

**SEWER SYSTEM MANAGEMENT PLAN AUDIT FOR
THE CITY OF SAN DIMAS
YEAR 2007-2011**

- May 2, 2006 – State Water Resources Control Board adopted Statewide General Waste Discharge Requirements (WDRs).
- January 1, 2007 – Electronic reporting of Sanitary Sewer Overflows (SSO).
- August 12, 2010 - Sewer System Management Plan (SSMP) adopted by the City Council.
- - First SSMP audit due and every two years thereafter, per subsection D.13.x of the WDR, and Section 10.1 of the City's SSMP.
- Date of SSMP Audit

Elements of the SSMP

1. **Goals** – description of the City's SSMP goals.
2. **Organization** – description of the City's organizational structure
3. **Legal Authority** – description of the City's legal rights, including codes and ordinances, to enforce the requirements of the WDRs.
4. **Operation and Maintenance Program** – outlines the City's maintenance schedule and methodology to ensure proper management and maintenance of the sewer facilities are properly designed and installed.
5. **Design and Performance Provisions** – description of methods by which the Cities ensure that new and rehabilitated sewer facilities are properly designed and installed.
6. **Overflow Emergency Response Plan** – describes how the Cities respond to, report, and document SSO events within the Districts.
7. **Fat, Oil, and Grease (FOG) Control Program** – describes how the Cities prevent or minimize the discharge of fats, oils, and grease into the sewer lines, which is known to contribute to SSO.
8. **System Evaluation and Capacity Assurance** – How we ensure adequate capacity is available for new and existing developments.
9. **Monitoring, Measurement, and Program Modifications** – details the Cities' plan to continually monitor and assess the performance of each element of the SSMP in achieving the goals and objectives of the SSMP and updating them as necessary.
10. **SSMP Program Audit and Certification** – describes the Cities' plans to periodically assess the effectiveness of the SSMP based mainly on the plan's ability in reducing SSO.
11. **Communication Program** – summarizes the City's plans to ensure that all stakeholders are aware of the City's SSMP.

