/9/2008 11:10
2/24/2008 10:30	2/24/2008 10:30	2/24/2008 10:50	2/24/2008 10:55
3/22/2008 20:11	3/22/2008 20:11	3/22/2008 20:25	3/22/2008 21:06
4/1/2008 12:16	4/1/2008 12:26	4/1/2008 12:26	4/1/2008 12:26
4/11/2008 7:35	4/11/2008 7:35	4/11/2008 7:45	4/11/2008 8:05
4/22/2008 8:54	4/22/2008 8:54	4/22/2008 9:30	4/22/2008 9:30
4/23/2008 16:35	4/23/2008 16:35	4/23/2008 17:00	4/23/2008 17:30
4/24/2008 10:40	4/24/2008 10:40	4/24/2008 10:45	4/24/2008 10:50
5/11/2008 12:15	5/11/2008 12:15	5/11/2008 12:30	5/11/2008 14:00
5/9/2008 16:15	5/9/2008 16:15	5/9/2008 16:30	5/9/2008 17:15
5/18/2008 11:35	5/18/2008 11:35	5/18/2008 12:10	5/18/2008 12:35
6/12/2008 20:15	6/12/2008 20:15	6/12/2008 20:30	6/12/2008 20:50
7/16/2008 8:25	7/16/2008 8:25	7/16/2008 8:35	7/16/2008 8:40
7/25/2008 10:27	7/25/2008 10:27	7/25/2008 10:35	7/25/2008 10:35
7/26/2008 16:30	7/26/2008 16:30	7/26/2008 16:40	7/26/2008 16:45
8/14/2008 16:00	8/14/2008 16:00	8/14/2008 16:20	8/14/2008 0:30
8/23/2008 11:52	8/23/2008 11:52	8/23/2008 12:05	8/23/2008 12:05
8/25/2008 14:31	8/25/2008 14:31	8/25/2008 14:41	8/25/2008 14:41
9/12/2008 10:45	9/12/2008 10:45	9/12/2008 10:50	9/12/2008 10:55
9/14/2008 17:20	9/14/2008 17:20	9/14/2008 17:35	9/14/2008 17:40
9/20/2008 8:10	9/20/2008 8:10	9/20/2008 8:30	9/20/2008 9:30
10/1/2008 8:58	10/1/2008 8:58	10/1/2008 9:12	10/1/2008 9:15
10/18/2008 10:54	10/18/2008 10:54	10/18/2008 11:14	10/18/2008 11:14
10/23/2008 8:00	10/23/2008 8:00	10/23/2008 8:03	10/23/2008 8:13
10/24/2008 13:45	10/24/2008 13:45	10/24/2008 13:45	10/24/2008 14:05
10/27/2008 11:20	10/27/2008 11:20	10/27/2008 11:30	10/27/2008 11:35
10/27/2008 16:03	10/27/2008 16:03	10/27/2008 16:15	10/27/2008 16:45
10/24/2008 13:45	10/24/2008 13:45	10/24/2008 13:45	10/24/2008 14:05
11/1/2008 14:55	11/1/2008 14:55	11/1/2008 15:15	11/1/2008 15:35
11/7/2008 14:00	11/7/2008 14:00	11/7/2008 14:40	11/7/2008 14:40
11/9/2008 19:30	11/9/2008 19:30	11/9/2008 19:50	11/9/2008 20:00
11/11/2008 16:44	11/11/2008 16:44	11/11/2008 17:00	11/11/2008 17:00
11/13/2008 14:15	11/13/2008 14:15	11/13/2008 14:25	11/13/2008 14:27
11/18/2008 8:45	11/18/2008 8:45	11/18/2008 8:55	11/18/2008 9:10
11/19/2008 9:20	11/19/2008 12:10	11/19/2008 9:20	11/19/2008 9:25
11/26/2008 9:48	11/26/2008 9:48	11/26/2008 9:55	11/26/2008 10:10
12/3/2008 9:15	12/3/2008 9:15	12/3/2008 9:20	12/3/2008 9:30
12/7/2008 12:45	12/7/2008 12:45	12/7/2008 13:05	12/7/2008 13:10
12/19/2008 9:15	12/19/2008 9:15	12/19/2008 9:25	12/19/2008 10:30
12/26/2008 10:27	12/26/2008 10:27	12/26/2008 11:25	12/26/2008 11:40
1/3/2009 9:38	1/3/2009 9:38	1/3/2009 10:00	1/3/2009 10:50
1/12/2009 9:28	1/12/2009 9:28	1/12/2009 9:35	1/12/2009 9:50
1/12/2009 9:15	1/12/2009 9:15	1/12/2009 10:00	1/12/2009 10:15
1/14/2009 10:20	1/14/2009 10:20	1/14/2009 10:30	1/14/2009 10:40
1/15/2009 7:40	1/15/2009 7:40	1/15/2009 7:50	1/15/2009 7:55
1/16/2009 13:15	1/16/2009 13:15	1/16/2009 13:15	1/16/2009 13:20

