RICHMOND WWTP AND COLLECTION SYSTEM MONTHLY OPERATING REPORT

FEBRUARY 2012

EXECUTIVE SUMMARY

WWTP Operations

- There were no NPDES violations in February.
- There were no blending events in February.
- The monthly aquatic bioassay test passed with good test organisms survival numbers.
- The lone odor complaint in Brickyard Cove had subsided by the time the call was received and could not be attributed to the treatment plant.
- Digester #1 stable and being fed all plant sludge production for entire month. Sludge make-up (ratio of primary sludge to waste activated sludge) and quantity becoming consistent. Minor issues with startup foaming are being addressed. Successfully kept the H2S level in the digester gas well below the BAAQMD limit of 200 ppm with the addition of about 100 gals of ferric chloride per day.
- Significantly assisted the Maintenance Department in the repair of flight conveyor system in Primary Clarifier #1, damaged by storm grit loading in January. Also installed new fiberglass grating over the sludge collection sumps at the west end of the primary clarifiers. Grating replacement will continue through the year as will additional safety and general building and grounds improvement projects.
- Annual fire extinguisher training and hands on practice was completed. All plant fire extinguishers were checked and serviced by the fire extinguisher contractor at that time.
- New O & M Tech, Russ Clifton, hired and in training toward leading operations maintenance activities.

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Maintenance

- The Maintenance department completed 359 preventative maintenance (PM) work orders and 36 corrective maintenance (CM) work orders, including 129 PM work orders for the sanitary pump stations and 68 PM work orders for the storm system pump stations.

- Made 4 corrective repairs to fleet vehicles.

- Assisted Collections Department with FOG and debris removal from 8 lift stations.

- Completed, with the assistance of Operations, the replacement of the entire plastic chain and all brackets in the sludge flight collector in Primary Clarifier # 1. All flights had to have broken brackets removed and then be reinstalled. While the clarifier was empty for this repair, the sludge discharge valve was replaced with a full port gate valve (from a ¼ turn plug valve) in order to minimize plugging in the suction piping due to rag material.

- Replaced radios in the telemetry system at the Nevin and A (sanitary) and Southwest Annex (storm water) Lift Stations.

- Due to a broken shaft, exchanged pump and replaced seal on the second stage of the DAF Recirculation Pump.

- Replaced check valves and diaphragm on the bisulfite metering pump used to dechlorinate the West County flow.

- Started redesign of chlorination/declorination chemical feed systems with assistance from corporate Director of Automation and Operations Manager.

Collections

Sanitary System Activities

- Cleaned more than 62,000 feet of sanitary sewer cleaned, reflecting the crew's commitment to sanitary O&M including hotspots. The adjusted strategy has been effective – service calls were reduced in February.

- Provided the City with expanded post event reports on SSOs including root causes, corrective actions and modified maintenance plans.

- Kenneth Lewis, a member of our Collection crew, obtained his CWEA Grade 1 Collection System Certification.

Service Calls	**20**
Point Repairs	**14**
Manhole Repairs	**1**
Manhole Inspections	**0**
CCTV (Closed Circuit TV) (ft)	**9,863**
Cleaning (ft)	**62,217**
SSO's	**3**
Lift Station PM	**129**

Storm System Activities

- Completed evaluation of first 10 connectivity issues near South Marina Way as part of the "10 Stars" project. Began work on the second 10 issues.

- Performed weekly maintenance on Van Fleet stormwater system which will continue through wet weather season.

- In response to a call from the Fire Department, two Veolia crews removed 60 large bags of debris (about 3300 gals) from 600 feet of V-ditch on Morningside and May Rd. An email from the Fire Department commended Veolia for a job well done.

- Assigned a dedicated crew, headed by the Collections Supervisor, to work on the storm water system.

- Plan to utilize a dedicated team for comprehensive catch basin cleaning on a street by street basis cleaning during March. Efforts will be supported with enhanced documentation.

Storm Calls	**3**
Point Repairs	**0**
CCTV (ft)	**225**
Storm Pipe Cleaning (ft)	**6 Lift Stations, 1 V-Ditch**
Lift Station PMs	**68**

Detailed data on the activities above are attached.

Capital Projects

Through February 2012, Veolia is actively managing 8 projects. There are no projects that have been proposed to the city awaiting approval.

- H&R Plumbing and Drain Cleaning has completed lining the list of manholes originally provided. Veolia Collections staff is working on generating a list of additional manholes to be lined.

- Ghilotti Bros. has completed most of the original work on the Pipeline Rehabilitation Project including the two additional segments which were approved by the City. Final punch list items and project close-out activities are underway.

