

## **Hidden Valley Lake Community Services District**

#### **Regular Board Meeting**

DATE: April 17, 2018

TIME: 7:00 p.m.

PLACE: Hidden Valley Lake CSD

Administration Office, Boardroom

19400 Hartmann Road Hidden Valley Lake, CA

- 1) <u>CALL TO ORDER</u>
- 2) PLEDGE OF ALLEGIANCE
- 3) ROLL CALL
- 4) APPROVAL OF AGENDA
- 5) <u>EMPLOYEE RECOGNITION</u> Sam Garcia, Interim Utility Supervisor
- 6) PRESENTATIONS

I&I Assessment Report provided by Civic Spark

- 7) CONSENT CALENDAR
  - A. MINUTES: Approval of the Finance Committee Meeting minutes for February 23, 2018.
  - B. MINUTES: Approval of the Regular Board Meeting minutes for March 20, 2018
  - C. <u>MINUTES:</u> Approval of the <u>Finance Committee Meeting</u> Minutes for March 13, 2018.
  - D. MINUTES: Approval of the Finance Committee Meeting Minutes for April 2, 2018
  - E. <u>DISBURSEMENTS</u>: Check # 35284 # 35362 including drafts and payroll for a total of \$347,689.45.
- 8) BOARD COMMITTEE REPORTS

(for information only, no action anticipated)

Personnel Committee Finance Committee Emergency Preparedness Committee Lake Water Use Agreement-Ad Hoc Committee Valley Oaks Project Committee

9) <u>BOARD MEMBER ATTENDANCE AT OTHER MEETINGS</u>

(for information only, no action anticipated)

#### Other meetings attended

#### 10) STAFF REPORTS

(for information only, no action anticipated)

ACWA State Legislative Committee Financial Report Administration/Customer Service Report Field Operations Report General Manager's Report

- 11) <u>PUBLIC HEARING FOR ORDINANCE 59.1:</u> Open Public Hearing for Public and Board Comments
- 12) <u>CLOSE PUBLIC HEARING FOR ORDINANCE 59.1:</u> Followed by a motion and Second, Vote to Accept or Decline Ordinance 59.1
- 13) <u>DISCUSSION AND POSSIBLE ACTION:</u> Adoption of Resolution 2018-02, "Engineering Standard Specifications and Drawings"
- 14) <u>PUBLIC HEARING FOR SEWER SYSTEM MANAGEMENT PLAN:</u> Open Public Hearing for Public and Board Comments
- 15) <u>CLOSE PUBLIC HEARING FOR SEWER SYSTEM MANAGEMENT PLAN:</u>
  Followed by a motion and Second, Vote to Accept or Decline the Sewer System Management Plan
- 16) <u>DISCUSSION AND POSSIBLE ACTION:</u> Discuss and approve the implementation of CPS HR Consulting's Salary Survey as follows:
  - Implement CPS HR's Salary Survey findings effective July 1, 2018 excluding the General Manager;
  - Implement the salary for the newly approved Utility Tech. position effective April 18, 2018;
- 17) PUBLIC COMMENT
- 18) BOARD MEMBER COMMENT
- 19) <u>CLOSED SESSION:</u> The Board will call to order and recess to Closed Session to discuss the following item:
  - PURSUANT TO CALIFORNIA GOVERNMENT CODE §54957.6: Review and discussion of the General Manager's contract provisions and annual evaluation.
- 20) ADJOURNMENT

In compliance to the Americans with Disabilities Act, if you need special accommodations to participate in or attend the meeting please contact the District Office at 987-9201 at least 48 hours prior to the scheduled meeting.

Public shall be given the opportunity to comment on each agenda item before the Governing Board acts on that item, G.C. 54953.3. All other comments will be taken under Public Comment.





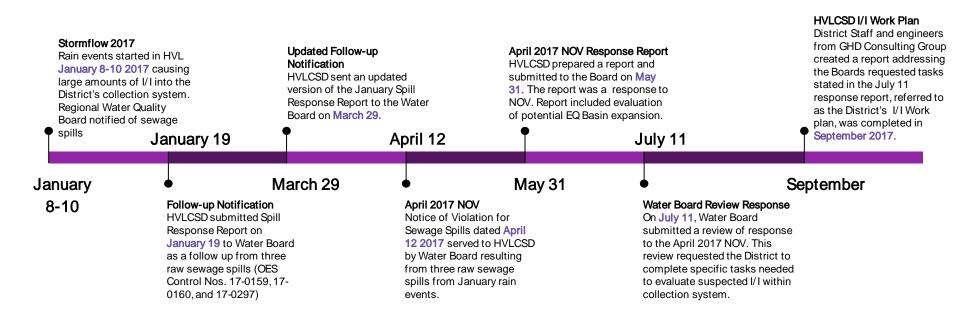


# Infiltration and Inflow (I/I) Results Document

- Background: Stormflow 2017
- Roles and timeline
- I/I Results Document quick overview
- I/I Quantification
  - Nighttime Reconnaissance
  - Flow Monitoring
  - Cleanout Sealing
  - Problem Area Mapping
- Data Analysis
- Conclusions

# Presentation Agenda

## Stormflow 2017 Events Timeline



## Roles

- Data Collection: Marina and Jacob
- Report content writing: Marina
- Data analysis: Jacob
- Make sure the Sparkies are on top of the game: Alyssa Gordon

# Project Timeline

- November 1, 2017: Nighttime Reconnaissance #1
- December 2017: Cleanout Sealing
- <u>December 2017:</u> Installed Temporary Flow Meters
- December 27, 2017: Collected first week of flow meter data.
- January 8, 2018: I/I Results Document Outline
- January 11, 2018: Nighttime Reconnaissance #2
- March 5, 2018: Collected last week of flow meter data
- March-April 2018: Analyze data for I/I Results Document
- April 17, 2018: Presentation to Board on I/I Project
- April 17, 2018: I/I Work Plan Results Document complete.

## I/I Results Document

- 1. EXECUTIVE SUMMARY
  - 1. INTRODUCTION
  - 2. INFORMATION FROM WASTE DISCHARGE REQUIREMENTS
- 2. I/I RESULTS DOCUMENT
  - I/I TIMELINE
- 3. I/I QUANTIFICATION
  - 1. PROBLEM AREAS
  - 2. DESCRIBE METHODS.. (Section 2.5)
    - 1. Cleanout Sealing
    - MIKSIS EXPLORATORY WORK
    - 3. CLOSED CIRCUIT TELEVISION INSPECTION (CCTV)
    - 4. NIGHTTIME RECONNAISSANCE
    - 5. FLOW MONITORING PROBLEM AREAS
      - 1. Flow Monitoring Data: Lift Station 2
      - 2. Flow Monitoring Data: Lift Station 3
      - 3. Flow Monitoring Data: Lift Station 5
      - 4. Flow Monitoring Data: Lift Station 6
      - 5. Flow Monitoring Data: Parshall Flume
    - 6. SMOKE TESTING
    - 7. MAPPING
- 4. ANALYSIS OF DATA
- CONCLUSIONS
- 6. APPENDICES
  - 1. I/I Targets Map
  - 2. Cleanouts Map
  - 3. Miksis Data
  - 4. CCTV
  - 5. Lift Station 2 Graphs
  - 6. Lift Station 3 Graps
  - 7. Lift Station 5 Graphs
  - 8. Lift Station 6 Graphs
  - 9. Parshall Flume Graphs



#### Hidden Valley Lake Community Services District

Inflow and Infiltration Work Plan Results Document

April 17, 2018

Hidden Valley Lake, CA 95457

## I/I Quantification

- Regional Water Board July 2017 Review Response identified tasks needed to evaluate known or suspected I/I within the Districts collection system.
- I/I Quantification → refers to the methods taken to identify inflow and infiltration in the collection system.
- I/I Quantification Methods discussed and addressed in Results Document
  - 1. Miks is Exploratory Work
  - 2. Closed Circuit Television (CCTV)
  - 3. Nighttime Reconnaissance
  - 4. Flow Monitoring
  - 5. Smoke Testing
  - 6. Cleanout Sealing
  - 7. Manhole Mapping

# Nighttime Reconnaissance

- Nighttime reconnaissance used to identify clear water flow in sewer collection system.
- District Staff and CivicSpark Fellows conducted 2 nighttime reconnaissance field activities.
  - November 1, 2017
  - January 11, 2018

#### Next Steps..

 Create a map showing the manholes investigated during both nighttime reconnaissance field activities and add a link within each manhole and it's related video.

# Problem Area Map

(Board meeting hand carry)

# Flow Monitoring

- Teledyne Isco Area Velocity Flow Meters (manning equation)
  - 4 locations: LS2, LS3, LS5, and LS6
  - ~5.9 miles, or 39% of total system
  - ~ 37% of dry weather flow
  - 12/27/2017-3/5/2018
- Parshall Flume at plant headworks
  - Captures flow of entire sanitary sewer collections system
  - 11/1/2017 on ward

LS 2 Flow Monitoring Area



— LS\_2\_Flow\_Monitoring\_Pipes

~ 5023 ft of Pipe

LS 3 Flow Monitoring Area



- LS3\_Flow\_Monitoring\_Pipes

~ 10,615 ft of pipe

LS 5 FLOW MONITORING AREA



LS5\_FLOW\_MONITORING\_PIPES

LS\_5\_FLOW\_MONITOR

~ 9924 ft of pipe

LS6 Flow Monitoring Area

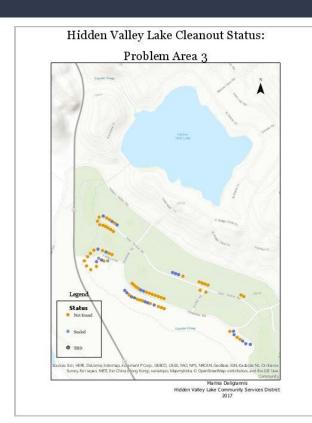


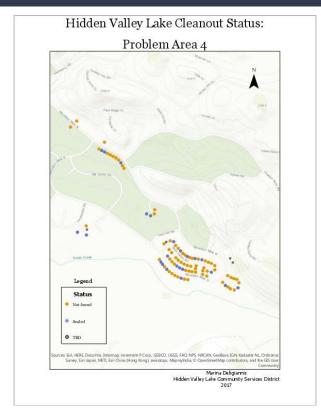
LS6\_FLOW\_MONITOR

LS6\_FLOW\_MONITORING\_PIPES

~ 5395 ft of pipe

# Cleanout Sealing

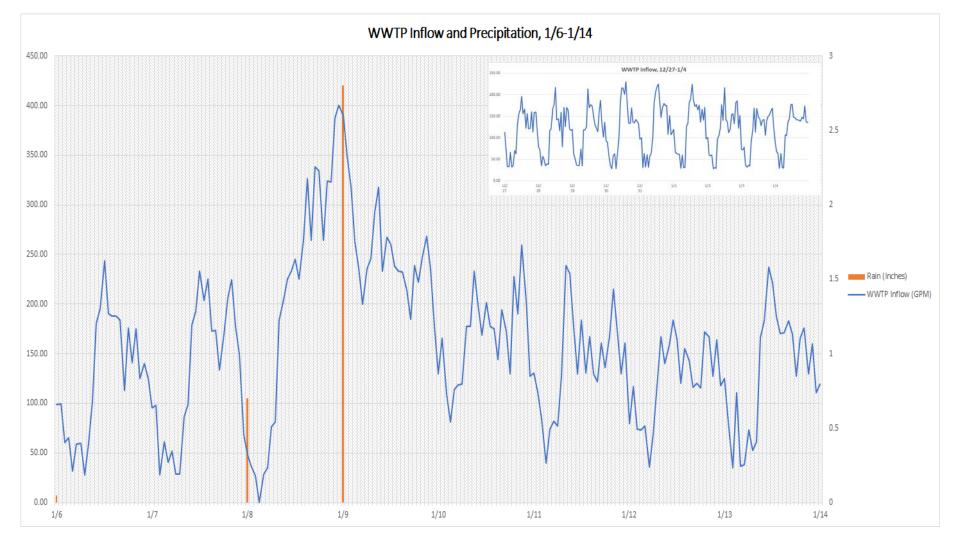




- I/I Work Plan states that there were two main line cleanouts pulled during the 2017 storms.
- CivicSpark Fellows..
  - Surveyed 188
     cleanouts identified in
     low-lying areas
     (Problem areas 3 & 4)
  - Sealed ~45 cleanouts

# Data Analysis

- Methods reference: <u>Guide for Estimating Iniltration and Inflow, United States Environmental Protection Agency, June 2014</u>
- Compare dry weather flows with wet weather flows and observe the response
- Three components to sanitary sewer flows:
  - 1) Base Sanitary Flow (BSF)
  - 2) Groundwater Infiltration (GWI)
  - 3) Rainfall Derived Infiltration and Inflow (RDII)
- Dry Weather Flow (DWF) = BSF + GWI
- Wet Weather Flow (WWF) = BSF + GWI + RDII



	Dry Weather Period (12/27/2017-1/4/2018)	Significant Rain Event (1/8/2018-1/10/2018) Duration: 102 Hours Rain Depth: 3.5 Inches	% Change
Estimated Avg. Base Sanitary Flow (BSF)	61.21 GPM	61.21 GPM	N/A
Observed Avg. Flow Rate	117.89 GPM ( <b>DWF</b> )	206.93 GPM (WWF)	+ 75.5%
Observed Peak Flow Rate	229.73 GPM	400.81 GPM	+ 74.5%
Observed Avg. Minimum Flow Rate (0-6AM)	56.69 GPM	146.74 GPM	+ 158.8%
Estimated Avg. Infiltration/Inflow	56.69 GPM <b>(GWI only)</b>	145.73 GPM (GWI +RDII)	+ 157.1%

# Breakdown of Flow Monitoring Areas

Monitoring Area	Age	Material	I/I Volume	I/I Volume per Linear Foot
<b>LS2</b> (5023 LF)	23-24 yrs	PVC	66,343 gal.	13.21 gal/LF
<b>LS3</b> (10,615 LF)	23-24 yrs	PVC	59,290 gal.	2.88 gal/LF
<b>LS5</b> (9924 LF)	23-24 yrs	PVC	76,478 gal.	7.71 gal/LF
<b>LS6</b> (5395 LF)	45-48 yrs	Asbestos Concrete	58,226 gal.	11.61 gal/LF



#### HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT FINANCE COMMITTEE REPORT MEETING DATE: FEBRUARY 23, 2018

The Hidden Valley Lake Community Services District Finance Committee met at the District office located at 19400 Hartmann Road, in Hidden Valley Lake, California.

Present were:

Director Judy Mirbegian
Director Jim Freeman
General Manager Kirk Cloyd
Full Charge Bookkeeper Trish Wilkinson
Admin Assistant Penny Cuadras

#### **CALL TO ORDER**

The meeting was called to order at 12:01 PM by Director Mirbegian.

#### **APPROVAL OF AGENDA**

On a motion made by Director Mirbegian and second by Director Freeman the Committee unanimously approved the agenda.

#### **Discuss Finance Committee Charter**

The Draft Committee Charter was reviewed and discussed. The Committee recommend the following items be added as duties of the appointed Finance Committee Members;

- Finance Committee Members are to be the primary signers of District checks, supported by the other Directors and the General Manager.
- Monthly reviewing of the bank reconciliation is to be the responsibility of the appointed Finance Committee members. Members of the Committee shall alternate on a monthly basis.

#### **Discuss Mid-Year Budget**

Following review and discussion the Committee recommend the proposed Mid-Year Budget be brought before the Board for approval.

#### **Discuss CPS HR Consulting Draft Base Salary Report**

Following review and discussion, the Committee recommend the Draft Base Salary Report be presented to the full Board with the General Managers suggestion for adjustments to the Utility technician pay rate.

Staff discussed succession planning, requesting consideration for an additional field and front office position. Director Mirbegian requested administrative overtime be included in the Administration/Customer Service Report to review indication for the need of additional personnel. Staff will note other advantages that cannot be tracked by overtime as well.

PUBLIC COMMENT

No public present

**BOARD MEMBER COMMENT** 

No Board comments

**ADJOURNMENT** 

The meeting was adjourned at 1:19 p.m.



#### HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT BOARD OF DIRECTORS REGULAR BOARD MEETING MINUTES MEETING DATE: MARCH 20, 2018

The Hidden Valley Lake Community Services District Board of Directors met this evening at the District office located at 19400 Hartmann Road, in Hidden Valley Lake, California.

#### Present were:

Director Carolyn Graham, President Director Linda Herndon, Vice President Director Judy Mirbegian Director Jim Lieberman Kirk Cloyd, General Manager Penny Cuadras, Administrative Assistant

#### Absent:

**Director Jim Freeman** 

#### **CALL TO ORDER**

The meeting was called to order at 7:00 p.m. by President Graham.

#### APPROVAL OF AGENDA

On a motion made by Director Herndon and second by Director Mirbegian with an amendment to remove Item C for revision on the Consent Calendar, the Board unanimously approved the amended agenda.

#### **EMPLOYEE RECOGNITION**

#### **PRESENTATIONS**

Staff provided a brief overview of the differences of a Merit Increases and a COLA.

#### **CONSENT CALENDAR**

On a motion made by Director Herndon and second by Director Mirbegian with an amendment to remove Item C for revision. The Board unanimously approved the amended following Consent Calendar items:

- A. <u>MINUTES:</u> Approval of the <u>Board of Directors Regular Board Meeting</u> minutes for February 20, 2018
- B. <u>MINUTES:</u> Approval of the <u>Emergency Preparedness Committee Meeting</u> minutes for February 22, 2018
- C. <u>MINUTES</u>: Approval of the <u>Finance Committee Meeting</u> minutes for February 23, 2018 *minutes were pulled by Director Mirbegian for review*
- D. <u>MINUTES:</u> Approval of the <u>Valley Oaks Project Committee Meeting</u> minutes for February 27, 2018

- E. <u>MINUTES:</u> Approval of the <u>Finance Committee Meeting</u> minutes for March 1, 2018
- F. <u>DISBURSEMENTS</u>: Check # 35247 # 35283 including drafts and payroll for a total of \$245,279.15.

#### **BOARD COMMITTEE REPORTS**

Personnel Committee: No meeting Held

<u>Finance Committee</u>: Director Mirbegian provided an update of meetings held <u>Emergency Preparedness Committee</u>: Director Graham provided an update of the meeting held

<u>Lake Water Use Agreement-Ad Hoc Committee</u>: No meeting held, to be scheduled <u>Valley Oaks Project Sub-Committee</u>: Kirk Cloyd, GM provided an update of the meeting held.

#### **BOARD MEMBER ATTENDANCE AT OTHER MEETINGS**

#### **STAFF REPORTS**

Financial Report:

Administration/Customer Services Report:

Field Operation Report:

ACWA State Legislative Committee: Staff testified at the recent State Legislative hearing regarding the proposed SB 623 and associated trailer Water Tax Bill General Manager's Report: The General Manager discussed items in his report and responded to all inquiries.

# <u>DISCUSSION AND POSSIBLE ACTION:</u> <u>Discuss and accept CPS HR Consulting Salary Survey Report.</u>

Director Mirbegian moved and second by Director Herndon to accept as complete the CPS HR Consulting Survey Report. The Board unanimously accepted The CPS HR Consulting Salary Survey Report as complete.

## <u>DISCUSSION AND POSSIBLE ACTION:</u> Discuss and approve the proposed Mid-year Budget adjustments.

Director Mirbegian moved and second by Director Herndon to approve the proposed Mid-Year budget adjustments. The Board unanimously approved the proposed Mid-Year Budget adjustments

PUBLIC HEARING and discussion of Ordinance 59.1 Waste Discharge and Sewer Use. Set the date of the second reading of Ordinance 59.1 Waste Discharge and Sewer Use at the next scheduled Regular Board Meeting

Public Hearing was Open at 8:06 PM. There were no comments or protests by the public.

# CLOSE PUBLIC HEARING Ordinance 59.1 Waste Discharge and Sewer Use.

Closed Public Hearing at 8:16 pm

#### **PUBLIC COMMENT**

Members of the public acknowledged staff and members of the Board for taking care of our water and sewer systems.

#### **BOARD MEMBER COMMENT**

Members of the Board thanked the public for coming out in the rain and cold to attend the Board Meeting.

Director Mirbegian thanked staff for the updated website.

	<u>ADJOUF</u>	RNMENT	
•	•	d second by Director Herndo he meeting was adjourned a	
Carolyn Graham President of the Board	Date	Kirk Cloyd General Manager/Se	Date ecretary to the Board



#### HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT FINANCE COMMITTEE REPORT MEETING DATE: MARCH 13, 2018

The Hidden Valley Lake Community Services District Finance Committee met at the District office located at 19400 Hartmann Road, in Hidden Valley Lake, California.

Present were:
Director Mirbegian
Director Freeman
General Manager Kirk Cloyd
Admin Assistant Penny Cuadras

### CALL TO ORDER

Absent: Trish Wilkinson

The meeting was called to order at 12:01 pm by Director Mirbegian

#### **APPROVAL OF AGENDA**

On a motion made by Director Mirbegian and second by Director Freeman the Committee unanimously approved the agenda.

