

**CUPERTINO SANITARY DISTRICT
SANITARY BOARD MEETING
WEDNESDAY, JANUARY 02, 2019**

A_G_E_N_D_A

Meeting to be held at 7:00 p.m. in the **Stevens Creek Office Center,
Suite 100, 20863 Stevens Creek Boulevard, Cupertino, California.**

1. ROLL CALL:

2. MINUTES:

- A. APPROVAL OF THE MINUTES OF DECEMBER 19, 2018
- B. APPROVED MINUTES OF DECEMBER 05, 2018

3. PERSONAL PRESENTATIONS:

THIS PORTION OF THE MEETING IS RESERVED FOR PERSONS DESIRING TO ADDRESS THE BOARD ON ANY MATTER NOT ON THE AGENDA. SPEAKERS ARE LIMITED TO THREE (3) MINUTES.

ALL STATEMENTS REQUIRING A RESPONSE WILL BE REFERRED TO STAFF FOR FURTHER ACTION. IN MOST CASES, STATE LAW WILL PROHIBIT THE BOARD FROM MAKING ANY DECISIONS WITH RESPECT TO A MATTER NOT LISTED ON THE AGENDA.

4. CORRESPONDENCE:

San Jose Third Quarter Adjustments

5. MEETINGS:

- A. REGULAR MEETING OF THE SAN JOSE/SANTA CLARA TREATMENT PLANT TECHNICAL ADVISORY COMMITTEE (TAC) TO BE HELD JANUARY 7, 2019 - CANCELLED
- B. REGULAR MEETING OF THE SAN JOSE/SANTA CLARA TREATMENT PLANT ADVISORY COMMITTEE (TPAC) TO BE HELD JANUARY 10, 2019 - CANCELLED
- C. CASA WINTER CONFERENCE TO BE HELD JANUARY 23-25, 2019 IN INDIAN WELLS

6. REPORTS:

NONE

**CUPERTINO SANITARY DISTRICT
SANITARY BOARD MEETING
WEDNESDAY, JANUARY 02, 2019**

7. UNFINISHED BUSINESS:

NONE

8. NEW BUSINESS:

A. SMOKE TESTING WORKSHOP

9. STAFF REPORT:

NONE

10. CLOSED SESSION:

A. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

in accordance with government code section Paragraph (1) of Subdivision (d) of Section 54956.9, existing litigation. Name of Case: County Sanitation District 2-3, West Valley Sanitation District, Cupertino Sanitary District, Burbank Sanitary District, and the City of Milpitas v. The City of San Jose, The City of Santa Clara and Does 1 through 50 inclusive.

11. ADJOURNMENT:

**CUPERTINO SANITARY DISTRICT
MEETING/EVENT SCHEDULE**

JANUARY 2019

01/01: Holiday – Office Closed
 01/02: 1st Regular Meeting
 01/16: 2nd Regular Meeting
 01/23-25: CASA Conference

 (No TAC and TPAC this month)

JANUARY 2019						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Holiday	2 1 st Regular Meeting	3	4	5
6	7	8	9	10	11	12
13	14	15	16 2 nd Regular Meeting	17	18	19
20	21	22	23-25 CASA Conference 23rd-25th			26
27	28	29	30	31		

FEBRUARY 2019

02/06: 1st Regular Meeting
 02/12: TAC
 02/14: TPAC
 02/20: 2nd Regular Meeting

FEBRUARY 2019						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 1 st Regular Meeting	7	8	9
10	11	12 TAC	13	14 TPAC	15	16
17	18	19	20 2 nd Regular Meeting	21	22	23
24	25	26	27	28		

MARCH 2019

03/06: 1st Regular Meeting
 03/12: TAC
 03/14: TPAC
 03/20: 2nd Regular Meeting

MARCH 2019						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 1 st Regular Meeting	7	8	9
10	11	12 TAC	13	14 TPAC	15	16
17	18	19	20 2 nd Regular Meeting	21	22	23
24	25	26	27	28	29	30
31						

The Sanitary Board of the Cupertino Sanitary District convened this date at 7:00 p.m. in the Stevens Creek Office Center, 20863 Stevens Creek Boulevard, Suite 100, Cupertino, California.

1. ROLL CALL:

President Bosworth called the meeting to order and the following proceedings were had to wit: Roll call was taken, with the following members in attendance:

Directors present: Patrick S. Kwok, William A. Bosworth, Angela S. Chen, Taghi S. Saadati, and John M. Gatto.

Staff present: District Manager Richard K. Tanaka, Deputy District Manager Benjamin Porter, and Counsel Marc Hynes.

2. MINUTES & BILLS:

A. On a motion by Director Gatto, seconded by Director Saadati, by a vote of 5-0-0, the minutes of Wednesday, December 5, 2018 were approved.

B. By consensus, the Minutes of Wednesday, November 21, 2018 are to be Noted & Filed.

C. The Board reviewed the November financials for payment. Director Chen discussed categorizing smoke testing as capital expense and adding location to smoke testing labels. Staff indicated that this information will be provided when the Board holds a smoke testing workshop. Directors Saadati and Gatto asked for clarification on emergency invoices, and discussed lateral charges, regular cleaning, and root control. On a motion by Director Chen, seconded by Director Saadati, by a vote of 5-0-0, the payment of bills was approved.

D. The Directors submitted their December 2018 timesheets to Staff.

3. PERSONAL PRESENTATIONS:

There were none.

4. CORRESPONDENCE:

A. The Board reviewed correspondence from County of Santa Clara (CSC) Controller-Treasurer Department – CSC Treasury Investment Portfolio Status. It is to be Noted & Filed.

5. MEETINGS:

There are none.

6. REPORTS:

A. Deputy District Manager Porter reported on the regular meeting of the San Jose/Santa Clara Treatment Plant Technical Advisory Committee (TAC) held December 10, 2018.

- B. Director Gatto reported on the regular meeting of the San Jose/Santa Clara Treatment Plant Advisory Committee (TPAC) held December 13, 2018.

7. UNFINISHED BUSINESS:

- A. Deputy District Manager Porter led a discussion about option for District staff to clear blockages with a consideration to purchase sewer equipment (cutters). Board indicated to staff to continue with status quo. No Board action was taken.

8. NEW BUSINESS:

- A. The Board elected District Officers for 2019, effective January 1, 2019. On motion by Director Gatto, the Slate of Officers for the District were seconded and approved as follows:

President – Patrick S. Kwok, motion seconded by President Bosworth
 Secretary – Angela S. Chen, motion seconded by President Bosworth
 Secretary Pro-Tem – Taghi S. Saadati, motion seconded by President Bosworth

Directors thanked President Bosworth for a job well done.

By concurrency, it was ordered that the Slate of Representatives for the District be approved, effective January 1, 2019, as follows:

TPAC Alternate	Director Gatto President Kwok
Special Districts Association Alternate	Director Bosworth Director Chen
CASA Alternate	President Kwok Director Chen
CSRMA Alternate	Director Bosworth Director Chen
Finance Committee	Director Saadati (Director in Position 3) Director Gatto (Director in Position 4)
TAC	Manager Tanaka & Deputy Manager Porter

- B. The Board discussed the benefits of purchasing a Trimble GEO 7X handheld GPS unit. District Manager Tanaka explained the advantages of having high resolution GPS data. On a motion by Director Kwok, seconded by Director Gatto, by a vote of 5-0-0, the Board approved the purchase of a Trimble GEO 7X unit.

9. STAFF REPORTS:

- A. District Manager Tanaka proposed a smoke testing workshop at the 1/2/2019 Board meeting. Manager Tanaka was directed to prepare an executive summary to present at the meeting.

- B. Deputy District Manager Porter reported on the Monthly Maintenance Report and discussed including the additional water used for spill/SSO cleanups with the Board.

10. CLOSED SESSION:

President Bosworth adjourned the regular meeting session and opened the closed session at 7:58 p.m. in accordance with government code section Paragraph (1) of Subdivision (d) of Section 54956.9, existing litigation. Name of Case: County Sanitation District 2-3, West Valley Sanitation District, Cupertino Sanitary District, Burbank Sanitary District, and the City of Milpitas v. The City of San Jose, The City of Santa Clara, and Does 1 through 50 inclusive.

President Bosworth adjourned the closed session and the regular meeting was called to order at 8:02 p.m.

There was no reportable action.

11. ADJOURNMENT:

On a motion properly made and seconded, at 8:03 p.m. the meeting was adjourned.

Secretary of the Sanitary Board

President of the Sanitary Board

SANITARY BOARD MEETING WEDNESDAY, DECEMBER 05, 2018

The Sanitary Board of the Cupertino Sanitary District convened this date at 7:00 p.m. in the Stevens Creek Office Center, 20863 Stevens Creek Boulevard, Suite 100, Cupertino, California.

1. ROLL CALL:

Directors present: William A. Bosworth, Patrick S. Kwok, Taghi S. Saadati, and John M. Gatto.
Remote Call-in: Angela S. Chen.

Staff present: District Manager Richard K. Tanaka, Deputy District Manager Benjamin Porter, and Counsel Marc Hynes.

Guest present: Sasha Dansky, Mark Thomas Principal

2. MINUTES:

- A. On a motion by Director Gatto, seconded by Director Kwok, by a vote of 5-0-0, the Minutes of Wednesday, November 21, 2018 were approved by a roll call vote.
- B. By consensus, the Approved Minutes of November 07, 2018 were Noted & to be Filed.