- Insituform has completed the lining specified in the plan packages. There are a few minor repairs that need to be made and punch list items that need to be addressed before the project is closed.

- Design of the Coalinga and Barrett Ave. relief sewers to the Chevron ponds to equalize storm flows by West-Yost continues.

- Design of the 23rd St. sanitary sewer replacement project is currently underway by West-Yost.

- A Task Authorization was signed for the completed emergency repair work on Valley View Ave. Harris & Associates continues evaluation of the most efficient way to permanently repair the 84” storm drain line on Valley View Ave, which was temporarily repaired on an emergency basis.

MONTHLY PERFORMANCE INDICATORS

February 2012

Parameter	Monthly Performance Indicators	Limit/Target
Treatment Plant Operations:		
Influent Flow, daily average. MGD	6.35	N/A
Influent BOD_5, avg. mg/L	493	N/A
Influent TSS, avg. mg/L	660	N/A
Effluent BOD_5, avg. mg/L	17.3	30 or less
Effluent TSS, avg mg/L	20.5	30 or less
% BOD Removal	96.0	> 85
% TSS Removal	95.9	> 85
Effluent limit excursions	0	0
Blending events	0	0
Total volume blended, MG	0	0
Odor complaints	1	0
Sludge pumped to drying beds, MG	2.08	N/A
Leachate received, GAL	441,011	N/A
Leachate received YTD (2011), MG	.786	N/A
Sanitary Sewer System		
Sanitary sewer service calls	20	0
Sanitary sewer line cleaned, linear feet	62,217	25,000
Sanitary sewer overflows	3	2(Month)
Sanitary point repairs completed	14	
Sanitary sewer back-ups causing property damage	0	0
Storm Sewer System		
Storm sewer callouts	3	0
Storm sewer point repairs	0	NA

VEOLIA WATER - SANITARY POINT REPAIRS, FEBRUARY 2012						
DATE COMPLETED	LOCATION	UPSTREAM	DOWNSTREAM	DEFECT TYPE	DIAMETER	NOTES
2/10/2012	Bissell Ave	H9SF300	H9MH1717	MAIN	6	Crushed pipe. Excavated under water pipe & repaired 4' of main line. Backfilled and placed hot asphalt.
2/9/2012	2710 Bush	L11SF552	L11MH1621	MAIN	6	Formed, Placed & finished concrete.
2/9/2012	Bush Ave	L11SF552	L11MH1621	MAIN	6	Formed, Placed & finished concrete.
2/8/2012	2710 Bush Ave	L11SF552	L11MH1621	MAIN	6	Demo curb & gutter repaired 5' of main line. Backfilled and prepped for new C & G and asphalt.
2/8/2012	Bush Ave	L11SF552	L11MH1621	MAIN	6	Demo curb & gutter and repaired 5' of main line. Backfilled and prepped for new curb & gutter.
2/6/2012	23rd & Gaynor	J11MH1432	J11MH1438	MAIN	6	Removed & replaced 5' of broken main line. Backfilled and placed hot asphalt.
2/3/2012	Esmond Ave	J10MH2127	J10MH2191	MAIN	6	Removed trench plate & asphalt and placed hot asphalt.
2/2/2012	15Th & Rheem Ave	J10MH2127	J10MH2191	MAIN	6	Pipe off set 2". We removed & replaced 6' of main line & installed two lateral Y's. Backfilled and placed a trench plate.
2/1/2012	Marina Bay	G11SF352	F11MH1939	MAIN	6	Repaired 7' of main line, Installed a new lamp hole. Placed concrete and hot asphalt.

VEOLIA WATER - SANITARY MANHOLE REPAIRS, FEBRUARY 2012				
DATE	**LOCATION**	**MANHOLE ID**	**DEFECT TYPE**	**REPAIR TYPE**
2/13/2012	Potrero Ave	F12MH827	MISC	REPAIR_INVERT