PERFORMANCE MEASURES
Overflow Prevention/Collection System Maintenance

City of San Dimas

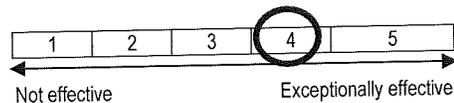
Performance Indicator		2007	2008	2009	2010	2011	2012
1	Total number of pump stations condition assessment scheduled	0.00	0.00	0.00	1.00	1.00	0.00
2	Total miles of scheduled CCTV	0.00	0.00	2.51	0.00	0.00	84.10
3	Total miles of scheduled periodic cleaning	10.04	11.09	11.14	11.32	9.39	12.30
4	Total miles of scheduled cleaning (period & contract CCTV)	10.04	11.09	13.65	11.32	9.39	96.40
5	Total number of pump stations scheduled inspection	832	832	832	832	832	832
6	Total number of scheduled manhole inspection	4,534	4,534	4,534	4,534	4,536	4,536
Workload/Output							
7	Total number of SSO responded to in 12-month period *	9	4	1	1	2	3
8	Total volume of SSO	2,785	1,100	1,000	50	450	4,705
9	Total SSO response time	8.85	3.57	0.00	0.00	2.00	2.06
10	Total miles of sewer line maintained	101.55	101.35	101.35	101.36	101.36	101.36
11	Total miles of scheduled periodic completed	7.94	8.14	7.09	7.66	9.40	0.47
12	Total number of pump stations maintained	8	8	8	8	8	8
13	Total number of pump stations inspection completed	N/A	N/A	N/A	1,082	726	66
14	Total number of manhole inspections completed	4,534	4,534	4,534	4,536	4,557	0
15	Total SSO> 1,000 gallons responded to	0	0	0	0	0	1
16	Total FOG related SSOs responded to	4	0	0	0	1	0
17	Total root related SSOs responded to	4	4	0	0	1	3
18	Total SSOs due to other causes (debris, vandalism, etc)	5	0	1	1	0	0
19	Total number of capacity related SSOs	0	0	0	0	0	0
20	Total number of SSOs due to pump station malfunction	1	0	0	0	0	0
21	Number of SSOs responded to within 2-hours or less	9	4	1	1	2	3
22	Total miles of scheduled CCTV completed	0.00	0.00	2.51	0.00	0.00	0.00
23	Total miles of scheduled cleaning completed	7.94	8.14	9.60	7.66	9.40	0.47
	Total miles of CCTV completed (including contract CCTV)	0.15	0.64	5.02	0.10	0.24	0.03
25	Number of pump stations condition assessment completed	0	0	0	1	1	0
26	Total miles of sewer line cleaned (all including contract CCTV)	11.51	15.10	12.90	14.80	18.55	0.62
27	Total numbers of service request responded to	14	7	2	4	10	4
Efficiency							
28	Number of SSOs per 100 miles of sewer lines	8.86	3.94	1.87	0.99	1.97	2.96
29	Volume of SSO captured	150	275	1,000	5	30	3,000
30	Number of SSOs that reached waters of the United States	5	2	0	0	2	3
31	Average response time per SSO	0.98	0.89	0.00	0.00	1.00	0.69
32	Average number of SSOs per pump station	0.63	0.25	0.00	0.00	0.25	0.38
Effectiveness/Outcome							
33	Percentage of SSOs> 1,000 gallons	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%
34	Percentage of SSO captured	5.39%	25.00%	100.00%	10.00%	6.67%	63.76%
35	Percentage of SSOs due to FOG	44.44%	0.00%	0.00%	0.00%	50.00%	0.00%
36	Percentage of SSOs due to roots	44.44%	100.00%	0.00%	0.00%	50.00%	100.00%
37	Percentage of SSOs due to other causes	11.11%	0.00%	100.00%	100.00%	0.00%	0.00%
38	Percentage of SSOs that reached waters of the United States	55.56%	50.00%	0.00%	0.00%	100.00%	100.00%
39	Percentage of SSOs with response time 2-hours or less	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
40	Percentage of manhole inspection completed	100.00%	100.00%	100.00%	100.04%	100.46%	0.00%
41	Percentage of scheduled CCTV completed	N/A	N/A	100.00%	N/A	N/A	0.00%
42	Percentage of pump stations condition assessment completed	N/A	N/A	N/A	100.00%	100.00%	N/A
43	Percentage of pump stations inspection completed	N/A	N/A	N/A	130.05%	87.26%	7.93%
44	Percentage of schedule cleaning completed	79.08%	73.40%	70.33%	67.67%	100.11%	0.49%
45	SSOs from house laterals not related to mainline sewer problems	1	0	0	0	0	0

* Not including SSOs from house laterals

SEWER SYSTEM MANAGEMENT PLAN AUDIT

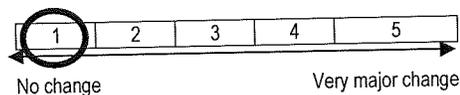
A. Goals and Objectives

To what extent, on a scale of 1 to 5, has the SSMP been effective in reducing SSO in the City?



B. Organization

How would you describe the changes in the City's organizational structure for a scale from 1 to 5? Please specify.



C. Legal Authority

Give the year of adoption of the latest version of the following County Codes/Ordinances.

- 1) County Industrial Waste Ordinance
Date 2002
- 2) City Municipal Code/County Plumbing Code
Date 2008
- 3) City Municipal Code/County Building Code
Date 2008

D. Operation and Maintenance Program

- 1) What was the actual expenditure on each of these elements of the City's (Districts) O&M programs for the last four Fiscal Years?
 - (i) New Equipment Purchase
 - (ii) Capital Improvement – (ACO)
 - (iii) Travel and Training

*2006-07	*2007-08	*2008-09	*2009-10	*2010-11
\$1,978,994	\$431,553	\$863,120	\$1,088,582	\$2,204,329
\$1,733,282	\$4,315,279	\$3,128,645	\$2,867,469	\$1,930,968
\$67,092	\$77,964	\$21,043	\$9,837	\$21,521.09

- 2) Expenditures/Revenues Data
 - (i) Total Budget Amount
 - (ii) Actual Expenditures on Closed Circuit Television (CCTV)
 - (iii) Total O&M expenditure
 - (iv) Sewer Service Charge Rates – Consolidated

\$35,539,000	\$39,673,000	\$40,872,000	\$46,940,000	\$52,085,000
\$1,710,773	\$2,943,652	\$3,700,123	\$2,731,024	\$4,372,768
\$20,357,384	\$24,057,390	\$24,683,502	\$26,711,684	\$29,476,378
\$35.50	\$35.50	\$40.50	\$40.50	\$40.50