3. PERSONAL PRESENTATIONS:

There were none.

4. PUBLIC HEARING:

1. Manager Tanaka gave a presentation on the proposed fee changes.
2. President Bosworth opened the public hearing at 7:02 p.m. Comments from guests: There were none.
3. On a motion by Director Gatto, seconded by Director Kwok, by a roll call vote of 5-0-0, President Bosworth closed the public hearing at 7:03 p.m.
4. Board discussion: Director Gatto discussed timing of payment of fees, installer's agreements, and their relationships. Staff was instructed to identify purpose in section 7200. PURPOSE, of ARTICLE 2: SYSTEM CONNECTION FEES. The Board discussed selectively differentiating pump zones and Staff was directed to amend section 7400. PURPOSE, of ARTICLE 4: PUMP ZONE FEE.
5. On a motion by Director Gatto, seconded by Director Kwok, by a roll call vote of 5-0-0, Resolution No. 123 was approved with amendments to sections 7200 and 7400.

5. CORRESPONDENCE:

There was none.

6. MEETINGS:

- A. Deputy District Manager Porter will attend the Regular Meeting of the San Jose/Santa Clara Treatment Plant Technical Advisory Committee (TAC) to be held December 10, 2018.
- B. Director Gatto plans to attend the Regular Meeting of the San Jose/Santa Clara Treatment Plant Advisory Committee (TPAC) to be held December 13, 2018.

7. REPORTS:

- A. President Bosworth reported on the regular meeting of the Santa Clara County Special Districts Association held December 3, 2018. Topics discussed included: political activism, for which there was no agreement and it was sent back to committee; video contest for high school students; fees to stay @ \$100; and AB2299.

8. UNFINISHED BUSINESS:

There was none.

9. NEW BUSINESS:

- A. Counsel Hynes reported on long form/short form Contractor Agreements and discussed length of contract, termination, and how task orders work. District to proceed with implementation of these agreements.

10. STAFF REPORTS:

- A. Manager Tanaka reported on the status of smoke testing and noted that lots of small defects were discovered; large inflow connection at local pool and suggested future meeting to discuss strategy/ implementation.

11. CLOSED SESSION:

President Bosworth adjourned the regular meeting session and opened the closed session at 7:43 p.m.

- A. The Board discussed Public Employee Appointment in accordance with Government Code Section 54957(B)(1) Public Employee Appointment Title: District Manager-Engineer.

There was no reportable action.

- B. The Board Conducted Conference with Legal Counsel on Existing Litigation in accordance with government code section Paragraph (1) of Subdivision (d) of Section 54956.9, existing litigation. Name of Case: County Sanitation District 2-3, West Valley Sanitation District, Cupertino Sanitary

District, Burbank Sanitary District, and the City of Milpitas v. The City of San Jose, The City of Santa Clara and Does 1 through 50 inclusive.

There was no reportable action.

President Bosworth adjourned the closed session and the regular meeting was called to order at 7:59 p.m.

12. ADJOURNMENT:

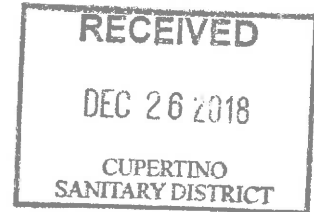
On a motion properly made and seconded, at 8:02 p.m. the meeting was adjourned.

Secretary of the Sanitary Board

President of the Sanitary Board



December 21, 2018



Cupertino Sanitation District
Attn: Richard Tanaka, General Manager
20863 Stevens Creek Blvd, Suite 100
Cupertino, Ca. 95014-2154

Re: Third Quarter Adjustments for FY17-18 O&M and CIP Billings

Dear Richard,

In accordance with Section E.3.b in the 1983 Master Agreement between the City of San Jose-Santa Clara and the Tributary Agencies, "...adjustments in any payment described above shall be on the basis of actual payment to expenditures and shall be made no later than the third quarter billing of the following fiscal year. A statement outlining the method of adjusting costs and actual adjustments shall be included."

Furthermore in Section G of the 1983 Master Agreement between the City of San Jose-Santa Clara and the Tributary Agencies, "...payment of Agency of any moneys to which it may become entitled may be made by off-setting the amount of such moneys against any payments which Agency may be obligated to pay under the provisions of this Agreement or Agency may request reimbursement of any credit balance. The request for cash reimbursement shall be honored by First Parties within forty-five (45) days following receipt of notice."

As a courtesy we are sending this letter to remind you of your options for reimbursement. Attached is a reconciliation for the amounts that represent the "credits" for your FY17-18 O&M and CIP billings. Please notify us both by email and in writing by the close of business on January 3, 2019, if you will request a check for a cash reimbursement or a credit adjustment. If you have any questions, I may be contacted at 408-975-2599.

Sincerely,

Laura Burke, Principal Accountant
City of San Jose, Environmental Services Department, 10th Floor
200 E. Santa Clara St.
San Jose, Ca. 95112
Email : laura.burke@sanjoseca.gov

FY17-18 O&M

**SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT
TREATMENT PLANT OPERATING FUND
ANNUAL TRANSACTIONS REPORT
FISCAL YEAR 2017-18(Period 15)**

	Total	San Jose	Santa Clara	West Valley	Cupertino	Milpitas	District 2-3	Burbank
Beginning Cash Balance - Fd 514	118,234	118,234	-	-	-	-	-	-
- Fd 513	51,942,527	32,264,348	7,602,282	5,307,582	2,570,807	3,361,312	687,311	148,885
Total Beginning Cash Balance	52,060,761	32,382,582	7,602,282	5,307,582	2,570,807	3,361,312	687,311	148,885
Revenue								
Contributions	79,315,902	49,000,000	12,540,285	7,429,044	4,656,583	4,715,269	780,086	194,635
Land Rental	139,762	102,577	21,831	9,661	5,693	-	-	-
Discharge Permits	85,384	48,825	22,925	2,100	1,050	9,170	1,314	-
Transfer-In from Fd 537	-	-	-	-	-	-	-	-
SCVWD Reimb.	-	-	-	-	-	-	-	-
Connection Fee District 2-3	-	-	-	-	-	-	-	-
Interest Income	189,507	85,786	39,952	28,094	13,824	17,403	3,654	794
Miscellaneous	11,494,270	7,277,482	1,743,221	1,037,703	628,966	672,530	107,701	26,667
Total Revenue	91,224,825	56,514,670	14,368,214	8,506,602	5,306,116	5,414,372	892,755	222,096
Dec (Inc) Inventory	0	0	-	-	-	-	-	-
Dec (Inc) Accrued Interest	29,421	29,421	-	-	-	-	-	-
Dec (Inc) Prepaid Expenses	-	-	-	-	-	-	-	-
Dec (Inc) Accounts Receivable	(446,108)	(282,448)	(67,657)	(40,275)	(24,411)	(26,102)	(4,180)	(1,035)
Total Cash Revenue	90,808,138	56,261,643	14,300,557	8,466,327	5,281,705	5,388,270	888,575	221,061
O & M Billing Expenditures	94,722,278	59,972,463	14,365,581	8,551,527	5,183,203	5,542,200	887,548	219,756
Materials issued to Fd 446	(4,897)	(3,100)	(743)	(442)	(268)	(287)	(46)	(11)
Allowance for Bad Debt Expenses	-	-	-	-	-	-	-	-
	94,717,381	59,969,363	14,364,838	8,551,085	5,182,935	5,541,913	887,502	219,745
GASB 68 Deferred Inflows Adj.	33,614,373	33,614,373	-	-	-	-	-	-
OPEB Obligation Cost Adj.	(254,583)	(254,583)	-	-	-	-	-	-
Fd 514 O&M Transfer to Fd 541	-	-	-	-	-	-	-	-
Total Expenditures	128,077,171	93,329,153	14,364,838	8,551,085	5,182,935	5,541,913	887,502	219,745
Decrease (Increase) in Current Liabilities	201,468	127,557	30,555	18,189	11,024	11,788	1,888	467
Decrease (Increase) in Encumbrances	1,557,907	986,373	236,272	140,648	85,249	91,153	14,598	3,614
Decrease (Increase) in L.T. Liab. for Workers' Comp. Claims	43,458	27,515	6,591	3,923	2,378	2,543	407	101
Decrease (Increase) in L.T. Liab. for OPEB Obligation	(33,300,771)	(21,084,050)	(5,050,395)	(3,006,394)	(1,822,218)	(1,948,428)	(312,028)	(77,258)
Total Cash Expenditures	96,579,233	73,386,547	9,587,861	5,707,452	3,459,368	3,698,969	592,367	146,669
Increase (Decrease) in Cash	(5,771,096)	(17,124,905)	4,712,696	2,758,875	1,822,338	1,689,301	296,208	74,392
Rounding Adjustment	1	1	-	-	(1)	1	-	-
Ending Cash Balance	46,289,667	15,257,678	12,314,978	8,066,457	4,393,144	5,050,614	983,519	223,277
Distribution of Ending Cash:								
Fund 514	279,264	279,264	-	-	-	-	-	-
Fund 513	46,010,403	14,978,414	12,314,978	8,066,457	4,393,144	5,050,614	983,519	223,277
Ending Cash Distributed	46,289,667	15,257,678	12,314,978	8,066,457	4,393,144	5,050,614	983,519	223,277
NonCash Accounts:								
Accrued Interest	200,195	200,195	-	-	-	-	-	-
Accounts Receivable	1,949,231	1,251,192	277,826	176,554	102,793	115,889	19,705	5,272
Current Liabilities	(9,554,514)	(6,139,590)	(1,339,916)	(900,003)	(460,021)	(551,294)	(136,070)	(27,620)
Reserve for Encumbrances	(4,061,823)	(2,400,991)	(661,518)	(451,592)	(165,443)	(246,569)	(119,421)	(16,289)
Liability for OPEB	(50,209,412)	(32,144,020)	(7,298,369)	(4,476,387)	(2,694,389)	(2,973,649)	(497,529)	(125,069)
Liability for Workers' Comp. Claims	(2,966,884)	(1,951,493)	(382,691)	(256,932)	(138,373)	(186,043)	(41,901)	(9,451)
O&M Rebudgeted	(80,000)	(50,650)	(12,133)	(7,222)	(4,378)	(4,681)	(750)	(186)
Ending Credits/(Debits)	(18,433,540)	(25,977,679)	2,898,177	2,150,875	1,033,333	1,204,266	207,554	49,934