VEOLIA WATER - SANITARY CCTV, FEBRUARY 2012							
DATE SURVEYED	LOCATION	UPSTREAM	DOWNSTREAM	PIPE LENGTH	STRUCTURAL RATING	O AND M RATING	PIPE DIAMETER
2/29/2012	5308 ZARA AVE	I13MH76A	I13MH59	143.1	1.32	1.13	6
2/28/2012	1003 CANAL BLVD	E8MH967	F8MH963	471.2	1.67	2.07	15
2/28/2012	1007 CANAL BLVD	E8MH2401	E8MH967	78.3	1	0	15
2/28/2012	1434 PENNSYLVANIA AVE	J10MH1575	J10MH1764	249	2.07	2.14	6
2/27/2012	1405 VISALIA AVE	K10MH2122	K10MH2195	503.4	1.52	2	6
2/27/2012	230 CUTTING W BLVD	G8MH1361	G8MH1360	524.4	1.5	1.11	8
2/27/2012	100 CUTTING BLVD	G9SF370	G8MH1361	375.5	1.09	1.92	8
2/23/2012	370 35TH S ST	G12MH203	G12MH217	487.9	1.58	2.51	6
2/22/2012	125 11TH S ST	H10SF813	G10MH1837	153.3	1.3	1.07	6
2/22/2012	100 MACDONALD AVE	I9SF282	H9MH1718	96.2	1.32	2	6
2/20/2012	665 37TH ST	I12MH8	I12MH611	343	1.35	1	6
2/20/2012	741 39TH ST	J12MH525	I12MH545	515.1	2	2	6
2/17/2012	3601 ESMOND AVE	J12MH569	J12SF44	540.9	1.53	1.11	6
2/17/2012	4101 SOLANO AVE	J12MH524	I13MH23	609.8	2	2	6
2/10/2012	1501 ESMOND AVE	J10MH2127	J10MH2191	118.8	1.21	1.64	6
2/9/2012	1433 RHEEM AVE	K10MH1740	K10MH1739	458	1.36	2.02	6
2/9/2012	233 BISSELL AVE	H9MH1716	H9MH1717	127.8	1.33	0	10
2/8/2012	233 BISSELL AVE	H9MH1716	H9MH1717	12.4	1	3	10
2/8/2012	234 BISSELL AVE	H9SF300	H9MH1717	231.3	1.33	1.97	6
2/8/2012	100 MACDONALD AVE	I9SF282	H9MH1718	167.2	1.64	2.03	6
2/7/2012	234 BISSELL AVE	H9SF300	H9MH1717	27.4	1.17	2.5	6
2/7/2012	100 MACDONALD AVE	I9SF282	H9MH1718	120.4	2.23	2.04	6
2/7/2012	249 2ND ST	I9SF593	H9MH1717	492.6	1.19	2.06	6
2/6/2012	2220 CUTTING BLVD	G11SF352	F11MH1939	216.3	1.11	2.93	6
2/6/2012	1007 LUCAS AVE	J10MH2265	J9MH1123	273	1.48	2	6
2/3/2012	38 12TH ST	H10SF876	H10MH1802	356.2	1.08	1.98	6
2/3/2012	6 13TH ST	H10SF874	H10MH1903	100.8	1.1	1.92	6
2/2/2012	6029 ORCHARD AVE	D14MH1983	E14MH1982	384.5	1.52	1.22	6
2/2/2012	5919 ORCHARD AVE	D14SF559	D14MH1983	253.8	1.46	1.65	6

VEOLIA WATER - SANITARY CCTV, FEBRUARY 2012							
DATE SURVEYED	LOCATION	UPSTREAM	DOWNSTREAM	PIPE LENGTH	STRUCTURAL RATING	O AND M RATING	PIPE DIAMETER
2/2/2012	842 AMADOR ST	J13MH180	J13MH175	333	1.04	1.65	10
2/1/2012	842 AMADOR ST	J13MH180	J13MH175	318.6	1.07	1.22	10
2/1/2012	900 AMADOR ST	K13MH159	J13MH180	343	1.19	1.52	10
2/1/2012	3128 BARRETT AVE	I12SF642	H12MH266	157.4	1.62	1.96	6
2/1/2012	1029 MACDONALD AVE	I10MH1909	I9MH1706	279.8	2	1.5	12
				9863.4			