*Consolidated Sewer Maintenance Districts' wide data (Districts)

E. Design and Performance Provision

- 1) What dollar amount of the City's (Districts) expenditure went into
 - (i) Sewer Plan Check
 - (ii) Construction Management and Inspection
 - (iii) Project Design

*2006-07	*2007-08	*2008-09	*2009-10	*2010-11
\$191,928	\$163,030	\$179,868	\$161,081	\$157,844
\$407,965	\$615,306	\$376,053	\$365,296	\$632,672
\$277,871	\$319,285	\$308,832	\$420,918	\$486,729

*Consolidated Sewer Maintenance Districts' wide data

- 2) Has there been any major change in the City's design standard? If so, specify and indicate fiscal year in which it occurred?

Yes		No	✓
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Overflow Emergency Response Plan

- (i) Total number of SSOs (private lateral SSO not included).
- (ii) Percentage responded to within 2 hours.

2007	2008	2009	2010	2011
9	4	1	1	2
100	100	100	100	100

G. Fat, Oils, and Grease Control Program

- 1) Was annual report with information on FOG published and/or mailed out to the City's property owners?
- 2) What was the percentage of SSOs due to
 - (i) FOG
 - (ii) Roots
 - (iii) Other causes
- 3) What was the total volume (gal) of SSO that reached waters of the United States?

Yes	✓	No	
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2007	2008	2009	2010	2011
44.4	0	0	0	50
44.4	100	0	0	50
11.1	0	100	100	0
1550	700	0	0	420

H. System Evaluation and Capacity Assurance

- 1) What is the total length (ft) of sewer line rehabilitated by lining or reconstructed?
- 2) What percentage of sewer lines televised was rated as being in severely deteriorated structural condition?
- 3) What percentage of SSO was due to a sewer capacity issue?

2007	2008	2009	2010	2011
0	0	0	310	0
0	0	0.9	0	0
0	0	0	0	0

I. Monitoring, Measurement, and Program Modifications

- 1) When was the last audit conducted per the WDR certified?
- 2) Were any changes recommended?
- 3) Percentage of recommended changes in the last audit adopted.

N/A			
Yes		No	
N/A			

J. SSMP Program Audit and Certification

- 1) What was the overall effectiveness rating of the last audit?
- 2) What is the overall effectiveness rating of this audit?

1	2	3	4	5
poor	fair	good	very good	excellent
1	2	3	4	5
poor	fair	good	very good	excellent

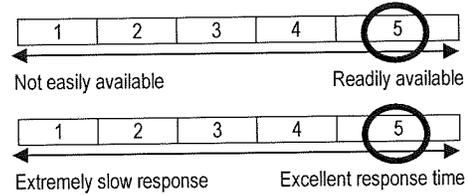
Communication Program

- 1) List all communication methods utilized in disseminating information on FOG to stakeholders with implementation dates. (Done by County)

- 2) To what extent is the County's emergency phone number readily available to the City and City's residents on a scale of 1 to 5

- 3) How responsive is the County (local sewer service provider) in responding to the City's and/or residents sewer issues on a scale of 1 to 5

✓	Method	Date Last Implemented
✓	Newsletter	2011
✓	Door Hangers	on going
✓	Internet	2011
✓	EPD/CSD Posters	on going



L. *List of identified deficiencies and planned corrective actions if any.

There were no known sewer capacity issues or maintenance deficiencies detected during this audit period.

M. COMMENTS

The City/SMD SSMP has been very effective in keeping the number and total volume of SSOs in the City consistently low during the last four years. The response times to SSO events that did occur also met or exceeded our targeted goal of responding to a SSO emergency within two hours or less.

There were also relatively few citizens complaints during the same period.

The SSMP and associated programs, based on all categories of performance indicators shown on page 2, seems to have significantly enhanced the City's sewer collection system management and operations.

N. CERTIFICATION

We, the undersigned, do hereby certify that information contained in this audit report is to the best of our knowledge true.

Name (s)	Position	Signature	Date
Nicholas A. Agbobu, Senior Civil Engineer (County)			5/7/12
Krishna Patel, Director of Public Works (City)			5/15/12
Shari Garwick, Senior Engineer (City)			5/15/12