

MONTECITO SANITARY DISTRICT



2010 ANNUAL SUMMARY REPORT

NPDES No. CA0047899

Order No. R3-2006-0084



Montecito Sanitary District

1042 Monte Cristo Lane
Santa Barbara, CA 93108

A Public Service Agency

General Manager: Diane M. Gabriel, P.E.

PHONE: (805) 969-4200

FAX: (805) 969-9049

E-MAIL: dgabriel@montsan.org

January 28, 2011

California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

SUBJECT: NPDES Permit No. CA 0047899
Order No. R3-2006-0084
Annual Summary Report 2010

Staff of the Regional Board:

In accordance with the requirements of the general provisions of the District's NPDES Permit No. CA0047899, we are transmitting the District's Annual Report for 2010. The monitoring data compiled throughout the year is presented in both tabular and graphic form.

The report includes the names and job titles of District personnel, the Governing Board of Directors and an organizational chart.

As of January 1, 2011, the status of certified operators employed by the District are as follows:

- Brett J. Walker, Operations & Maintenance Manager, # III-6254, exp. date 12/31/2012
- James G. Montijo, Senior Plant Operator, # IV-2306, exp. date 12/31/2012
- William E. Caudill, Jr., Operator, # III-28148, exp. Date 06/30/2012
- Michael Sullivan, Operator, # II-9932, exp. date 12/31/2012

During 2010, all parameters of the effluent quality were within the limits set by the District's discharge permit, with the exception of one Total Coliform 7 day median and one Total Coliform daily exceedance. The monthly Grease and Oil, the Ammonia (nitrogen) and the Total Coliform Organisms analyses were performed by FGL Environmental of Santa Paula, California.

FGL Environmental completed the Annual Effluent / Receiving Water Testing, as well as Sludge Sampling which took place June 7, 2010 through June 11, 2010. Aquatic Bioassay & Consulting Laboratories, Inc. in Ventura, California, performed and completed the chronic and acute bioassay testing. All of the reports were submitted to the Regional Board on August 31, 2010 with the July 2010 monthly report.

On September 28, 2010 Harbor Offshore completed the inspection of the District's ocean outfall pipeline. The entire outfall pipeline was inspected and videotaped. A copy of their inspection report is enclosed. The outfall pipeline was found to be in good condition with no leaks and no evidence of stress or damage of any kind.

The Operations and Maintenance Manual for the Montecito Sanitary District Wastewater Treatment Plant that is on file with your office is still valid for the existing plant, however various updates will be made before January 2012.

The District's comments regarding their Collection System Maintenance and Renovation Program, as required by the District's NPDES permit, are included in the back of the Annual Report on Pages 19, 20 and 21. Also included in the back of the Annual Report is a brief summary of the history of the District, our accomplishments in recent years and goals for the future. Please feel free to contact me if you have any questions or desire additional information.

Sincerely,



Diane Gabriel, P.E.
General Manager/District Engineer

**Montecito Sanitary District
2010 Annual Report**

TABLE OF CONTENTS

<i>MONITORING DATA</i>	<i>PAGE NUMBER</i>
Board of Directors and Staff	1
Organizational Chart	2A and 2B
Influent Daily Flow Data	3
Influent Total Suspended Solids & CBOD ₅	4
Effluent Daily Flow Data	5
Historic Total Annual and Average Daily Flow	6
Monthly Influent / Effluent Flows	7
Avg. Monthly Effluent Temperatures / Monthly Rainfall Totals	8
Effluent Suspended Solids and CBOD ₅	9
Effluent Mass Emissions	10
Effluent pH Data	11
Effluent Grease & Oil	12
Effluent Turbidity	13
Final Effluent Chlorine Residual	14
Effluent Total Chlorine Used	15
Effluent Ammonia / NH ₃ - N	16
Effluent Coliform Data	17
Tabular Data for Annual Report	18A and 18B
Collection System Maintenance and Renovation Program	19 - 22
Mission, History and Future Goals	23 - 25

MONTECITO SANITARY DISTRICT

January 2010 – December 2010

GOVERNING BOARD

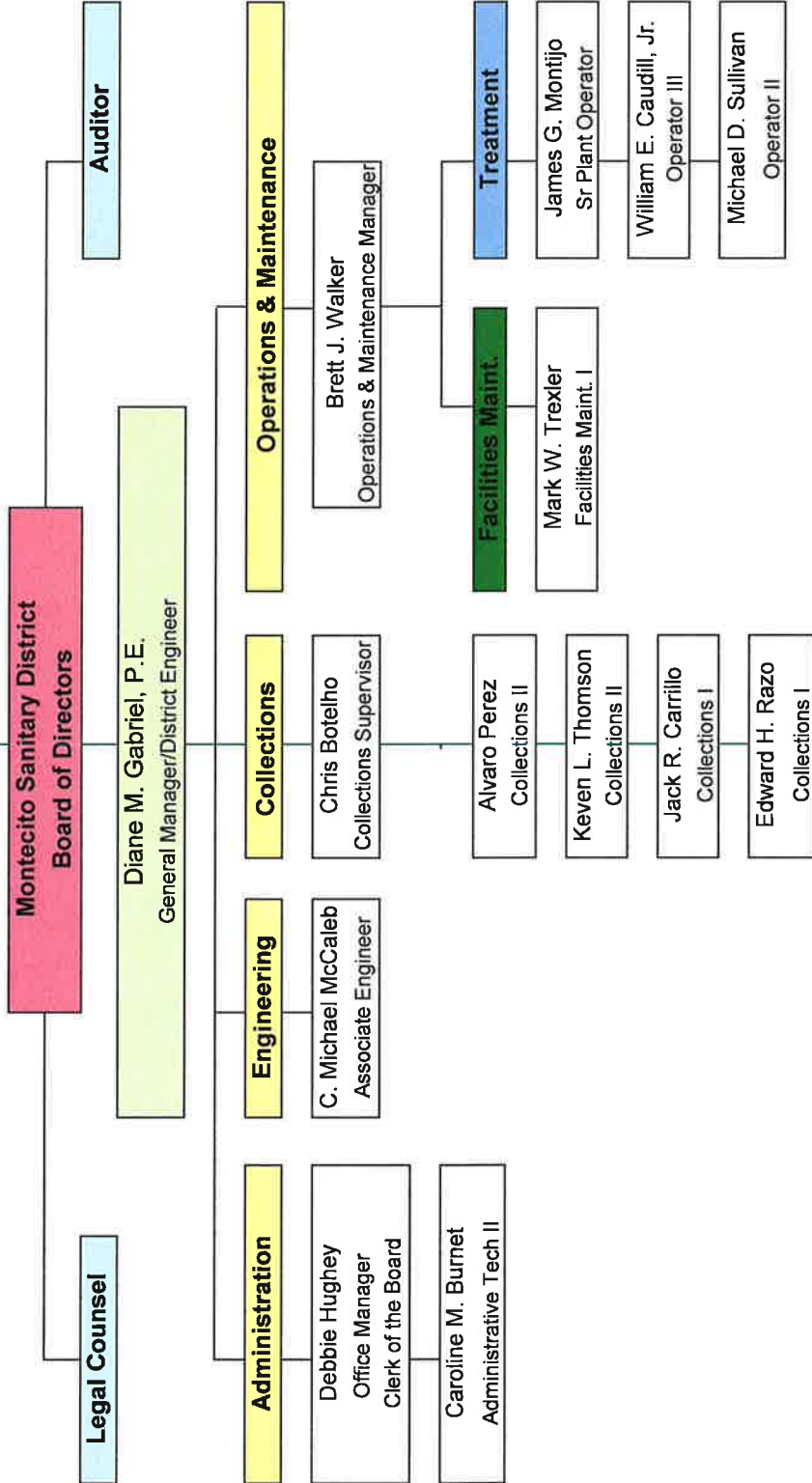
Judith M. Ishkanian	President
Jeff Kerns	Vice President
Charles C. Arnold	Secretary
Ed McAniff	Treasurer
Deirdre M. Cannata	Director