VEOLIA WATER - SANITARY SEWER CLEANING, FEBRUARY 2012

DATE COMPLETED	UPSTREAM	DOWNSTREAM	LOCATION	LENGTH CLEANED	DEBRIS TYPE	DEBRIS TYPE 2	DEBRIS TYPE 3	DIAMETER
2/29/2012	H1MH1476	H1MH1414	521 23RD	567	RAGES			6
2/29/2012	G8MH1360	G8MH1359	W. CUTTING	560	H GRI			6
2/29/2012	NO ID	I13MH59	ZARA	250	ROOTS	GRIT	GREASE	6
2/29/2012	E10MH1079	E10MH946	NORTHSHORE	100				10
2/29/2012	E10MH946	E10MH1079	NORTHSHORE DR	63.371				10
2/29/2012	I3MH76	I13MH59	ZARA	485	H ROOT			6
2/29/2012	i13sf966	I13MH57	1 RICHMOND AVE	108	H GRE	GRIT		6
2/29/2012	i13mh56	I13MH54	RICHMOND E AVE	360	H GRE	GRIT		6
2/29/2012	E10MH945	E10MH946	NORTHSHORE DR	117.756	NONE			10
2/29/2012	G10MH1836	G10MH1521	3455 13TH ST	519				6
2/29/2012	G10MH1528	G10MH1529	401 S. 18TH ST	260				6
2/28/2012	G11SF709	G11MH851	25TH ST	304	H GRE		GRIT	6
2/28/2012	F13SF604	E13MH470	4616 CYPRESS AVE	294.066	NONE			6
2/28/2012	H11MH1162	H11MH1161	2637 CHANSLOR AVE	392	GREASE	GRIT	ROOTS	6
2/28/2012	H12SF667	H12MH1041	3829 MACDONALD AVE	319	H GRE	ROCKS	RAGES	6
2/28/2012	G12SF260	G12MH205	305 39TH S ST	400	GREASE	ROOTS	GRIT	6
2/28/2012	I12SF655	H12MH2806	475 39TH ST	137.175				6
2/28/2012	H12SF658	H12MH275	355 43RD ST	330	GREASE	ROOTS	GRIT	6
2/28/2012	H12SF662	H12MH260	3528 NEVIN AVE	330	GREASE	ROOTS	GRIT	6
2/28/2012	J10MH1575	J10MH1764	1402 PENNSYLVINA AVE	1000				6
2/28/2012	H12MH2086	H12MH699	3901 OHIO AVE	555	GREASE		GRIT	8
2/27/2012	G11MH838	G11MH841	2830 FLORIDA AVE	470	H GRE	NONE	GRIT	12
2/27/2012	F11MH1240	F11MH874	HINKLEY AVE	1000	H GRE			8
2/27/2012	K10MH2122	K10MH2195	1405 VALSALYA	507				6
2/27/2012	H11SF334	H11MH856	2635 OHIO AVE	565	H GRE	NONE	GRIT	6
2/27/2012	G9SF370	G8MH1361	CUTTING	575	GRAVEL	ROOTS	H GRIT	6
2/27/2012	J10MH1575	J10MH1764	1420 PENNSYLVANIA AVE	254				6
2/27/2012	H11MH856	H11MH839	CARLSON	400	H GRE	ROOTS	GRIT	6
2/24/2012	G10MH1828	G10MH1531	263 20TH S ST	510	GREASE	ROCKS	H GRIT	6
2/24/2012	G12MH1025	G12MH1023	170 42ND S ST	288.652	H GRE		GRIT	6

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DATE COMPLETED	UPSTREAM	DOWNSTREAM	LOCATION	LENGTH CLEANED	DEBRIS TYPE	DEBRIS TYPE 2	DEBRIS TYPE 3	DIAMETER
2/24/2012	K11MH2137	K11MH2092	2384 MC BRYDE AVE	616	H GRE		GRIT	21
2/24/2012	G12MH203	G12SF259	S.35TH ST	474				6
2/24/2012	J11MH2061	J11MH1431	2558 DOWNER AVE	647	H GRE		GRIT	6
2/24/2012	F11MH1233	F11MH1234	690 31ST S ST	301	GRIT			8
2/24/2012	F11MH1234	F11MH1235	686 30TH S ST	244	GRIT			8
2/24/2012	G9SF370	G8MH1361	CUTTING	575	H GRI		GRAVEL	6
2/24/2012	G12MH203	G12MH217	S.35TH ST	519				6
2/24/2012	J12SF636	J12MH534	859 38TH ST	410	GREASE	GRIT	ROOTS	6
2/23/2012	J11MH1897	J11MH2078	LINCOLN	585	H GRE		GRIT	6
2/23/2012	J11MH1433	J11MH1435	2381 GAYNOR AVE	564	H GRE	ROOTS	GRIT	6
2/23/2012	J12SF55	J12MH524	772 39TH ST	554	H GRE			6
2/23/2012	J12SF623	J12MH498	859 33RD ST	410	H GRE	GRIT	ROOTS	6
2/23/2012	G10MH1514	G10MH1515	CUTTING	300	H GRI	GRAVEL	ROCKS	10
2/23/2012	G10MH1522	G10MH1519	1131 CUTTING BLVD	316	GREASE	ROCKS	H GRIT	6
2/23/2012	G12MH203	G12MH217	37TH ST	487	NONE			6
2/23/2012	G10MH1524	G10MH1522	1131 CUTTING BLVD	300	GREASE		GRIT	6
2/23/2012	H12SF153	G12MH910	100 39TH S ST	215	GREASE		GRIT	6
2/23/2012	G11SF867	G11MH1229	320 22ND S ST	370	H GRE		GRIT	6
2/22/2012	F12MH2598	F12MH816	722 HOFFMAN BLVD	250	GREASE			6
2/22/2012	I11MH1456	I11MH1457	BARRETT AVE	251	GREASE			6
2/22/2012	G12MH203	G12MH217	SO35TH STREET	500	H GRE		GRIT	6
2/22/2012	F12MH816	F12MH1232	700 HOFFMAN BLVD	251	GREASE			6
2/22/2012	G12MH203	G12MH217	SO35TH STREET	500	H GRE		GRIT	6
2/22/2012	H10SF813	G10MH1837	FLORIDA ST	350	ROOTS			6
2/22/2012	E14MH2800	E13MH2038	1001 57TH S ST	833	GREASE	GRIT	ROOTS	6
2/22/2012	I13MH648	I13MH647	635 YUBA ST	130	H GRE			6
2/22/2012	I13MH702	I13MH1779	661 YUBA ST	193	GREASE			6
2/21/2012	J13SF196	K13MH160	837 YUBA ST	265	GREASE			6
2/21/2012	I9SF590	H9MH1715	4TH STREET	495	GREASE			6
2/21/2012	J12SF626	K12MH96	3211 MCBRYDE AVE	542	GREASE			6