FY17-18 CIP

CIP Fund 512 - Summary of 3rd Quarter Credit (Debit) / Cash Reconciliation FY17-18

	RWF Projects - Fund 512					Total Credit / (Debit)	SBWR Projects - Fund 512	Grand Total
	Over-all WA	Digester	Blower Improvements	Iron Salt			SBAP	Total Credit / (Debit)
San Jose	\$ (67,426,363)	\$ 5,037,546	\$ (9,783,761)	\$ (100,737)	\$ (72,273,315)	\$ 4,537,097	\$ (67,736,218)	
Santa Clara	\$ 1,112,345	\$ 1,013,649	\$ (2,286,092)	\$ 14,216	\$ (145,882)	\$ 10,140	\$ (135,742)	
WVSD	\$ 562,995	\$ 669,209	\$ (820,688)	\$ 7,296	\$ 418,812	\$ 5,546	\$ 424,358	
Cupertino	\$ 370,665	\$ 550,708	\$ (529,073)	\$ 4,880	\$ 397,180	\$ 3,653	\$ 400,833	
Milpitas	\$ 623,620	\$ 970,525	\$ (827,026)	\$ 8,791	\$ 775,910	\$ 5,310	\$ 781,220	
CSD 2-3	\$ 48,464	\$ 67,874	\$ (64,499)	\$ 615	\$ 52,454	\$ 716	\$ 53,170	
Burbank	\$ 20,201	\$ 47,918	\$ (37,062)	\$ 254	\$ 31,311	\$ 171	\$ 31,482	
Total Credit / (Debit)	\$ (64,688,073)	\$ 8,357,429	\$ (14,348,201)	\$ (64,685)	\$ (70,743,530)	\$ 4,562,633	\$ (66,180,897)	

SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT
TREATMENT PLANT CAPITAL FUND
ANNUAL TRANSACTIONS REPORT
FISCAL YEAR 2017-18 (Period 15)

	Total	San Jose	Santa Clara	West Valley	Cupertino	Milpitas	District 2-3	Burbank
Beginning Cash Balance - Fd 514	-	-	-	-	-	-	-	-
Beginning Cash Balance - Fd 512	100,681,435	62,631,497	17,203,845	7,209,044	4,598,396	8,138,732	641,169	258,752
Total Beginning Cash Balance	100,681,435	62,631,497	17,203,845	7,209,044	4,598,396	8,138,732	641,169	258,752
Revenue:								
Contributions								
1st Qtr	9,604,129	3,090,000	2,869,961	1,238,844	818,754	1,439,962	101,686	44,922
2nd Qtr	38,651,124	13,039,500	11,291,425	4,874,045	3,221,262	5,648,081	400,070	176,741
3rd Qtr	(1,051,353)	-	(735,233)	107,264	57,205	(509,217)	32,626	(3,998)
4th Qtr	25,206,360	13,039,500	5,360,412	2,313,869	1,529,239	2,689,509	189,926	83,905
Total Contributions	72,410,260	29,169,000	18,786,565	8,534,022	5,626,460	9,268,335	724,308	301,570
Debt Service Contribution	164,774	-	-	-	-	45,751	102,146	16,877
Misc Revenue	-	-	-	-	-	-	-	-
Interest Income	731,651	345,212	172,286	74,361	48,001	82,623	6,516	2,652
Total Revenue	73,306,685	29,514,212	18,958,851	8,608,383	5,674,461	9,396,709	832,970	321,099
Calpine/MEC Reimbursement	351,062	224,704	50,174	27,439	18,080	26,277	3,546	843
SRFL Repayments Reimb.	1,373,760	-	687,840	377,108	226,810	21,694	48,746	11,562
USBWR Grants	-	-	-	-	-	-	-	-
LOC Notes Payable	18,489,773	18,489,773	-	-	-	-	-	-
Dec(Inc) Accrued Interest	(200,011)	(200,011)	-	-	-	-	-	-
Total Cash Revenue	93,321,269	48,028,677	19,696,865	9,012,930	5,919,351	9,444,680	885,262	333,504
Expenditures:								
Capital Projects - Schedule 1-a	106,900,199	69,851,797	16,322,592	7,045,792	4,656,573	8,189,624	578,330	255,491
Tfr to Fd 001	-	-	-	-	-	-	-	-
Tfr to Fd 210	190,000	190,000	-	-	-	-	-	-
Tfr to Digester,Iron Salt,Blower Proj.	21,557,468	21,557,468	-	-	-	-	-	-
Tfr to Digester Proj. -Council Memo	16,500,000	10,781,595	2,519,385	1,087,515	718,740	1,264,065	89,265	39,435
Debt Svc Tfr	5,881,001	5,716,226	-	-	-	45,751	102,146	16,877
SRFL Payments	4,419,717	3,059,549	681,034	373,378	224,566	21,480	48,263	11,447
Capital Replacement Allowance	-	-	-	-	-	-	-	-
Total Expenditures	155,448,385	111,156,636	19,523,011	8,506,685	5,599,879	9,520,920	818,004	323,250
Inc (Dec) Accounts Receivable	(710,263)	(464,107)	(108,450)	(46,813)	(30,939)	(54,413)	(3,843)	(1,698)
Dec (Inc) in Beg. Encumbrances	2,299,660	1,513,705	340,074	151,571	100,173	176,177	12,464	5,496
Dec (Inc) in Encumbrances	(67,378,327)	(44,027,020)	(10,287,997)	(4,440,905)	(2,935,000)	(5,161,854)	(364,517)	(161,034)
Dec (Inc) in Accts. Payable	(2,074,681)	(1,355,660)	(316,783)	(136,742)	(90,373)	(158,941)	(11,224)	(4,958)
Dec (Inc) in Acc Int. Payable	44,165	30,573	6,805	3,731	2,244	215	482	114
Dec (Inc) in LOC Acc Int. Payable	(65,882)	(65,882)	-	-	-	-	-	-
Dec (Inc) in Accrued Vac.	(117)	(117)	-	-	-	-	-	-
Dec (Inc) in Prepaid Expenses	-	-	-	-	-	-	-	-
Dec (Inc) in OPEB Oblig	(5,388,757)	(5,388,757)	-	-	-	-	-	-
GASB 68 Deferred Inflows Adj.	5,432,654	5,432,654	-	-	-	-	-	-
OPEB Obligation Cost Adj.	(35,770)	(35,770)	-	-	-	-	-	-
Total Cash Expenditures	87,571,067	66,796,256	9,156,660	4,037,527	2,645,984	4,322,104	451,366	161,170
Increase/(Decrease) in Cash	5,750,202	(18,767,579)	10,540,205	4,975,403	3,273,367	5,122,576	433,896	172,334
Rounding Adjustment	(2)	(2)	-	-	-	-	-	-
Ending Cash Balance	106,431,635	43,863,916	27,744,050	12,184,447	7,871,763	13,261,308	1,075,065	431,086
Distribution of Ending Cash:								
Fund 514	-	-	-	-	-	-	-	-
Fund 512	106,431,635	43,863,916	27,744,050	12,184,447	7,871,763	13,261,308	1,075,065	431,086
Ending Cash Distributed	106,431,635	43,863,916	27,744,050	12,184,447	7,871,763	13,261,308	1,075,065	431,086
Non Cash Accounts:								
Accounts Receivable	22,613	38,422	(23,052)	(1,326)	2,884	5,174	489	22
Accrued Interest Receivable	583,269	583,269	-	-	-	-	-	-
Prepaid Expenses	-	-	-	-	-	-	-	-
Accrued LOC Int. Payable	(65,882)	(65,882)	-	-	-	-	-	-
Accrued SRFL Int. Payable	(23,874)	(16,526)	(3,679)	(2,017)	(1,213)	(116)	(261)	(62)
Accounts Payable	(15,759,940)	(10,334,438)	(2,334,937)	(1,053,215)	(689,886)	(1,203,813)	(105,983)	(37,668)
Accrued Vac, Sick, Comp	(1,976)	(1,976)	-	-	-	-	-	-
Reserve for Encumbrances	(115,220,918)	(74,929,257)	(18,062,730)	(7,885,455)	(5,042,038)	(8,324,507)	(700,914)	(276,017)
Capital Projects - Rebudgeted	(40,653,000)	(26,563,889)	(6,207,307)	(2,679,439)	(1,770,845)	(3,114,426)	(219,933)	(97,161)
Ending Credits/(Debits)	(64,688,073)	(67,426,363)	1,112,345	562,995	370,665	623,620	48,464	20,201

SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT
TREATMENT PLANT CAPITAL FUND -Digester Project
ANNUAL TRANSACTIONS REPORT
FISCAL YEAR 2017-18 (Period 15)

	Total	San Jose	Santa Clara	West Valley	Cupertino	Milpitas	District 2-3	Burbank
Beginning Cash Balance - Fd 512	103,724,103	72,990,518	15,304,896	5,767,918	3,439,637	5,619,123	423,867	178,144
Total Beginning Cash Balance	103,724,103	72,990,518	15,304,896	5,767,918	3,439,637	5,619,123	423,867	178,144
Revenue:								
Contributions								
1st Qtr	369,249	255,963	59,811	20,198	11,912	19,290	1,462	613
2st Qtr	446,251	309,341	72,284	24,410	14,396	23,312	1,767	741
3rd Qtr	7,171,359	5,036,965	1,130,132	379,175	223,713	362,334	27,475	11,565
4th Qtr	266,250	184,565	43,127	14,564	8,589	13,909	1,054	442
Total Contributions	8,253,109	5,786,834	1,305,354	438,347	258,610	418,845	31,758	13,361
Debt Service Contribution	-	-	-	-	-	-	-	-
Misc Revenue	-	-	-	-	-	-	-	-
Tfr in from Capital -Council Memo	16,500,000	10,781,595	2,519,385	1,087,515	718,740	1,264,065	89,265	39,435
Tfr in from Blower -Council Memo	25,000,000	17,026,500	3,978,500	1,428,250	920,750	1,469,250	112,250	64,500
Interest Income	727,521	511,820	107,918	40,322	24,028	39,229	2,960	1,244
Total Revenue	50,480,630	34,106,749	7,911,157	2,994,434	1,922,128	3,191,389	236,233	118,540
SRFL Repayments Reimb.	-	-	-	-	-	-	-	-
Dec(Inc) Accrued Interest	(134,188)	(134,188)	-	-	-	-	-	-
Total Cash Revenue	50,346,442	33,972,561	7,911,157	2,994,434	1,922,128	3,191,389	236,233	118,540
Expenditures:								
Capital Projects - Schedule 1-a	43,447,021	30,117,476	7,037,548	2,376,552	1,401,601	2,269,672	172,050	72,122
Debt Svc Tfr	-	-	-	-	-	-	-	-
SRFL Payments	-	-	-	-	-	-	-	-
Total Expenditures	43,447,021	30,117,476	7,037,548	2,376,552	1,401,601	2,269,672	172,050	72,122
Dec (Inc) in Encumbrances	4,945,397	3,428,149	801,055	270,513	159,539	258,348	19,584	8,209
Dec (Inc) in Encumbrances (SJ Only)	-	-	-	-	-	-	-	-
Dec (Inc) in Accrued Int. Payable	-	-	-	-	-	-	-	-
Total Cash Expenditures	48,392,418	33,545,625	7,838,603	2,647,065	1,561,140	2,528,020	191,634	80,331
Increase/(Decrease) in Cash	1,954,024	426,936	72,554	347,369	360,988	663,369	44,599	38,209
Rounding Adjustment	-	-	-	-	-	-	-	-
Ending Cash Balance	105,678,127	73,417,454	15,377,450	6,115,287	3,800,625	6,282,492	468,466	216,353
Non Cash Accounts:								
Accrued Interest Receivable	579,977	579,977	-	-	-	-	-	-
Reserve for Encumbrances	(97,592,675)	(68,746,380)	(14,313,911)	(5,429,230)	(3,239,981)	(5,295,877)	(399,372)	(167,924)
Digester Projects - Rebudgeted	(308,000)	(213,505)	(49,890)	(16,848)	(9,936)	(16,090)	(1,220)	(511)
Ending Credits/(Debits)	8,357,429	5,037,546	1,013,649	669,209	550,708	970,525	67,874	47,918

Schedule 1-b

SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT TREATMENT PLANT CAPITAL FUND -Blower Improvements ANNUAL TRANSACTIONS REPORT FISCAL YEAR 2017-18 (Period 15)								
	Total	San Jose	Santa Clara	West Valley	Cupertino	Milpitas	District 2-3	Burbank
Beginning Cash Balance - Fd 512	-	-	-	-	-	-	-	-
Total Beginning Cash Balance	-	-	-	-	-	-	-	-
Revenue:								
Contributions								
1st Qtr	335,998	228,833	53,471	19,196	12,375	19,747	1,509	867
2nd Qtr	82,229	44,269	10,344	3,713	2,394	21,049	292	168
3rd Qtr	65,000	44,269	10,344	3,713	2,394	3,820	292	168
4th Qtr	22,615,863	15,402,717	3,599,110	1,292,052	832,947	1,329,142	101,546	58,349
Total Contributions	23,099,090	15,720,088	3,673,269	1,318,674	850,110	1,373,758	103,639	59,552
Debt Service Contribution	-	-	-	-	-	-	-	-
Misc Revenue	-	-	-	-	-	-	-	-
Interest Income	(8,674)	(5,904)	(1,379)	(495)	(319)	(516)	(39)	(22)
Total Revenue	23,090,416	15,714,184	3,671,890	1,318,179	849,791	1,373,242	103,600	59,530
SRFL Repayments Reimb.	-	-	-	-	-	-	-	-
Dec(Inc) Accrued Interest	6,915	6,915	-	-	-	-	-	-
Total Cash Revenue	23,097,331	15,721,099	3,671,890	1,318,179	849,791	1,373,242	103,600	59,530
Expenditures:								
Capital Projects - Schedule 1-a	919,617	626,313	146,348	52,538	33,869	54,046	4,129	2,373
Tfr out to Digester Proj -Council Memo	25,000,000	17,026,500	3,978,500	1,428,250	920,750	1,469,250	112,250	64,500
Total Expenditures	25,919,617	17,652,813	4,124,848	1,480,788	954,619	1,523,296	116,379	66,873
Dec (Inc) in Beg. Encumbrances	(2,299,660)	(1,513,705)	(340,074)	(151,571)	(100,173)	(176,177)	(12,464)	(5,496)
Dec (Inc) in Encumbrances	1,968,638	1,340,760	313,289	112,468	72,505	115,697	8,839	5,079
Dec (Inc) in Accrued Int. Payable	-	-	-	-	-	-	-	-
Total Cash Expenditures	25,588,594	17,479,868	4,098,063	1,441,685	926,951	1,462,816	112,754	66,456
Increase/(Decrease) in Cash	(2,491,263)	(1,758,769)	(426,173)	(123,506)	(77,160)	(89,574)	(9,154)	(6,926)
Rounding Adjustment	(2)	(2)	-	-	-	-	-	-
Ending Cash Balance	(2,491,265)	(1,758,771)	(426,173)	(123,506)	(77,160)	(89,574)	(9,154)	(6,926)
Non Cash Accounts:								
Accrued Interest Receivable	(6,915)	(6,915)	-	-	-	-	-	-
Reserve for Encumbrances	(331,021)	(172,945)	(26,785)	(39,102)	(27,668)	(60,480)	(3,625)	(417)
Blower Projects - Rebudgeted	(11,519,000)	(7,845,130)	(1,833,134)	(658,080)	(424,245)	(676,972)	(51,720)	(29,719)
Ending Credits/(Debits)	(14,348,201)	(9,783,761)	(2,286,092)	(820,688)	(529,073)	(827,026)	(64,499)	(37,062)