# REVIEW AND DISCUSS: COMPARISON BETWEEN CURRENT AND RECOMMENDED SALARIES

The Committee reviewed and discussed the salary comparison and recommended salaries. The Committee will make recommendations to the Board to accept the CPS HR Consulting Salary Survey and purpose to implement into the 2018-19 Budget.

#### **REVIEW AND DISCUSS: CURRENT ON-CALL PAY**

The Committee reviewed and discussed the on-call pay data provided by staff. Upon review, the Committee request that staff bring additional detailed dollar for dollar on-call pay analysis comparing the current HVLCSD on-call rate to those rates noted in the comparison with like agencies.

No recommendations to the Board at this time.

# <u>DISCUSS: REPLACEMENT OF THE DISTRICT CONSTRUCTION TRUCK, CRANE</u> <u>AND COMPRESSOR</u>

Following discussion, the Committee request staff to bring back comparison of replacement cost vs rental for a purposed budgeted adjustment.

#### **PUBLIC COMMENT**

No public present.

#### **BOARD MEMBER COMMENT**

#### <u>ADJOURNMENT</u>

On a motion made by Director Freeman and second by Director Mirbegian the Board voted unanimously to adjourn the meeting. The meeting was adjourned at 1:24 p.m.



#### HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT FINANCE COMMITTEE REPORT MEETING DATE: April 2, 2018

The Hidden Valley Lake Community Services District Finance Committee met at the District office located at 19400 Hartmann Road, in Hidden Valley Lake, California. Present were:

Director Mirbegian
Director Freeman
General Manager Kirk Cloyd
Full Charge Bookkeeper Trish Wilkinson
Administrative Assistant Penny Cuadras

#### CALL TO ORDER

The meeting was called to order at 12:18 by Director Mirbegian.

#### **APPROVAL OF AGENDA**

On a motion made by Director Mirbegian and second by Director Freeman the Committee unanimously approved the agenda.

## REVIEW AND DISCUSS THE REQUESTED INFORMATION REGARDING STAFF RAISES

Following review and discussion the Committee recommend the proposed salary increases be brought before the Board for approval and implementation effective July 1, 2018, pending the District's ability to fund it in the 2018/19 Budget.

#### REVIEW AND DISCUSS THE FINANCE COMMITTEE CHARTER

Following discussion and review of the draft Finance Committee Charter, members of the Committee recommend the following items be added as duties of the appointed Finance Committee Members;

- Finance Committee Members are to be the primary signers of District checks, supported by the other Directors and the General Manager. (Of note, the Finance Committee policy also give signatory power to the Full-Charge Bookkeeper. It is the recommendation of the G.M. that this policy be updated to reflect at least one signature be that of a Director and not solely those of the General Manager and Full-Charge Bookkeeper and memorialized this policy as a District Resolution.)
- Monthly reviewing of the bank reconciliation is to be the responsibility of the appointed Finance Committee members. Members of the Committee shall alternate on a monthly basis.

Director Mirbegian will review the final document prior to going before the Board as an informational item.

**PUBLIC COMMENT** 

**COMMITTEE MEMBER COMMENT** 

**ADJOURNMENT** 

On a motion made by Director Freeman and second by Director Mirbegian the Committee voted unanimously to adjourn the meeting. The meeting was adjourned at 1:18 p.m.

#### A C C O U N T S P A Y A B L E

VENDOR SET: 01 Hidden Valley Lake DISBURSEMENT REPORT

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 120 SEWER ENTERPRISE FUN

SORTED BY FUND

PAGE:

BANK: ALL

TOTAL G/L G/L G/L NO# AMOUNT 1099 ACCT NO# AMOUNT VENDOR NAME INVOICES NAME \_\_\_\_\_\_ 01-1 MISCELLANEOUS VENDOR Ν FUND TOTAL FOR VENDOR 160.50 01-1023 HACH COMPANY Ν FUND TOTAL FOR VENDOR 524.53 01-1089 JOBS AVAILABLE FUND TOTAL FOR VENDOR 22.50 Ν 01-11 STATE OF CALIFORNIA EDD Ν FUND TOTAL FOR VENDOR 1,967.68 01-111 JAMES DAY CONSTRUCTION, I FUND TOTAL FOR VENDOR 4,268.00 Ν 442.94 FUND TOTAL FOR VENDOR 01-1392 MEDIACOM Ν 01-1579 SOUTH LAKE REFUSE COMPANY FUND TOTAL FOR VENDOR 187.66 Ν FUND TOTAL FOR VENDOR 12,771.62 01-1705 SPECIAL DISTRICT RISK MAN Ν US DEPARTMENT OF THE TREA FUND TOTAL FOR VENDOR 01-1722 N 5,321.34 USA BLUE BOOK FUND TOTAL FOR VENDOR 1,881.72 01-1751 Ν 01-19 NBS GOVERNMENT FINANCE GR FUND TOTAL FOR VENDOR 1,585.00 Ν FUND TOTAL FOR VENDOR 01-1961 ACWA/JPIA Ν 426.10 BARTLEY PUMP, INC. FUND TOTAL FOR VENDOR 942.50 01-2057 Ν CALIFORNIA PUBLIC EMPLOYE FUND TOTAL FOR VENDOR 6,937.04 01-21 Ν FUND TOTAL FOR VENDOR 01-2111 DATAPROSE 159.01 Ν 01-2195 TELSTAR INSTRUMENTS, INC FUND TOTAL FOR VENDOR 940.72 Ν 01-2283 ARMED FORCE PEST CONTROL, FUND TOTAL FOR VENDOR 97.50 GRANITE CONSTRUCTION FUND TOTAL FOR VENDOR 1,755.70 01-2427 Ν 01-2538 HARDESTER'S MARKETS & HAR Ν FUND TOTAL FOR VENDOR 34.91 01-2541 MENDO MILL CLEARLAKE FUND TOTAL FOR VENDOR 26.62 N 60.50 01-2585 TYLER TECHNOLOGY Ν FUND TOTAL FOR VENDOR 01-2598 VERIZON WIRELESS FUND TOTAL FOR VENDOR 394.54 Ν 01-2638 RICOH USA, INC. Ν FUND TOTAL FOR VENDOR 205.14 01-2684 OFFICE DEPOT Ν FUND TOTAL FOR VENDOR 185.25 MICHELLE HAMILTON FUND TOTAL FOR VENDOR 01-2699 Ν 312.50 01-2700 REDFORD SERVICES FUND TOTAL FOR VENDOR 950.00 Ν 01-2749 NAPA AUTO PARTS Ν FUND TOTAL FOR VENDOR 78.30

#### A C C O U N T S P A Y A B L E

VENDOR SET: 01 Hidden Valley Lake DISBURSEMENT REPORT

PAGE:

BANK: ALL

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 120 SEWER ENTERPRISE FUN

SORTED BY FUND

TOTAL G/L G/L G/L NO# AMOUNT 1099 ACCT NO# AMOUNT VENDOR INVOICES NAME \_\_\_\_\_\_ 01-2788 GHD Ν FUND TOTAL FOR VENDOR 2,082.00 01-2792 ADVANCED SECURITY SYSTEMS Ν FUND TOTAL FOR VENDOR 306.00 350.94 01-2816 CARDMEMBER SERVICE FUND TOTAL FOR VENDOR Ν 01-2820 ALPHA ANALYTICAL LABORATO Ν FUND TOTAL FOR VENDOR 2,719.00 01-2823 GARDENS BY JILLIAN FUND TOTAL FOR VENDOR 100.00 Ν 01-2824 CALIFORNIA PUBLIC EMPLOYE FUND TOTAL FOR VENDOR Ν 4,152.46 01-2825 NATIONWIDE RETIREMENT SOL FUND TOTAL FOR VENDOR 1,147.50 Ν FUND TOTAL FOR VENDOR 01-2847 ALYSSA GORDON Ν 145.36 WESTGATE PETROLEUM CO., I FUND TOTAL FOR VENDOR 302.80 01-2860 N FUND TOTAL FOR VENDOR 2,643.56 01-2867 PETERSON CAT Ν 01-2876 BOLD POLISNER MADDOW NELS FUND TOTAL FOR VENDOR 123.75 N FUND TOTAL FOR VENDOR 2,559.99 01-2891 HERC RENTALS INC. Ν STREAMLINE FUND TOTAL FOR VENDOR 100.00 01-2909 Ν FUND TOTAL FOR VENDOR 101.99 01-2914 RAY MORGAN COMPANY N FUND TOTAL FOR VENDOR 01-2917 AT&T MOBILITY 32.32 Ν 01-2919 REGIONAL GOVERNMENT SERVI FUND TOTAL FOR VENDOR 55.00 Ν 01-2921 LOCAL GOVERNMENT COMMISSI FUND TOTAL FOR VENDOR 3,727.28 FUND TOTAL FOR VENDOR AMAZON CAPITAL SERVICES. 01-2922 Ν 62.34 01-2923 COUNTY OF LAKE - LAKE COU Ν FUND TOTAL FOR VENDOR 128,961.00 FUND TOTAL FOR VENDOR 01-2926 THATCHER COMPANY, INC. 4,218.92 N 400.00 01-2931 ARTISAN ELECTRIC Ν FUND TOTAL FOR VENDOR 01-2932 NOR-CAL TELECOM FUND TOTAL FOR VENDOR 360.00 Ν 01-2933 CSMFO Ν FUND TOTAL FOR VENDOR 55.00 MANAGEMENT CONNECTIONS 01-2934 Ν FUND TOTAL FOR VENDOR 1,179.83 01-8 FUND TOTAL FOR VENDOR 148.98 AT&T 01-9 PACIFIC GAS & ELECTRIC CO FUND TOTAL FOR VENDOR 4,439.00 Ν 01-981 U S POSTMASTER Ν FUND TOTAL FOR VENDOR 100.00 .....

#### ACCOUNTS PAYABLE

PAGE:

BANK: ALL

VENDOR SET: 01 Hidden Valley Lake DISBURSEMENT REPORT

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 130 WATER ENTERPRISE FUN

SORTED BY FUND

TOTAL G/L G/L G/L NO# AMOUNT 1099 ACCT NO# AMOUNT VENDOR NAME INVOICES NAME \_\_\_\_\_\_ 01-1 MISCELLANEOUS VENDOR Ν FUND TOTAL FOR VENDOR 1,189.61 01-1089 JOBS AVAILABLE Ν FUND TOTAL FOR VENDOR 22.50 01-11 STATE OF CALIFORNIA EDD FUND TOTAL FOR VENDOR 1,968.58 Ν 01-1392 MEDIACOM Ν FUND TOTAL FOR VENDOR 442.93 01-1579 SOUTH LAKE REFUSE COMPANY FUND TOTAL FOR VENDOR 187.66 Ν 560.10 01-1659 FUND TOTAL FOR VENDOR WAGNER & BONSIGNORE Ν 01-1705 SPECIAL DISTRICT RISK MAN FUND TOTAL FOR VENDOR 12,771.60 Ν FUND TOTAL FOR VENDOR 5,324.55 01-1722 US DEPARTMENT OF THE TREA Ν FUND TOTAL FOR VENDOR 01-1751 USA BLUE BOOK N 514.96 FUND TOTAL FOR VENDOR 1,585.00 NBS GOVERNMENT FINANCE GR 01-19 Ν 01-1961 ACWA/JPIA FUND TOTAL FOR VENDOR 426.09 N 6,936.71 01-21 CALIFORNIA PUBLIC EMPLOYE FUND TOTAL FOR VENDOR Ν DATAPROSE FUND TOTAL FOR VENDOR 159.00 01-2111 Ν FUND TOTAL FOR VENDOR 4,836.69 01-2195 TELSTAR INSTRUMENTS, INC Ν 97.50 01-2283 ARMED FORCE PEST CONTROL, FUND TOTAL FOR VENDOR Ν FUND TOTAL FOR VENDOR 1,755.69 01-2427 GRANITE CONSTRUCTION Ν 01-2538 HARDESTER'S MARKETS & HAR FUND TOTAL FOR VENDOR 34.90 FUND TOTAL FOR VENDOR MENDO MILL CLEARLAKE 01-2541 Ν 26.62 01-2585 TYLER TECHNOLOGY Ν FUND TOTAL FOR VENDOR 60.50 01-2598 VERIZON WIRELESS FUND TOTAL FOR VENDOR 394.54 N RICOH USA, INC. 01-2638 Ν FUND TOTAL FOR VENDOR 205.13 01-2684 OFFICE DEPOT FUND TOTAL FOR VENDOR Ν 185.22 01-2699 MICHELLE HAMILTON Ν FUND TOTAL FOR VENDOR 312.50 01-2749 NAPA AUTO PARTS Ν FUND TOTAL FOR VENDOR 78.29 CARDMEMBER SERVICE FUND TOTAL FOR VENDOR 695.29 01-2816 Ν 01-2820 ALPHA ANALYTICAL LABORATO FUND TOTAL FOR VENDOR 2,636.00 Ν 01-2823 GARDENS BY JILLIAN Ν FUND TOTAL FOR VENDOR 100.00

#### A C C O U N T S P A Y A B L E

VENDOR SET: 01 Hidden Valley Lake DISBURSEMENT REPORT

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 130 WATER ENTERPRISE FUN

SORTED BY FUND

PAGE:

BANK: ALL

TOTAL G/L G/L G/L NO# AMOUNT 1099 ACCT NO# AMOUNT VENDOR NAME INVOICES NAME \_\_\_\_\_\_ CALIFORNIA PUBLIC EMPLOYE FUND TOTAL FOR VENDOR 01-2824 Ν 4,152.45 01-2825 NATIONWIDE RETIREMENT SOL Ν FUND TOTAL FOR VENDOR 1,147.50 01-2847 ALYSSA GORDON FUND TOTAL FOR VENDOR 145.34 Ν 01-2860 WESTGATE PETROLEUM CO., I Ν FUND TOTAL FOR VENDOR 302.79 01-2867 PETERSON CAT FUND TOTAL FOR VENDOR 2,643.54 Ν BOLD POLISNER MADDOW NELS FUND TOTAL FOR VENDOR 01-2876 123.75 FUND TOTAL FOR VENDOR 01-2878 BADGER METER 198.00 N 01-2880 BENNETT SOLUTIONS Ν FUND TOTAL FOR VENDOR 180.18 01-2909 FUND TOTAL FOR VENDOR STREAMLINE 100.00 101.99 RAY MORGAN COMPANY FUND TOTAL FOR VENDOR 01-2914 Ν 01-2917 AT&T MOBILITY FUND TOTAL FOR VENDOR 32.32 FUND TOTAL FOR VENDOR 01-2919 REGIONAL GOVERNMENT SERVI Ν 55.00 LOCAL GOVERNMENT COMMISSI FUND TOTAL FOR VENDOR 3,727.26 01-2921 Ν AMAZON CAPITAL SERVICES, FUND TOTAL FOR VENDOR 01-2922 62.34 N 01-2926 THATCHER COMPANY, INC. FUND TOTAL FOR VENDOR 1,300.00CR FUND TOTAL FOR VENDOR 01-2931 ARTISAN ELECTRIC 400.00 N 01-2933 CSMFO FUND TOTAL FOR VENDOR 55.00 MANAGEMENT CONNECTIONS FUND TOTAL FOR VENDOR 1,179.84 01-2934 Ν FUND TOTAL FOR VENDOR 1,649.59 01-2935 CALIFORNIA WATER EFFICIEN FUND TOTAL FOR VENDOR 01-8 ΑΤ&Τ 148.97 N FUND TOTAL FOR VENDOR 13,833.62 01-9 PACIFIC GAS & ELECTRIC CO N 01-981 U S POSTMASTER FUND TOTAL FOR VENDOR 100.00 N

04-11-2018 04:44 PM A C C O U N T S P A Y A B L E

VENDOR SET: 01 Hidden Valley Lake D I S B U R S E M E N T R E P O R T

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 140 FLOOD ENTERPRISE FUN

SORTED BY FUND

PAGE: 5 BANK: ALL

VENDOR	NAME	NO# INVOICES	TOTAL AMOUNT	G/L 1099 ACCT NO#	G/L NAME	G/L AMOUNT
			==========			
01-9 	PACIFIC GAS & ELE	CTRIC CO		N 	FUND TOTAL FOR VENDOR	248.91
	*** FUND TOTALS	***				248.91
	*** REPORT TOTAI	.S ***	276,011.39			276,011.39

\*G / L EXPENSE DISTRIBUTION\*

ACCOUNT NUMBER	ACCOUNT NAME	AMOUNT
120 2088	SURVIVOR BENEFITS - PERS	15.97
120 2090	PERS PAYABLE	3,151.07
120 2091	FIT PAYABLE	3,964.30
120 2092	CIT PAYABLE	1,411.31
120 2093	SOCIAL SECURITY PAYABLE	17.98
120 2094	MEDICARE PAYABLE	660.50
120 2095	S D I PAYABLE	453.46
120 2099	DEFERRED COMP - 457 PLAN	1,147.50
120 5-00-5025	RETIREE HEALTH BENEFITS	1,745.73
120 5-00-5060	GASOLINE, OIL & FUEL	302.80
120 5-00-5061	VEHICLE MAINT	2,727.02
120 5-00-5080	MEMBERSHIP & SUBSCRIPTIONS	241.00
120 5-00-5092	POSTAGE & SHIPPING	211.16
120 5-00-5121	LEGAL SERVICES	123.75
120 5-00-5122	ENGINEERING SERVICES	2,082.00
120 5-00-5123	OTHER PROFESSIONAL SERVICES	5,367.28
120 5-00-5130	PRINTING & PUBLICATION	47.85
120 5-00-5145	EQUIPMENT RENTAL	2,867.12
120 5-00-5148	OPERATING SUPPLIES	6,127.31
120 5-00-5150	REPAIR & REPLACE	8,701.83
120 5-00-5155	MAINT BLDG & GROUNDS	224.12
120 5-00-5156	CUSTODIAL SERVICES	1,264.07
120 5-00-5157	SECURITY	306.00
120 5-00-5191	TELEPHONE	1,018.78
120 5-00-5192	ELECTRICITY	4,439.00
120 5-00-5193	OTHER UTILITIES	187.66
120 5-00-5194	IT SERVICES	95.00
120 5-00-5195	ENV/MONITORING	2,719.00
120 5-00-5315	SAFETY EQUIPMENT	569.96

04-11-2018 04:44 PMACCOUNTS PAYABLEVENDOR SET: 01 Hidden Valley LakeDISBURSEMENT REPORT

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 140 FLOOD ENTERPRISE FUN

#### SORTED BY FUND

PAGE: 6 BANK: ALL

\*G/L EXPENSE DISTRIBUTION\*

ACCOUNT NUMBER	ACCOUNT NAME	AMOUNT
120 5-10-5010	SALARIES & WAGES	394.23
120 5-10-5020	EMPLOYEE BENEFITS	6,006.11
120 5-10-5021	RETIREMENT BENEFITS	4,350.51
120 5-10-5090	OFFICE SUPPLIES	185.25
120 5-10-5170	TRAVEL MILEAGE	145.36
120 5-10-5175	EDUCATION / SEMINARS	266.45
	SALARIES & WAGES	1,441.96
	EMPLOYEE BENEFITS	2,408.85
	RETIREMENT BENEFITS	3,571.95
	DIRECTORS COMPENSATION	22.20
120 5-40-5020	DIRECTOR BENEFITS	8.99
120 5-40-5030	DIRECTOR HEALTH BENEFITS	3,261.45
120 5-60-6001	PW LKHVA01	128,961.00
120 0 00 0001	** FUND TOTAL **	203,214.84
	1000 101111	203/211.01
130 1052	ACCTS REC WATER USE	1,009.11
130 2088	SURVIVOR BENEFITS - PERS	15.65
130 2090	PERS PAYABLE	3,151.15
130 2091	FIT PAYABLE	3,964.41
130 2092	CIT PAYABLE	1,411.39
130 2093	SOCIAL SECURITY PAYABLE	19.22
130 2094	MEDICARE PAYABLE	660.89
130 2095	S D I PAYABLE	453.67
130 2099	DEFERRED COMP - PLAN 457 PAYAB	1,147.50
130 5-00-5025	RETIREE HEALTH BENEFITS	1,745.73
130 5-00-5060	GASOLINE, OIL & FUEL	302.79
130 5-00-5061	VEHICLE MAINT	2,726.98
130 5-00-5080	MEMBERSHIP & SUBSCRIPTIONS	1,860.59
130 5-00-5092	POSTAGE & SHIPPING	211.15
130 5-00-5121	LEGAL SERVICES	123.75
130 5-00-5123	OTHER PROFESSIONAL SERVICES	5,367.26
130 5-00-5124	WATER RIGHTS	560.10
130 5-00-5130	PRINTING & PUBLICATION	228.03
130 5-00-5145	EQUIPMENT RENTAL	307.12
130 5-00-5148	OPERATING SUPPLIES	1,150.76CR
130 5-00-5150	REPAIR & REPLACE	7,027.28
130 5-00-5155	MAINT BLDG & GROUNDS	224.12
130 5-00-5156	CUSTODIAL SERVICES	314.06
130 5-00-5191	TELEPHONE	1,018.76
130 5-00-5192	ELECTRICITY	13,833.62
130 5-00-5193	OTHER UTILITIES	187.66
130 5-00-5194	IT SERVICES	293.00
130 5-00-5195	ENV/MONITORING	2,636.00
130 5-00-5315	SAFETY EQUIPMENT	437.81
130 5-00-5505	WATER CONSERVATION	50.00
130 5-10-5010	SALARIES & WAGES	394.21
130 5-10-5020	EMPLOYEE BENEFITS	6,006.08