January 2010 – January 2011

STAFF

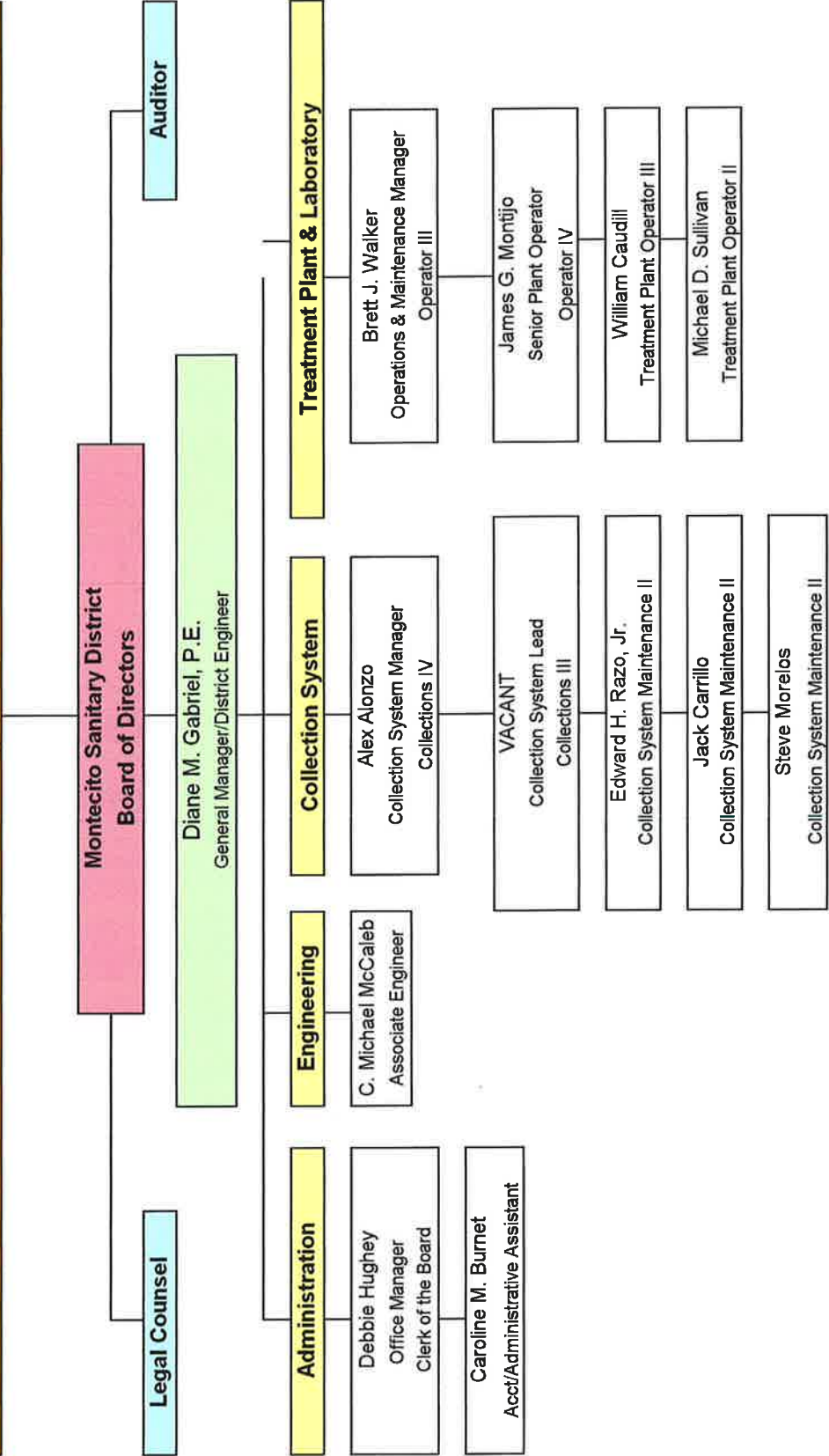
Diane M. Gabriel, P.E.	General Manager/District Engineer
C. Michael McCaleb	Associate Engineer
Debbie Hughey	Office Manager/Clerk of the Board
Caroline M. Burnet	Administrative Tech II
Brett J. Walker	Operations & Maintenance Manager
James G. Montijo	Senior Plant Operator
William E. Caudill	Operator III
Michael D. Sullivan	Operator II
Mark W. Trexler	Facilities Maintenance I <i>(Left District 12/2010)</i>
Chris Botelho	Collections Supervisor <i>(Retired 07/2010)</i>
Alex Alonzo	Collections System Manager <i>(Hired 11/2010)</i>
Alvaro A. Perez	Collections II <i>(Off Duty since 08/2010)</i>
Keven L. Thomson	Collections II <i>(Retired 11/2010)</i>
Jack R. Carrillo	Collections II
Edward H. Razo, Jr.	Collections II
Steve Morelos	Collections II <i>(Hired 01/2011)</i>

Property Owners Within the Montecito Sanitary District



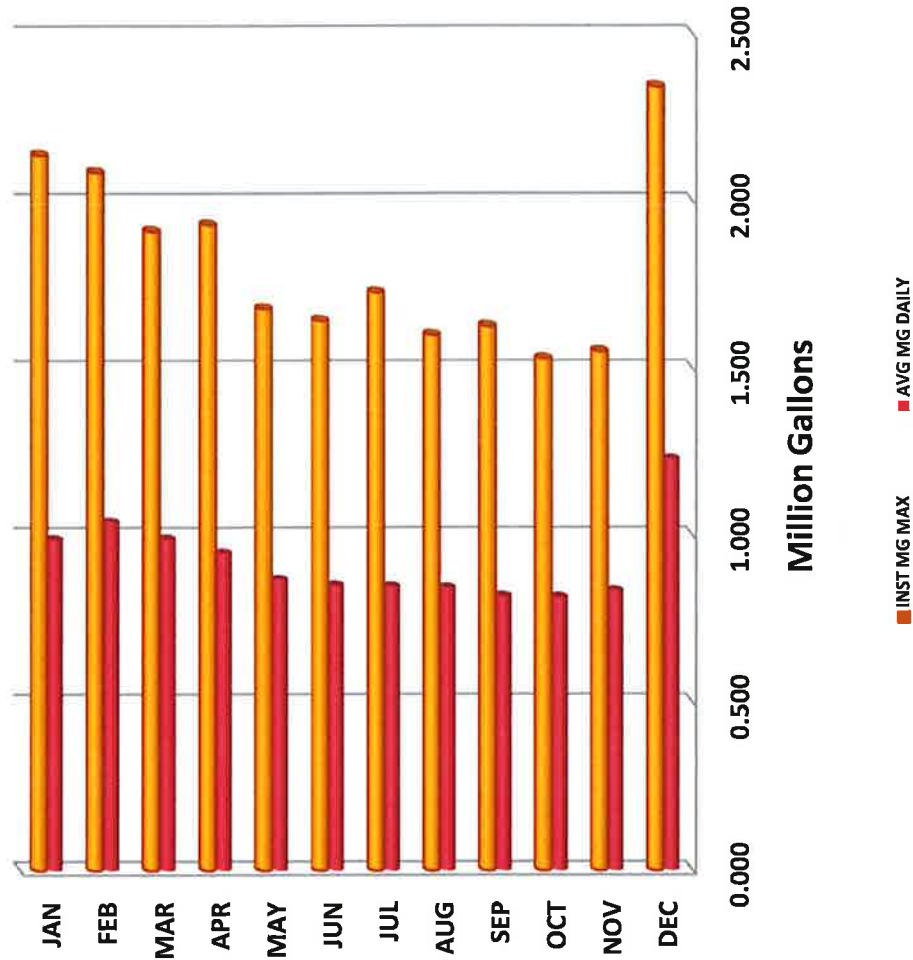
**Montecito Sanitary District Organizational Chart
2010**

Property Owners Within the Montecito Sanitary District



**Montecito Sanitary District Organizational Chart
As of January 2011**

MSD 2010 Influent Daily Flow Data

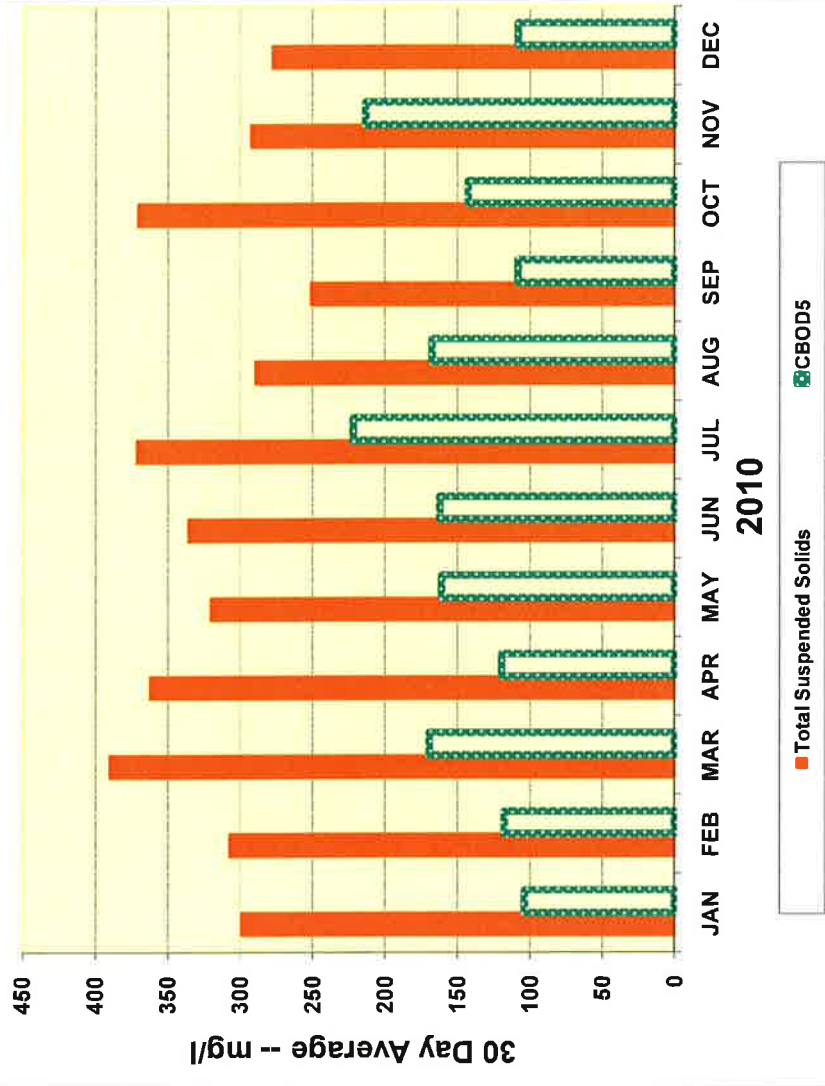


INFLUENT FLOW DATA		
MONTH	INST MG MAX	AVG MG DAILY
JAN	2.141	0.991
FEB	2.089	1.043
MAR	1.913	0.992
APR	1.932	0.950
MAY	1.681	0.870
JUN	1.645	0.853
JUL	1.730	0.850
AUG	1.603	0.846
SEP	1.629	0.821
OCT	1.531	0.818
NOV	1.553	0.837
DEC	2.345	1.232