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DATE COMPLETED	UPSTREAM	DOWNSTREAM	LOCATION	LENGTH CLEANED	DEBRIS TYPE	DEBRIS TYPE 2	DEBRIS TYPE 3	DIAMETER
2/21/2012	I9SF590	H9MH1715	322 MACDONALD AVE	495	H GRE		GRIT	6
2/21/2012	J12SF633	J12MH566	901 ESMOND AVE	515	GREASE			6
2/21/2012	I12SF1003	H12MH263	3326 BARRETT AVE	570	H GRE		GRIT	6
2/21/2012	J12SF631	K12MH92	2933 MCBRYDE AVE	542	GREASE			6
2/21/2012	J12MH1247	J12MH576	SAN PABLO	50	H GRE		GRIT	6
2/21/2012	K12SF96	J12MH1247	12890 SAN PABLO AVE	535	H GRE	ROOTS	GRIT	6
2/20/2012	I13SF108	I13MH648	YUBA	110	GREASE	ROOTS	GRIT	6
2/20/2012	G10SF865	G10MH1529	318 18TH S ST	362	GRIT	ROOTS	GRIT	6
2/20/2012	J12SF620	J12MH510	861 35TH ST	410	H GRE			6
2/20/2012	J12SF633	J12MH566	977 34TH ST	542	H GRE	ROOTS		6
2/20/2012	H11SF317	H11MH1170	282 BROADWAY	316	GREASE	ROOTS	GRIT	6
2/20/2012	G10SF485	G10MH1526	301 15TH S ST	408	H GRE		GRIT	6
2/20/2012	J12SF92	J12MH569	981 36TH ST	542	H GRE	ROOTS	GRIT	6
2/20/2012	I9SF280	I9MH1699	401 2ND ST	483	H GRE		GRIT	6
2/20/2012	I12MH8	I12MH611	665 37TH ST.	337	ROOTS		GREASE	6
2/20/2012	H12SF659	H12MH274	342 42ND ST	330	GREASE	ROOTS	GRIT	6
2/20/2012	J12MH525	I12MH545	741 39TH ST	515	GREASE			6
2/20/2012	J12SF289	I12MH547	3530 CLINTON AVE	380	GREASE	GRIT	ROOTS	6
2/17/2012	I13MH25	I13MH24	SAN PABLO	43	H GRE		H GRIT	6
2/17/2012	I11SF840	I11MH1459	561 CIVIC CENTER ST	420	GREASE	GRIT	ROOTS	6
2/17/2012	J12MH569	J12SF44	3601 ESMOND AVE	555	GREASE		ROOTS	6
2/17/2012	H13SF130	H13MH625	4417 NEVIN AVE	185	GREASE		GRIT	6
2/17/2012	H12MH597	H12MH276	350 41ST ST	250	GREASE		GRIT	6
2/17/2012	I12SF651	I12MH1069	575 40TH ST	480	H GRE		GRIT	6
2/17/2012	J12MH524	I13MH23	4101 SOLANO AVE	738	GREASE			6
2/16/2012	I11MH1457	I11MH1458	BARRETT AVE	250	GREASE	GRIT	ROOTS	6
2/16/2012	I11MH1456	I11MH1457	BARRETT AVE	250	GREASE	ROCK	GRIT	6
2/16/2012	F11SF948	F11MH2596	FOOTHILL	155	GREASE		GRIT	6
2/16/2012	H10MH1782	H10MH1821	ESPEE	585	H GRE		GRIT	6
2/15/2012	I9MH1613	I9MH1103	4TH STREET	335	H GRE			6