04-11-2018 04:44 PMA C C O U N T S P A Y A B L EPAGE: 7VENDOR SET: 01 Hidden Valley LakeD I S B U R S E M E N T R E P O R TBANK: ALL

VENDOR CLASS(ES): ALL CLASSES

REPORTING FUND NO#: 140 FLOOD ENTERPRISE FUN

SORTED BY FUND

\*G/L EXPENSE DISTRIBUTION\*

ACCOUNT NUMBER	ACCOUNT NAME	AMOUNT
130 5-10-5021	RETIREMENT BENEFITS	4,350.44
130 5-10-5090	OFFICE SUPPLIES	185.22
130 5-10-5170	TRAVEL MILEAGE	177.47
130 5-10-5175	EDUCATION / SEMINARS	333.70
130 5-30-5010	SALARIES & WAGES	1,441.96
130 5-30-5020	EMPLOYEE BENEFITS	2,408.84
130 5-30-5021	RETIREMENT BENEFITS	3,571.92
130 5-40-5010	DIRECTORS COMPENSATION	23.70
130 5-40-5020	DIRECTOR BENEFTIS	9.61
130 5-40-5030	DIRECTOR HEALTH BENEFITS	3,261.45
130 5-40-5176	DIRECTOR TRAINING	245.00
	** FUND TOTAL **	72,547.64
140 5-00-5192	ELECTRICITY	248.91
	** FUND TOTAL **	248.91
	** TOTAL **	276,011.39

NO ERRORS

ACCOUNTS PAYABLE PAGE: 8

SELECTION CRITERIA

VENDOR SET: 01 Hidden Valley Lake

VENDOR: ALL

BANK: ALL

VENDOR CLASS(ES): ALL CLASSES ------

TRANSACTION SELECTION

REPORTING: PAID ITEMS ,G/L DIST

=====PAYMENT DATES====== ===ITEM DATES====== ====POSTING DATES======

PAID ITEMS DATES : 3/01/2018 THRU 3/31/2018 0/00/0000 THRU 99/99/9999 0/00/0000 THRU 99/99/9999

PRINT OPTIONS

REPORT SEQUENCE: FUND

G/L EXPENSE DISTRIBUTION: YES

CHECK RANGE: 000000 THRU 999999

------

4-11-2018 05:00 PM HIDDEN VALLEY LAKE CSD PAGE: 1

> REVENUE & EXPENSE REPORT (UNAUDITED) AS OF: MARCH 31ST, 2018

CURRENT CURRENT YEAR TO DATE BUDGET % OF

120-SEWER ENTERPRISE FUND

FINANCIAL SUMMARY

	BUDGET	PERIOD	ACTUAL	BALANCE	BUDGET
REVENUE SUMMARY					
ALL REVENUE	1,279,509.00	97,321.05	1,079,319.48	200,189.52	84.35
TOTAL REVENUES	1,279,509.00	97 <b>,</b> 321.05	1,079,319.48	200,189.52	84.35
EXPENDITURE SUMMARY					
NON-DEPARTMENTAL	520,588.00	41,683.27	415,481.14	105,106.86	79.81
ADMINISTRATION	447,486.00	38,645.31	274,480.26	173,005.74	61.34
OFFICE	0.00	0.00	0.00	0.00	0.00
FIELD	262,904.80	25,499.12	184,145.89	78,758.91	70.04
DIRECTORS	43,356.00	3,437.64	33,286.47	10,069.53	76.77
TOTAL EXPENDITURES	1,274,334.80	109,265.34	907,393.76	366,941.04	71.21
REVENUES OVER/(UNDER) EXPENDITURES	5,174.20 (	11,944.29)	171,925.72 (	166,751.52)	3,322.75

4-11-2018 05:00 PM HIDDEN VALLEY LAKE CSD PAGE: 2

#### REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

120-SEWER ENTERPRISE FUND REVENUES

		CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL		BUDGET BALANCE	% OF BUDGET
					,		
	INSPECTION FEES	500.00	0.00	700.00	(	200.00)	140.00
	DEVELOPER SEWER FEES	0.00	0.00	0.00		0.00	0.00
120-4040	Lien Recording Fee	0.00	0.00	0.00		0.00	0.00
120-4045	AVAILABILITY FEES	7,000.00	0.00	4,405.65		2,594.35	62.94
120-4050	SALES OF RECLAIMED WATER	90,000.00	11.64	93,128.36	(	3,128.36)	103.48
120-4111	COMM SEWER USE	26,868.00	2,459.80	24,313.42		2,554.58	90.49
120-4112	GOV'T SEWER USE	590.00	58.77	582.05		7.95	98.65
120-4116	SEWER USE CHARGES	1,153,051.00	85,840.58	769,181.82		383,869.18	66.71
120-4210	LATE FEE	0.00	0.00	50.20	(	50.20)	0.00
120-4300	MISC INCOME	1,000.00	26.22	19,221.81	(	18,221.81)	1,922.18
120-4310	OTHER INCOME	0.00	0.00	0.00		0.00	0.00
120-4320	FEMA/CalOES Grants	0.00	8,921.00	8,921.00	(	8,921.00)	0.00
120-4505	LEASE INCOME	0.00	0.00	0.00		0.00	0.00
120-4550	INTEREST INCOME	500.00	3.04	420.87		79.13	84.17
120-4580	TRANSFERS IN	0.00	0.00	158,394.30	(	158,394.30)	0.00
120-4591	INCOME APPLICABLE TO PRIOR YRS	0.00	0.00	0.00		0.00	0.00
120-4955	Gain/Loss	0.00	0.00	0.00		0.00	0.00
TOTAL RE	VENUES	1,279,509.00	97,321.05	1,079,319.48		200,189.52	84.35

#### REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

120-SEWER ENTERPRISE FUND

NON-DEPARTMENTAL

		CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL		BUDGET BALANCE	% OF BUDGET
120-5-00-5010	SALARY & WAGES	0.00	0.00	0.00		0.00	0.00
120-5-00-5020	EMPLOYEE BENEFITS	0.00	0.00	0.00		0.00	0.00
120-5-00-5021	RETIREMENT BENEFITS	0.00	0.00	16.86	(	16.86)	0.00
120-5-00-5024	WORKERS' COMP INSURANCE	9,500.00	0.00	11,103.95	(	1,603.95)	116.88
120-5-00-5025	RETIREE HEALTH BENEFITS	10,500.00	872.85	7,584.39		2,915.61	72.23
120-5-00-5026	COBRA Health & Dental	0.00	0.00	( 33.72)		33.72	0.00
120-5-00-5040	ELECTION EXPENSE	0.00	0.00	0.00		0.00	0.00
120-5-00-5050	DEPRECIATION	0.00	0.00	0.00		0.00	0.00
120-5-00-5060	GASOLINE, OIL & FUEL	8,000.00	302.80	5,917.44		2,082.56	73.97
120-5-00-5061	VEHICLE MAINT	7,500.00	2,727.02	9,934.27	(	2,434.27)	132.46
120-5-00-5062	TAXES & LIC	500.00	0.00	708.68	(	208.68)	141.74
120-5-00-5074	INSURANCE	18,000.00	0.00	23,794.18	(	5,794.18)	132.19
120-5-00-5075	BANK FEES	13,400.00	1,188.96	10,572.25		2,827.75	78.90
120-5-00-5080	MEMBERSHIP & SUBSCRIPTIONS	5,000.00	241.00	6,148.61	(	1,148.61)	122.97
120-5-00-5092	POSTAGE & SHIPPING	5,000.00	209.91	4,493.37		506.63	89.87
	CONTRACTUAL SERVICES	0.00	0.00	0.00		0.00	0.00
	LEGAL SERVICES	5,000.00	123.75	2,823.75		2,176.25	56.48
	ENGINEERING SERVICES	27,000.00	2,082.00	17,084.98		9,915.02	63.28
	OTHER PROFESSIONAL SERVICE	90,000.00	5,367.28	22,946.05		67,053.95	25.50
	AUDIT SERVICES	7,500.00	0.00	5,800.00		1,700.00	77.33
	PRINTING & PUBLICATION	5,000.00	47.85	2,389.48		2,610.52	47.79
120-5-00-5135		500.00	0.00	0.00		500.00	0.00
	RENTS & LEASES	0.00	0.00	0.00	,	0.00	0.00
	EQUIPMENT RENTAL	10,000.00	2,867.12	12,607.20		2,607.20)	126.0
	OPERATING SUPPLIES	18,000.00	6,127.31	20,873.43	(	2,873.43)	115.96
	REPAIR & REPLACE	75,000.00	8,701.83	61,185.18		13,814.82	81.58
	MAINT BLDG & GROUNDS	10,000.00	224.12	3,499.17		6,500.83	34.99
	CUSTODIAL SERVICES	15,150.00	1,264.07	11,364.07		3 <b>,</b> 785.93	75.01
120-5-00-5157		5,000.00	306.00	702.00		4,298.00	14.04
	SLUDGE DISPOSAL	26,000.00	0.00	27,664.58	(	1,664.58)	106.40
120-5-00-5180	UNCOLLECTABLE ACCOUNTS	0.00	0.00	0.00		0.00	0.00
120-5-00-5191	TELEPHONE	8,500.00	1,018.78	8,565.91	(	65.91)	100.78
120-5-00-5192		72,888.00	4,439.00	74,734.25			
120-5-00-5193	OTHER UTILITIES	2,600.00	187.66	1,491.22		1,108.78	57.35
120-5-00-5194	IT SERVICES	24,500.00	95.00	27,955.03	(	3,455.03)	114.10
120-5-00-5195	ENV/MONITORING	32,000.00	2,719.00	23,632.70		8,367.30	73.85
120-5-00-5196	RISK MANAGEMENT	0.00	0.00	0.00		0.00	0.00
120-5-00-5198	ANNUAL OPERATING FEES	2,000.00	0.00	1,722.00		278.00	86.10
120-5-00-5310	EQUIPMENT - FIELD	1,500.00	0.00	112.86		1,387.14	7.52
120-5-00-5311	EQUIPMENT - OFFICE	1,300.00	0.00	148.13		1,151.87	11.39
120-5-00-5312	TOOLS - FIELD	1,000.00	0.00	23.38		976.62	2.34
120-5-00-5315	SAFETY EQUIPMENT	2,500.00	569.96	3,687.99	(	1,187.99)	147.52
120-5-00-5510	SEWER OUTREACH	0.00	0.00	0.00		0.00	0.00
120-5-00-5545	RECORDING FEES	250.00	0.00	227.50		22.50	91.00
120-5-00-5580	TRANSFERS OUT	0.00	0.00	4,000.00	(	4,000.00)	0.00
	NON-OPERATING OTHER	0.00	0.00	0.00		0.00	0.00
		0.00	0.00	0.00		0.00	0.00
120-5-00-5591	EXPENSES APPLICABLE TO PRI	0.00				0.00	0.00
120-5-00-5591 120-5-00-5600		0.00	0.00	0.00		0.00	0.00

4-11-2018 05:00 PM

HIDDEN VALLEY LAKE CSD

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

PAGE: 4

120-SEWER ENTERPRISE FUND

NON-DEPARTMENTAL

	CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL	BUDGET BALANCE	% OF BUDGET
120-5-00-5700 OVER / SHORT	0.00	0.00	0.00	0.00	0.00
TOTAL NON-DEPARTMENTAL	520,588.00	41,683.27	415,481.14	105,106.86	79.81

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

120-SEWER ENTERPRISE FUND

ADMINISTRATION

	CURRENT	CURRENT	YEAR TO DATE	BUDGET	% OF
	BUDGET	PERIOD	ACTUAL	BALANCE	BUDGET
120-5-10-5010 SALARIES & WAGES	311,436.00	27,610.86	174,034.65	137,401.35	55.88
120-5-10-5020 EMPLOYEE BENEFITS	74,000.00	6,086.88	59,771.43	14,228.57	80.77
120-5-10-5021 RETIREMENT BENEFITS	51,500.00	4,350.51	34,826.48	16,673.52	67.62
120-5-10-5063 CERTIFICATIONS	0.00	0.00	0.00	0.00	0.00
120-5-10-5090 OFFICE SUPPLIES	4,000.00	185.25	2,702.85	1,297.15	67.57
120-5-10-5170 TRAVEL MILEAGE	1,200.00	145.36	624.02	575.98	52.00
120-5-10-5175 EDUCATION / SEMINARS	5,000.00	266.45	2,334.14	2,665.86	46.68
120-5-10-5179 ADM MISC EXPENSES	350.00	0.00	186.69	163.31	53.34
MOMAT ADMINITUMDAMION	447 496 00	20 645 21	274 490 26	172 005 74	61.34
TOTAL ADMINISTRATION	447,486.00	38,645.31	274,480.26	173,005.74	61.34

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

120-SEWER ENTERPRISE FUND

OFFICE

	CURRENT BUDGET	CURRENT	YEAR TO DATE	BUDGET	% OF BUDGET
		PERIOD	ACTUAL	BALANCE	
120-5-20-5010 SALARIES & WAGES	0.00	0.00	0.00	0.00	0.00
120-5-20-5020 EMPLOYEE BENEFITS	0.00	0.00	0.00	0.00	0.00
TOTAL OFFICE	0.00	0.00	0.00	0.00	0.00

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

120-SEWER ENTERPRISE FUND

FIELD

	CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL	BUDGET BALANCE	% OF BUDGET
120-5-30-5010 SALARIES & WAGES	170,302.80	19,356.78	119,660.90	50,641.90	70.26
120-5-30-5020 EMPLOYEE BENEFITS	48,304.00	2,570.39	31,516.18	16,787.82	65.25
120-5-30-5021 RETIREMENT BENEFITS	35,498.00	3,571.95	28,532.39	6,965.61	80.38
120-5-30-5022 CLOTHING ALLOWANCE	1,800.00	0.00	1,227.86	572.14	68.21
120-5-30-5063 CERTIFICATIONS	1,500.00	0.00	435.00	1,065.00	29.00
120-5-30-5090 OFFICE SUPPLIES	2,000.00	0.00	339.20	1,660.80	16.96
120-5-30-5170 TRAVEL MILEAGE	500.00	0.00	509.36 (	9.36)	101.87
120-5-30-5175 EDUCATION / SEMINARS	3,000.00	0.00	1,925.00	1,075.00	64.17
TOTAL FIELD	262,904.80	25,499.12	184,145.89	78,758.91	70.04

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018 120-SEWER ENTERPRISE FUND

DIRECTORS

EXPENDITURES

	CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL	BUDGET BALANCE	% OF BUDGET
120-5-40-5010 DIRECTORS COMPENSATION	3,000.00	167.20	1,404.90	1,595.10	46.83
120-5-40-5020 DIRECTOR BENEFITS	100.00	8.99	43.14	56.86	43.14
120-5-40-5030 DIRECTOR HEALTH BENEFITS	38,556.00	3,261.45	31,405.80	7,150.20	81.46
120-5-40-5170 TRAVEL MILEAGE	200.00	0.00	132.63	67.37	66.32
120-5-40-5175 EDUCATION / SEMINARS	0.00	0.00	0.00	0.00	0.00
120-5-40-5176 DIRECTOR TRAINING	1,500.00	0.00	300.00	1,200.00	20.00
TOTAL DIRECTORS	43,356.00	3,437.64	33,286.47	10,069.53	76.77
TOTAL EXPENDITURES	1,274,334.80	109,265.34	907,393.76	366,941.04	71.21
REVENUES OVER/(UNDER) EXPENDITURES	5,174.20 (	11,944.29)	171,925.72 (	166,751.52)	3,322.75

\*\*\* END OF REPORT \*\*\*

> REVENUE & EXPENSE REPORT (UNAUDITED) AS OF: MARCH 31ST, 2018

CURRENT CURRENT YEAR TO DATE BUDGET % OF

PAGE: 1

130-WATER ENTERPRISE FUND

FINANCIAL SUMMARY

	BUDGET	PERIOD	ACTUAL	BALANCE	BUDGET
REVENUE SUMMARY					
ALL REVENUE	1,677,221.00	100,705.04	1,082,853.49	594,367.51	64.56
TOTAL REVENUES	1,677,221.00	100,705.04	1,082,853.49	594,367.51	64.56
EXPENDITURE SUMMARY					
NON-DEPARTMENTAL	762,170.00	38,619.89	452,285.72	309,884.28	59.34
ADMINISTRATION	298,266.40	38,744.70	275,100.07	23,166.33	92.23
OFFICE	0.00	0.00	0.00	0.00	0.00
FIELD	304,030.80	25,499.24	209,481.78	94,549.02	68.90
DIRECTORS	43,656.00	3,694.76	33,630.72	10,025.28	77.04
TOTAL EXPENDITURES	1,408,123.20	106,558.59	970,498.29	437,624.91	68.92
	=======================================	========	=========	=========	======

REVENUES OVER/(UNDER) EXPENDITURES 269,097.80 ( 5,853.55) 112,355.20 156,742.60 41.75

#### REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

130-WATER ENTERPRISE FUND REVENUES

	CURRENT	CURRENT	YEAR TO DATE		BUDGET	% OF
	BUDGET	PERIOD	ACTUAL		BALANCE	BUDGET
DECONNECT FEE	12 000 00	E0E 00	0 000 00		2 100 00	76.15
	•		·		•	0.00
						34.00
				,		874.46
					,	
	•		•		•	74.06
	•		,		,	83.10
	•		·		•	67.50
		,	•		,	61.67
WATER OVERAGE FEE	0.00	0.00	0.00		0.00	0.00
WATER OVERAGE COMM	0.00	0.00	0.00		0.00	0.00
WATER OVERAGE GOV	0.00	0.00	0.00		0.00	0.00
LATE FEE	28,000.00	2,097.28	22,851.90		5,148.10	81.61
RETURNED CHECK FEE	1,200.00	100.00	800.00		400.00	66.67
MISC INCOME	1,500.00	26.23	19,626.86	(	18,126.86)	1,308.46
OTHER INCOME	0.00	0.00	0.00		0.00	0.00
LEASE INCOME	0.00	0.00	0.00		0.00	0.00
INTEREST INCOME	500.00	2.50	607.40	(	107.40)	121.48
TRANSFER IN	0.00	0.00	0.00		0.00	0.00
INCOME APPLICABLE TO PRIOR YRS	0.00	0.00	0.00		0.00	0.00
Gain/Loss	0.00	0.00	0.00		0.00	0.00
/ENUES	1,677,221.00	100,705.04	1,082,853.49		594,367.51	64.56
	WATER OVERAGE GOV LATE FEE RETURNED CHECK FEE MISC INCOME OTHER INCOME LEASE INCOME INTEREST INCOME TRANSFER IN INCOME APPLICABLE TO PRIOR YRS Gain/Loss	RECONNECT FEE 13,000.00  COMM WATER METER INSTALL 0.00  WATER METER INST 1,000.00  RECORDING FEE 100.00  AVAILABILITY FEES 25,000.00  COMM WATER USE 84,081.00  GOV'T WATER USE 6,101.00  WATER USE 1,516,739.00  WATER OVERAGE FEE 0.00  WATER OVERAGE GOV 0.00  LATE FEE 28,000.00  RETURNED CHECK FEE 1,200.00  MISC INCOME 1,500.00  OTHER INCOME 0.00  INTEREST INCOME 500.00  TRANSFER IN 0.00  Gain/Loss 0.00	RECONNECT FEE 13,000.00 585.00 COMM WATER METER INSTALL 0.00 0.00 WATER METER INST 1,000.00 0.00 RECORDING FEE 100.00 468.60 AVAILABILITY FEES 25,000.00 0.00 COMM WATER USE 84,081.00 5,098.37 GOV'T WATER USE 6,101.00 511.51 WATER USE 1,516,739.00 91,815.55 WATER OVERAGE FEE 0.00 0.00 WATER OVERAGE FEE 0.00 0.00 WATER OVERAGE GOV 0.00 0.00 LATE FEE 28,000.00 2,097.28 RETURNED CHECK FEE 1,200.00 100.00 MISC INCOME 1,500.00 26.23 OTHER INCOME 0.00 0.00 INTEREST INCOME 500.00 2.50 TRANSFER IN 0.00 0.00 INCOME APPLICABLE TO PRIOR YRS 0.00 0.00 Gain/Loss 0.00 0.00	RECONNECT FEE 13,000.00 585.00 9,900.00 COMM WATER METER INSTALL 0.00 0.00 340.00 RECORDING FEE 100.00 468.60 874.46 AVAILABILITY FEES 25,000.00 0.00 18,514.35 COMM WATER USE 84,081.00 5,098.37 69,868.26 GOV'T WATER USE 6,101.00 511.51 4,118.30 WATER USE 1,516,739.00 91,815.55 935,351.96 WATER OVERAGE FEE 0.00 0.00 0.00 0.00 WATER OVERAGE GOV 0.00 0.00 0.00 0.00 WATER OVERAGE GOV 0.00 0.00 0.00 0.00 WATER OVERAGE GOV 0.00 0.00 0.00 0.00 MATER OVERAGE FEE 1,200.00 100.00 800.00 MISC INCOME 1,500.00 26.23 19,626.86 OTHER INCOME 0.00 0.00 0.00 0.00 0.00 INTEREST INCOME 0.00 0.00 0.00 0.00 0.00 INTEREST INCOME 500.00 0.00 0.00 0.00 0.00 INCOME APPLICABLE TO PRIOR YRS 0.00 0.00 0.00 0.00 Gain/Loss 0.00 0.00 0.00 0.00 0.00	RECONNECT FEE 13,000.00 585.00 9,900.00 COMM WATER METER INSTALL 0.00 0.00 340.00 RECORDING FEE 100.00 468.60 874.46 (AVAILABILITY FEES 25,000.00 0.00 18,514.35 COMM WATER USE 84,081.00 5,098.37 69,868.26 GOV'T WATER USE 6,101.00 511.51 4,118.30 WATER USE 1,516,739.00 91,815.55 935,351.96 WATER OVERAGE FEE 0.00 0.00 0.00 0.00 WATER OVERAGE GOV 0.00 0.00 0.00 0.00 0.00 WATER OVERAGE FEE 1,200.00 100.00 800.00 MISC INCOME 1,500.00 26.23 19,626.86 (OTHER INCOME 0.00 0.00 0.00 0.00 0.00 USC INCOME 0.00 0.00 0.00 0.00 0.00 USC INCOME 0.00 0.00 0.00 0.00 0.00 0.00 USC INCOME 0.00 0.00 0.00 0.00 0.00 0.00 0.00 USC INCOME 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	RECONNECT FEE 13,000.00 585.00 9,900.00 3,100.00 COMM WATER METER INSTALL 0.00 0.00 340.00 660.00 RECORDING FEE 100.00 468.60 874.46 (774.46) AVAILABILITY FEES 25,000.00 0.00 18,514.35 6,485.65 COMM WATER USE 84,081.00 5,098.37 69,868.26 14,212.74 GOV'T WATER USE 6,101.00 511.51 4,118.30 1,982.70 WATER USE 1,516,739.00 91,815.55 935,351.96 581,387.04 WATER OVERAGE FEE 0.00 0.00 0.00 0.00 0.00 WATER OVERAGE COMM 0.00 0.00 0.00 0.00 0.00 0.00 WATER OVERAGE GOV 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.