Debris
Grease deposition (FOG)
Grease deposition (FOG)
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Rainfall exceeded design
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Debris
Root intrusion
Root intrusion
Vandalism
Debris
Debris
Grease deposition (FOG)
Debris
Debris
Debris
Debris
Root intrusion
Other (specify below)
Grease deposition (FOG)
Debris
Grease deposition (FOG)
Debris
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Debris
Root intrusion
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Grease deposition (FOG)
Debris
Root intrusion
Debris
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Debris
Debris
Debris
Grease deposition (FOG)
Root intrusion
Grease deposition (FOG)
Debri-Rags
Debri-General
Debri-General
Debri-General
Other (specify below)

Lift station and system was overwhelmed by Inflow and infiltration.

Unknown persons placed a erosion control waddle into a sewer manhole which blocked the flow of sewage.

Three tennis balls in line.

Roots.
Unknown. Cleanout is owned by homeowner and does not meet City specifications. City crews were unable to gain entry

Newspaper debris.

lateral blocked by debris

Sewer/Jetter crew was attending to a blocked main. Sewer manhole overflowed once, during the clearing process.
Large root mass caused blockage.

Wet wipes.

Wet wipes.

Maintenance crew found a sur-charged manhole on their preventative maintenance route. Crew cleared a blockage in the

Main

Lower Lateral
Main
Main

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Lower Lateral
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Lower Lateral
Main
Main

Spill was part of a previous SSO Cert#461138 . Id # 728485. Was noticed by San Mateo Co. Health Services Insp. Alan

lateral near cleanout.

	4	Clay
	6	Clay
	6	Clay-Plastic
	6	Clay
	8	Clay
	6	Clay
	6	Clay
	6	Clay
	4	Clay
	6	Clay
	6	Clay
	5	clay
	6	Clay
	4	Clay
	4	
	6	Clay
	10	Plastic
	4	clay
	6	Clay
	6	Clay
	6	
	4	Clay
		Clay
	4	Clay
	4	
	4	Clay
	6	Clay
		Clay
	6	Clay
	6	Clay
Dare and reported to our dep	6	Clay
	6	
	6	Clay
	4	
	6	Clay
	6	Clay
	4	Clay
	6	Clay
	6	Clay
	6	Clay
	4	
	4	
	10	Plastic
	6	Clay

60
55
8
55
50
50
80
80
55
90
80
60
50
50

30
10
60
60
60

60
50

50

58

60
55

55

10
80

Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Restored flow;Returned all or portion of spill to sanitary sewer system
Restored flow
Restored flow
Restored flow
Restored flow
Restored flow
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Restored flow
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
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Restored flow
Cleaned-up (mitigated effects of spill);Restored flow
Contained all or portion of spill
Contained all or portion of spill
Contained all or portion of spill
Restored flow;Returned all or portion of spill to sanitary sewer system
Other (specify below)
Cleaned-up (mitigated effects of spill)
Cleaned-up (mitigated effects of spill);Contained all or portion of spill
Restored flow;Returned all or portion of spill to sanitary sewer system
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Cleaned-up (mitigated effects of spill);Contained all or portion of spill

SSO was during a small rain event.
Flow was restored when Inflow and infiltration slowed.
Flow was restored when Inflow and Infiltration slowed.
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Flow was restored when Inflow and Infiltration slowed.
Flow was restored when inflow and Infiltration slowed.
Flow was restored when Inflow and Infiltration slowed.
Spill area was cleaned with Vactor.

Used Vactor to clean and in recovery of sewage.
Vactor was used to clean area.
Vactor was used to suck up and clean all sewage that reached the curb-gutter /storm drain.
Vactor was used to suck up all sewage from curb/gutter and storm drain. All sewage was recovered.
Resident advised that she would call a restoration company to clean house and recover standing sewage.
Vactor responded and cleaned Storm drain/curb and gutter. All spilled sewage was sucked up and area was disinfected.
City crew removed erosion waddle from manhole.