AVG **1.816** **0.925**

MSD INFLUENT

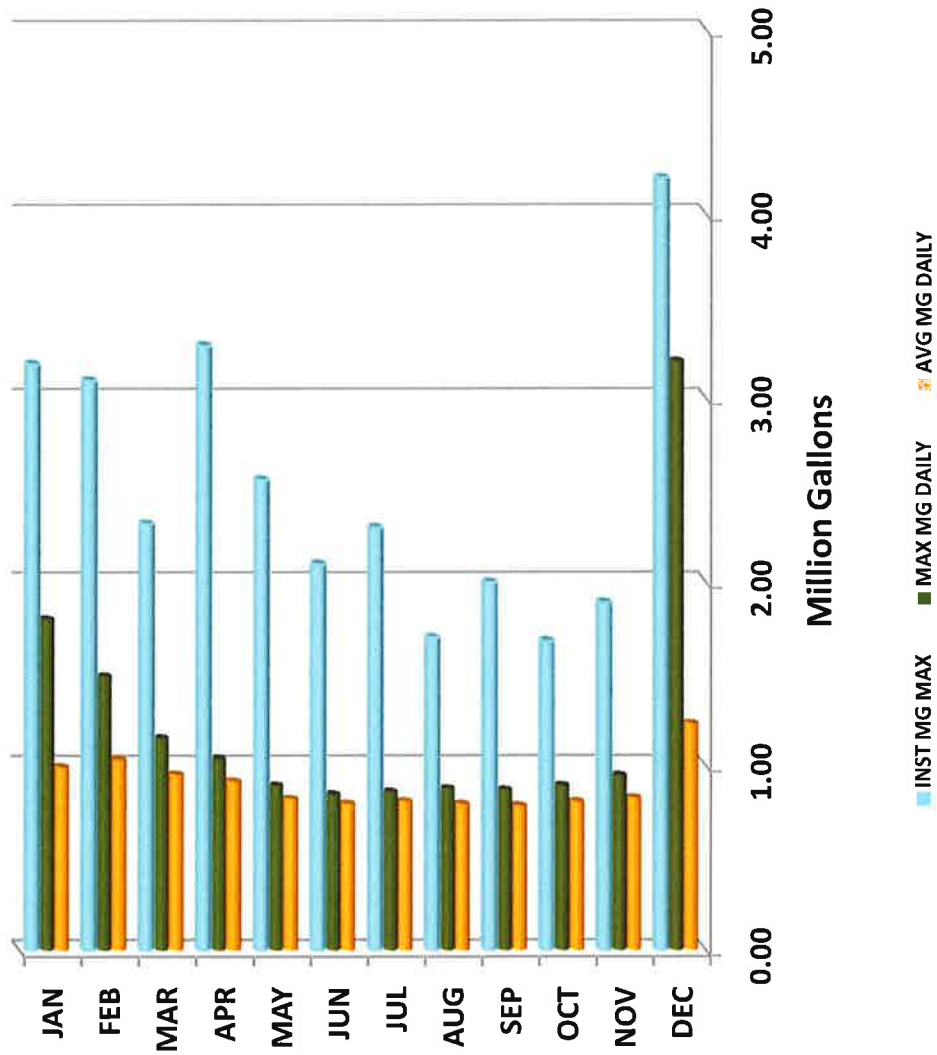
TOTAL SUSPENDED SOLIDS & CBOD₅



INFLUENT		
Month	Total Suspended Solids mg/l	CBOD ₅ mg/l
JAN	299	104
FEB	307	118
MAR	390	169
APR	362	119
MAY	320	161
JUN	336	162
JUL	372	222
AUG	289	168
SEP	251	108
OCT	370	143
NOV	292	213
DEC	278	108

AVG	322	150
------------	------------	------------

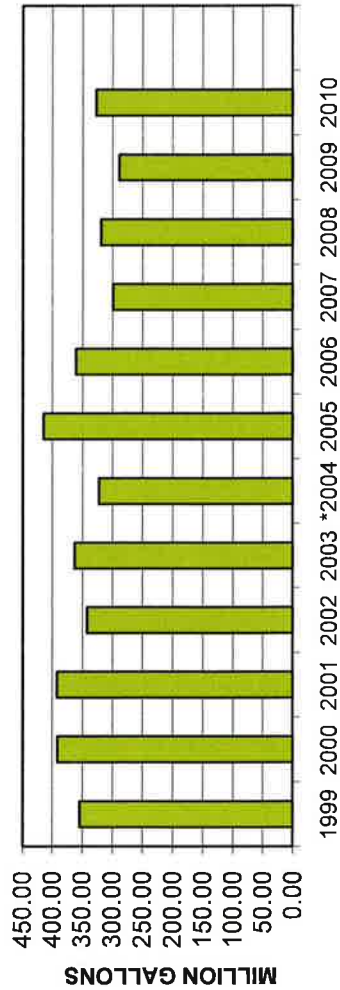
MSD 2010 EFFLUENT DAILY FLOW DATA



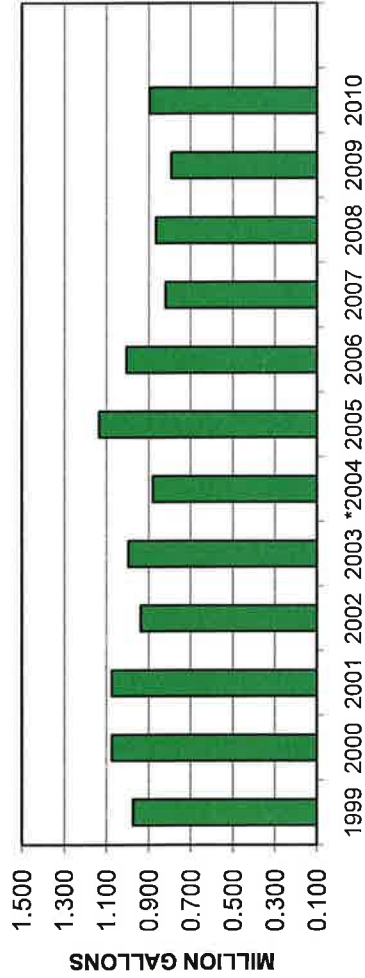
EFFLUENT FLOW DATA			
MONTH	INST MG MAX	MAX MG DAILY	AVG MG DAILY
JAN	3.19	1.80	1.00
FEB	3.10	1.49	1.03
MAR	2.32	1.15	0.95
APR	3.29	1.04	0.92
MAY	2.56	0.89	0.82
JUN	2.10	0.85	0.80
JUL	2.30	0.86	0.81
AUG	1.70	0.88	0.79
SEP	2.00	0.87	0.78
OCT	1.68	0.89	0.81
NOV	1.89	0.95	0.83
DEC	4.20	3.21	1.23

YEARLY AVERAGES		
2.53	1.239	0.897

Historic Total Annual Effluent Flow



Historic Average Daily Effluent Flow

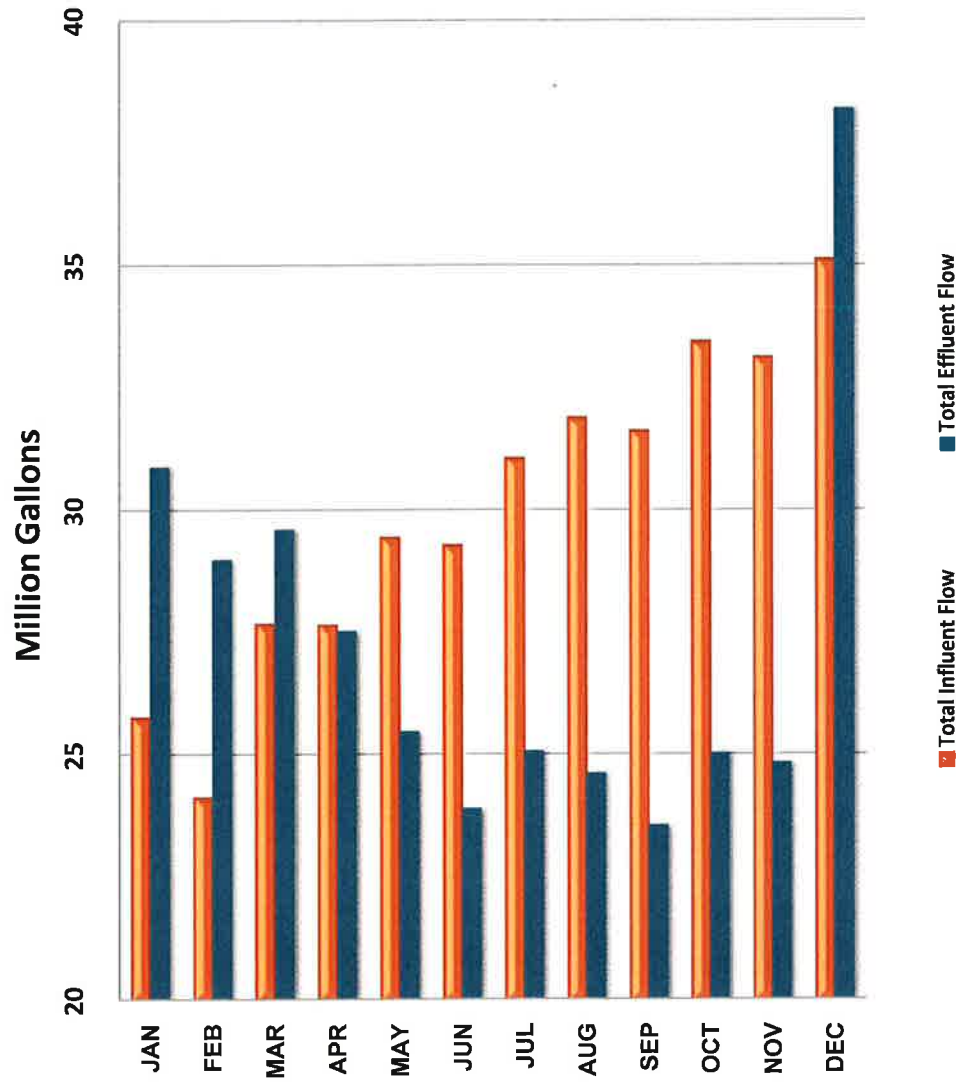


YEAR	AVG DAILY FLOW
1999	0.972
2000	1.074
2001	1.076
2002	0.938
2003	0.996
*2004	0.881
2005	1.135
2006	1.005
2007	0.820
2008	0.867
2009	0.792
2010	0.897

YEAR	TOTAL ANNUAL FLOW
1999	354.80
2000	392.00
2001	392.60
2002	342.20
2003	363.35
*2004	322.40
2005	415.28
2006	361.23
2007	299.15
2008	319.48
2009	289.00
2010	327.40

* = New effluent flow meter on April 10, 2004.