Schedule 1-b

SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT TREATMENT PLANT CAPITAL FUND -Iron Salt ANNUAL TRANSACTIONS REPORT FISCAL YEAR 2017-18 (Period 15)								
	Total	San Jose	Santa Clara	West Valley	Cupertino	Milpitas	District 2-3	Burbank
Beginning Cash Balance - Fd 512	3,315,928	2,274,105	451,470	205,755	133,671	226,580	16,448	7,899
Total Beginning Cash Balance	3,315,928	2,274,105	451,470	205,755	133,671	226,580	16,448	7,899
Revenue:								
Contributions								
1st Qtr	26,500	16,955	3,962	1,856	1,246	2,261	156	64
2nd Qtr	17,500	11,197	2,616	1,226	823	1,493	103	42
3rd Qtr	111,086	11,197	40,742	19,662	13,199	23,962	1,641	683
4th Qtr	17,500	11,197	2,616	1,226	823	1,493	103	42
Total Contributions	172,586	50,546	49,936	23,970	16,091	29,209	2,003	831
Debt Service Contribution	-	-	-	-	-	-	-	-
Misc Revenue	-	-	-	-	-	-	-	-
Interest Income	13,528	9,014	1,944	891	581	992	72	34
Total Revenue	186,114	59,560	51,880	24,861	16,672	30,201	2,075	865
SRFL Repayments Reimb.	-	-	-	-	-	-	-	-
Dec(Inc) Accrued Interest	(4,025)	(4,025)	-	-	-	-	-	-
Total Cash Revenue	182,089	55,535	51,880	24,861	16,672	30,201	2,075	865
Expenditures:								
Capital Projects - Schedule 1-a	142,581	91,228	21,317	9,986	6,703	12,166	837	342
Total Expenditures	142,581	91,228	21,317	9,986	6,703	12,166	837	342
Dec (Inc) in Encumbrances	2,779,108	1,778,184	415,504	194,649	130,646	237,141	16,313	6,670
Dec (Inc) in Accrued Int. Payable	-	-	-	-	-	-	-	-
Total Cash Expenditures	2,921,688	1,869,412	436,822	204,635	137,349	249,308	17,150	7,012
Increase/(Decrease) in Cash	(2,739,599)	(1,813,877)	(384,942)	(179,774)	(120,677)	(219,107)	(15,075)	(6,147)
Rounding Adjustment	(1)	(1)	-	-	-	-	-	-
Ending Cash Balance	576,328	460,227	66,528	25,981	12,994	7,473	1,373	1,752
Non Cash Accounts:								
Accrued Interest Receivable	10,784	10,784	-	-	-	-	-	-
Accrued SRFL Int. Payable	-	-	-	-	-	-	-	-
Reserve for Encumbrances	(510,797)	(481,531)	(31,231)	(8,809)	(1,486)	13,350	70	(1,160)
Iron Salt Projects - Rebudgeted	(141,000)	(90,217)	(21,081)	(9,876)	(6,628)	(12,032)	(828)	(338)
Ending Credits/(Debits)	(64,685)	(100,737)	14,216	7,296	4,880	8,791	615	254

Scheduel 1-b

SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT
SOUTH BAY ACTION PLAN CAPITAL FUND
ANNUAL TRANSACTIONS REPORT
FISCAL YEAR 2017-18(Period 15)

	Total	San Jose	Santa Clara	West Valley	Cupertino	Milpitas	District 2-3	Burbank
Beginning Cash Balance Fund 512	12,229,830	6,806,533	536,194	1,738,966	1,144,272	1,726,782	223,059	54,024
Beginning Cash Balance Fund 514	-	-	-	-	-	-	-	-
Total Beginning Cash Balance	12,229,830	6,806,533	536,194	1,738,966	1,144,272	1,726,782	223,059	54,024
Revenue:								
Check Issued for 3rd Qtr Credit	(4,097,082)	-	(10,963)	(1,450,477)	(954,186)	(1,450,511)	(185,780)	(45,165)
AWT SCVWD Contributions	-	-	-	-	-	-	-	-
Miscellaneous Revenue	-	-	-	-	-	-	-	-
USBWR Grant	-	-	-	-	-	-	-	-
Investment Income (Loss)	70,946	45,410	10,140	5,545	3,654	5,310	717	170
Equip. Replacement Transfers	-	-	-	-	-	-	-	-
Total Revenue	(4,026,136)	45,410	(823)	(1,444,932)	(950,532)	(1,445,201)	(185,063)	(44,995)
Fund 539 SRFL Debt Svc Transfer	-	-	-	-	-	-	-	-
Transfer in Fd 531	-	-	-	-	-	-	-	-
Decrease (Increase) in Accrued Interest Receivable	(6,619)	(6,619)	-	-	-	-	-	-
Accrued Grant Receivable	-	-	-	-	-	-	-	-
Total Cash Revenue	(4,032,755)	38,791	(823)	(1,444,932)	(950,532)	(1,445,201)	(185,063)	(44,995)
Expenditures:								
Expenditures (Attachment 1-a)	-	-	-	-	-	-	-	-
Dec (Inc) in Encumbrances	-	2,287	(2,287)	-	-	-	-	-
Transfer out Fd 514 Plant Cap.	-	-	-	-	-	-	-	-
Total Cash Expenditures	-	2,287	(2,287)	-	-	-	-	-
Increase/(Decrease) in Cash	(4,032,755)	36,504	1,464	(1,444,932)	(950,532)	(1,445,201)	(185,063)	(44,995)
Rounding adjustment	-	-	-	-	-	-	-	-
Ending Cash Balance	8,197,075	6,843,037	537,658	294,034	193,740	281,581	37,996	9,029
Distribution of Ending Cash:								
Fund 512	8,197,075	6,843,037	537,658	294,034	193,740	281,581	37,996	9,029
Fund 514	-	-	-	-	-	-	-	-
Ending Cash Distributed	8,197,075	6,843,037	537,658	294,034	193,740	281,581	37,996	9,029
NonCash Accounts:								
Accrued Interest Receivable	56,558	56,558	-	-	-	-	-	-
Accrued Grant Receivable	-	-	-	-	-	-	-	-
Reserve for Encumbrances	-	-	-	-	-	-	-	-
Capital Projects - Rebudget	(3,691,000)	(2,362,498)	(527,518)	(288,489)	(190,087)	(276,271)	(37,279)	(8,858)
Ending Credits/(Debits)	4,562,633	4,537,097	10,140	5,546	3,653	5,310	716	171

Executive Summary Report – Smoke Testing

1 Smoke Testing Basins

The scope of the smoke testing project was approximately 129,100 linear feet (24.5 miles) of sanitary sewer lines in Basins 22, 9, and 4a. these 3 basins ranked highest inflow/infiltration flow from the I/I Report performed during 2013 to 2016. These areas are in the City of Cupertino, City of Saratoga, and unincorporated areas within Santa Clara County. The percentage of smoke tested mains is approximately 12% of the District overall mains.

The overall smoke testing area is shown in Figure 1-1,

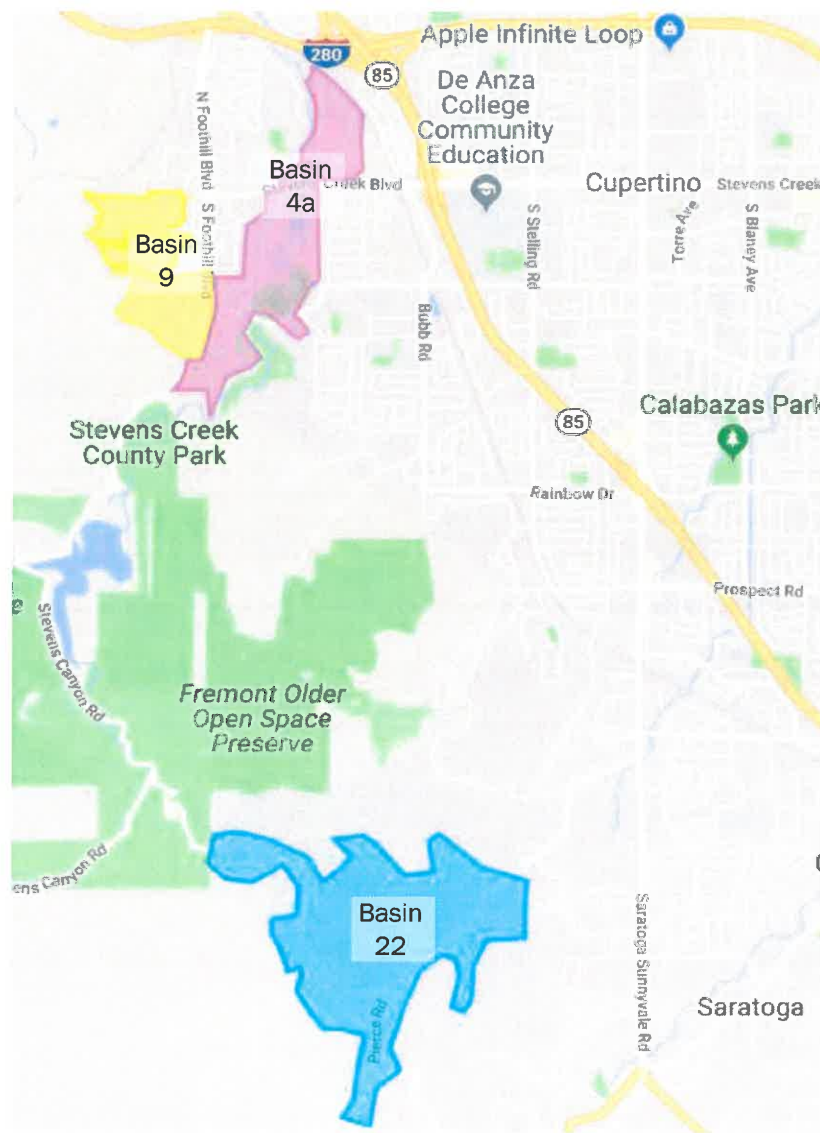


Figure 1-1. Map of Smoke Testing Area

2 Findings

A total of 252 findings were documented and summarized in Table 2-1 and 2-2. Findings included 136 “smoke returns” and 116 “other findings”. Smoke returns were classified as “Severe”, “Moderate” or “Light” per the potential for inflow or infiltration into the collection system. “Other findings” did not have smoke and/or are not necessarily I/I related but was still items of note that may be of interest.

Generally, the number of moderate to severe inflow severity smoke returns per pipe length matched the flow monitoring I/I rankings, with the most being Basin 22, then Basin 9, then Basin 4a.