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DATE COMPLETED	UPSTREAM	DOWNSTREAM	LOCATION	LENGTH CLEANED	DEBRIS TYPE	DEBRIS TYPE 2	DEBRIS TYPE 3	DIAMETER
2/15/2012	I9MH1613	I9MH1103	4TH STREET	335	H GRE			6
2/15/2012	I11SF726	I11MH1466	563 HAYES ST	420	H GRE	GRIT	H ROOTS	6
2/15/2012	I9MH1613	I9MH1103	4TH STREET	335	H GRE		GRIT	6
2/15/2012	I9MH2420	I9MH1663	RIPLEY	200	H GRE		H GRIT	6
2/15/2012	H9SF356	G9MH1280	SO6TH STREET	0	H GRE		GRIT	6
2/14/2012	E12MH2422	MH484	SO49TH STREET	625	H ROOT		H GRIT	6
2/14/2012	I12SF647	I12MH1067	3730 ROOSEVELT AVE	483.832	H GRE	ROOTS	GRIT	6
2/13/2012	J12SF622	J12MH567	983 37TH ST	542	H GRE	ROOTS	ROOTS	6
2/13/2012	F12MH827	F12MH2022	POTRERO	620	H GRE	H GRIT	H ROOTS	6
2/13/2012	F12MH826	F12MH827	POTRERO	30	H GRE		H GRIT	6
2/13/2012	L11SF552	L11MH1621	2710 BUSH AVE	120	GREASE			6
2/13/2012	F12SF254	F12MH825	750 CARLSON BLVD	328	H GRE	ROOTS	GRIT	6
2/13/2012	G10SF860	G10MH1827	218 21ST S ST	330	H GRE		H GRIT	6
2/13/2012	I11SF837	I11MH1479	461 28TH ST	410	GREASE	GRIT	ROOTS	6
2/13/2012	J10MH2127	J10MH2191	1501 ESMOND AVE	534	GREASE			6
2/10/2012	H9SF300	H9MH1717	234 BISSELL AVE	215	GREASE			6
2/10/2012	J11MH1436	J11MH2480	23rd burbeck	355	GREASE		GRIT	6
2/10/2012	H12SF273	H12MH1046	3627 NEVIN AVE	218	H GRE		GRIT	6
2/10/2012	K11MH1879	K11MH2743	1250 23RD ST	625	H GRE	ROOTS	GRIT	6
2/9/2012	K11MH2141	K11MH2146	ANDRADE	620	GREASE	ROOTS	GRIT	6
2/9/2012	H9SF759	G9MH1268	S.9TH & OHIO	420	GREASE			6
2/9/2012	I9SF282	H9MH1718	1ST MACDONALD	490	GREASE			6
2/9/2012	H12MH699	H12MH2085	OHIO AVE	555	GREASE	NONE	GRIT	6
2/9/2012	I9SF282	H9MH1718	1ST STREET	490	GRAVEL	RAGES	GRIT	6
2/9/2012	J12SF634	J12MH2807	985 35TH ST	260	H GRE	ROOTS	GRIT	6
2/8/2012	H13MH239	H13MH240	SAN PABLO	52	H GRE		GRIT	6
2/8/2012	H13MH238	H13MH239	SAN PABLO	247	H GRE		GRIT	6
2/8/2012	H9MH1716	H9MH1717	BISSEL	292	ROCKS			10
2/8/2012	J10MH2222	J10MH1561	1767 BURBECK AVE	496.723	GREASE			6
2/8/2012	J12SF635	J12MH574	992 37TH ST	620	H GRE	GRIT	ROOTS	6