MSD TOTAL MONTHLY INFLUENT AND EFFLUENT FLOWS FOR 2010

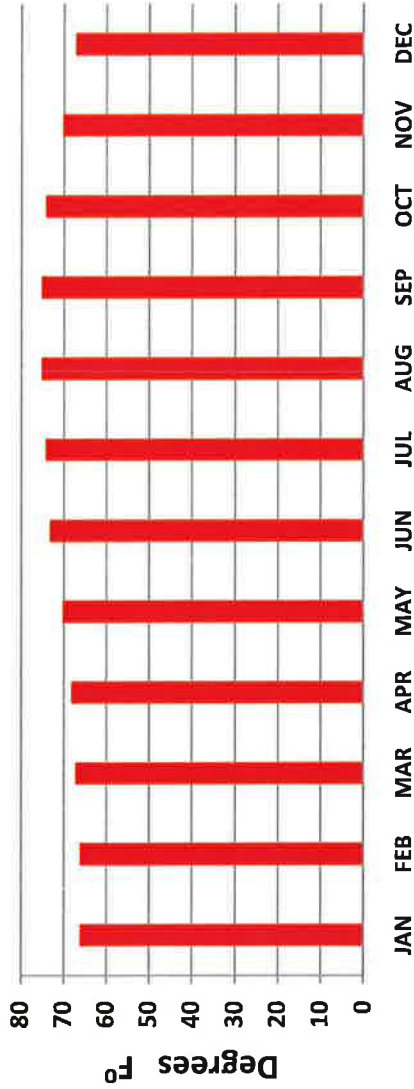


Note: Influent and Effluent flow variations are due to process recycled flows and process cleaning or maintenance draining water back to the headworks. Additionally, two different flow measuring devices are used "in-pipe" (Influent) and open channel (Effluent).

Month	Total Influent Flow	Total Effluent Flow
JAN	25.765	30.859
FEB	24.133	28.964
MAR	27.675	29.584
APR	27.655	27.503
MAY	29.441	25.444
JUN	29.282	23.868
JUL	31.063	25.046
AUG	31.882	24.591
SEP	31.620	23.529
OCT	33.443	25.005
NOV	33.121	24.811
DEC	35.112	38.175
Total	360.2	327.4

Million Gallons

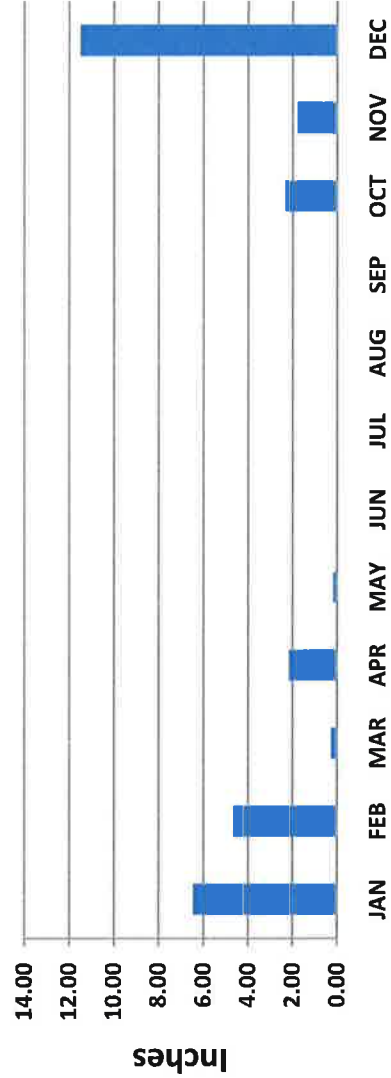
2010 Average Monthly Effluent Temperatures



Month	AVG Temp Degrees F °
JAN	66
FEB	66
MAR	67
APR	68
MAY	70
JUN	73
JUL	74
AUG	75
SEP	75
OCT	74
NOV	70
DEC	67

AVG	70
-----	----

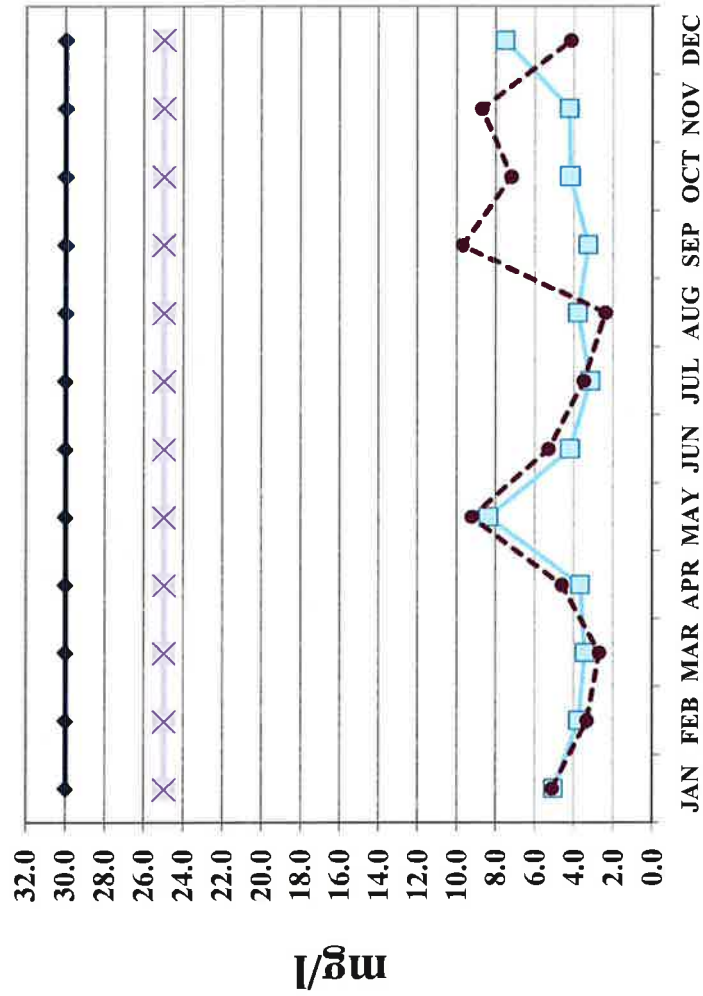
2010 Monthly Rainfall Totals



Month	Rainfall Inches
JAN	6.46
FEB	4.62
MAR	0.26
APR	2.16
MAY	0.17
JUN	0.00
JUL	0.00
AUG	0.00
SEP	0.00
OCT	2.31
NOV	1.76
DEC	11.49

TOTAL	29.23
-------	-------

2010 EFFLUENT Suspended Solids & CBOD₅

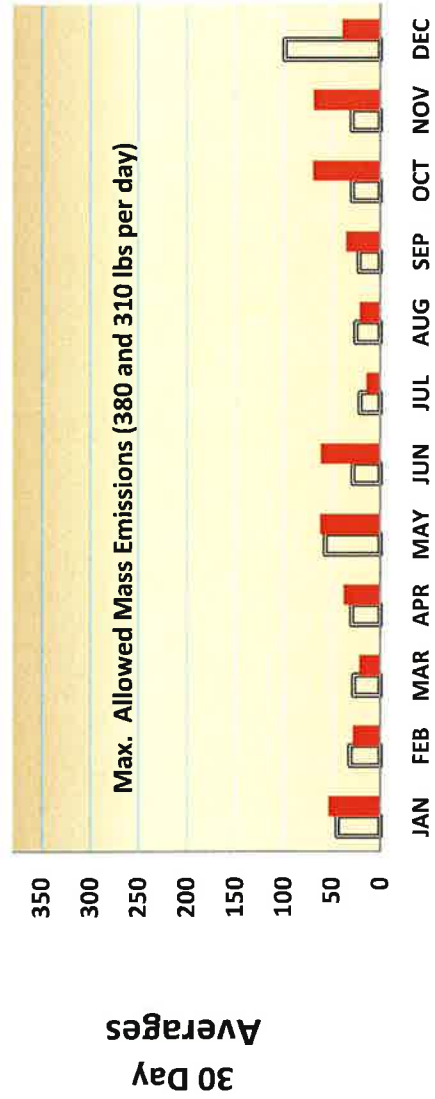


Month	NPDES SS Limit	Suspended Solids	NPDES CBOD ₅ Limit	CBOD ₅
	mg/l	mg/l	mg/L	mg/l
JAN	30.0	5.0	25.0	5.1
FEB	30.0	3.8	25.0	3.4
MAR	30.0	3.4	25.0	2.7
APR	30.0	3.7	25.0	4.6
MAY	30.0	8.4	25.0	9.2
JUN	30.0	4.2	25.0	5.3
JUL	30.0	3.2	25.0	3.5
AUG	30.0	3.8	25.0	2.4
SEP	30.0	3.3	25.0	9.7
OCT	30.0	4.2	25.0	7.2
NOV	30.0	4.2	25.0	8.7
DEC	30.0	7.5	25.0	4.2