Table 2-1. Summary of Smoke Testing and Findings

	Basin 22	Basin 9	Basin 4A	Total
Pipe Length (ft)	47,150	32,520	49,430	129,100
Basin Area (Acres)	584	192	302	1078
Number of Homes/Businesses	314	826	768	1,908
No. of Findings	75	82	95	252
Smoke Returns	44	47	45	136
Severe Inflow Severity	4	2	7	13
Moderate Inflow Severity	19	11	9	39
Other Findings	31	35	50	116
Avg. pipe length per smoke return (ft)	1072	692	1098	949
Avg. pipe length per smoke return w/ severe/moderate inflow severity (ft)	2050	2502	3089	2483

Table 2-2 Defect types and inflow severity (noted by L=light, M=moderate and S-severity)

	Basin 22	Basin 9	Basin 4A	Total
Catch Basins	1M, 2S	0	0	3
Area Drains & Down sprouts	1S	1M, 2S	1M,6S	11
Lower Cleanouts (at PL)	11L, 5M, 1S	23L, 2M	25L,6M	73
Upper Cleanouts (Building-private)	2L,3M	6L, 2M	3L	16
Lower Lateral	1L, 2M	3L, 4M	1M	11
Upper Lateral	2L, 1M	1L,2M	1L	7
Manholes	4L, 6M	1	0	11
Mains	1M, 1S		1L	3
House w/o smoke	24	31	42	97
Other Findings not related to I/I	7	4	8	19

Catch Basins

Three catch basins are located at 13792 Pierce Road, 14146 Perata Court 14098 Palomino Way, contributing to approximately 14,000 square feet of paved areas draining into sewer system.

Area Drains and Down sprouts

In Basin 22 and 9, area drains and down sprouts are draining to sewer main from private properties. In Basin 4A, area drains and main problem are at the Black Berry Farm.

Cleanouts

Cleanout defects are significant in numbers, totaling 89. Cleanout defects are either missing, broken, loose cap and /or cover and were mostly rated low inflow severity as an individual unit. However, many "low inflow severity" defects can cumulatively result in large volumes of I/I.

Laterals

Laterals defect typically is a rapid response to infiltration source, majority of causes of these defects are from root intrusions. Laterals that did not have smoke returns can contribute to large volumes of infiltrations.

There were 11 lower lateral defects where smoke was detected. Laterals when a smoke detection is noted indicate lower lateral in need of repair. Based on CCTV investigation, District estimate approximately 13% of the total laterals (250 laterals) should be repaired by lining or replacement due to root intrusion and frequency of maintenance. The approved 10-year capital project includes annual repair of 50 laterals.

House Without Smoke

Houses without smoke were recorded when the house roof vent or cleanout (if found) should have been releasing smoke but did not. The house should have had smoke due to proximity to blower setups and/or surrounded by other houses that did release smoke. There were total of 97 houses without smoke out of approximately 1,900 homes (approximately 5%).

These returns can indicate an issue with the lateral of the house, with the internal venting system or the cleanout(s), or a lateral with a P-trap installed. A house without smoke led to the location of the lateral blockage at 21875 Mt Eden Rd that had signs of overflow from a clean out into the dry creek bed.

Other Findings Not Related to I/I

In Basin 22, 5 manholes were paved over on Orchard Meadow Drive and Mt. Eden Road. District has notified City of Saratoga and they will be raising the manholes. Lower

cleanout at 21875 Mt. Eden Road was plugged and cleanout over creek was leaking. District has notified owner to repair two cleanouts and copied City of Saratoga for follow-up.

For Basin 9, Cleanout Defect No. 3-5 had no smoke with lid open. Two manholes were paved over. District will work with City of Cupertino to raise manholes. There is a sag noted as Sag Defect No. 4-18.

For Basin 4a, two manholes were buried near McClellan Ranch Reserve and three manholes did not match District map. There were two other defects referred to Santa Paula Avenue main. For some undiscernible reason, smoke had trouble travelling these two blocks. District will work with City of Cupertino to uncover buried manholes.

Please see Attachment A for details of each defect.

3 Strategies

Now that the smoke testing for these three basins has been completed and results have been documented in a report entitled, "Cupertino Sanitary District - 2018 Sanitary Sewer Smoke Testing - Basin 22, 9, and 4a". Board of Directors will need to provide a policy or guidance on the best strategy for implementation. Staff has prepared this executive summary report for this workshop discussion.

The following table estimates the maximum potential flow reduction from eliminating inflow/infiltration flows.

Basin	ADF (MGD)	Peak DF (MGD)	Peak WET Flow (MGD)	Max I&I Reduction (MGD)
Site 4A	0.127	0.245	0.500	0.255
Site 9	0.047	0.115	0.232	0.117
Site 22	0.040	0.073	0.383	0.310
Total:	0.214	0.433	1.115	0.682

However, achieving this maximum reduction will be impractical. Based on historical accomplishment of I/I reduction by repairing these types of defects detected from smoke testing, it is possible to achieve at least a reduction of the peaking factor by 50%. This means that the total peak discharge through City of Santa Clara interceptor can be reduced upward by 0.34 MGD.

The above flow rates are based on flow metering data collected during I/I Study which represent about a two-storm event. For a 10-year storm event which City of Santa Clara is requesting, this reduction can be estimated to be in the range of 0.5 MGD out of 1.1 MGD.

Estimated costs to correct these defects are as follows:

Defects	Total	Estimated Cost to Correct Defects	Responsible Party
Catch Basins	3	\$400,000	City of Saratoga
Area Drains & Down sprouts	11	\$20,000	City of Cupertino and private property owners
Lower Cleanouts (at property line)	73	\$220,000	Private property owner, unless District elects to correct problem
Upper Cleanouts (Building-private)	16	\$20,000	Private Property
Lower Lateral	11	\$70,000	District
Upper Lateral	7	\$7,000	Private
Manholes	11	\$55,000	District
Mains	3	\$180,000	City of Cupertino and District
Total		\$972,000	

In addition to above cost, if 250 lower laterals need to be repaired or lined, additional cost is approximately \$1,000,0000. If these laterals are improved, we can estimate additional 0.15 MGD reduction for a total of 0.44 MGD reduction out of 0.682 MGD. For a 10-year storm event, this reduction would be about 0.62 MGD out of 1.1 MGD.

ATTACHMENT A

Basin 22

Figure below and Table 3-3 summarizes the type of smoke returns in Basin 22. The most common types were cleanouts and manholes that were potential I/I sources. These defects did not tend to be of severe inflow severity but can cumulatively result in large volumes of I/I entering the sanitary sewer system.