VEOLIA WATER - SANITARY SEWER CLEANING, FEBRUARY 2012

DATE COMPLETED	UPSTREAM	DOWNSTREAM	LOCATION	LENGTH CLEANED	DEBRIS TYPE	DEBRIS TYPE 2	DEBRIS TYPE 3	DIAMETER
2/8/2012	J12SF53	J12MH525	741 WILSON AVE	230	H GRE	ROCKS	ROOTS	6
2/8/2012	I9SF282	H9MH1718	1ST STREET	0	H GRE	H GRIT	GRAVEL	6
2/8/2012	I10SF818	I10MH2305	NEVIN AVE	426	GREASE			6
2/8/2012	I9SF745	I9MH1694	425 8TH ST	490	GREASE			6
2/7/2012	k11mh2142	k11mh2474	Humphrey Ave	566	GREASE			8
2/7/2012	H12SF531	H12MH104	465 43RD ST	468.771	H GRE	GRIT	ROOTS	6
2/7/2012	I9MH1708	I9MH1106	460 3RD ST	412	GREASE			6
2/7/2012	I9SF282	H9MH1718	1ST STREET	420	H GRE		GRIT	6
2/7/2012	G10MH1827	G10MH1828	MAINE AVE	270	GREASE			6
2/7/2012	H9MH1716	H9MH1717	BISSELL	300	H GRE	BRICKS	H GRIT	10
2/7/2012	H11SF391	I11MH1483	351 31ST ST	210.076	GREASE	ROOTS	GRIT	6
2/7/2012	I9SF593	H9MH1717	2ND STREET	500	H GRE		GRIT	6
2/7/2012	H11MH1482	H12MH266	351 31ST ST	250.033	GREASE	ROCKS	H GRIT	6
2/6/2012	I9SF282	H9MH1718	1ST STREET	500	H GRE		GRIT	6
2/6/2012	I9SF591	H9MH1716	3RD STREET	500	H GRE		GRIT	6
2/6/2012	H9SF300	H9MH1717	BISSELL	210	GRAVEL	GRAVEL	GRIT	6
2/6/2012	I12SF641	H12MH262	465 35TH ST	470.281	H GRE	ROOTS	GRIT	6
2/6/2012	J10MH2265	J9MH1123	LUCAS AVE	270	RAGES			6
2/6/2012	I11SF838	I11MH1480	463 29TH ST	410	GREASE	GRIT	ROOTS	6
2/4/2012	I9MH2496	I9MH1696	5TH STREET	480	GREASE		GRIT	6
2/2/2012	J11MH2129	J11MH2131	930 23RD ST	166	H GRE	GRAVEL	H GRIT	6
2/2/2012	J9SF409	J9MH1681	PENNSYLVANIA AVE	636	GRIT			6
2/2/2012	J11MH1439	J11MH1442	744 23RD ST	265	H GRE		GRIT	6
2/2/2012	J11MH1438	J11MH1439	770 23RD ST	240	H GRE		GRIT	6
2/2/2012	D14SF559	D14MH1983	5919 ORCHARD AVE	270	GREASE		ROOTS	6
2/2/2012	F13MH2382	F13MH2013	5122 POTRERO AVE	289	H GRE	ROOTS	GRIT	6
2/2/2012	D14MH1983	E14MH1982	6029 ORCHARD AVE	360	ROOTS			6
2/2/2012	H12MH2079	G12MH1179	130 CENTER AVE	261.696	H GRI			10
2/2/2012	H10SF874	H10MH1903	13TH AND MARINA WAY	185	OTHER		GRIT	6
2/2/2012	J13 MH180	J13MH175	842 AMADOR	100	GREASE			10

VEOLIA WATER - SANITARY SEWER CLEANING, FEBRUARY 2012								
DATE COMPLETED	UPSTREAM	DOWNSTREAM	LOCATION	LENGTH CLEANED	DEBRIS TYPE	DEBRIS TYPE 2	DEBRIS TYPE 3	DIAMETER
2/2/2012	J13MH728	J13MH727	772 AMADOR ST	100	GREASE			10
2/1/2012	I10SF826	I10MH2278	404 19TH ST	476	GRIT	GRAVEL		6
2/1/2012	F13MH2013	F13MH2008	5102 POTRERO AVE	532	H GRE	T STOPP	GRIT	6
2/1/2012	I8MH988	I9MH1936	95 NEVIN W AVE	269.78	NONE			8
2/1/2012	J9MH1125	J9MH134	485 LUCAS AVE	1059	GREASE			24
2/1/2012	I9MH392	I9MH1100	226 NEVIN AVE	239.429	GRIT			6
2/1/2012	K10MH1728	K10MH2195	13TH STREET	270	H GRE		H GRIT	8
2/1/2012	K11MH1883	K11MH1881	2375 MARICOPA AVE	239	H GRE		GRIT	6
2/1/2012	K11MH1883	K11MH1881	2375 MARICOPA AVE	239	H GRE		GRIT	6
2/1/2012	I9MH1613	I9MH1103	338 NEVIN AVE	335.767	H GRE			6
2/1/2012	J11MH2078	J11MH1608	968 23RD ST	127	GREASE		GRIT	6
2/1/2012	I9MH1413	I9MH1104	230 NEVIN AVE	334.581	GREASE			6
2/1/2012	H11MH1164	H11MH1493	92 MURDOCK ST	415	H GRE	GRIT	ROOTS	6
				62,217				