Monthly Average 4.6

Monthly Average 5.5

MSD Effluent Mass Emissions Suspended Solids and CBOD₅



2010

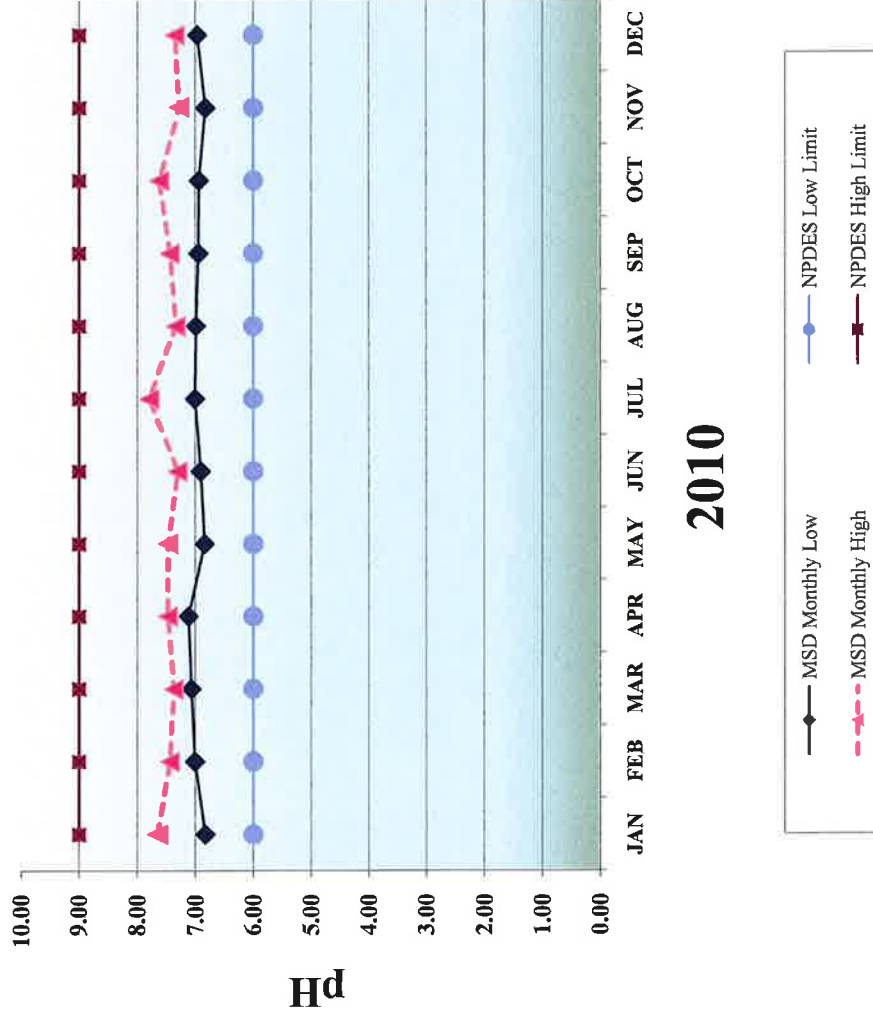
Suspended Solids
 CBOD₅

Month	Suspended Solids lbs/day	CBOD ₅ lbs/day
JAN	44	53
FEB	31	28
MAR	27	21
APR	29	37
MAY	56	62
JUN	28	61
JUL	21	14
AUG	25	21
SEP	22	35
OCT	29	69
NOV	29	69
DEC	98	39

AVG	37	42
-----	----	----

Max Allowed	lbs per day	lbs per day
	380	310

MSD EFFLUENT pH Data



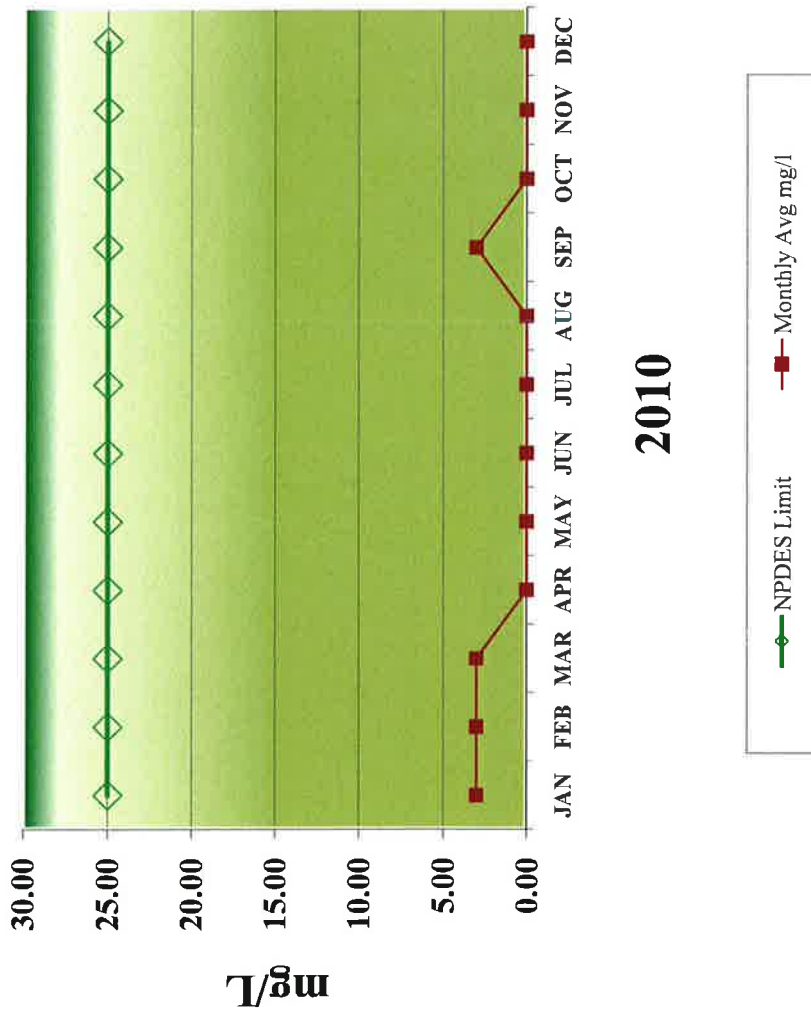
2010

Month	MSD Monthly Low	NPDES Low Limit	MSD Monthly High	NPDES High Limit
JAN	6.83	6.00	7.65	9.00
FEB	7.01	6.00	7.45	9.00
MAR	7.07	6.00	7.38	9.00
APR	7.12	6.00	7.48	9.00
MAY	6.84	6.00	7.47	9.00
JUN	6.91	6.00	7.31	9.00
JUL	7.01	6.00	7.80	9.00
AUG	6.99	6.00	7.34	9.00
SEP	6.95	6.00	7.45	9.00
OCT	6.94	6.00	7.63	9.00
NOV	6.83	6.00	7.28	9.00
DEC	6.97	6.00	7.36	9.00

AVERAGES

6.96	7.47
-------------	-------------

MSD EFFLUENT Grease & Oil

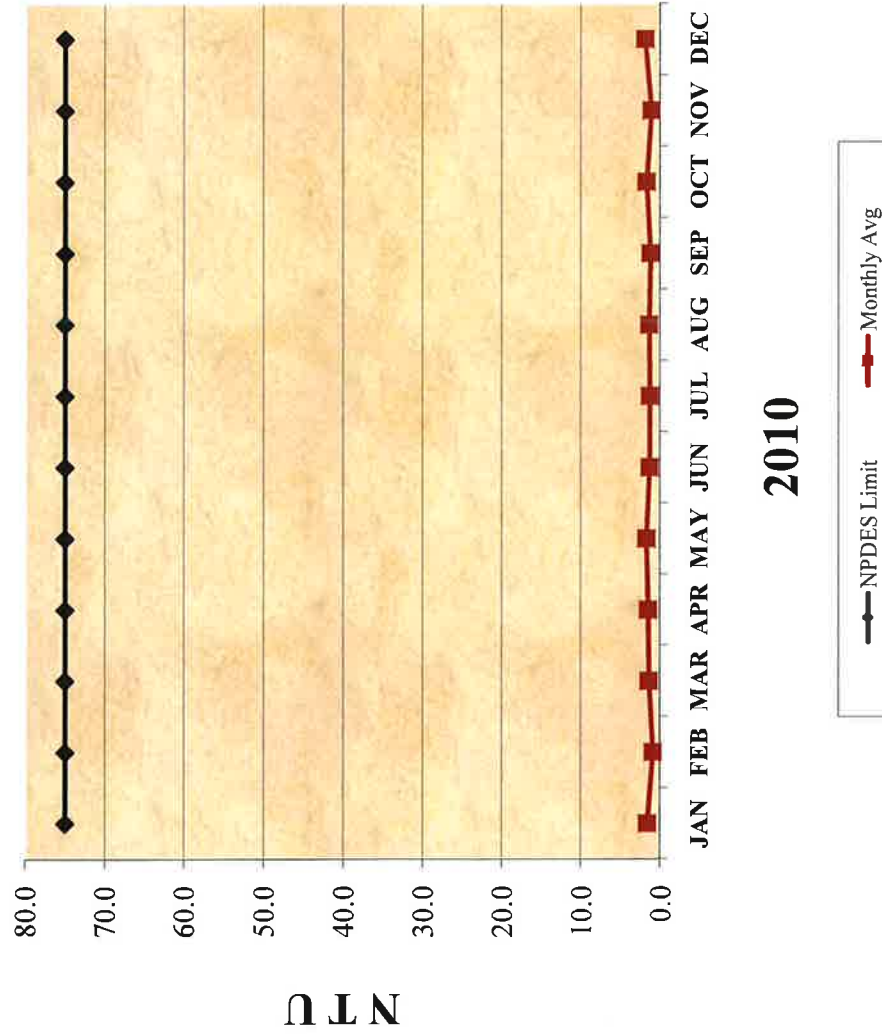


2010

Month	Grease & Oil	
	NPDES Limit	Monthly Avg mg/l
JAN	25.00	3.0
FEB	25.00	3.0
MAR	25.00	3.0
APR	25.00	0.0
MAY	25.00	0.0
JUN	25.00	0.0
JUL	25.00	0.0
AUG	25.00	0.0
SEP	25.00	3.0
OCT	25.00	0.0
NOV	25.00	0.0
DEC	25.00	0.0