Vactor was used to clean area and storm drain mains.

Vactor cleaned area and recovered 150 gallons.

Homeowner advised to call a plumber to clear line or install a City specified cleanout. Homeowner advised to stop using \

Returned approx. 5 gallons of sewage to cleanout. Washed and disinfected area. Washdown fluid/water did reach storm
Used Vactor to clean area.
Vactor used to clean area.
Vactor used to capture approx. 100 gallons of sewage.
Cleaned storm drain basin and mains with Vactor.

Unable to clean area due to report being made several days later.

Used Vactor to clean area, and storm drain main.
Vactor was used to clean area and storm drain mains.

Vactor was used to clean area and storm drain main.
Used Vactor to clean street surface. Not able to clean storm drain main-no access.
staff discovered spill from lateral and contained spillage as well as drew up spilled amount with a Vactor
Vactor used to clean area.
Vactor was used to clean area and storm drain main.
Area and storm drain cleaned by Vactor.
Vactor was used to clean area.
Street sweeper used to clean area.
Vactor used to clean area and storm drain main. Area disinfected.
Disinfected grass around spill site.

Cleaned area with Vactor truck.
Vactor was used to clean area and storm drain.
Vactor used to clean storm drain and area.

1/26/2008 0:01
1/26/2008 4:00
1/26/2008 0:01
1/26/2008 0:01
1/25/2008 5:45
1/25/2008 16:00

2/24/2008 11:00
3/22/2008 23:42

5/11/2008 15:00

6/12/2008 21:00
7/16/2008 8:40

7/26/2008 17:00
8/14/2008 17:00

9/20/2008 10:00

10/24/2008 14:30

11/18/2008 9:40

12/26/2008 12:15

Plan rehabilitation or replacement of sewer
Other (specify below)
Other (specify below)
Plan rehabilitation or replacement of sewer
Other (specify below)
Other (specify below)

Added sewer to preventive maintenance program
Plan rehabilitation or replacement of sewer

Other (specify below)

Adjusted schedule/method of preventive maintenance
Added sewer to preventive maintenance program

Added sewer to preventive maintenance program
Added sewer to preventive maintenance program

Added sewer to preventive maintenance program

Adjusted schedule/method of preventive maintenance

Other (specify below)

Plan rehabilitation or replacement of sewer

Force main of station will be replaced as part of the upcoming Rollingwood Sewer Basin Improvement Project.
Investigation will be done on system to identify spill cause.
System in area will be replaced as part of the upcoming Rollingwood Sewer Basin Improvement Program.
System in area is will be replaced as part of the upcoming Rollingwood sewer Basin Improvement Project.
System in area is being studied for possible replacement.
System in area will be studied for Inflow and Infiltration.

Sewer main and system in area is being investigated for possible replacement.

Division will install a lock down manhole lid at the location.

Division will study the flow capacity of the existing lateral in relation to the number of units at the location.

Yes
Yes
Yes
Yes
Yes
No

No
Yes

No

Yes
No

No
No

No

No

Yes

No

N/A
N/A
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown

N/A

N/A

N/A

N/A

No
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No

No
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No
No

No

No

No

No

N/A-unknown.
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown
N/A Unknown

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Unknown.
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N/A Unknown

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NA

Unknown.
N/A

N/A

N/A

N/A

N/A

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill
No water quality samples taken;Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Other (specify below)

Two water quality samples were taken on 12-29-08. One sample was taken fom the Walnut Station Storm Canal that sho

Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill
Not applicable to this spill

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill
None of the above

Not applicable to this spill
Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Not applicable to this spill

Regional Water Quality Control Board

80828	1/28/2008 11:00
80831	1/28/2008 11:00
80833	1/28/2008 11:00
80836	1/28/2008 11:00
80838	1/28/2008 11:00
80841	1/28/2008 11:00
81562	2/25/2008 8:14
82258	3/22/2008 10:58
83420	5/11/2008 14:10
84196	6/12/2008 21:18
85488	7/28/2008 10:45
85461	7/26/2008 17:22
85929	8/14/2008 17:05
86853	9/20/2008 9:53
87689	10/24/2008 14:59
88281	11/18/2008 9:17
88321	11/19/2008 13:15
89156	12/26/2008 12:01