AS OF: MARCH 31ST, 2018

CURRENT CURRENT YEAR TO DATE BUDGET % OF

130-WATER ENTERPRISE FUND

NON-DEPARTMENTAL

		CURRENT	CURRENT	YEAR TO DATE		BUDGET	% OF.
		BUDGET	PERIOD	ACTUAL		BALANCE	BUDGET
130-5-00-5010	SALARY & WAGES	0.00	0.00	0.00		0.00	0.00
130-5-00-5020	EMPLOYEE BENEFITS	0.00	0.00	0.00		0.00	0.00
130-5-00-5021	RETIREMENT BENEFITS	0.00	0.00	16.86	(	16.86)	
130-5-00-5024	WORKERS' COMP INSURANCE	9,500.00	0.00	11,103.94	(	1,603.94)	116.88
130-5-00-5025	RETIREE HEALTH BENEFITS	10,400.00	872.88	10,917.88	(	517.88)	104.98
130-5-00-5026	COBRA Health & Dental	0.00	0.00	( 33.72)		33.72	0.00
130-5-00-5040	ELECTION EXPENSE	0.00	0.00	0.00		0.00	0.00
130-5-00-5050	DEPRECIATION	0.00	0.00	0.00		0.00	0.00
130-5-00-5060	GASOLINE, OIL & FUEL	6,000.00	302.79	4,848.21		1,151.79	80.80
130-5-00-5061	VEHICLE MAINT	7,500.00	2,726.98	9,749.94	(	2,249.94)	130.00
130-5-00-5062	TAXES & LIC	1,200.00	0.00	708.65		491.35	59.05
130-5-00-5074	INSURANCE	25,000.00	0.00	23,794.19		1,205.81	95.18
130-5-00-5075	BANK FEES	13,400.00	1,188.94	10,572.08		2,827.92	78.90
130-5-00-5080	MEMBERSHIP & SUBSCRIPTIONS	21,000.00	1,860.59	22,494.59	(	1,494.59)	107.12
130-5-00-5092	POSTAGE & SHIPPING	6,000.00	209.90	4,493.31		1,506.69	74.89
130-5-00-5110	CONTRACTUAL SERVICES	0.00	0.00	0.00		0.00	0.00
130-5-00-5121	LEGAL SERVICES	10,000.00	123.75	2,823.75		7,176.25	28.24
130-5-00-5122	ENGINEERING SERVICES	60,000.00	0.00	297.50		59,702.50	0.50
130-5-00-5123	OTHER PROFESSIONAL SERVICE	35,000.00	5,367.26	22,946.00		12,054.00	65.56
130-5-00-5124	WATER RIGHTS	70,000.00	560.10	2,957.90		67,042.10	4.23
130-5-00-5126	AUDIT SERVICES	7,500.00	0.00	5,800.00		1,700.00	77.33
130-5-00-5130	PRINTING & PUBLICATION	7,750.00	228.03	2,569.61		5,180.39	33.16
130-5-00-5135	NEWSLETTER	500.00	0.00	0.00		500.00	0.00
130-5-00-5140	RENT & LEASES	0.00	0.00	0.00		0.00	0.00
130-5-00-5145	EQUIPMENT RENTAL	17,500.00	307.12	2,242.62		15,257.38	12.81
130-5-00-5148	OPERATING SUPPLIES	1,400.00 (	1,150.76)	1,097.93		302.07	78.42
130-5-00-5150	REPAIR & REPLACE	185,000.00	7,027.28	103,969.79		81,030.21	56.20
130-5-00-5155	MAINT BLDG & GROUNDS	8,509.00	224.12	11,096.87	(	2,587.87)	130.41
130-5-00-5156	CUSTODIAL SERVICES	3,750.00	314.06	2,814.06		935.94	75.04
130-5-00-5157	SECURITY	5,000.00	0.00	396.00		4,604.00	7.92
130-5-00-5180	UNCOLLECTABLE ACCOUNTS	0.00	0.00	0.00		0.00	0.00
130-5-00-5191	TELEPHONE	9,100.00	1,018.76	15,256.97	(	6,156.97)	167.66
130-5-00-5192	ELECTRICITY	107,711.00	13,833.62	104,148.21		3,562.79	96.69
130-5-00-5193	OTHER UTILITIES	2,200.00	187.66	1,491.36		708.64	67.79
130-5-00-5194	IT SERVICES	24,500.00	293.00	28,090.07	(	3,590.07)	114.65
130-5-00-5195	ENV/MONITORING	15,000.00	2,636.00	10,480.44		4,519.56	69.87
130-5-00-5196	RISK MANAGEMENT	0.00	0.00	0.00		0.00	0.00
130-5-00-5198	ANNUAL OPERATING FEES	30,000.00	0.00	25,488.50		4,511.50	84.96
130-5-00-5310	EQUIPMENT - FIELD	2,000.00	0.00	112.86		1,887.14	5.64
130-5-00-5311	EQUIPMENT - OFFICE	1,000.00	0.00	0.00		1,000.00	0.00
130-5-00-5312	TOOLS - FIELD	2,000.00	0.00	23.37		1,976.63	1.17
130-5-00-5315	SAFETY EQUIPMENT	2,500.00	437.81	2,350.28		149.72	94.01
130-5-00-5505	WATER CONSERVATION	9,000.00	50.00	6,938.20		2,061.80	77.09
130-5-00-5545	RECORDING FEES	250.00	0.00	227.50		22.50	91.00
130-5-00-5580	TRANSFERS OUT	0.00	0.00	0.00		0.00	0.00
130-5-00-5590	NON-OPERATING OTHER	0.00	0.00	0.00		0.00	0.00
130-5-00-5591	EXPENSES APPLICABLE TO PRI	0.00	0.00	0.00		0.00	0.00
130-5-00-5600		45,000.00	0.00	0.00		45,000.00	0.00
130-5-00-5650	OPERATING RESERVES	0.00	0.00	0.00		0.00	0.00
130-5-00-5591 130-5-00-5600	EXPENSES APPLICABLE TO PRI CONTINGENCY	0.00 45,000.00	0.00	0.00		0.00 45,000.00	0.

4-11-2018 05:00 PM

HIDDEN VALLEY LAKE CSD

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

762,170.00 38,619.89 452,285.72 309,884.28 59.34

PAGE: 4

130-WATER ENTERPRISE FUND

TOTAL NON-DEPARTMENTAL

NON-DEPARTMENTAL

CURRENT	CURRENT	YEAR TO DATE	BUDGET	% OF
BUDGET	PERIOD	ACTUAL	BALANCE	BUDGET

#### REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

298,266.40 38,744.70 275,100.07 23,166.33 92.23

130-WATER ENTERPRISE FUND

TOTAL ADMINISTRATION

ADMINISTRATION EXPENDITURES

		CURRENT	CURRENT	YEAR TO DATE	BUDGET	% OF
		BUDGET	PERIOD	ACTUAL	BALANCE	BUDGET
130-5-10-5010	SALARIES & WAGES	166,418.40	27,611.03	175,217.60 (	8,799.20)	105.29
130-5-10-5020	EMPLOYEE BENEFITS	70,000.00	6,086.84	59,521.43	10,478.57	85.03
130-5-10-5021	RETIREMENT BENEFITS	40,498.00	4,350.44	34,258.50	6,239.50	84.59
130-5-10-5063	CERTIFICATIONS	0.00	0.00	80.00 (	80.00)	0.00
130-5-10-5090	OFFICE SUPPLIES	4,000.00	185.22	2,651.52	1,348.48	66.29
130-5-10-5170	TRAVEL MILEAGE	3,000.00	177.47	656.10	2,343.90	21.87
130-5-10-5175	EDUCATION / SEMINARS	5,000.00	333.70	2,528.26	2,471.74	50.57
130-5-10-5179	ADM MISC EXPENSES	350.00	0.00	186.66	163.34	53.33
130-5-10-5505	WATER CONSERVATION	9,000.00	0.00	0.00	9,000.00	0.00

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

130-WATER ENTERPRISE FUND

OFFICE

	CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL	BUDGET	% OF BUDGET
130-5-20-5010 SALARIES & WAGES	0.00	0.00	0.00	0.00	0.00
130-5-20-5020 EMPLOYEE BENEFITS	0.00	0.00	0.00	0.00	0.00
TOTAL OFFICE	0.00	0.00	0.00	0.00	0.00

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

130-WATER ENTERPRISE FUND

FIELD

	CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL	BUDGET BALANCE	% OF BUDGET
130-5-30-5010 SALARIES & WAGES	211,538.80	19,356.96	144,119.10	67,419.70	68.13
130-5-30-5020 EMPLOYEE BENEFITS	39,094.00	2,570.36	31,967.36	7,126.64	81.77
130-5-30-5021 RETIREMENT BENEFITS	46,498.00	3,571.92	31,443.15	15,054.85	67.62
130-5-30-5022 CLOTHING ALLOWANCE	1,800.00	0.00	1,227.83	572.17	68.21
130-5-30-5063 CERTIFICATIONS	600.00	0.00	145.00	455.00	24.17
130-5-30-5090 OFFICE SUPPLIES	1,000.00	0.00	290.49	709.51	29.05
130-5-30-5170 TRAVEL MILEAGE	500.00	0.00	171.38	328.62	34.28
130-5-30-5175 EDUCATION / SEMINARS	3,000.00	0.00	117.47	2,882.53	3.92
	204 020 00	05 400 04	000 401 70	04 540 00	60.00
TOTAL FIELD	304,030.80	25,499.24	209,481.78	94,549.02	68.90

REVENUE & EXPENSE REPORT (UNAUDITED)

AS OF: MARCH 31ST, 2018

130-WATER ENTERPRISE FUND DIRECTORS

EXPENDITURES

	CURRENT BUDGET	CURRENT PERIOD	YEAR TO DATE ACTUAL	BUDGET BALANCE	% OF BUDGET
130-5-40-5010 DIRECTORS COMPENSATION	3,000.00	178.70	1,501.65	1,498.35	50.06
130-5-40-5020 DIRECTOR BENEFTIS	100.00	9.61	45.66	54.34	45.66
130-5-40-5030 DIRECTOR HEALTH BENEFITS	38,556.00	3,261.45	31,405.80	7,150.20	81.46
130-5-40-5080 MEMBERSHIP & SUBSCRIPTION	0.00	0.00	0.00	0.00	0.00
130-5-40-5170 TRAVEL MILEAGE	500.00	0.00	132.61	367.39	26.52
130-5-40-5175 EDUCATION / SEMINARS	0.00	0.00	0.00	0.00	0.00
130-5-40-5176 DIRECTOR TRAINING	1,500.00	245.00	545.00	955.00	36.33
TOTAL DIRECTORS	43,656.00	3,694.76	33,630.72	10,025.28	77.04
TOTAL EXPENDITURES	1,408,123.20	106,558.59	970,498.29	437,624.91	68.92 =====
REVENUES OVER/(UNDER) EXPENDITURES	269,097.80 (	5,853.55) ======	112,355.20	156 <b>,</b> 742.60	41.75

\*\*\* END OF REPORT \*\*\*



#### HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

#### March 2018 FINANCIAL REPORT POOLED CASH

AS OF March 31, 2018

Beginning Balance	658,480.07
Cash Receipts	
Deposit	237,327.35
Transfers	0.00
Total Receipts	237,327.35
Cash Disbursements	
Accounts Payable + Bank Draft	275,965.49
Payroll	69,346.06
Bank Fees	2,377.90
Total Disbursements	347,689.45
Ending Balance	548,117.97

#### **TEMPORARY INVESTMENTS**

AS OF March 31, 2018

	Fund	LAIF	Money Mkt	Total	G/L Bal
120	Sewer Operating Fund	68,222.13	52,198.31	120,420.44	120,420.44
130	Water Operating Fund	101,670.82	42,810.90	144,481.72	144,481.72
215	1995-2 Redemption	61,693.29	199,623.44	261,316.73	261,316.73
218	CIEDB Redemption	11,672.40	-	11,672.40	11,672.40
219	USDARUS Solar Loan (Sewer)	830.72	79,178.77	80,009.49	80,009.49
313	Wastewater Cap Fac Reserved	262,284.66	65,656.58	327,941.24	327,941.24
314	Wastewater Cap Fac Unrestricted	264,982.18	63,394.17	328,376.35	328,376.35
319	Solar Reserve	-	31,254.86	31,254.86	31,254.86
320	Water Capital Fund	-	-	-	-
350	CIEDB Loan Reserve	173,571.60	-	173,571.60	173,571.60
711	Bond Administration	27,529.89	4,757.82	32,287.71	32,287.71
	TOTAL	972,457.69	538,874.86	1,511,332.55	1,511,332.55

CHECK RECONCILIATION REGISTER

4/11/2018 2:46 PM PAGE: 1 COMPANY: 999 - POOLED CASH FUND CHECK DATE: 3/01/2018 THRU 3/31/2018 ACCOUNT: 1010 CASH - POOLED CLEAR DATE: 0/00/0000 THRU 99/99/9999 0/00/0000 THRU 99/99/9999 TYPE: All STATEMENT: STATUS: All VOIDED DATE: 0/00/0000 THRU 99/99/9999 AMOUNT: 0.00 THRU 999,999,999.99 FOLIO: All

CHECK NUMBER:

000000 THRU 999999

ACCOUNT --DATE-- --TYPE-- NUMBER ------DESCRIPTION------ ----AMOUNT--- STATUS FOLIO CLEAR DATE

ANK DRAFT:							
1010	3/02/2018 BANK-DRA	AFT	Bank Feb 28 Incode March 2	45.90	CLEARED	G	3/02/2018
1010	3/02/2018 BANK-DRA	FT000161	US DEPARTMENT OF THE TREASURY	45.90CR	CLEARED	A	3/02/2018
1010	3/02/2018 BANK-DRA	FT000162	CALIFORNIA PUBLIC EMPLOYEES RE	4,557.88CR	CLEARED	A	3/05/2018
1010	3/02/2018 BANK-DRA	FT000163	NATIONWIDE RETIREMENT SOLUTION	765.00CR	CLEARED	A	3/02/2018
1010	3/02/2018 BANK-DRA	FT000164	STATE OF CALIFORNIA EDD	1,354.74CR	CLEARED	A	3/02/2018
1010	3/02/2018 BANK-DRA	FT000165	US DEPARTMENT OF THE TREASURY	3,297.45CR	CLEARED	A	3/02/2018
1010	3/16/2018 BANK-DRA	FT000166	CALIFORNIA PUBLIC EMPLOYEES RE	4,701.52CR	CLEARED	A	3/19/2018
1010	3/16/2018 BANK-DRA	FT000167	NATIONWIDE RETIREMENT SOLUTION	765.00CR	CLEARED	A	3/16/2018
1010	3/16/2018 BANK-DRA	FT000168	STATE OF CALIFORNIA EDD	1,262.08CR	CLEARED	A	3/16/2018
1010	3/16/2018 BANK-DRA	FT000169	US DEPARTMENT OF THE TREASURY	3,527.76CR	CLEARED	A	3/16/2018
1010	3/30/2018 BANK-DRA	FT000170	CALIFORNIA PUBLIC EMPLOYEES RE	4,614.35CR	CLEARED	A	4/02/2018
1010	3/30/2018 BANK-DRA	AFT000171	NATIONWIDE RETIREMENT SOLUTION	765.00CR	CLEARED	A	4/02/2018
1010	3/30/2018 BANK-DRA	FT000172	STATE OF CALIFORNIA EDD	1,319.44CR	CLEARED	A	3/31/2018
1010	3/30/2018 BANK-DRA	FT000173	US DEPARTMENT OF THE TREASURY	3,774.78CR	CLEARED	A	3/31/2018
ECK:							
1010	3/02/2018 CHECK	035284	ADVANCED SECURITY SYSTEMS SANT	306.00CR	CLEARED	A	3/08/2018
1010	3/02/2018 CHECK	035285	ALPHA ANALYTICAL LABORATORIES	743.00CR	CLEARED	A	3/07/2018
1010	3/02/2018 CHECK	035286	COUNTY OF LAKE - LAKE COUNTY S	128,961.00CR	CLEARED	A	3/09/2018
1010	3/02/2018 CHECK	035287	GHD	2,082.00CR	CLEARED	A	3/06/2018
1010	3/02/2018 CHECK	035288	GRANITE CONSTRUCTION	3,511.39CR	CLEARED	A	3/06/2018
1010	3/02/2018 CHECK	035289	HACH COMPANY	524.53CR	CLEARED	A	3/07/2018
1010	3/02/2018 CHECK	035290	MEDIACOM	442.59CR	CLEARED	A	3/12/2018
1010	3/02/2018 CHECK	035291	NOR-CAL TELECOM	360.00CR	CLEARED	А	3/08/2018
1010	3/02/2018 CHECK	035292	OFFICE DEPOT	134.97CR	CLEARED	А	3/13/2018
1010	3/02/2018 CHECK	035293	PACIFIC GAS & ELECTRIC COMPANY	8,372.31CR	CLEARED	A	3/07/2018
1010	3/02/2018 CHECK		RAY MORGAN COMPANY	203.98CR	CLEARED	A	3/07/2018
1010	3/02/2018 CHECK	035295	SPECIAL DISTRICT RISK MANAGEME	350.23CR	CLEARED	A	3/07/2018
1010	3/02/2018 CHECK		USA BLUE BOOK	2,015.08CR	CLEARED	A	3/07/2018
1010	3/02/2018 CHECK		WESTGATE PETROLEUM CO., INC.	605.59CR	CLEARED	A	3/06/2018
1010	3/09/2018 CHECK		ACWA/JPIA	852.19CR	CLEARED	A	3/13/2018
1010	3/09/2018 CHECK		ALPHA ANALYTICAL LABORATORIES		CLEARED	A	3/14/2018
1010	3/09/2018 CHECK		AMAZON CAPITAL SERVICES, INC.		CLEARED	A	3/13/2018
1010	3/09/2018 CHECK		ARMED FORCE PEST CONTROL, INC.		CLEARED	A	3/15/2018
1010	3/09/2018 CHECK		AT&T MOBILITY	64.64CR	CLEARED	A	3/14/2018
1010	3/09/2018 CHECK		BADGER METER	198.00CR	CLEARED	A	3/15/2018
1010	3/09/2018 CHECK		BARTLEY PUMP, INC.		CLEARED	A	3/22/2018
1010	3/09/2018 CHECK		BOLD POLISNER MADDOW NELSON &		CLEARED	A	3/15/2018
1010	3/09/2018 CHECK		CALIFORNIA PUBLIC EMPLOYEES FI	8,304.91CR	CLEARED	A	3/15/2018
1010	3/09/2018 CHECK		DATAPROSE	318.01CR		A	3/13/2018
1010			HARDESTER'S MARKETS & HARDWARE		CLEARED		
	3/09/2018 CHECK			69.81CR	CLEARED	A	3/14/2018
1010	3/09/2018 CHECK		JAMES DAY CONSTRUCTION, INC.	4,268.00CR	CLEARED	A	3/16/2018
1010	3/09/2018 CHECK		NAPA AUTO PARTS	156.59CR	CLEARED	A	3/14/2018
1010	3/09/2018 CHECK	035311	SOUTH LAKE REFUSE COMPANY	375.32CR	CLEARED	Α	3/13/2018