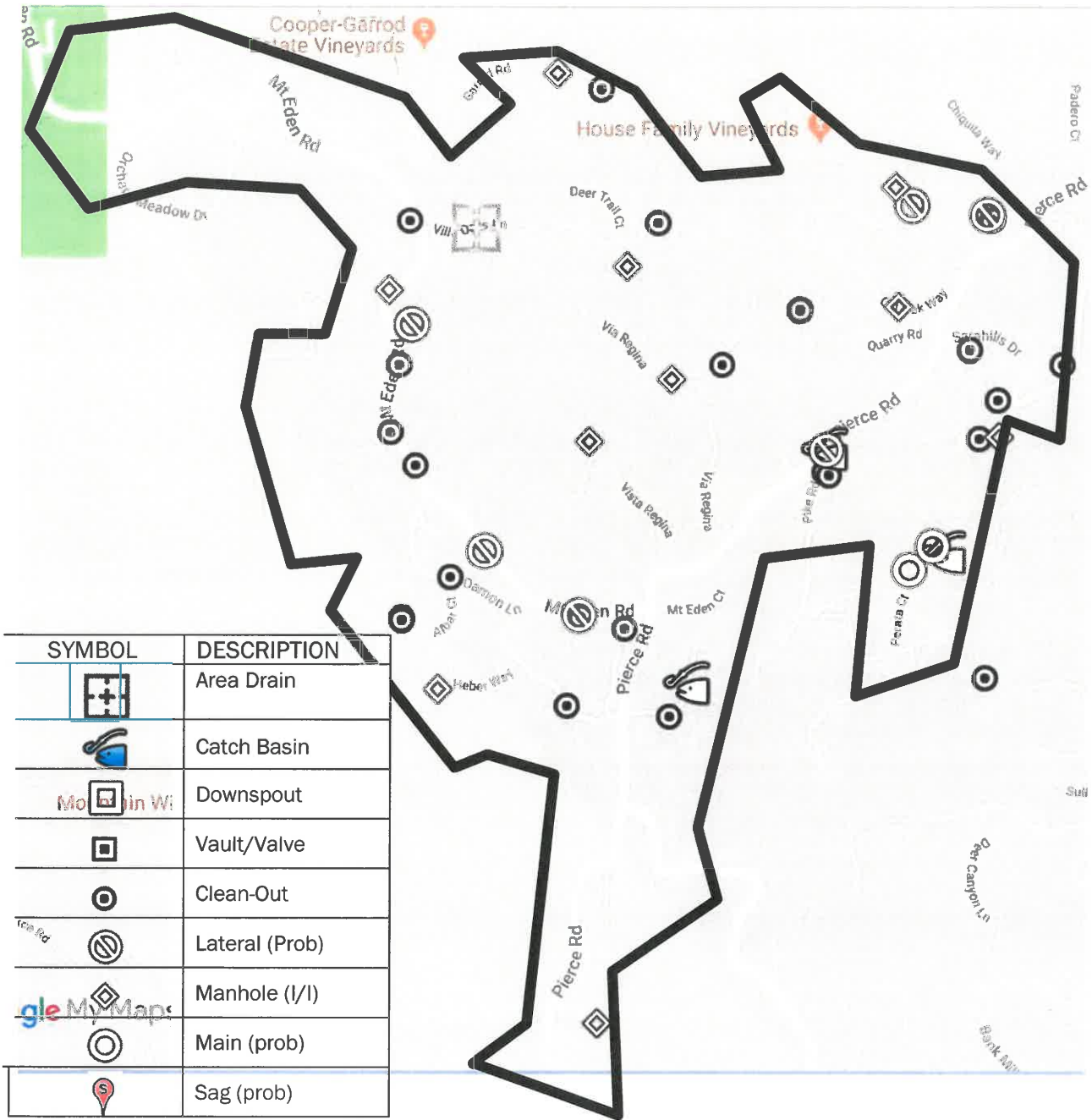


Table 3-3. Basin 22 Smoke Returns with Moderate to Severe Inflow Severity

Defect Name	Address	Defect Type	Inflow severity	Smoke density	Grade	Approx. Drainage (ft ²)	Property type	Cleanout Cover/cap	Inflow	Infil-tration	Notes
4-6	14146 Perata Ct	Main (prob)	Severe	Medium	Below grade	2250	Public		Yes	Yes	may be manhole/ lateral defect; smoke travelling to side of street
4-7	14146 Perata Ct	Catch Basin	Severe	Medium	Below grade	1200	Public		Yes	Yes	may be related to Defect 4-6.
6-2	14098 Palomino Way	Catch Basin	Severe	Medium	At grade	3000	Private	Both on	No	Yes	Low continuous clear-water flow. Rick later saw soapy water.
7-1	22530 Mt Eden Road	Lower Cleanout	Severe	Heavy	Below grade	4000	Private	Both missing	Yes	Yes	
1-1	13360 Old Oak Way	Manhole (l/l)	Moderate	Medium	At grade	300	Public		Yes	No	
1-8	Deer Trail Court & Villa Oaks Lane	Manhole (l/l)	Moderate	Heavy	At grade	160	Public		Yes	No	hole around manhole. End of Deer Trail Ct.
3-1	13792 Pierce Rd	Lower Lateral (Prob)	Moderate	Medium	Below grade	500	Public	Both on	Yes	Yes	
3-5	13792 Pierce Rd	Catch Basin	Moderate	Low	Below grade	8000	Public	Both on	No	Yes	DSCF0217 is a video
4-4	14144 Perata Ct	Main (prob)	Moderate	Heavy	Below grade	75	Private		Yes	Yes	
4-10	21118 Sarahills Dr	Lower Cleanout	Moderate	Heavy	At grade	40	Public	Cap missing	Yes	No	roots, rick called plumber to clean lateral
4-12	21255 Saratoga Hills Rd	Manhole (l/l)	Moderate	Heavy	Below grade	60000	Public		Yes	Yes	dug out 6 in, manhole rings missing mortar
4-13	21588 sarahill Dr	Upper Cleanout	Moderate	Heavy	At grade	128	Private	Cap missing	Yes	No	

Defect Name	Address	Defect Type	Inflow severity	Smoke density	Grade	Approx. Drainage (ft^2)	Property type	Cleanout Cover/cap	Inflow	Infil-tration	Notes
4-14	13489 Chalet Clotilde Dr.	Lower Cleanout	Moderate	Heavy	Below grade	2000	Private	Cover missing	Yes	No	broken pipe, smoke coming from inside cleanout
4-15	13789 Chalet Clotilde Dr.	Upper Lateral (Prob)	Moderate	Medium	Below grade	200	Private		No	Yes	
5-2	14014 Pierce Rd	Upper Cleanout	Moderate	Heavy	At grade	225	Private	Both on	Yes	Yes	cleanout above grade but smoking heavy around; broken pipe
5-7	13991 Vista Regina	Manhole (I/I)	Moderate	Heavy	At grade	600	Public		Yes	No	
5-9	21791 Heber Way	Manhole (I/I)	Moderate	Heavy	At grade	1000	Public		Yes	No	
6-3	14152 Palomino Way	Lower Cleanout	Moderate	Heavy	At grade	2500	Private	Both missing	Yes	No	Metal plate with holes as cover
6-11	13957 Albar Court	Lower Cleanout	Moderate	Heavy	At grade	500	Private	Cap missing	Yes	No	rags instead of cap
7-4	22461 Mt Eden Road	Manhole (I/I)	Moderate	Heavy	At grade	4000	Public		Yes	No	
7-7	22217 Mt Eden Road	Lower Cleanout	Moderate	Medium	Below grade	4000	Private	Both missing	Yes	No	
7-12	21860 Mt Eden Road	Lower Lateral (Prob)	Moderate	Medium	Below grade	5000	Private		No	Yes	
17-17	14684 Pike Rd	Upper Cleanout	Moderate	Medium	Below grade	30	Private	Cap missing	Yes	No	irrigate regularly

Basin 9

Figure below and Table 3-5 summarize the type of smoke returns in Basin 9. The most common type was by far cleanouts. The defects with severe to moderate inflow severity and their details are shown in Table 3-6.