Note:
The laboratory analysis Method
Detection Limit (MDL) is 3.0 mg/L
Non Detect is reported as 0.0 mg/L

EFFLUENT Turbidity

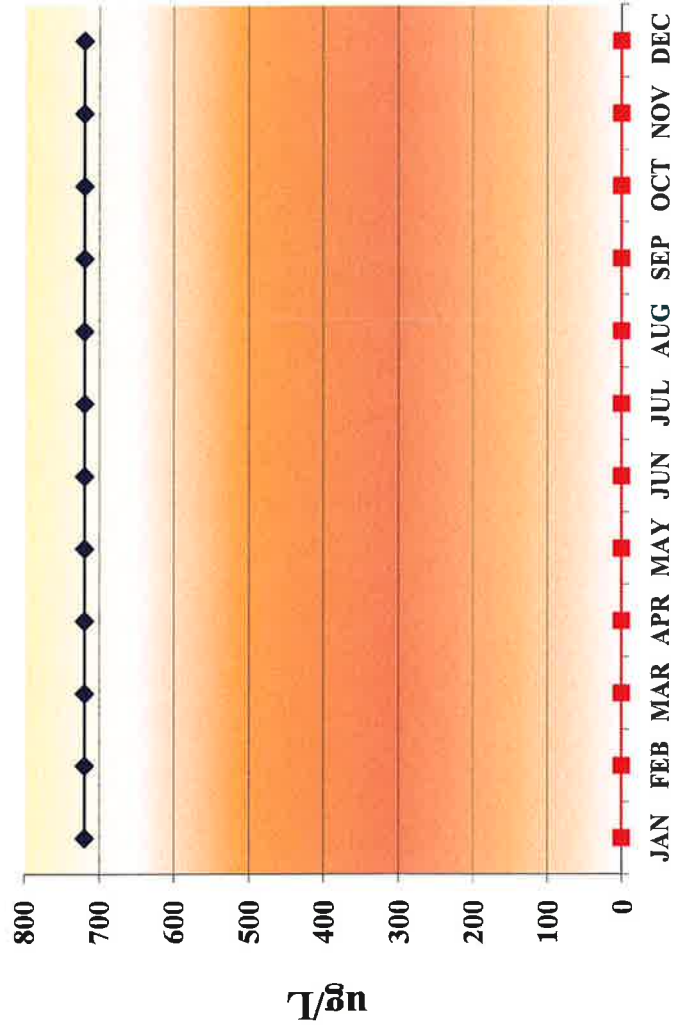


Turbidity - NTU		
Month	NPDES Limit	Monthly Avg
JAN	75.0	1.60
FEB	75.0	0.90
MAR	75.0	1.39
APR	75.0	1.48
MAY	75.0	1.70
JUN	75.0	1.30
JUL	75.0	1.25
AUG	75.0	1.32
SEP	75.0	1.17
OCT	75.0	1.70
NOV	75.0	1.06
DEC	75.0	1.86

AVG	1.4
-----	-----

NTU= Nephelometric
Turbidity Unit

FINAL EFFLUENT Chlorine (Cl₂) Residual



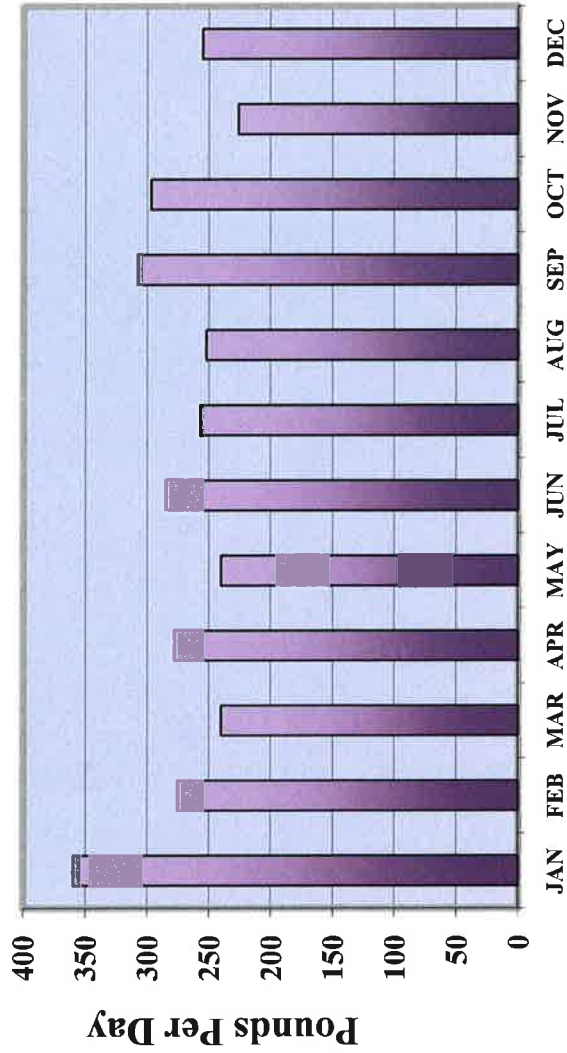
2010

NPDES Limit
 Monthly Avg ug/L

CHLORINE RESIDUAL		
Month	NPDES Limit	Monthly Avg ug/L
JAN	720	0
FEB	720	0
MAR	720	0
APR	720	0
MAY	720	0
JUN	720	0
JUL	720	0
AUG	720	0
SEP	720	0
OCT	720	0
NOV	720	0
DEC	720	0

AVG	0
-----	---

EFFLUENT Total Chlorine (Cl₂) Used



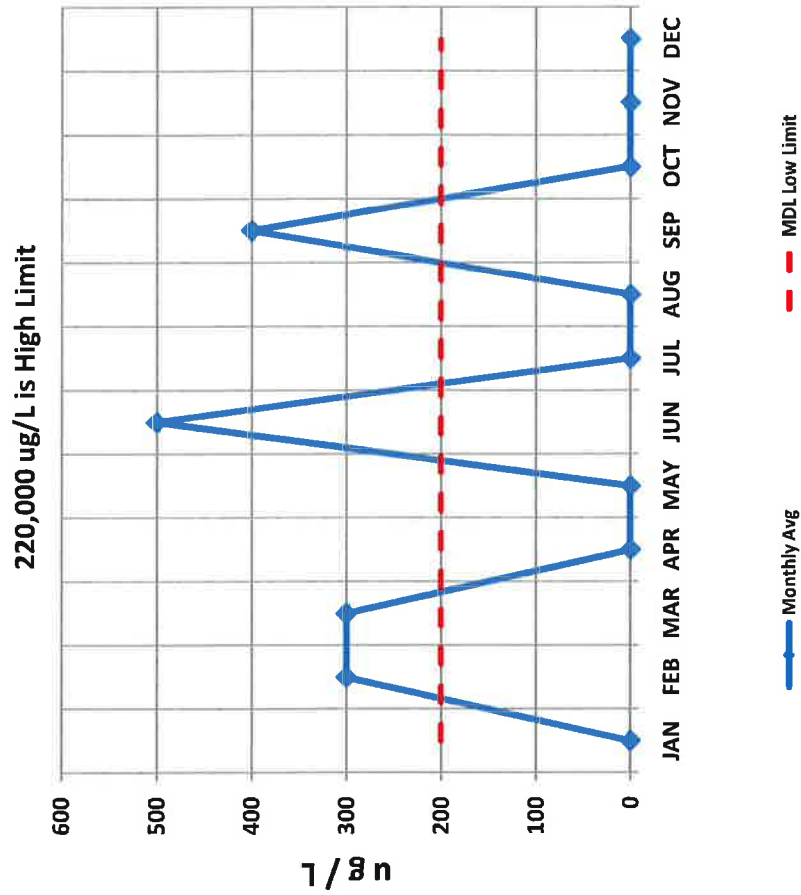
2010

■ Daily Average

Month	Daily Average lbs Per Day
JAN	359
FEB	275
MAR	240
APR	278
MAY	240
JUN	285
JUL	257
AUG	252
SEP	308
OCT	297
NOV	226
DEC	255