CHECK RECONCILIATION REGISTER

STATUS: All

4/11/2018 2:46 PM PAGE: 2 COMPANY: 999 - POOLED CASH FUND CHECK DATE: 3/01/2018 THRU 3/31/2018 ACCOUNT: 1010 CASH - POOLED CLEAR DATE: 0/00/0000 THRU 99/99/9999 0/00/0000 THRU 99/99/9999 TYPE: All STATEMENT:

AMOUNT: 0.00 THRU 999,999,999.99 FOLIO: All CHECK NUMBER: 000000 THRU 999999

VOIDED DATE: 0/00/0000 THRU 99/99/9999

ACCOUNT --DATE-- --TYPE-- NUMBER ------DESCRIPTION------ ----AMOUNT--- STATUS FOLIO CLEAR DATE

CK:							
1010	3/09/2018 CHECK	035312	SPECIAL DISTRICT RISK MANAGEME	24,848.22CR	CLEARED	A	3/14/2018
1010	3/09/2018 CHECK	035313	STREAMLINE	200.00CR	CLEARED	A	3/15/2018
1010	3/09/2018 CHECK	035314	THATCHER COMPANY, INC.	1,855.31CR	CLEARED	A	3/13/2018
1010	3/09/2018 CHECK	035315	TAKIA, FARID	377.29CR	CLEARED	A	3/27/2018
1010	3/09/2018 CHECK	035316	THOMPSON, DAVID	93.25CR	CLEARED	A	3/23/2018
1010	3/16/2018 CHECK	035317	ALPHA ANALYTICAL LABORATORIES	1,021.00CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035318	ARTISAN ELECTRIC	800.00CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035319	AT&T	297.95CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035320	CARDMEMBER SERVICE	1,046.23CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035321	CSMFO	110.00CR	CLEARED	A	4/02/2018
1010	3/16/2018 CHECK	035322	GARDENS BY JILLIAN	200.00CR	CLEARED	A	4/03/2018
1010	3/16/2018 CHECK	035323	JOBS AVAILABLE	45.00CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035324	LOCAL GOVERNMENT COMMISSION IN	3,727.27CR	CLEARED	A	3/20/2018
1010	3/16/2018 CHECK	035325	MENDO MILL CLEARLAKE	53.24CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035326	MENDOCINO HEALTH CLINIC	261.00CR	CLEARED	A	3/22/2018
1010	3/16/2018 CHECK	035327	NBS GOVERNMENT FINANCE GROUP	3,170.00CR	CLEARED	A	3/21/2018
1010	3/16/2018 CHECK	035328	OFFICE DEPOT	60.47CR	CLEARED	A	4/03/2018
1010	3/16/2018 CHECK	035329	VERIZON WIRELESS	789.08CR	CLEARED	A	3/22/2018
1010	3/16/2018 CHECK	035330	WAGNER & BONSIGNORE	560.10CR	CLEARED	A	3/22/2018
1010	3/23/2018 CHECK	035331	ALPHA ANALYTICAL LABORATORIES	632.00CR	CLEARED	A	3/28/2018
1010	3/23/2018 CHECK		ALYSSA GORDON	145.35CR	CLEARED	A	3/27/2018
1010	3/23/2018 CHECK	035333	MANAGEMENT CONNECTIONS	696.47CR	CLEARED	A	3/28/2018
1010	3/23/2018 CHECK		Mark G. Bordi	50.00CR	CLEARED	A	3/30/2018
1010	3/23/2018 CHECK	035335	MICHELLE HAMILTON	625.00CR	CLEARED	A	3/30/2018
1010	3/23/2018 CHECK	035336	REDFORD SERVICES	950.00CR	CLEARED	A	4/10/2018
1010	3/23/2018 CHECK	035337	REGIONAL GOVERNMENT SERVICES	110.00CR	CLEARED	A	3/27/2018
1010	3/23/2018 CHECK	035338	RICOH USA, INC.	410.27CR	CLEARED	A	3/28/2018
1010	3/23/2018 CHECK	035339	TELSTAR INSTRUMENTS, INC	1,881.44CR	CLEARED	А	3/27/2018
1010	3/23/2018 CHECK	035340	TYLER TECHNOLOGY	121.00CR	CLEARED	A	3/29/2018
1010	3/23/2018 CHECK	035341	U S POSTMASTER	200.00CR	CLEARED	A	4/03/2018
1010	3/23/2018 CHECK	035311	USA BLUE BOOK	381.60CR	CLEARED	A	3/30/2018
1010	3/23/2018 CHECK	035343	DUNCAN, PAUL & COURT	375.11CR	OUTSTND	A	0/00/0000
1010	3/23/2018 CHECK	035344		96.13CR	CLEARED	A	4/05/2018
1010	3/30/2018 CHECK		ALPHA ANALYTICAL LABORATORIES	749.00CR	CLEARED	A	4/04/2018
1010	3/30/2018 CHECK		ALYSSA GORDON	145.35CR	CLEARED	A	4/03/2018
1010	3/30/2018 CHECK		AMAZON CAPITAL SERVICES, INC.	91.64CR	CLEARED	A	4/04/2018
1010	3/30/2018 CHECK		BENNETT SOLUTIONS	180.18CR	OUTSTND	A	0/00/0000
1010	3/30/2018 CHECK	035340		1,649.59CR	CLEARED	A	4/04/2018
1010	3/30/2018 CHECK		HERC RENTALS INC.	2,559.99CR	CLEARED	A	4/03/2018
1010	3/30/2018 CHECK		LOCAL GOVERNMENT COMMISSION IN	3,727.27CR	CLEARED	A	4/09/2018
1010	3/30/2018 CHECK		MANAGEMENT CONNECTIONS	1,663.20CR	CLEARED	A	4/09/2018
1010	3/30/2018 CHECK		MEDIACOM	443.28CR		A	4/04/2018
1010	3/30/2018 CHECK		OFFICE DEPOT	175.03CR	CLEARED OUTSTND	A	0/00/0000
TOTO	J/JU/ZUIO CHECK	055554	OLLICE DELOI	1/J.UJCK	OOTSIND	Α	0,00,0000

4/11/2018 2:46 PM CHECK RECONCILIATION REGISTER

 COMPANY:
 999 - POOLED CASH FUND
 CHECK DATE:
 3/01/2018 THRU
 3/31/2018

 ACCOUNT:
 1010
 CASH - POOLED
 CLEAR DATE:
 0/00/0000 THRU
 99/99/999

 TYPE:
 All
 STATEMENT:
 0/00/0000 THRU
 99/99/999

 STATUS:
 All
 VOIDED DATE:
 0/00/0000 THRU
 99/99/9999

PAGE: 3

FOLIO: All AMOUNT: 0.00 THRU 999,999,999.99
CHECK NUMBER: 000000 THRU 9999999

ACCOUNTDATETYPE NUMBERDESCRIPTIONAMOUNT STA	JS FOLIO	CLEAR DATE
---	----------	------------

CHECK:							
1010	3/30/2018 CHECK	035356	PETERSON CAT	5,287.10CR	CLEARED	Α	4/04/2018
1010	3/30/2018 CHECK	035357	SOUTH LAKE FIRE SAFE COUNCIL	30.00CR	CLEARED	A	4/10/2018
1010	3/30/2018 CHECK	035358	SPECIAL DISTRICT RISK MANAGEME	344.77CR	CLEARED	A	4/04/2018
1010	3/30/2018 CHECK	035359	TELSTAR INSTRUMENTS, INC	3,895.97CR	CLEARED	A	4/03/2018
1010	3/30/2018 CHECK	035360	THATCHER COMPANY, INC.	1,063.61CR	CLEARED	A	4/05/2018
1010	3/30/2018 CHECK	035361	DERENIA, TIMOTHY J	18.64CR	OUTSTND	A	0/00/0000
1010	3/30/2018 CHECK	035362	PICKELSIMER, JESSE J	48.69CR	OUTSTND	A	0/00/0000
DEPOSIT:							
1010	3/01/2018 DEPOSIT		CREDIT CARD 3/01/2018	3,129.95	CLEARED	С	3/05/2018
1010	3/01/2018 DEPOSIT	000001	CREDIT CARD 3/01/2018	1,903.60	CLEARED	С	3/05/2018
1010	3/01/2018 DEPOSIT	000002	REGULAR DAILY POST 3/01/2018	1,092.69	CLEARED	С	3/02/2018
1010	3/02/2018 DEPOSIT		CREDIT CARD 3/02/2018	4,111.65	CLEARED	С	3/05/2018
1010	3/02/2018 DEPOSIT	000001	CREDIT CARD 3/02/2018	1,569.52	CLEARED	С	3/05/2018
1010	3/02/2018 DEPOSIT	000002	REGULAR DAILY POST 3/02/2018	2,230.55	CLEARED	С	3/05/2018
1010	3/05/2018 DEPOSIT		CREDIT CARD 3/05/2018	1,251.56	CLEARED	С	3/05/2018
1010	3/05/2018 DEPOSIT	000001	CREDIT CARD 3/05/2018	1,454.63	CLEARED	С	3/06/2018
1010	3/05/2018 DEPOSIT	000002	CREDIT CARD 3/05/2018	647.30	CLEARED	С	3/07/2018
1010	3/05/2018 DEPOSIT	000003	CREDIT CARD 3/05/2018	1,095.58	CLEARED	С	3/08/2018
1010	3/05/2018 DEPOSIT	000004	REGULAR DAILY POST 3/05/2018	3,858.22	CLEARED	С	3/06/2018
1010	3/06/2018 DEPOSIT		CREDIT CARD 3/06/2018	1,633.31	CLEARED	С	3/08/2018
1010	3/06/2018 DEPOSIT	000001	CREDIT CARD 3/06/2018	195.67	CLEARED	С	3/09/2018
1010	3/06/2018 DEPOSIT	000002	CREDIT CARD 3/06/2018	234.70	CLEARED	С	3/09/2018
1010	3/06/2018 DEPOSIT	000003	CREDIT CARD 3/06/2018	4,729.30	CLEARED	С	3/09/2018
1010	3/06/2018 DEPOSIT	000004	REGULAR DAILY POST 3/06/2018	3,045.59	CLEARED	С	3/07/2018
1010	3/07/2018 DEPOSIT		CREDIT CARD 3/07/2018	2,656.14	CLEARED	С	3/09/2018
1010	3/07/2018 DEPOSIT	000001	CREDIT CARD 3/07/2018	1,683.68	CLEARED	С	3/12/2018
1010	3/07/2018 DEPOSIT	000002	CREDIT CARD 3/07/2018	7,147.40	CLEARED	С	3/12/2018
1010	3/07/2018 DEPOSIT	000003	REGULAR DAILY POST 3/07/2018	8,797.43	CLEARED	С	3/08/2018
1010	3/08/2018 DEPOSIT		CREDIT CARD 3/08/2018	440.60	CLEARED	С	3/12/2018
1010	3/08/2018 DEPOSIT	000001	CREDIT CARD 3/08/2018	2,090.91	CLEARED	С	3/12/2018
1010	3/08/2018 DEPOSIT	000002	REGULAR DAILY POST 3/08/2018	6,545.88	CLEARED	С	3/09/2018
1010	3/09/2018 DEPOSIT		CREDIT CARD 3/09/2018	1,609.35	CLEARED	С	3/12/2018
1010	3/09/2018 DEPOSIT	000001	CREDIT CARD 3/09/2018	1,628.43	CLEARED	С	3/12/2018
1010	3/09/2018 DEPOSIT		REGULAR DAILY POST 3/09/2018	7,152.62	CLEARED	С	3/12/2018
1010	3/12/2018 DEPOSIT		CREDIT CARD 3/12/2018	1,541.52	CLEARED	С	3/12/2018
1010	3/12/2018 DEPOSIT	000001	CREDIT CARD 3/12/2018	854.87	CLEARED	С	3/13/2018
1010	3/12/2018 DEPOSIT		CREDIT CARD 3/12/2018	1,018.44	CLEARED	С	3/14/2018
1010	3/12/2018 DEPOSIT		CREDIT CARD 3/12/2018	694.46	CLEARED	С	3/15/2018
1010	3/12/2018 DEPOSIT		REGULAR DAILY POST 3/12/2018		CLEARED	С	3/13/2018
1010	3/13/2018 DEPOSIT	333001	CREDIT CARD 3/13/2018	1,085.52	CLEARED	С	3/15/2018
1010	3/13/2018 DEPOSIT	000001		1,110.23	CLEARED	С	3/16/2018
1010	3/13/2018 DEPOSIT		REGULAR DAILY POST 3/13/2018	2,302.17	CLEARED	С	3/14/2018
1010	3/13/2018 DEPOSIT		DAILY PAYMENT POSTING - ADJ	96.88CR	CLEARED	Ū	3/16/2018
1010	2/12/2010 DEEO211	000003	DATES INTERNI 1001ING - ADO	90.00CR	CHEMPED	J	3/10/2010

4/11/2018 2:46 PM CHECK RECONCILIATION REGISTER

FOLIO: All

ACCOUNT

1010

1010

1010

1010

PAGE: 4 COMPANY: 999 - POOLED CASH FUND CHECK DATE: 3/01/2018 THRU 3/31/2018 ACCOUNT: 1010 CASH - POOLED CLEAR DATE: 0/00/0000 THRU 99/99/9999 TYPE: STATEMENT: 0/00/0000 THRU 99/99/9999 0/00/0000 THRU 99/99/9999 VOIDED DATE: STATUS: All

--DATE-- --TYPE-- NUMBER ------DESCRIPTION------ ----AMOUNT--- STATUS FOLIO CLEAR DATE

AMOUNT:

716.15

CLEARED C

340.13 CLEARED C 3/30/2018

568.15 CLEARED C 4/02/2018

3/28/2018

0.00 THRU 999,999,999.99 000000 THRU 999999

CHECK NUMBER:

DEPOSIT: \_\_\_\_\_\_ 3/14/2018 DEPOSIT 664.27 CLEARED C 1010 CREDIT CARD 3/14/2018 3/16/2018 1010 3/14/2018 DEPOSIT 000001 CREDIT CARD 3/14/2018 1,628.37 CLEARED C 3/19/2018 3/14/2018 DEPOSIT 000002 REGULAR DAILY POST 3/14/2018 11,808.23 CLEARED C 1010 3/15/2018 3/15/2018 DEPOSIT CREDIT CARD 3/15/2018 1010 2,654.97 CLEARED C 3/19/2018 1,368.49 CLEARED C 3/19/2018 3/15/2018 DEPOSIT 000001 CREDIT CARD 3/15/2018 1010 1010 3/15/2018 DEPOSIT 000002 REGULAR DAILY POST 3/15/2018 4,210.79 CLEARED C 3/16/2018 1010 3/15/2018 DEPOSIT 000003 DRAFT POSTING 10,073.10 CLEARED U 3/16/2018 3/15/2018 DEPOSIT 000004 CC DRAFT POSTING 14,619.93 CLEARED U 3/19/2018 1010 1,279.27 CLEARED C 1010 3/16/2018 DEPOSIT CREDIT CARD 3/16/2018 3/19/2018 3/16/2018 DEPOSIT 000001 CREDIT CARD 3/16/2018 4,216.48 CLEARED C 3/19/2018 1010 3/16/2018 DEPOSIT 000002 REGULAR DAILY POST 3/16/2018 6,201.68 CLEARED C 1010 3/19/2018 3/19/2018 DEPOSIT CREDIT CARD 3/19/2018 1010 1,886.11 CLEARED C 3/19/2018 1010 3/19/2018 DEPOSIT 000001 CREDIT CARD 3/19/2018 916.97 CLEARED C 3/20/2018 3/19/2018 DEPOSIT 000002 CREDIT CARD 3/19/2018 1010 2,544.71 CLEARED C 3/21/2018 1010 3/19/2018 DEPOSIT 000003 DAILY PAYMENT POSTING - ADJ 98.80CR CLEARED U 3/16/2018 3/19/2018 DEPOSIT 000004 CREDIT CARD 3/19/2018 3,076.85 CLEARED C 3/22/2018 1010 1010 3/19/2018 DEPOSIT 000005 REGULAR DAILY POST 3/19/2018 18,777.15 CLEARED C 3/20/2018 3/20/2018 DEPOSIT CREDIT CARD 3/20/2018 1010 3,656.47 CLEARED C 3/22/2018 3/20/2018 DEPOSIT 000001 REGULAR DAILY POST 3/20/2018 8,921.00 CLEARED C 1010 3/21/2018 3/20/2018 DEPOSIT 000002 CREDIT CARD 3/20/2018 1010 4,657.38 CLEARED C 3/23/2018 1010 3/20/2018 DEPOSIT 000003 REGULAR DAILY POST 3/20/2018 10,261.85 CLEARED C 3/21/2018 3/20/2018 DEPOSIT 000004 CREDIT CARD 3/20/2018 1010 2,789.76 CLEARED C 3/23/2018 3/20/2018 DEPOSIT 000005 CREDIT CARD 3/20/2018 99.35 CLEARED C 3/23/2018 1010 3/21/2018 DEPOSIT 1,160.62 CLEARED C 3/23/2018 1010 CREDIT CARD 3/21/2018 1010 3/21/2018 DEPOSIT 000001 CREDIT CARD 3/21/2018 1,438.14 CLEARED C 3/26/2018 1010 3/21/2018 DEPOSIT 000002 REGULAR DAILY POST 3/21/2018 2,060.63 CLEARED C 3/22/2018 3/22/2018 DEPOSIT CREDIT CARD 3/22/2018 1,360.55 CLEARED C 3/26/2018 1010 1,141.39 CLEARED C 3/26/2018 1010 3/22/2018 DEPOSIT 000001 CREDIT CARD 3/22/2018 1010 3/22/2018 DEPOSIT 000002 REGULAR DAILY POST 3/22/2018 1,977.08 CLEARED C 3/26/2018 CREDIT CARD 3/23/2018 1010 3/23/2018 DEPOSIT 770.08 CLEARED C 3/26/2018 1010 3/23/2018 DEPOSIT 000001 CREDIT CARD 3/23/2018 601.11 CLEARED C 3/26/2018 3/23/2018 DEPOSIT 000002 REGULAR DAILY POST 3/23/2018 1,212.31 CLEARED C 3/26/2018 1010 1010 3/26/2018 DEPOSIT CREDIT CARD 3/26/2018 621.95 CLEARED C 3/26/2018 1010 3/26/2018 DEPOSIT 000001 CREDIT CARD 3/26/2018 53.23 CLEARED C 3/27/2018 3/26/2018 DEPOSIT 000002 CREDIT CARD 3/26/2018 543.37 CLEARED C 3/28/2018 1010 1010 3/26/2018 DEPOSIT 000003 CREDIT CARD 3/26/2018 1,010.44 CLEARED C 3/29/2018 1010 3/26/2018 DEPOSIT 000004 REGULAR DAILY POST 3/26/2018 3,024.51 CLEARED C 3/27/2018 3/26/2018 DEPOSIT 000005 DAILY PAYMENT POSTING - ADJ 44.12CR CLEARED U 1010 3/31/2018 3/27/2018 DEPOSIT 870.05 CLEARED C 1010 CREDIT CARD 3/27/2018 3/29/2018 3/27/2018 DEPOSIT 000001 CREDIT CARD 3/27/2018 978.40 CLEARED C 3/30/2018 1010