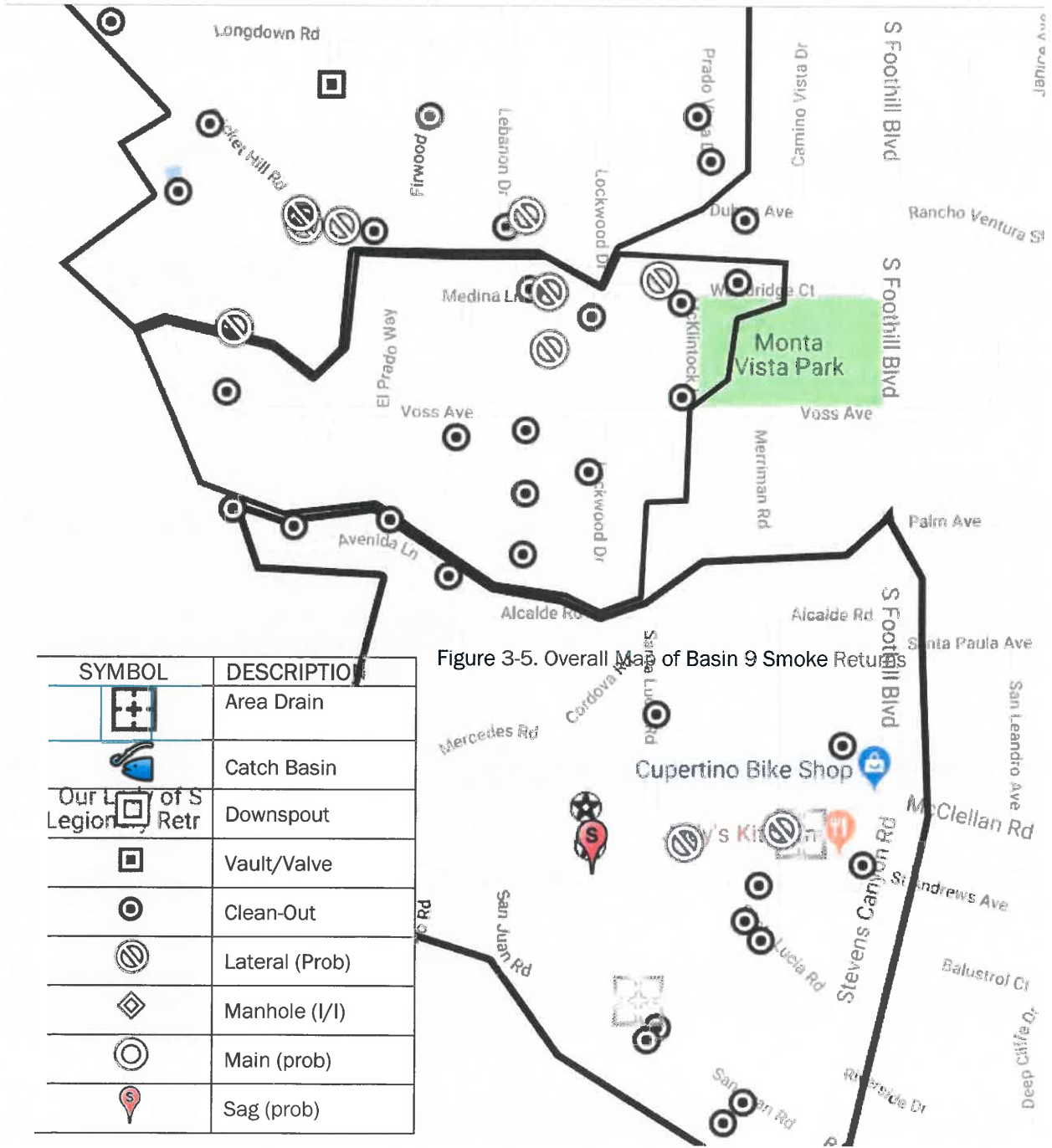


Table 3-5. Basin 9 Smoke Returns with Moderate to Severe Inflow Severity

Defect Name	Address	Defect Type	Inflow severity	Smoke density	Grade	Approx. Drainage (ft^2)	Property type	Cleanout Cover/cap	Inflow	Infil-tration	Notes
4-1	10616 Merriman Rd	Area Drain	Severe	Medium	At grade	175	Private		Yes	No	
4-26	22681 San Juan Rd	Area Drain	Severe	Low	At grade	200	Private		Yes	No	
1-3	22970 Surrey Circle	Upper Cleanout	Moderate	Heavy	Below grade	400	Private	Cap missing	Yes	No	cap not tight pipe low, swimming pool deck
1-4	22920 Cricket Hill Road	Upper Lateral (Prob)	Moderate	Heavy	At grade	2400	Private	Both on	Yes	Yes	
1-5	22917 Cricket Hill Road	Lower Lateral (Prob)	Moderate	Medium	At grade	400	Private	Both on	No	Yes	
1-11	10220 Lebanon Drive	Lower Lateral (Prob)	Moderate	Medium	Below grade	200	Private		No	Yes	
2-19	22721 Medina Lane	Lower Lateral (Prob)	Moderate	Medium	Below grade	200	Private	Both on	Yes	Yes	mushroom cleanout
2-20	10320 Lockwood Drive	Lower Lateral (Prob)	Moderate	Medium	At grade	600	Private		No	Yes	
3-9	10434 Alicia Court	Upper Cleanout	Moderate	Medium	Below grade	120	Private	Both on	Yes	Yes	mushroom low. Adjacent smoking, may be lateral defect.
3-13	10723 Santa Lucia Rd	Lower Cleanout	Moderate	Medium	Below grade	150	Private	Cap missing	Yes	No	in dirt
4-5	10650 Santa Lucia Rd	Upper Lateral (Prob)	Moderate	Heavy	At grade	12	Private	Both on	Yes	Yes	
4-13	22800 Mercedes Rd	Area Drain	Moderate	Medium	Above grade	200	Private		No	Yes	
4-28	22650 San Juan Rd	Lower Cleanout	Moderate	Heavy	Below grade	20	Private	Cap missing	Yes	No	

Basin 4a

Figure below and Table 3-8 summarizes the type of smoke returns in Basin 4a. The most common type was by far cleanouts.

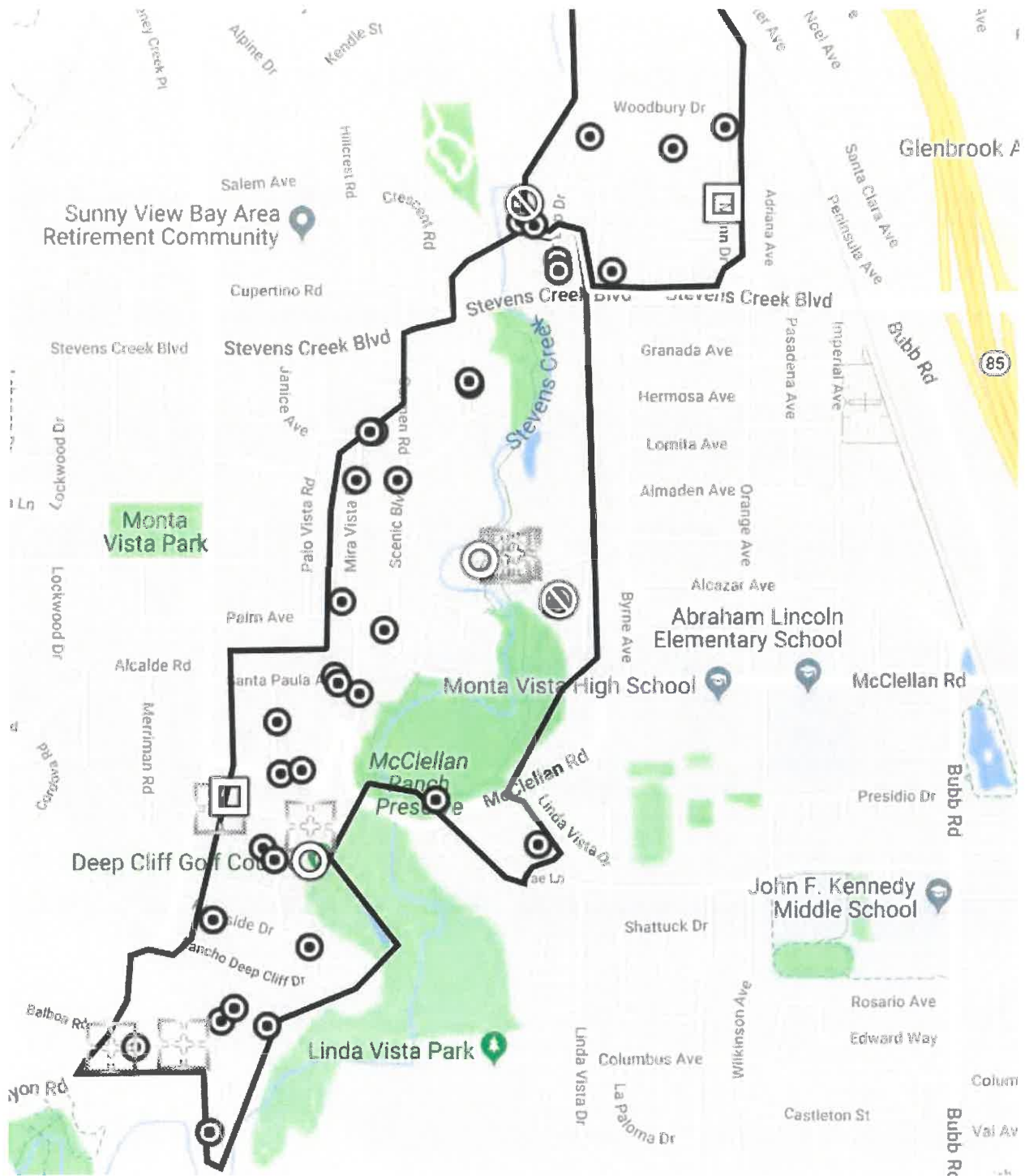


Table 3-8. Basin 4a Smoke Returns with Moderate to Severe Inflow Severity

Defect Name	Address	Defect Type	Inflow severity	Smoke density	Grade	Approx. Drainage (ft^2)	Property type	Cleanout Cover/cap	Inflow	Infil-tration	Notes
1-10	21820 Gardenview Lane	Downspout	Severe	Medium	Above grade	600	Private	N/A	Yes	No	DSCF6224.mov and DSCF6226.mov are videos
4-7	22640 Ricardo Rd	Area Drain	Severe	Heavy	At grade	2000	Private	N/A	Yes	No	maybe mushroom cleanout w drain cover, similar to 22540 Ricardo Rd, but behind fence.
4-10	22540 Ricardo Rd	Area Drain	Severe	Medium	At grade	600	Private	Cover missing	Yes	No	mushroom cleanout w drain cover
5-1	10688 Stevens Canyon Rd	Area Drain	Severe	Medium	Below grade	150	Private	Both on	Yes	Yes	
5-3	22461 St Andrews Ave	Downspout	Severe	Heavy	Above grade	1000	Private	Both on	Yes	No	2 downspouts
6-5	21979 San Fernando Ave	Area Drain	Severe	Medium	At grade	512	Private	N/A	Yes	No	4 area drains around blackberry farm pools
6-13	10728 St Andrews Ave	Main (prob)	Severe	Heavy	At grade	600	Private	N/A	Yes	Yes	trunk near manhole smoking heavy
1-1	22137 Clearcreek Court	Lower Lateral (Prob)	Moderate	Heavy	At grade	150	Private	Cap missing	Yes	Yes	
1-2	22126 Clearcreek Court	Lower Cleanout	Moderate	Heavy	Below grade	40	Private	Cap missing	Yes	No	
1-4	10009 Oakleaf Place	Lower Cleanout	Moderate	Heavy	Below grade	75	Private	Both on	Yes	Yes	broken cover and pipe broken
3-2	21979 San Fernando Ave	Main (prob)	Moderate	Medium	At grade	20	Public	N/A	Yes	Yes	park fence post, interceptor mhs on other side
3-3	22221 McClellan Rd	Lower Cleanout	Moderate	Medium	At grade	100	Public	Both on	Yes	Yes	McClellan Ranch Preserve, drainage area smoking.

Defect Name	Address	Defect Type	Inflow severity	Smoke density	Grade	Approx. Drainage (ft^2)	Property type	Cleanout Cover/cap	Inflow	Infil-tration	Notes
4-1	11092 Canyon Vista Ct	Lower Cleanout	Moderate	Heavy	Below grade	50	Private	Cap missing	Yes	No	
5-11	10060 Scenic Blvd	Lower Cleanout	Moderate	Heavy	Below grade	150	Private	Both on	Yes	Yes	low mushroom cleanout, crack on side of vault
6-9	10040 Phar Lap Drive	Lower Cleanout	Moderate	Medium	Below grade	60	Private	Cap missing	Yes	No	downspout within 15 feet, water would travel through wood chips
6-12	10684 St Andrews Ave	Area Drain	Moderate	Heavy	At grade	225	Private	N/A	Yes	No	under porch