AVG	273
------------	------------

2010 MSD Effluent Ammonia / NH₃ - N

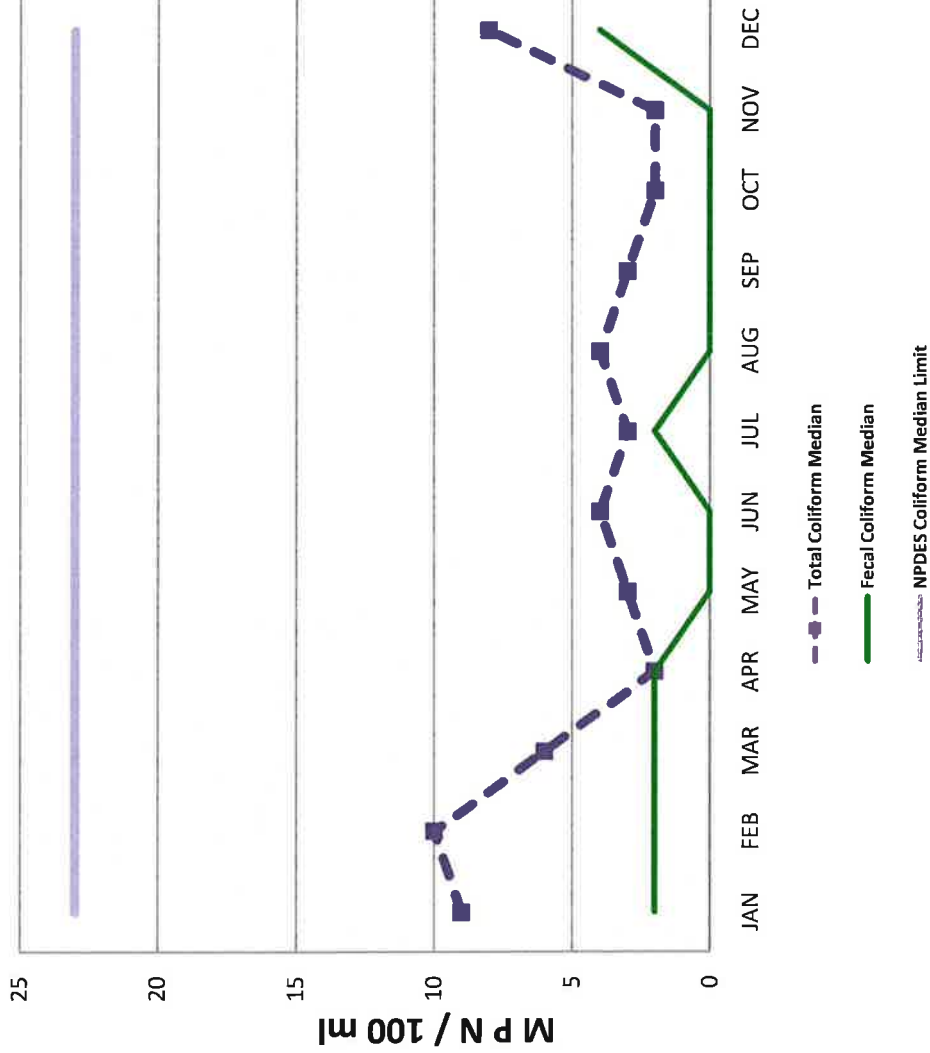


Ammonia / NH ₃ -N			
Monthly Avg ug/L	MDL Low Limit ug/L	NPDES High Limit ug/L	
0	200	220,000	JAN
300	200	220,000	FEB
300	200	220,000	MAR
0	200	220,000	APR
0	200	220,000	MAY
500	200	220,000	JUN
0	200	220,000	JUL
0	200	220,000	AUG
400	200	220,000	SEP
0	200	220,000	OCT
0	200	220,000	NOV
0	200	220,000	DEC

AVG 125

Note:
The laboratory Method Detection Limit (MDL) is 200 ug/L
Non Detect is reported as 0 ug/L

MSD Effluent Coliform Data for 2010



Month	Total Coliform Median	Fecal Coliform Median	NPDES Coliform Median Limit
JAN	9	2	23
FEB	10	2	23
MAR	6	2	23
APR	2	2	23
MAY	3	<2	23
JUN	4	<2	23
JUL	3	2	23
AUG	4	<2	23
SEP	3	<2	23
OCT	2	<2	23
NOV	2	<2	23
DEC	8	4	23

Median	3	1
--------	---	---

Note:
 The Method Detection Limit (MDL) for total and fecal coliform range is 2 MPN/100 ml - 160,000 MPN/100 ml

Tabular Data for 2010 Summary Report

I N F L U E N T									
2010 Month	Monthly Total Flow		Inst Peak MGD	Avg Daily MGD	6-day		6-day		6-day CBOD ₅ lbs
	MG	MG			TSS mg/L	TSS lbs	CBOD ₅ mg/L	CBOD ₅ lbs	
Jan	25.765	2.141	0.991	299	2,529	104	806		
Feb	24.133	2.089	1.043	307	2,551	118	972		
Mar	27.675	1.913	0.992	390	3,113	169	1,312		
Apr	27.655	1.932	0.950	362	2,825	119	933		
May	29.441	1.681	0.870	320	2,169	161	1,087		
Jun	29.282	1.645	0.853	336	2,235	162	1,080		
Jul	31.063	1.730	0.850	372	2,436	222	1,449		
Aug	31.882	1.603	0.846	289	1,925	168	1,106		
Sep	31.620	1.629	0.821	251	1,645	108	706		
Oct	33.443	1.531	0.818	370	2,542	143	974		
Nov	33.121	1.553	0.837	292	1,980	213	1,436		
Dec	35.112	2.345	1.232	278	2,407	108	997		
AVG	30.016	1.816	0.925	322	2363	150	1072		
TOTALS	360.2								

E F F L U E N T									
Monthly Rain Inches	Monthly Total Flow		Inst Peak MGD	Max Daily MGD	Avg MGD	6-day		6-day	
	MGM	MGM				TSS mg/L	TSS lbs	6-day TSS mg/L	6-day TSS lbs
6.46	30.859	3.19	1.80	1.00	5.0	44	1297		
4.62	28.964	3.10	1.49	1.03	3.8	31	908		
0.26	29.584	2.32	1.15	0.95	3.4	27	849		
2.16	27.503	3.29	1.04	0.92	3.7	29	844		
0.17	25.444	2.56	0.89	0.82	8.4	56	1775		
0.00	23.868	2.10	0.85	0.80	4.2	28	836		
0.00	25.046	2.30	0.86	0.81	3.2	21	661		
0.00	24.591	1.70	0.88	0.79	3.8	25	779		
0.00	23.529	2.00	0.87	0.78	3.3	22	644		
2.31	25.005	1.68	0.89	0.81	4.2	29	876		
1.76	24.811	1.89	0.95	0.83	4.2	29	877		
11.49	38.175	4.20	3.21	1.23	7.5	98	2394		
AVG	27.282	2.53	1.239	0.897	4.6	37	1062		
29.23	327.4								

AVG	30.016	1.816	0.925	322	2363	150	1072		
TOTALS	360.2								

AVG	27.282	2.53	1.239	0.897	4.6	37	1062		
29.23	327.4								

Tabular Data for 2010 Summary Report

FINAL EFFLUENT															
6-day CBOD ₅ mg/L	6-day CBOD ₅ lbs	6-day CBOD ₅ Max Emiss	Monthly NH3-N ug/L	Monthly NH3-N lbs	Monthly O & G mg/l	Monthly O & G lbs/day	6-day Turb NTU	pH High SU	pH Low SU	Final Effluent Cl2 ug/L	Cl2 Total lbs/day	Temp °F	Coliform Median Total MPN	Coliform Median Fecal MPN	
5.1	53	1318	0	0	3.0	35	1.60	7.65	6.83	0.0	359	66	9	2	
3.4	28	809	300	2	3.0	25	0.90	7.45	7.01	0.0	275	66	10	2	
2.7	21	671	300	3	3.0	24	1.39	7.38	7.07	0.0	240	67	6	2	
4.6	37	1058	0	0	0.0	0	1.48	7.48	7.12	0.0	278	68	2	2	
9.2	62	1959	0	0	0.0	0	1.70	7.47	6.84	0.0	240	70	3	<2	
5.3	61	1055	500	3	0.0	0	1.30	7.31	6.91	0.0	285	73	4	<2	
3.5	14	731	0	0	0.0	0	1.25	7.80	7.01	0.0	257	74	3	2	
2.4	21	492	0	0	0.0	0	1.32	7.34	6.99	0.0	252	75	4	<2	
9.7	35	1903	400	3	3.0	19	1.17	7.45	6.95	0.0	308	75	3	<2	
7.2	69	1502	0	0	0.0	0	1.70	7.63	6.94	0.0	297	74	2	<2	
8.7	69	1800	0	0	0.0	0	1.06	7.28	6.83	0.0	226	70	2	<2	
4.2	39	1324	0	0	0.0	0	1.86	7.36	6.97	0.0	255	67	8	4	
5.5	42	1219	125	1	1.0	8.6	1.4	7.47	6.96	0	273	70	3 Median	2	AVG

MONTECITO SANITARY DISTRICT

Collection System Maintenance and Renovation Program

OBJECTIVE

To reduce Sanitary Sewer Overflows (SSO's), increase system reliability, optimize service life of all collection system components and plan for facility replacement.

GOALS – SHORT AND LONG TERM

Short Term:

1. Rehabilitate pipe sections that have been identified as needing repair/replacement.
2. Implement a systematic maintenance program based on past years data to identify lines that need to be cleaned and give each line segment a rating to be evaluated by CCTV.
3. Implement a systematic CCTV program based on the maintenance line segment ratings to identify intrusion of roots, grease and/or structural defects and also check on the effectiveness of the District's cleaning procedures and equipment.
4. Continue to monitor the compliance from institutional facilities with the District's voluntary fats, oils & grease source control program.
5. Continue to enhance the District's GIS of the collection system piping, including routine updating of the District's maintenance activities consisting of maintenance, CCTV, and manhole inspection.
6. Continue to prioritize and make repairs on collection system piping as it is found during regular CCTV'ing activities.
7. Continue to promote and fund a program which provides financial incentive to property owners (offering a rebate up to \$2,000) for the rehabilitation and/or replacement of private sewer laterals. The District's FY 2010-11 funding for this program is \$40,000.
8. Refurbish Lift Station #1 consisting of new pumps, piping, and SCADA controls. Also the installation of a new 150 hp emergency generator with auto transfer switch.