3/27/2018 DEPOSIT 000002 REGULAR DAILY POST 3/27/2018

3/28/2018 DEPOSIT 000001 CREDIT CARD 3/28/2018

CREDIT CARD 3/28/2018

3/28/2018 DEPOSIT 000002 REGULAR DAILY POST 3/28/2018 754.06 CLEARED C 3/29/2018

3/28/2018 DEPOSIT

4/11/201	18 2:46 PM				CHECK RECONCIL	IATION REGISTER				PAGE:
COMPANY:	999 - POOL	ED CASH FUN	D				CHECK DA	TE:	3/01/2	018 THRU 3/31/20
ACCOUNT:	1010	CASH	- POOLED				CLEAR DA	TE:	0/00/0	000 THRU 99/99/99
TYPE:	All						STATEMEN	T:	0/00/0	000 THRU 99/99/99
STATUS:	All						VOIDED D	ATE:	0/00/0	000 THRU 99/99/99
FOLIO:	All						AMOUNT:		0.00	THRU 999,999,999.
							CHECK NU	MBER:	000	000 THRU 9999
ACCO	OUNT	DATE	TYPE	NUMBER	DESCRI	PTION	AMOUNT	STATUS	FOLIO	CLEAR DATE
DEPOSIT:										
1010	0	3/29/2018	DEPOSIT		CREDIT CARD 3/	29/2018	885.66	CLEARED	) C	4/02/2018
1010	0	3/29/2018	DEPOSIT	000001	CREDIT CARD 3/	29/2018	762.66	CLEARED	) C	4/02/2018
1010	0	3/29/2018	DEPOSIT	000002	REGULAR DAILY P	OST 3/29/2018	558.59	CLEARED	) C	3/30/2018
1010	0	3/30/2018	DEPOSIT		CREDIT CARD 3/	30/2018	517.79	CLEARED	) C	4/02/2018
1010	0	3/30/2018	DEPOSIT	000001	CREDIT CARD 3/	30/2018	917.81	CLEARED	) C	4/02/2018
1010	0	3/30/2018	DEPOSIT	000002	REGULAR DAILY P	POST 3/30/2018	843.46	CLEARED	) C	4/02/2018
MISCELLAN	NEOUS:									
1010	0	3/02/2018	MISC.		PAYROLL DIRECT	DEPOSIT	22,917.32CR	CLEARED	) P	3/02/2018
1010	0	3/05/2018	MISC.		PAYROLL DIRECT	DEPOSIT	434.51CR	CLEARED	) P	3/06/2018
1010	0	3/16/2018	MISC.		PAYROLL DIRECT	DEPOSIT	22,788.36CR	CLEARED	) P	3/16/2018
1010	0	3/16/2018	MISC.	000001	PAYROLL DIRECT	DEPOSIT	184.09CR	CLEARED	) P	3/16/2018
1010	0	3/16/2018	MISC.	000002	PAYROLL DIRECT	DEPOSIT	184.09CR	CLEARED	) P	3/31/2018
1010	0	3/16/2018	MISC.	999999	Cuadras, Penny		184.09	CLEARED	) P	3/31/2018
1010	0	3/30/2018	MISC.		PAYROLL DIRECT	DEPOSIT	22,912.34CR	CLEARED	) P	3/30/2018
1010	0	3/30/2018	MISC.	000001	PAYROLL DIRECT	DEPOSIT	109.44CR	CLEARED	) P	3/30/2018
SERVICE (	CHARGE:									
1010	0	3/02/2018	SERV-CHG		February ETS 7		873.73CR	CLEARED	G	3/02/2018
1010	0	3/02/2018	SERV-CHG	000001	February ETS 5		747.61CR	CLEARED	G	3/02/2018
1010	0	3/02/2018	SERV-CHG	000002	February ETS 9		366.96CR	CLEARED	) G	3/02/2018
1010	0	3/15/2018	SERV-CHG		ANALYSIS FEE FE	B. 2018	389.60CR	CLEARED	) G	3/15/2018
TOTALS	FOR ACCOUNT	1010			CHECK	TOTAL:	245,260.49CR			
					DEPOSIT	TOTAL:	237,327.35			
					INTEREST	TOTAL:	0.00			
					MISCELLANEOUS	TOTAL:	69,346.06CR			
					SERVICE CHARGE	TOTAL:	2,377.90CR			
					EFT	TOTAL:	0.00			
					BANK-DRAFT	TOTAL:	30,705.00CR			
TOTALS	FOR POOLED	CASH FUND			CHECK	TOTAL:	245,260.49CR			
					DEPOSIT	TOTAL:	237,327.35			
					INTEREST	TOTAL:	0.00			
					MISCELLANEOUS	TOTAL:	69,346.06CR			
					SERVICE CHARGE	TOTAL:	2,377.90CR			

EFT TOTAL: 0.00
BANK-DRAFT TOTAL: 30,705.00CR

CHECK RECONCILIATION REGISTER

PAGE: 5

4/11/2018 2:46 PM



# HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT MARCH 2018 FINANCIAL REPORT

### **CAPITAL EXPENDITURES** 2017 - 2018 BUDGET

Sewer	Budget	Yr to Date Actual
Repair Sewer Lateral Leaks	40,000.00	
Preliminary Design-Chlorine Disinfection Facility	45,000.00	
Install Security Fencing at Lift Station 1 & 4	10,000.00	
Chlorine Tank Auto shut-off	32,000.00	
Total	127,000.00	-

Water	Revenue	Yr to Date Actual
FUND 320 Water Use Capital (7% Water Use Revenue)	106,000	83,254
Total	106,000	83,254

#### **MEMO**

To: Board of Directors

From: Trish Wilkinson, Full Charge Bookkeeper

Date: 04/12/2018

RE: Office & Administrative Staff Overtime Monthly Report

#### **March 2018**

#### Overtime:

Administrative Assistant: 13.25 hours

Water Resources Specialist: -

Full Charge Bookkeeper: -

Senior Accounts Representative: 1.00 hour

Senior Accounts Representative 1.00 hour

Total Overtime: 15.25 hours

.

#### **MEMO**

To: Board of Directors

From: Marty Rodriguez

Date: 04/12/2018

RE: Senior Account Representative's Monthly Report

#### Monthly Billing 03/30/2018

Mailed statements: 2,144 Electronic statements: 452

The statement "SPECIAL MESSAGE"

Reflected on this bill, the FY 2017/2018 rates apply. The new volumetric rate is \$.0230 per cubic foot as listed on the reverse side of this bill. The District office will be closed from 12pm – 1pm on the 3<sup>rd</sup> Wednesday of each month.

#### **Delinquent Billing 3/20/2018**

Delinquent statements for March bills:

Mailed statements: 443 Electronic statements: 73

#### Courtesy Notification 04/10/2018

Courtesy notices delivered to the customer's property for delinquent February bill: 137

Electronic notices: 20

#### Phone Notification 04/11/2018

Phone notifications: 87

The phone notification was sent out around 10:30 am resulting in 59 payments received by the office staff during business hours.

#### Lock Offs 04/12/2018

28 Customers were in the Lock Off Process at 5:00 pm on 04/11/2018.

13 payments were made before service orders went out in the field at 9:00 am on 04/12/2018.

A total of 15 customers were Locked Off for nonpayment.

Throughout Lock off day 6 payments were collected and meters unlocked.

At the time of this report only 9 meters remain locked.

.



# Hidden Valley Lake Community Services District

19400 Hartmann Road Hidden Valley Lake, CA 95467 707.987.9201 707.987.3237 fax www.hvlcsd.org

#### **MEMO**

To: Board of Directors

From: Kirk Cloyd

Date: April 17, 2018

RE: General Manager's Monthly Report

Good evening, the following report discusses items Hidden Valley Lake CSD completed over the past month. This report is intended to provide the Board and public with an update on the progression of projects and current status of relevant issues.

#### **Water**

 Meter Moratorium Update: The District sent a letter to all State Water Board members and the Regional Water Quality Control Board reminding them of the reasons the meter moratorium should be revisited and lifted. We are awaiting a response.

#### Sanitary Sewer

- 1. Field staff received the required training covering the recently updated Risk Management Plan (RMP).
- The scheduled field exercise and joint training between Cal Fire and HVLCSD staff to review Chlorine response and tour the RWRF was cancelled and will be rescheduled due to Fire being called to a multi-vehicle TC.

#### Stormwater

1. At the time of this report, the Guenoc Gauging Station reported 234cf per second flowing past it at 5.9 feet deep.

#### **Human Resources**

1. The Personnel Committee is in the process of rewriting the Employee Handbook.

#### **Facilities**

Nothing to report

#### **Vehicles & Equipment**



F

Ε

D

0

P

Ε

R

Α

Т

0

N

S

# Hidden Valley Lake Community Services District March 2018 Report

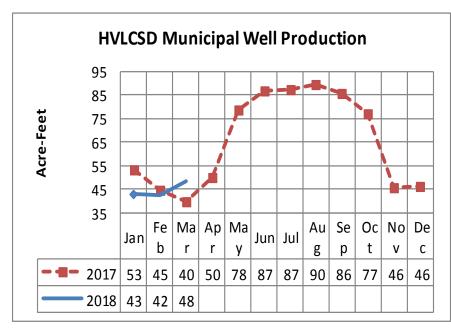
Water Connections:	Sewer Connections:		
New (March)	0	New (March)	2
Residential (February)	2440	Residential (February)	1468
Commercial & Govt (February)	39	Commercial & Govt (February)	15
Total (November) :	2479		1485

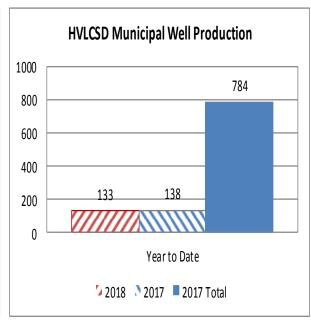
Rainfall		
This month	Last year	Historical
8.29	2.95	5.17

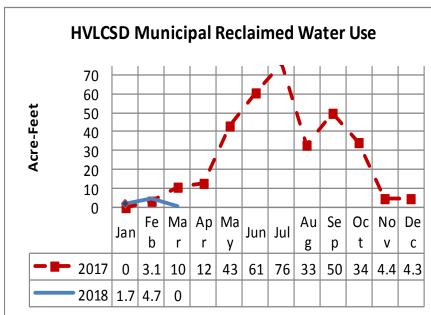
Groundwater Elevation			
Monitoring Wells	This month	Last year	Historical
Prod Wells	932.84	929.72	931.02
AG	934.76	944.37	936.57
TP Wells	953.80	955.27	955.15
Grange Rd	939.97	939.84	938.40
American Rock	973.1	973.39	972.19
Spyglass	966.82	971.07	968.30
Luchetti	922.90	926.40	924.22
18th T	942.02	945.61	943.58

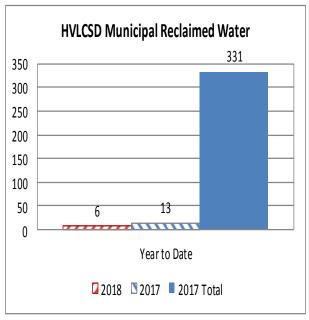
Completed Service Orders			
This month	YTD	Last Year	
83	245	1321	
Overtime Hours	37.5	\$1476.93	

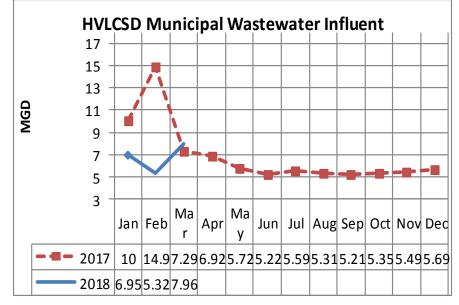
#### **March 2018 Field Report**

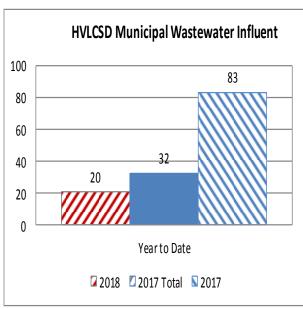




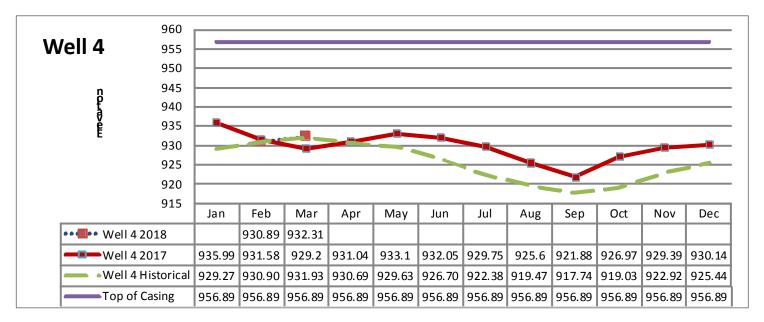


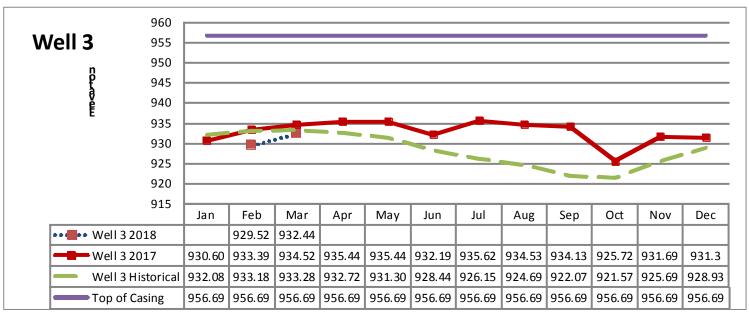


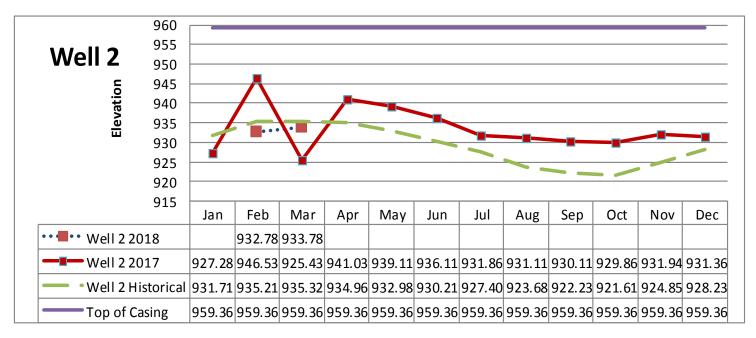




#### **March 2018 Field Report**







#### **FEMA Projects Update**

- LKHVF83 (DR-4308)
  - \$8,921 received from CalOES
  - Received notification of "insurance deduction"
- I/I Workplan
  - Sent flow monitoring equipment to lessor, 3/6
  - Upgraded manhole at Meadowview
  - · Deadline for report completion set for April BOD meeting
- Revised Water Balance Report
  - Report delivered to Regional Water Boards
  - Conclusion is that EQ basin is appropriately sized
- Aquatic Harvesting
  - Scheduled for late spring
- Hazard Mitigation projects
  - Received confirmation that the County's Hazard Mitigation plan is **single**-jurisdictional.
  - CEQA and Geotechnical research needed prior to next disaster declaration.

#### Non-FEMA projects

- AMI
  - Delivered USBR application 3/15
  - Completed meter serial number updates
  - Time logging of admin/field meter reading hours
- RMP
  - Making revisions per EHS (O&M, PSI, PHA)
  - Scheduling tabletop exercise with Fire Department

#### **March 2018 Field Report**

#### **Water Operations and Maintenance Highlights**

- 3/6,3/8 Courtesy notices, lockoffs
- Patch to North Shore leak
- Manhole project launch
- New hire interview and training
- 2Install light buckets to golf carts
- Small engines services
- Added endpoints to meter data in Incode
- Regular maintenance and operations
- 3/27-3/30 Meter reads
- Routine operations and maintenance

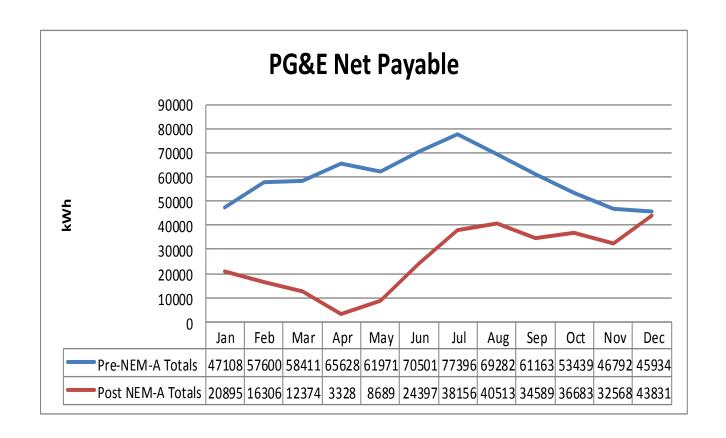
#### **Wastewater Operations and Maintenance Highlights**

- 3/6,3/8 Courtesy notices, lockoffs
- Sand replacement to filtration basin
- Troubleshooting CL2 Analyzer
- Troubleshooting hosebib at sludge beds
- Sewer ordinance open for public comment
- RMP revisions ongoing
- Regular maintenance and operations
- 3/27-3/30 Meter reads

#### **March 2018 Field Report**

Vehicle N	1ileage
Vehicle	Mileage
Truck 1	18
Truck 3	2850
Truck 4	443
Truck 6	483
Truck 7	
Truck 8	736
Dump Truck	100
Backhoe	4.2

Fuel Tank Use			
	Gasoline	Diesel	
Tank Meter Fuel Log	96790.40 299.7	21175.60 52.6	
March Tank Level	331.52	392.15	
February Tank Level	380.43	413.04	





# Hidden Valley Lake Community Services District

19400 Hartmann Road Hidden Valley Lake, CA 95467 707.987.9201 707.987.3237 fax www.hvlcsd.org

Nothing to report

#### **General Information**

- 1. Staff continues to work with legal council to draft an ordinance that provides the legal framework to place District fees in a "Fee Schedule" and approve all future "real costs" by resolution. For clarification, the Fee Schedule will also recognize fees approved by a Prop. 218 vote of our constituents, however, these fees cannot be set by resolution.
- The District now has Water, Sewer and Recycled Water Standard Drawings available via the District's Website. The District recognizes the Standard Drawings of Eastern Municipal Water District; as amended.
- 3. At the request of the Hidden Valley Lake Association, Hidden Valley Lake CSD submitted an article for The View Magazine to update their readers on the Meter Moratorium and Chrome 6 (Cr6) issues. Once published, this article will also be placed on the Districts Website under "News & Updates".

#### 4. Lien Report:

Six (6) Accounts have been placed into the secondary lien process for default amount exceeding a 6-month period. (Totaling \$5,696.82)

Acct	Default Bal	Recorded Date
02-0960-00	\$1,234.69	3/7/2018
07-0580-00	\$1,163.20	3/7/2018
01-0830-01	\$ 978.28	3/7/2018

#### Collected due to Courtesy Lien Letter No Lien Placed

Acct	Default Bal	Amt Collected	Date Collected
05-1220-06	\$511.34	\$200.00	2/13/2018
11-1720-00	\$633.92	\$633.92	2/2/2018

#### **Lien Release**

Acct	Collected	Date Collected



# Hidden Valley Lake Community Services District

19400 Hartmann Road Hidden Valley Lake, CA 95467 707.987.9201 707.987.3237 fax www.hvlcsd.org

#### **Emergency Preparedness**

- 1. Staff attended the South Lake County Fire Safe Council and HVLA's Firewise monthly meeting in preparation for the annual Wildfire Community Preparedness Day, Saturday, May 5<sup>th</sup> from 10 to 2 at the campground adjacent to our office. HVLCSD will have a booth there to answer questions and demonstrate the hazards of using "flushable wipes" with the final cost being to the Districts constituents. (Of note: South Lake Fire Safe Council and Lake County Amateur Radio Society (LCARS)-emergency communications-will also provide booths.)
- 2. The G.M. successfully completed FEMA course IS-775: EOC Management and Operations.
- 3. A review of the proposed Lake County Water & Sewer Agencies Mutual Aid Agreement was conducted. All eight of our proposed recommendations were incorporated into the final document.
- 4. The G.M. listened to several FEMA PrepTalks on his own time and suggests others may find nuggets of knowledge at FEMA's Website: <a href="https://www.fema.gov/preptalks">https://www.fema.gov/preptalks</a>
- 5. Th G.M. renewed his First Aid/CPR/AED certification to satisfy District requirements.

## ACTION OF HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

**DATE: APRIL 17, 2018** AGENDA ITEM: Discussion and Possible Approval: Discuss and approve Ordinance 59.1 Waste Discharge and Sewer Use **RECOMMENDATIONS:** Adopt Ordinance 59.1 Waste Discharge and Sewer Use **FINANCIAL IMPACT: None** BACKGROUND: This ordinance will provide protection of District facilities and grant the District authority to implement necessary measures of protection. **APPROVED** OTHER AS RECOMMENDED (SEE BELOW) Modification to recommendation and/or other actions: I, Kirk Cloyd, Secretary to the Board, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular board meeting thereof held on April 17, 2018 by the following vote: Ayes: Noes: Abstain: Absent

Secretary to the Board

# DRAFT Regulations for Waste Discharge and Sewer Use

Ordinance 59.1

ADOPTED BY THE BOARD OF DIRECTORS OF
HIDDEN VALLEY LAKE COMMUNITY SERVICES
DISTRICT

April 17, 2018

#### **ORDINANCE NO. 59.1**

#### "REGULATIONS FOR WASTE DISCHARGE AND SEWER USE"

AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT CREATED TO ENSURE THE HEALTH AND SAFETY OF THE PUBLIC, ENSURE THE SAFETY OF DISTRICT STAFF, PROLONG THE LIFESPAN OF DISTRICT SYSTEMS AND EQUIPMENT, PROTECT THE ENVIRONMENT AND THE BENEFICIAL USE OF RECYCLED WATER GENERATED BY THE WASTEWATER TREATMENT PROCESS

BE IT ORDAINED by the Board of Directors of the Hidden Valley Lake Community Services District (HVLCSD) in an adjourned Regular Session, assembled this 17<sup>th</sup> day of April 2018, a majority of Directors being present and concurring, that the "Regulations for Waste Discharge and Sewer Use' Ordinance No. 59.1, which is attached hereto, be the same are hereby approved and adopted.