VEOLIA WATER - GENERAL MAINTENANCE WORK, FEBRUARY 2012				
DATE	LOCATION	ASSET TYPE	DEFECT TYPE	TECHNICIAN
2/27/2012	218 BISSELL AVE	SCUM	BUILDUP	MJOHNSON
2/27/2012	601 canal blvd, richmond	SCUM	BUILDUP	AZCARRAGA
2/23/2012	601 CANAL BLVD	SCUM	BUILDUP	MJOHNSON
2/16/2012	9TH AND LUCAS	CONST	BUILDUP	MJOHNSON
2/16/2012	BRICK YARD COVE	PUMP	BUILDUP	AZCARRAGA
2/16/2012	BRICKYARD BOOSTER	PUMP	BUILDUP	AZCARRAGA
2/16/2012	A ST. AND NEVIN	PUMP	BUILDUP	AZCARRAGA
2/13/2012	601 canal blvd, richmond	GRIT	BUILDUP	LEWIS
2/8/2012	601 CANAL BLVD	SCUM	BUILDUP	AZCARRAGA
2/6/2012	601 CANAL BLVD	SCUM	BUILDUP	AZCARRAGA
2/2/2012	601 CANAL BLVD	SCUM	BUILDUP	AZCARRAGA
2/1/2012	NEXT TO SALUTES	PUMP	BUILDUP	AZCARRAGA
2/1/2012	SUNSET POINT	PUMP	BUILDUP	AZCARRAGA

VEOLIA WATER - SANITARY GENERAL MAINTENANCE WORK, FEBRUARY 2012				
DATE	LOCATION	ASSET TYPE	DEFECT TYPE	TECHNICIAN
2/27/2012	218 BISSELL AVE	SCUM	BUILDUP	MJOHNSON
2/27/2012	PLANT - 601 CANAL BLVD.	SCUM	BUILDUP	AZCARRAGA
2/23/2012	PLANT - 601 CANAL BLVD.	SCUM	BUILDUP	MJOHNSON
2/16/2012	9TH AND LUCAS	CONST	BUILDUP	MJOHNSON
2/16/2012	BRICK YARD COVE	PUMP	BUILDUP	AZCARRAGA
2/16/2012	BRICKYARD BOOSTER	PUMP	BUILDUP	AZCARRAGA
2/16/2012	NEVIN AND A ST.	PUMP	BUILDUP	AZCARRAGA
2/13/2012	PLANT - 601 CANAL BLVD.	GRIT	BUILDUP	LEWIS
2/8/2012	PLANT - 601 CANAL BLVD.	SCUM	BUILDUP	AZCARRAGA
2/6/2012	PLANT - 601 CANAL BLVD.	SCUM	BUILDUP	AZCARRAGA
2/2/2012	PLANT - 601 CANAL BLVD.	SCUM	BUILDUP	AZCARRAGA
2/1/2012	NEXT TO SALUTE'S REST.	PUMP	BUILDUP	AZCARRAGA
2/1/2012	SUNSET POINT	PUMP	BUILDUP	AZCARRAGA

VEOLIA WATER - STORM SYSTEM GENERAL MAINTENANCE, FEBRUARY 2012

DATE COMPLETED	ASSET TYPE	UPSTREAM	DOWNSTREAM	DEFECT TYPE	DEBRIS TYPE	TECHNICIAN	LOCATION	DEBRIS TYPE 2	COMMENTS
2/16/2012	STORM PUMP STATION			BUILDUP		AZCARRAGA	ENTERPRISE PUMP STATION		TYRONE, AL AND GABE CLEANED STATION WETWELL. A CONFINED SPACE EENTRY WAS REQUIRED TO COMPLETE JOB.
2/15/2012	STORM PUMP STATION			BUILDUP		AZCARRAGA	SOUTH WEST ANNEX		GABE, TYRONE, JAMES AND AL CLEANED STATION WETWELL WITH THE VACTOR.
2/15/2012	STORM PUMP STATION			BUILDUP		AZCARRAGA	BARRETT AVE		GABE, TYRONE, JAMES AND AL CLEANED STATION WETWELL WITH THE VACTOR.
2/15/2012	STORM PUMP STATION			BUILDUP		AZCARRAGA	37TH AND OHIO		GABE, TYRONE, JAMES AND AL CLEANED STATION WETWELL WITH THE VACTOR.
2/15/2012	STORM PUMP STATION			BUILDUP		AZCARRAGA	23rd ST UNDERPASS		GABE, TYRONE, JAMES AND AL CLEANED STATION WETWELL WITH THE VACTOR.
2/3/2012	NO ID	A13CD001	A13CD001	BUILDUP	SEDIMENT_M	LEWIS	MARINA WAY PUMP STATION	TRASH_M	VAC WET WELL AT MARINA WAY PUMP STATION TO REMOVE FOG, TRASH AND DEBRIS. ALSO POWER WASHED AND VAC.