**MONTECITO SANITARY DISTRICT
Collection System Maintenance & Renovation Program – 2010**

9. Investigate and analyze the need for more Smart Covers to assist the District in identifying sources of Inflow & Infiltration (I & I) and to prevent SSO's.

Long Term:

1. Continue to investigate the I & I issues that are known to exist within the District.
2. Create and implement a manhole inspection program to identify buried and damaged manholes and also identify any source of I & I.
3. Create a lift station maintenance program consisting of a routine maintenance schedule and emergency by-pass training.
4. Invest in updating and modifying the CCTV Van, including updating of existing software and hardware.
5. Invest in purchasing an easement machine to facilitate easier access of difficult manhole and pipeline locations for routine maintenance.

ACTIONS COMPLETED IN 2010

1. Performed CCTV inspection of approximately 10 miles of collection system piping.
2. Approximately 27 miles of collection system piping has been cleaned over the course of the past year.
3. Promoted and provided financial incentive for the rehabilitation/replacement of private sewer laterals. In the 2010 calendar year, 18 property owners participated in this program and replaced/repared their deteriorated laterals.
4. Construction of approximately 1,740 feet of collection system piping relining/rehabilitation in various locations throughout the District. The value of the construction completed by the end of December 2010 was approximately \$150,000. This continues to be an ongoing project.
5. Identified and performed emergency sewer main repairs and replacements in two locations for a cost of approximately \$99,000.

6. The District contracted with Hadronex Incorporated in March of 2010 for the purchase of 10 additional Smart Covers to be placed in manholes and installed throughout the District's Collection System. The District now has a total of 30 Smart Covers. Smart Covers are stand-alone ultrasonic sensors that were placed in site-sensitive, critical areas in various locations of the collections system as well as in front of each of the District's four lift stations and treatment plant to help reduce SSO's. The Collections Crew maintains and monitors the Smart Covers. Since inception, the District had documented 19 confirmed cases where the sensors have given staff adequate time to respond with the Vac-Con to clear the obstructions in the District mainlines well before a spill could occur.

2010 SANITARY SEWER OVERFLOW (SSO) REPORT SUMMARY

PRIVATE

1. 1/29/10 – Private Lateral: Private manhole in parking Lot of Piatti's Restaurant located on the property of 516 San Ysidro Road – Grease getting through the Piatti's grease trap and roots caused a spill of approximately 100 gallons to occur. The spill was contained by the parking lot curbing within 30 feet of the manhole. The Collections Crew used the Vac-Con to vacuum out the manhole to allow the plumber to snake the private mainline and clear blockage. The Vac-Con was also used to vacuum up the standing liquid and the area was sprayed with micro-septic liquid to disinfect the area.

DISTRICT

1. 5/12/10 – Category 1: Manhole #1151-5E located in an easement on the property of 595 San Ysidro Road – Roots and two large pieces of grease caused a spill of approximately 200 gallons to occur. Collections Crew used the Vac-Con to clear the blockage and restore flow. The surface area of the spill was then thoroughly sprayed with micro-septic liquid disinfectant.
2. 5/19/10 – Category 1: Manhole #587-4D in the roadway of the 400 block of Hot Springs Road. Root intrusion into the sewer main from a capped lateral caused a spill of approximately 100 gallons to occur. The path of the spill ran south down Hot Springs Road along roadway crossing East Pepper Lane and ended at a dry creek bed. Collections Crew used the Vac-Con to clear the blockage. The surface area of the spill was sprayed with micro-septic liquid disinfectant and the contaminated dirt was removed from the surrounding area and disposed of at the treatment plant.

MONTECITO SANITARY DISTRICT
Collection System Maintenance & Renovation Program – 2010

3. 6/02/10 – Category 2: Manhole #346-3C in the center of the roadway in front of 1060 Alston Road. Roots in mainline caused a slow backup in the manhole. The blockage had cleared itself prior to the arrival of the Collections Crew. Due to the evidence on site, a spill of approximately 10 gallons occurred. The path of the spill ran east approximately 15 feet to curbside. The surface area of the spill was thoroughly sprayed with micro-septic liquid disinfectant.
4. 7/28/10 – Category 1: Manhole #502-4C in easement located on the property of 1411 School House Road. Heavy roots and grease caused a spill of approximately 2,380 gallons to occur. With assistance from the City of Santa Barbara and their Vactor Truck the blockage was cleared and flow was restored. The path of the spill from manhole headed in a southerly direction towards San Ysidro Road about 180 feet. The surface area of the spill was thoroughly sprayed with micro-septic liquid disinfectant. Due to the location of the spill clean-up equipment was inaccessible.
5. 9/09/10 – Category 2: Manhole #805-6F in center of roadway in front of 735 Park Lane. Root blockage in the main caused a spill of approximately 50 gallons. The path of the spill was east from manhole approximately 300 feet to curbside. Collections Crew used the Vac-Con to clear the blockage. The surface area of the spill was thoroughly sprayed with micro-septic liquid disinfectant.
6. 11/28/10 – Category 2: Manhole #1473-9E in center of roadway in front of 2714 East Valley Road. Rags and debris caused a spill of approximately 50 gallons to occur. Collections Crew used the Vac-Con to clear the blockage. The path of the spill was west from manhole to the side of the street's unpaved shoulder approximately 200 feet. There was no clean-up due to the liquid soaking into the ground and drying prior to cleanup activity.

MONTECITO SANITARY DISTRICT

Mission, History and Future Goals

OUR MISSION

To provide the residents of Montecito with a community service to protect public health and to preserve the natural environment through collection, treatment and disposal of wastewater in the most cost effective way possible.

To meet all regulatory discharge requirements as directed by Local, State and Federal agencies.

OUR BACKGROUND

The Montecito Sanitary District (MSD) is an independent special district voted into existence in 1947 by the residents of Montecito. A few highlights of MSD's history include the following:

- 1947: The Montecito Sanitary District was voted into existence by the residents.
- 1947-1960: The community worked toward implementation of service by approving a bond issue, selecting a plant site, and establishing a District boundary.
- 1960: A \$900,000 bond issue was passed to build a 750,000 gallon per day extended aeration, secondary treatment plant, an ocean outfall and trunk sewer system.
- 1961-1969: Six assessment districts were formed to finance the installation of 70 miles of collection system pipelines.
- 1981: Voters approved a \$3.1 million revenue bond issue to incorporate new technology and expand the plant's capacity to 1.5 MGD.
- 1982-1999: During this time period a second activated sludge reactor basin was added to the treatment plant; two additional secondary clarifiers were constructed; the volume of the aerobic digester was increased; a dissolved air flotation thickener and a belt filter press were installed; a second effluent chlorine contact chamber was constructed along with a de-chlorination chamber; a 250 KW emergency generator was installed at the treatment plant. In the mid 1990's, sodium hypochlorite and sodium bisulfite liquids, replaced gaseous chlorine and sulfur dioxide for safety reasons.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- 2000 - 2006: During this time period the District completed the following capital improvement projects: bulk chemical storage tanks were replaced with larger, double wall containment with earthquake restraints; six new disinfection chemical feed pumps for sodium hypochlorite and sodium bisulfite were installed, improving reliability and adding redundancy; a paperless data trend process recorder was installed; an aeration system optimization project was completed, the laboratory was upgraded; the influent pump station was replaced, increasing the station's pumping capacity from 3.5 MGD to 5.0 MGD; completed a SCADA control center and a new 3,600 square foot maintenance building was constructed.
- 2007 - 2008: The Montecito Board of Director's identified and approved "mission critical" capital improvement projects totaling approximately \$11 million. The District then issued Certificates of Participation (COP's) to fund the capital program. The following projects were completed in 2007 and 2008: a new SCADA server with expandability for future was put on line for the influent pump station control; the waste activated sludge pump was replaced; the aeration air header made of deteriorated ductile iron pipe, was replaced with a new stainless steel pipe; a new 125 KW portable emergency generator that can be used to power a portion of the treatment plant or as a redundant back up at pump stations was purchased; the Posilipo Lift Station (Lift Station No. 4) was completely refurbished including the replacement of the existing 6" dual force mains with dual 8" lines; a new fully redundant pumping system (three new pumps) were installed along with an automatic switch over to generator power.
- 2009: The District completed the following capital improvement projects: the influent channel grinders were replaced with two new units increasing flow volume from 3.5 mgd to 6.0 mgd; the secondary clarifiers (3 & 4) were refurbished; the effluent channel was refurbished, and rehabilitation/relining of approximately 4 miles of collection system pipeline was completed.
- 2010: Completed the refurbishment of two motor control centers (MCC) and replacement of another (MCC); installation of a new 450 KW emergency diesel powered generator providing 100 percent of the treatment plant and associated facilities power requirements during main power outages. The total cost of these treatment plant electrical upgrades was \$540,000. The new laboratory building design and site grading was completed in the fall of 2010.

MONTECITO SANITARY DISTRICT
Mission, History and Future Goals -- Continued

- Goals for 2011: The new laboratory building is scheduled to be completed in 2011 and the District has contracted with a consulting firm to assist with the laboratory certification by California Environmental Laboratories Accreditation Program. The District is also working on the addition of new SCADA equipment monitoring along with updating the after-hours alarm notification system to operators.