BE IT FINALLY ORDAINED that the effective date of the Ordinance and its provisions is May 17, 2018.

PASSED AND ADOPTED ON April 17, 2018 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Carolyn Graham, President
Board of Directors
Hidden Valley Lake
Community Services District

ATTEST:

Secretary to the Board of Directors
Kirk Cloyd

## **TABLE OF CONTENTS**

ARTICL	E 1	6	
GENER	GENERAL PROVISIONS		
1.1	INTENT	6	
1.2	PURPOSE	6	
1.3	POLICY	6	
1.7	ACCESS	8	
1.8	INFORMATION REQUIRED	8	
1.9	AUTHORITY	9	
ARTICLE 2			
DEFINITIONS			
2.1	DEFINITIONS	10	
2.2	OTHER MEANINGS	19	
ARTICL	E 3	19	
GENER	AL SEWER USE REQUIREMENTS	19	
3.1	PROHIBITED DISCHARGE STANDARDS	19	
3.2	CATEGORICAL PRETREATMENT STANDARDS	21	
3.3	LOCAL LIMITS	21	
3.4	BEST MANAGEMENT PRACTICES	21	
3.5	POLICIES AND STANDARDS	21	
3.6	LIMITATIONS OF TOTAL DISSOLVED SOLIDS (TDS)	21	
3.7	RIGHT OF REVISION	22	
3.8	DILUTION	22	
3.9	CESSPOOL. SEPTIC TANK. HOLDING TANK AND. HAULED WASTES	22	
3.10	ACCESS TO DISTRICT FACILITIES	22	
ARTICL	E 4	23	
WASTE	DISCHARGE PERMIT AND PERMIT REPORTING REQUIREMENTS	23	
4.1	GENERAL REQUIREMENTS	23	
4.2	WASTE DISCHARGE PERMIT ISSUANCE PROCESS	25	
4.3	REPORTING REQUIREMENTS	29	
ARTICL	E 5	34	
WASTE	DISCHARGE AUTHORIZATIONS and SPECIAL AGREEMENTS	34	
5.1	GENERAL REQUIREMENTS	34	
5.2	AUTHORIZATION/SPECIAL AGREEMENT ISSUANCE PROCESS	36	
5.3	REPORTING REQUIREMENTS	39	
ARTICI	ARTICLE 6		

ENFOR	NFORCEMENT	
6.1	ENFORCEMENT ACTIONS	39
6.2	PUBLISHED NOTICES FOR SIGNIFICANT NON-COMPLIANCE	43
6.3	REMEDIES NON-EXCLUSIVE	43
6.4	APPEALS	43
ARTICLE	ARTICLE 7	
SEVERA	SEVERABILITY	
7.1	SEVERABILITY	44
ARTICLE	ARTICLE 8	
REPEAL	REPEAL	
8.1	REPEAL	44
ARTICLE	RTICLE 9	
FFFFCTI	FFECTIVE DATE	

#### **ARTICLE 1**

#### **GENERAL PROVISIONS**

#### 1.1 INTENT

It is the intent of this Ordinance to protect from any actual or threatened discharge which reasonably appears to present an imminent or substantial danger to the health or welfare of any Person or to the environment, or which reasonably appears to present imminent or substantial interference with the Public Owned Treatment Works (POTW), or which reasonably may cause Hidden Valley Lake Community Services District (District) to violate any condition of its regulatory permits.

#### 1.2 PURPOSE

- A. The purpose of this Ordinance is to set forth:
  - Conditions and limitations on the use of the POTW;
  - 2. Specific enforcement provisions to resolve noncompliance with the District's Ordinance, thereby allowing the District to:
    - a. Comply with the laws, regulations, and rules imposed upon it by Regulatory Agencies; and
    - b. Ensure that the POTW is protected from pass-through and/or interference and is able to operate with the highest degree of efficiency; and
    - c. Protect the beneficial use of recycled water and municipal sludge; and
    - d. Protect the public health and environment.

#### 1.3 POLICY

- A. This Ordinance shall be interpreted in accordance with the definitions set forth in Article 2. The provisions of this Ordinance shall apply to the direct and indirect discharge of all wastes to the POTW.
- B. The District shall seek the cooperation of the Users of the POTW to ensure compliance with this Ordinance. Reasonable approaches shall be utilized when applying applicable regulations without compromising the intent, purpose, and policies of this Ordinance.
- C. The District shall adopt more stringent quality requirements on wastewater discharges regulated by 40 Code of Federal Regulations (CFR), Chapter I, Subchapter N, Parts 405-471, in the event that more stringent quality requirements are necessary to protect beneficial use of recycled water and municipal sludge or meet additional requirements set in permits issued to the District.
- D. The District shall encourage conservation and pollution prevention through General strategies, which reduce the amount of pollutants entering the environment, prior to recycling, Pretreatment, or disposal.

- E. The District shall use the revenues derived from the application of this Ordinance to defray the cost of regulating sewer usage to include, but not be limited to, administration, monitoring, permitting, reporting, and enforcement.
- F. All costs and expenses incurred by the plan check procedures of the District's General Manager of their designee shall be paid by the applicant. Plan check fees shall be in an amount adopted in Resolution No. 2018-XX, and any amendments thereto.
- G. The District shall ensure that all parties are afforded due process of law. An applicant or User shall be given written notice of rejection of an application, or Violation of this Ordinance, or any enforcement action. Such notice shall include a statement of reasons in support thereof and proposed actions to be taken, if any.

Affected applicants or Users shall have the right to a hearing. Decisions/determinations may be appealed as set forth in Article 6.

H. The District, at its discretion, may utilize any one, combination, or all enforcement remedies provided in Section 1.6 in response to any Violation.

#### 1.4 SCOPE

The provisions of these Regulations shall apply, but are not limited to sewer construction, use, maintenance, discharge, deposit, or disposal of Wastewater, both directly and indirectly, into the POTW.

#### 1.5 APPLICABILITY

This "Regulations for Waste Discharge and Sewer Use" Ordinance applies to all Users who discharge or have the potential to discharge Non-Domestic Wastewater to the POTW and are subject to regulation and enforcement.

#### 1.6 POWERS

- A. The General Manager is authorized to:
  - 1. Issue, modify, and reissue Waste Discharge Permits, Authorizations, Waivers and Special Agreements;
  - 2. Suspend, terminate and revoke Waste Discharge Permits, Authorizations, Waivers and Special Agreements:
  - 3. Require the installation and maintenance of Pretreatment Facilities and/or monitoring facilities and equipment;
  - 4. Require installation of equipment necessary to protect the POTW from possible discharges (i.e., spill, rain);
  - 5. Conduct inspections of facilities, including, but not limited to, inspecting and copying records:
  - 6. Require monitoring and reporting of discharges to the POTW;
  - 7. Monitor the quality of Wastewater entering the sewer system;
  - 8. Require the development of Spill Containment Plans and reporting of accidental discharges;

- 9. Require the development of a Slug Control Plan (per 40 CFR 403.8);
- 10. Deny, approve, or approve with conditions, new or increased discharges or change in the quantity or characteristics of discharges, when such discharges do not meet applicable pretreatment requirements as specified in 40 CFR 403.8.
- 11. Take enforcement actions against those who violate or cause violation of this Ordinance or discharge permit conditions. These actions may include, but are not limited to the following:
  - a. Issuing letters;
  - b. Issuing Notices of Violation;
  - c. Issuing Administrative Orders;
  - d. Issuing Emergency Suspensions;
  - e. Initiating and conducting non-compliance meetings;
  - f. Initiating and conducting administrative hearings;
  - g. Petitioning the courts for injunctions or civil penalties;
  - h. Signing criminal complaints;
  - Terminating services;
  - Requiring payment of violation charges;
  - k. Revoking and/or suspending the Waste Discharge Permit, Authorization, or Special Agreement.
  - I. To hear and rule on appeals.
- 12. Establish Policies and Standards applicable for discharges or potential discharges of Non-Domestic Wastewater.
- 13. Establish Best Management Practices applicable as Local Limits or individually.
- B. The General Manager is authorized to delegate authority to a designated representative any power granted to or the carrying out of any duty imposed upon the General Manager pursuant to this Ordinance.

#### 1.7 ACCESS

The District shall be permitted to enter all properties from which wastes or wastewaters are being or are capable of being discharged into a POTW for purposes of inspecting, observing, measuring, sampling, and testing pertinent to the discharge of wastes or wastewaters to ascertain whether the intent of this Ordinance is being met and the User is complying with all requirements. The District shall have access at reasonable times to all parts of the wastewater generating and disposal facilities for the purposes of inspection and sampling. The District shall have the right to set up on the User's property such devices as are necessary to conduct sampling or metering operations. Where a User has security measures in force, the User shall make necessary arrangements so that personnel from the District will be permitted to enter without delay for the purpose of performing their specific responsibilities.

#### 1.8 INFORMATION REQUIRED

- A. To provide for fair and equitable use of POTW, the District shall have the unqualified right to require a User to provide information necessary to insure compliance with all rules, regulations, and provisions of this Ordinance.
- B. All information and data on a User shall be available to the unless the User specifically requests and is able to demonstrate to the satisfaction of the District that the release of such information would divulge information, processes, or methods which would be detrimental to the User's competitive

position. The demonstration of the need for confidentiality made by the User must meet the burden necessary for holding such information from the general public under applicable State and Federal law.

- C. In any event, the District shall not limit Environmental Protection Agency (EPA) or the Regional Water Quality Control Board's (RWQCB) access to any information provided by the User.
- D. In any event, information concerning Wastewater quality and quantity will not be deemed confidential. Such information may include, but is not limited to:
  - 1. Wastewater discharge peak flow rates and volume over a specified time period;
  - 2. Physical, chemical, bacteriological, or radiological analysis of Wastewater;
  - 3. Site and process flow diagrams and information on raw materials, processes, and products;
  - 4. Quantity and disposition of specific liquid, sludge, oil, solvent, or other materials;
  - 5. Details of Wastewater Pretreatment Facilities and their operation and maintenance;
  - 6. Details of systems to prevent and control the losses of materials through spills to the POTW;
  - 7. Detailed plumbing plans indicating all sources discharging to on and offsite Sewer Laterals;
  - 8. A Slug control program, per 40 CFR 403.8;
  - Notification of discharges of a listed hazardous waste (Section 3001 of Resource Conservation Recovery Act (RCRA)) to the sewer system per 40 CFR 403.12;
  - 10. Baseline monitoring reports per 40 CFR 403.12;
  - 11. Compliance progress reports in accordance with all provisions listed in 40 CFR403.12:
  - 12. Notification of potential problems, including Slugs in accordance with all provisions listed in 40 CFR 403.12;
  - 13. Prompt notification of substantial changes in volume or character of Pollutants discharged in accordance with all provisions listed in 40 CFR 403.12;
  - 14. Monitoring and analysis reports demonstrating continued compliance in accordance with all provisions listed in 40 CFR 403.12.

#### 1.9 AUTHORITY

The District is regulated by several agencies of the United States Government and the State of California, pursuant to the provisions of Federal and State Law. Federal and State Laws (including, but not limited to: 1) Federal Water Pollution Control Act, commonly known as the Clean Water Act (33 U.S.C. § 1251 *et* seq.); 2) California Porter Cologne Water Quality Act

(California Water Code§ 13000 *et* seq.); 3) California Health & Safety Code sections 25100-25250; 4) Resource Conservation and Recovery Act of 1976 (42 U.S.C. § 6901 *et* seq.); and 5) California Government Code sections 54739-54740) grant to the District the authority to regulate and/or prohibit, by the adoption of an ordinance, and by issuance of permits, authorizations, and special agreements, the discharge of any waste, directly or indirectly, to the POTW. Said authority Includes the right to establish limits, conditions, and prohibitions; to establish flow rates or prohibit flows discharged to the POTW; to require the development of compliance schedules for the installation of equipment, systems and materials by all Users; and to take all actions necessary to enforce its authority, whether within or outside the District boundaries, including those Users that are tributary to the District or within areas for which the District has contracted to provide sewerage services.

#### **ARTICLE 2**

#### **DEFINITIONS**

#### 2.1 DEFINITIONS

- A. Where definitions contained within this document, conflict with definitions found in other documents or regulations, the definitions found herein shall take precedence and apply to discharges to HVLCSD POTW.
- B. The following abbreviations, when used in this Ordinance, shall have the designated meanings:
  - 1. BMP Best Management Practice
  - 2. BMR Baseline Monitoring Report
  - 3. BOD Biological Oxygen Demand
  - 4. CFR Code of Federal Regulations
  - 5. EPA Environmental Protection Agency
  - 6. GPO-Gallons Per Day
  - 7. HVLCSD- Hidden Valley Lake Community Services District (District)
  - 8. LWH Liquid Waste Hauler
  - 9. mg/L Milligram Per Liter
  - 10. NAICS- North American Industry Classification System
  - 11. NPDES National Pollutant Discharge Elimination System
  - 12. NSCIU-Non-Significant Categorical Industrial User
  - 13. POTW- Public Owned Treatment Works
  - 14. RCRA-Resource Conservation Recovery Act
  - 15. RV Recreational Vehicle
  - 16. RWRF Regional Water Reclamation Facility
  - 17. SIC- Standard Industrial Classification
  - 18. SIU Significant Industrial User
  - 19. SNC-Significant Non-Compliance
  - 20. TDS-Total Dissolved Solids
  - 21. TSS-Total Suspended Solids
- C. Unless a provision explicitly states otherwise, the following terms and phrases, as used in this Ordinance, shall have the meanings designated.
  - 1. <u>Applicant</u>- Any Person(s) who has applied for permission to discharge to the POTW.
  - 2. <u>Authorization</u> See Waste Discharge Authorization.

#### 3. <u>Authorized Representative:</u>

- a. Responsible officer, if the User is a corporation or limited liability company, where that officer is the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including have the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Control Mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b. By a general partner or proprietor if the User is a partnership or sole proprietorship respectively.
- c. If the User is a Federal, State, or local governmental entity or their agents, the principal executive officer or director having responsibility for the overall operation of the discharging facility.
- d. By a duly authorized representative of the individual designated in paragraph (a), (b), or (c) of this definition if:
  - The authorization is made in writing by the individual described in paragraph

     (a), (b), or (c);
  - 2.) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility or having overall responsibility for environmental matters for the company.
- 4. <u>Batch Discharge</u> The District approved intermittent discharge of Pollutants from sources such as, but not limited to, process tanks, holding tanks, rinse tanks, or treatment systems.
- 5. <u>Best Management Practices (BMPs)</u> Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions in Article 3. BMPs include treatment requirements, operating procedures, and practices to control plant/site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.
- 6. <u>Biochemical Oxygen Demand (BOO)</u> Quantity of oxygen, expressed in mg/L, required to biologically oxidize material in a waste or wastewater sample measured under approved laboratory methods for 5 days at 20°C.
- 7. <u>Board-</u> The Board of Directors of Hidden Valley Lake Community Services District (District).

- 8. <u>Categorical Pretreatment Standards</u> The final regulations promulgated and adopted by EPA (as outlined in 40 CFR 403, and 40 CFR, Chapter I, Subchapter N, 405-471) for each standard industrial classification (SIC) or subcategory containing pollutant discharge limits.
- 9. <u>Categorical User</u> Any User whose process(es) are subject to Categorical Pretreatment Standards.
- 10. <u>Categorical Wastewater</u> Wastewater subject to Categorical Pretreatment Standards.
- 11. <u>Cesspool</u> A lined excavation in the ground which receives the discharge of a sewage drainage system, or part thereof, so designed as to retain the solids and organic matter but permitting liquids to seep out.
- 12. <u>Code of Federal Regulations (CFR)-</u> The codification of the general and permanent rules published in the United States Federal Register by the Executive departments and agencies of the Federal Government to include but not limited to the Environmental Protection Agency.
- 13. <u>Collection System</u> The combined pipes, conduits, manholes, pumping stations and other structures, above and below ground, whose purpose is to convey wastewater to a District RWRF.
- 14. <u>Combined Waste stream Formula</u> Formula as outlined in the General Pretreatment Regulations of the Clean Water Act, Title 40 Code of Federal Regulations for determining wastewater discharge limitations for Categorical Users and Significant Industrial Users whose effluent is a mixture of regulated, unregulated and dilution wastewater as defined in the formula.
- 15. <u>Compatible or Conventional Pollutant</u> A combination of BOD, Total Suspended Solids, pH, fecal coliform bacteria, plus other Pollutants that the District's RWRF is designed to accept, treat, and/or remove. Some compatible pollutants may be considered incompatible when discharged in quantities that have an adverse effect on the collection, treatment, disposal systems and/or discharge permit regulating the RWRFs causing Interference or Pass Through.
- 16. Compliance Schedule An enforceable time schedule containing increments of progress called milestones or deadlines. These milestones shall be for the commencement and/or completion of major actions leading to the construction and operation of additional pretreatment facilities or the implementation of policies, procedures, or operational management techniques required for the User to comply with all applicable Federal, State or local environmental regulations which may directly or indirectly affect the quality of the User's Wastewater effluent.
- 17. Composite Sample A sample that is collected over time, either by continuous sampling or by mixing a minimum of four (4) discreet sample aliquots representative of the discharge during a twenty-four (24) hour period. The composite sample may be either as a time composite sample, composed of discreet sample aliquots collected in one (1) containment at constant time intervals, providing representative samples irrespective or stream flow; or as a flow proportional composite sample collected as a constant sample volume at timed intervals proportional to stream flow.

- 18. <u>Control Mechanism</u> Waste Discharge Permit, Water Discharge Authorization or Special Agreement.
- 19. <u>Designee</u> Person duly designated by the General Manager to direct and perform the duties as specified in this Ordinance.
- 20. <u>Dilution</u> Increase in use of process water, potable water or any other means to dilute a discharge as a partial or complete substitute for adequate treatment to achieve discharge requirements.
- 21. <u>Direct User</u> Any User who discharges, causes a discharge, or has a potential to discharge a Non-Domestic Wastewater to the Collection System.
- 22. <u>Discharge Requirements</u> The requirements of Federal (as listed in 40 CFR 403), State, or local public agencies having jurisdiction over the effluent discharges from District RWRF.
- 23. District-Hidden Valley Lake Community Services District (HVLCSD).
- 24. <u>Domestic Wastewater</u>- The liquid and solid waterborne wastes derived from the ordinary living processes of humans of such character as to permit satisfactory disposal, without special treatment, into the public sewer or by means of a private disposal system.
- 25. <u>Effluent</u> Treated wastewater flowing from a POTW or a User's Pretreatment Facilities.
- 26. <u>General Manager</u> The General Manager of Hidden Valley Lake Community Services District or their designee.
- 27. <u>Grab Sample</u>- A sample taken from a waste stream without regard to the flow of the waste stream and over a period of time not to exceed fifteen (15) minutes.
- 28. <u>Hearing Officer</u> The Person designated by the General Manager to conduct an administrative hearing.
- 29. <u>Incompatible or Non-Conventional Pollutant</u>- Any Pollutant which is not a Compatible Pollutant as defined herein.
- 30. <u>Indirect User</u>- Any User who discharges or has a potential to discharge Wastewater to a Septic Tank, Cesspool, chemical toilet, or private sewer system which, from time to time, is serviced by a Liquid Waste Hauler permitted by the District to discharge to a designated POTW.
- 31. <u>Infectious Agent</u> A type of microorganism, bacteria, mold, parasite, or virus, including, but not limited to, organisms managed as Biosafety Level II, III, or IV by the Federal Centers for Disease Control and Prevention, that normally cause, or significantly contributes to the cause of, increased morbidity or mortality of human being. (California Health and Safety Code, Section 117675)
- 32. <u>Inspector</u> Any representative of the District authorized by the General Manager to inspect any establishment directly or indirectly discharging or anticipating discharge to the POTW.

- 33. <u>Interceptor</u> The District approved equipment to remove floatable and settleable material from Wastewater prior to discharge.
- 34. <a href="Interference">Interference</a> A discharge by a User which, alone or in conjunction with discharges by other sources, inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and which is a cause of a violation of any requirement of the RWRF's discharge order and/or NPDES Permit (including an increase in the magnitude or duration of a violation), or of the prevention of sewage sludge use or disposal in compliance with applicable Federal, State, and local regulations (per 40 CFR 403.3 (I)).
- 35. <u>Liquid Waste Hauler (LWH)</u> Any pumper that is permitted by the County of Lake as a Non-Hazardous Liquid Waste Hauler, discharging domestic and sanitary wastewater only. This may also mean septic tank pumper.
- 36. <u>Local Limits</u> A set of technically based, enforceable, discharge limits implemented by the District for Pollutants that may cause Interference, Pass Through, sludge contamination, or worker health and public safety problems if discharged in excess to a POTW.
- 37. <u>Mass Emission Rate</u> The weight of material discharged to the sewer system during a given time interval. Unless otherwise specified, the mass emission rate shall mean pounds per day of particular constituent or combination of constituents.
- 38. <u>Milestone</u> Deadline established in a Compliance Schedule for specified increments. No increment shall exceed nine (9) months.
- 39. <u>Monitoring Facilities</u> Structure(s) and equipment approved by The District and provided at the User's expense for The District or the User to measure and record Wastewater Pollutant levels, flow and collect representative Wastewater samples.
- 40. <u>NAICS</u> North American Industry Classification System published by the Executive Office of the President of the United States, Office of Management and Budget.
- 41. New Source Any building, structure, facility, or installation from which there is or may be a discharge of Pollutants, the construction of which commenced after the publication of proposed Categorical Pretreatment Standards under section 307c of the Act. (40 CFR 403.3K Definitions)
- 42. Non-Domestic Wastewater All Wastewater other than Domestic Wastewater.
- 43. Non-Significant Categorical Industrial User (NSCIU) Categorical Users who discharge less than 100 gallons day (gpd) of total categorical wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater, unless specifically included in the Categorical Pretreatment Standard), including zero discharging Categorical Users.
- 44. Oil and Grease Any petroleum derived products (e.g., oils, fuels, lubricants, solvents, cutting oils, mineral oils), any vegetable derived products (e.g., oils, shortenings, water soluble cutting oils, etc.) or any animal derived products (e.g., fats, greases, oils, etc.) in part or in combination.

- 45. Pass Through The discharge of pollutants through the RWRF in quantities or concentrations which are a cause in whole or in part of a violation of any requirement of the RWRF's discharge order including an increase in the magnitude or duration of a violation (40 CFR 403.3).
- 46. Permitted User User regulated by a permit.
- 47. <u>Permittee</u> A User who has applied for and received a permit to discharge into a POTW and is subject to the requirements and conditions established by the District.
- 48. <u>Person</u> Any individual, partnership, firm, association, corporation, tribe, or public agency, including the State of California and the United States of America.
- 49. <u>Pollutant</u> Any constituent or characteristic of Wastewater on which a discharge limitation or prohibition may be imposed either by the District or the regulatory agencies empowered to regulate the District.
- 50. <u>Publicly Owned Treatment Works (POTW)</u> Means the treatment works owned by HVLCSD and all pumping stations, sewers, pipes, and other conveyances owned by public entities, including but not limited to cities, other agencies, and tribes connected to the treatment works.
- 51. Pretreatment The reduction of the amount of Pollutants, the elimination of Pollutants, or the alteration of the nature of Pollutant properties in Wastewater prior to, or in lieu of, introducing such Pollutants into the POTW. This reduction or alteration can be obtained by physical, chemical, or biological processes; by process changes; or by other means, except by diluting the concentration of the Pollutants unless allowed by an applicable Categorical Pretreatment Standard.
- 52. <u>Pretreatment Facilities</u> Any works or devices for the treatment or flow control of Wastewater prior to discharge.
- 53. <u>Pretreatment Requirements</u> Any requirement related to Pretreatment imposed on a User, other than a Pretreatment Standard.
- 54. <u>Pretreatment Standard or Standards</u> Prohibited discharge standards, Categorical Pretreatment Standards, and local limits.
- 55. <u>Priority Pollutants</u> The listing of toxic pollutants as identified in 40 CFR 401.15.
- 56. <u>Public Agency</u> Any Federal, State or local authority.
- 57. Public Nuisance Anything which: (1) is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property, and (2) affects at the same time an entire community or neighborhood, or any number of Persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal, and (3) occurs during or as a result of the treatment or disposal of waste to the POTW.
- 58. <u>Qualified Professional</u> Any Person who by virtue of education, training, or experience is qualified to evaluate and assess Pollutant discharges and violations of this Ordinance.

- 59. <u>RCRA</u> Resource Conservation and Recovery Act of 1976, and its regulations as found in 40 CFR Parts 260-266 and Part 270 as amended.
- 60. Recreational Vehicle (RV) Recreational Vehicle as defined in Health and Safety Code section 18010.
- 61. Regional Water Quality Control Boards (RWQCB) Develops and enforce water quality objectives and implementation plans that will best protect the beneficial uses of the State's waters. The RWQCB issue HVLCSD a wastewater treatment and disposal Permit. The Central Valley RWQCB (Sacramento Office) RWQCB regulates this Permit and any future pretreatment program administered by HVLCSD.
- 62. <u>Regional Water Reclamation Facility (RWRF)</u> The District sewage treatment plant designed to serve a specific area of the District.
- 63. Regeneration Cycle Liquid used to exchange the chemistry in an ion exchange unit.
- 64. Regulatory Agencies Those agencies having oversight of the operation of the District, including but not limited to the following:
  - a. United States Environmental Protection Agency (EPA);
  - b. California Environmental Protection Agency (Cal-EPA);
  - c. California State Water Resources Control Board (SWRCB);
  - d. California Regional Water Quality Control Board, Central Valley (Sacramento Office);
  - e. California Department of Public Health (CDPH);
  - f. Lake County Department of Environmental Health.
- 65. <u>RV Holding Tanks</u> A RV tank designed to hold Domestic Wastewater.
- 66. <u>Sample Aliquot</u> A portion of a total amount of a solution or media used for analytical testing.
- 67. Sanitary Wastewater Domestic Wastewater from other than a dwelling unit.
- 68. <u>Self-Monitoring</u> Wastewater samples taken by a User or User's contracted laboratory, consultant, engineer, or similar entity.
- 69. <u>Septic Tank</u> A watertight receptacle which receives the discharge from a sewer system and is designed and constructed to retain solids, digest organic matter through a period of detention, and allows the liquids to discharge for disposal.
- 70. <u>Sewer Lateral</u> POTW owned piping and appurtenances extending from the sewer pipeline to the private sewer system at the boundary line of the User's property or POTW's easement.
- 71. Significant Industrial User (SIU):
  - a. A User subject to Categorical Pretreatment Standards; or;
  - b. A User that:
    - 1.) Discharges an average of twenty-five thousand (25,000) gpd or more of process wastewater to the POTW (excluding sanitary, non-contact cooling, and boiler blowdown wastewater);

- 2.) Contributes a process wastewater which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the RWRF; or
- 3.) Is designated as such by the District on the basis that it has a reasonable potential for adversely affecting the RWRF's operation or for violating any Pretreatment Standard or Pretreatment Requirement.
- c. Upon a finding that a User meeting the criteria in subsection b.3. has no reasonable potential for adversely affecting the RWRFs operation or for violating any Pretreatment Standard or Pretreatment Requirement, the District may at any time, on its own initiative or in response to a petition received from a User, and in accordance with procedures in 40 CFR 403.8, determine that such User should not be considered a Significant Industrial User.
- 72. <u>Significant Non-Compliance (SNC):</u> Any SIU with compliance violations which meet one or more of the following criteria:
  - a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all of the measurements taken for the same pollutant parameter during a six-month (6) period exceed (by any magnitude) a numeric Pretreatment Standard or Pretreatment Requirement, including instantaneous limits, as defined by 40 CFR 403.3;
  - b. Technical review criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all of the measurements taken for the same pollutant parameter during a six-month (6) period equal or exceed the product of the numeric Pretreatment Standard or Pretreatment Requirement, including instantaneous limits, as defined by 40 CFR 403.3, multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH);
  - c. Any other violation of a Pretreatment Standard or Pretreatment Requirement as defined by 40 CFR 403.3 (daily maximum, long- term average, instantaneous limit, or narrative Standard) that the General Manager determines has caused, alone or in combination with other discharges, Interference or Pass Through (including endangering the health of District personnel or the general public);
  - d. Any discharge of a Pollutant that has caused imminent endangerment to human health or welfare or to the environment or has resulted in the District's exercise of its emergency authority to halt or prevent such a discharge;
  - e. Failure to meet, by ninety (90) days or more after the schedule date, a Milestone contained in a local Control Mechanism or enforcement order, for starting construction, completing construction, or attaining final compliance;
  - f. Failure to provide, within forty-five (45) days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with Compliance Schedules;
  - g. Failure to accurately report non-compliance;
  - h. Any other Violation or group of Violations, which may include violation of BMPs, which the General Manager determines will adversely affect the operation or implementation of a local Pretreatment program.
- 73. <u>Single Pass Cooling Water</u> Water that is used solely for the purpose of cooling and is used only once before being discharged.

- 74. <u>Slug</u> Any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way contribute to the POTW violating any requirements.
- 75. General Officer The Person duly designated by the General Manager (Generally the Water Resources Specialist) to develop and implement the District's Regulations for Waste Discharge and Sewer Use and performs the duties as specified in this Ordinance and the Enforcement Response Plan for this Ordinance.
- 76. Special Agreement(s) A short term revocable permission to discharge Wastewater to the POTW, subject to Ordinance 59 and policies and standards established by the Board of Directors.
- 77. <u>Spill Containment</u> A protection system installed by the User and at the users expense, to prohibit the accidental discharge of Pollutants to the sewer.
- 78. <u>Standard Industrial Classification (SIC)</u> The system of classifying industries issued by the U.S. Office of Management and Budget.
- 79. <u>Total Dissolved Solids (TDS)</u> The unfilterable residue of the combined content of all inorganic and organic substances contained in a liquid.
- 80. <u>Total Inorganic Nitrogen (TIN)</u> The summation of inorganic nitrogen including ammonia nitrogen, nitrate nitrogen, and nitrite nitrogen.
- 81. <u>Total Suspended Solids (TSS)</u> The total amount of residue retained by laboratory filtration and dried at 103-105° C.
- 82. <u>Toxic Pollutants</u> Those Pollutants, or combinations of Pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will, on the basis of information available to the General Manager, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunctions in reproduction), or physical deformations, in such organisms or their offspring.
- 83. <u>User</u> Any Person who discharges or has a potential to discharge Non- Domestic Wastewater directly or indirectly to a POTW.
- 84. <u>Violation</u> Failure by a User to comply with this Ordinance or any Waste Discharge Permit, Waste Discharge Authorization, Special Agreement, and/or policies and standards established by the District.
- 85. Waste(s) Any discarded solid, semi-solid, liquid or gaseous material.
- 86. <u>Waste Discharge Authorization (WDA)</u> The revocable permission to discharge Wastewater to the POTW, subject to this Ordinance and policies and standards established by the District.

- 87. <u>Waste Discharge Permit (WDP)</u> The periodically renewable, revocable permission to discharge Wastewater to the POTW, subject to technically based limits on wastewater constituents and characteristics.
- 88. <u>Wastewater</u> Liquid and water-carried wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the POTW.

#### 2.2 OTHER MEANINGS

Words used in this Ordinance in the singular shall include the plural and the plural the singular. Use of masculine shall also mean feminine and use of feminine shall also mean masculine. Shall is mandatory; may is permissive or discretionary.

#### **ARTICLE 3**

#### GENERAL SEWER USE REQUIREMENTS

#### 3.1 PROHIBITED DISCHARGE STANDARDS

## A. General Prohibitions

No User shall introduce or cause to be introduced into the POTW any Pollutant or Wastewater, which, alone or in conjunction with other substances, causes Interference or Pass Through. These general prohibitions apply to all Users whether or not they are subject to Categorical Pretreatment Standards or any other Federal, State or local Pretreatment Standards or Pretreatment Requirements.

#### B. Specific Prohibitions

No User shall introduce or cause to be introduced into the POTW (The POTW includes the sanitary sewer collection system) the following Pollutants, substances or Wastewater:

- 1. Pollutants which create a fire or explosive hazard in the POTW including, but not limited to Wastewater with a closed-cup flashpoint of less than 140" F {60° C) using the test methods specified in 40 CFR 261.21;
- 2. Wastewater having a pH less than 5.0 or more than 11.0 or otherwise causing corrosive structural damage to the POTW;
- 3. Solid or viscous substances in amounts which will cause obstruction of the flow in the POTW resulting in blockage or interference, but in no case solids greater than 3/8 inches In any dimension; (e.g. construction debris, corn meal, dirt, sand, gravel, oil, grease, etc.)

- 4. Pollutants, including oxygen-demanding Pollutants (BOD, etc.), released in a discharge at a flow rate and/or Pollutant concentration which, either singly or by interaction with other Pollutants, will cause Interference with the POTW;
- 5. Wastewater having a temperature greater than 140" F {60° C}, or which will inhibit biological activity in the RWRF resulting in Interference, but in no case Wastewater which causes the temperature at the introduction into the RWRF to exceed 104° F {40° C};
- 6. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause Interference or Pass Through;
- 7. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
- 8. Noxious or malodorous liquids, gases, solids, or other Wastewater which, either singly or by interaction with other wastes, are sufficient to create a Public Nuisance or a hazard to life or to prevent entry into the sewers for maintenance or repair;
- 9. Wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the RWRF's effluent;
- 10. Wastewater containing any radioactive wastes or isotopes except in compliance with applicable State or Federal regulations;
- 11. Sludge's, screening, or other residues from the Pretreatment of industrial wastes;
- 12. Detergents, surface-active agents, or other substances which may cause excessive foaming in the POTW;
- 13. Wastewater required to be manifested under RCRA.
- 14. Infectious agents as defined in the California Health and Safety Code.

## C. Other Prohibitions

- Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, deionized water, Single Pass Cooling Water and Wastewater free of Pollutants, unless specifically authorized by the General Manager.
- 2. Pollutants, substances, or Wastewater prohibited by this section shall not be processed or stored in such a manner that they could be discharged to the POTW.
- 3. Trucked or hauled Pollutants except at discharge points designated by the General Manager; provided, however, RV wastes may be discharged to User-owned sewer facilities.
- 4. Any procedure, chemical addition, or physical modification that will result in bypass or pass-through of required pretreatment equipment.

#### 3.2 CATEGORICAL PRETREATMENT STANDARDS

- A. The Categorical Pretreatment Standards found at 40 CFR Chapter I, Subchapter N, Parts 405-471 are hereby incorporated.
- B. Where a Categorical Pretreatment Standard is expressed only in terms of either the mass or the concentration of a Pollutant in Wastewater, the General Manager may impose equivalent concentration or mass limits in accordance with 40 CFR 403.6.
- C. When Wastewater subject to a Categorical Pretreatment Standard is mixed with Wastewater not regulated by the same standard, the General Manager shall impose an alternate limit using the combined waste stream formula, and requirements in 40 CFR 403.6.
- D. A User may obtain a variance from a Categorical Pretreatment Standard if the User can prove, pursuant to the procedural and substantive provisions in 40 CFR 403.13, that factors relating to its discharge are fundamentally different from the factors considered by EPA when developing the Categorical Pretreatment Standard.
- E. A User may obtain a net gross adjustment to a Categorical Pretreatment Standard in accordance with 40 CFR 403.15.

#### 3.3 LOCAL LIMITS

- A. No Permitted User shall discharge or cause to be introduced directly or indirectly into the District's or contributing agency's collection system, a quantity or quality of Wastewater which exceeds the Local Limits on discharges to the POTW established by the District. Once Local Limits are established, they will be set forth by Resolution as amended.
- B. Local Limits apply at the point where the Wastewater is discharged to the POTW, except for BMPs, which are applied at the end of the process and any subsequent treatment. The General Manager may impose limitations based on concentrations of Pollutants in milligrams per liter or as an amount of Pollutants in pounds per day.

## 3.4 BEST MANAGEMENT PRACTICES

No User shall discharge wastewater to the POTW contrary to the BMPs established by the District.

#### 3.5 POLICIES AND STANDARDS

No User shall discharge Wastewater to the POTW contrary to the policies and standards established by the District.

## 3.6 LIMITATIONS OF TOTAL DISSOLVED SOLIDS (TDS)

A. The General Manager may limit the total loading of TDS to preserve the beneficial use of recycled water or to comply with environmental or regulatory requirements issued to the District by:

- Prohibiting Users from discharging the regeneration cycle from any waterconditioning appliance, including but not limited to water softeners or conditioners, to the POTW;
- 2. Regulating the residential use of water softeners or water conditioners in accordance with California law, including California Health and Safety Code sections 116775-116795; and
- 3. Issuing permits, applying BMPs, or implementing policies and standards for any Wastewater discharges regulated by this Ordinance.

#### 3.7 RIGHT OF REVISION

The District reserves the right to establish, by ordinance or in Waste Discharge Permits, Waste Discharge Authorizations, and Special Agreements, more stringent requirements on discharges to the POTW.

## 3.8 DILUTION

No User shall ever increase the use of process water or, in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Pretreatment Requirement. The General Manager may impose mass limitations on the amount, in pounds per day, of pollutants discharged by Users who are using dilution to meet applicable Pretreatment Standards or Pretreatment Requirements, or in other cases when the imposition of mass limitations is appropriate.

#### 3.9 CESSPOOL. SEPTIC TANK. HOLDING TANK AND. HAULED WASTES

- A. Hauled waste from Cesspools, Septic Tanks, portable toilets, and holding tanks (excluding RV's containing only domestic and/or sanitary wastes) will be accepted only at District-designated locations.
- B. The General Manager may accept other hauled waste at District-designated locations.
- C. No Liquid Waste Hauler discharging septic waste or sanitary waste shall discharge constituents in excess of the limits specified in the respective Waste Discharge Permit based on the limits for Liquid Waste Haulers discharging domestic waste as set forth in local, state and/or federal rules or regulations as amended.

#### 3.10 ACCESS TO DISTRICT FACILITIES

No Person shall access, enter, break, damage, destroy, uncover, deface, tamper with, or discharge to any temporary or permanent structure, equipment, or appurtenance, which is part of the POTW without prior approval by the General Manager.

#### WASTE DISCHARGE PERMIT AND PERMIT REPORTING REQUIREMENTS

#### 4.1 GENERAL REQUIREMENTS

#### A. <u>Wastewater Analysis</u>

When requested by the General Manager, a User shall submit information on the nature and characteristics of its Wastewater and other associated and pertinent information within sixty (60) days of the request. The General Manager is authorized to require Users to update this information periodically.

## B. <u>Waste Discharge Permit Requirements</u>

- 1. No Significant Industrial User (SIU) shall discharge Wastewater into the POTW without first obtaining a Waste Discharge Permit.
- A Significant Industrial User that has filed a timely application pursuant to Section 4.1.D of this Ordinance may continue to discharge for the time period specified therein.
- 3. The General Manager may require other Users to obtain a Waste Discharge Permit as necessary to carry out the purposes of this Ordinance.
- 4. Any violation of the terms and conditions of a Waste Discharge Permit shall be deemed a violation of this Ordinance and subject the User to the sanctions set out in Article 6 of this Ordinance. Obtaining a Waste Discharge Permit does not relieve the User of its obligation to comply with all Federal and State Pretreatment Standards or Pretreatment Requirements or with any other requirements of Federal, State and local law.
- 5. The District may determine that a User subject to Categorical Pretreatment Standards is a Non-Significant Categorical Industrial User (NSCIU) rather than a Significant Industrial User on a finding that the User never discharges more than 100 gpd of total Categorical Wastewater (excluding sanitary, non-contact cooling and boiler blow down, unless specifically included in the Pretreatment Standards) and the following conditions are met:
  - a. The User, prior to POTW finding, has consistently complied with all applicable Categorical Pretreatment Standards and Pretreatment Requirements; and
  - b. The User annually submits the certification statement required in Section 4.3.J together with any additional information necessary to support the certification statement; and
  - c. The User never discharges any untreated concentrated Wastewater.
- 6. Upon a finding that a User meeting the criteria above has no reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Pretreatment Requirement, the District may at any time, on its own

initiative or in response to a petition received from a User, and in accordance with procedures in 40 CFR 403.8, determine that such User should not be considered a Significant Industrial User.

## C. <u>Issuing Waste Discharge Permits: New Connections</u>

Users who propose to begin or restart a discharge to the POTW must apply for a Waste Discharge Permit at least sixty (60) days prior to any discharge.

## D. <u>Issuing Waste Discharge Permits: Existing Connections</u>

Any User required to obtain a Waste Discharge Permit due to requirements in this Ordinance who was discharging Wastewater into the POTW prior to the effective date of the requirements and who wishes to continue such discharges in the future, shall, within ninety (90) days after said date, apply for a Waste Discharge Permit in accordance with Section 4.1.E of this Ordinance, and shall not cause or allow discharges to the POTW to continue after one hundred twenty (120) days of the effective date of the Ordinance except in accordance with a Waste Discharge Permit issued by the General Manager.

## E. <u>Waste Discharge Application Contents</u>

- 1. All Users required to obtain a Waste Discharge Permit must submit a Waste Discharge Application. The General Manager may require any User to submit as a part of an application the following information:
  - a. All information required in Section 4.3.A.2 of this Ordinance;
  - b. Physical, chemical, bacteriological, radiological analysis of Wastewater;
  - c. Description of activities, facilities, and plant processes on the premises, including a list of all raw materials and chemicals used or stored at the facility which are or could accidentally or intentionally be discharged to the POTW:
  - d. Number and type of employees, hours of operation, and proposed or actual hours of operation;
  - e. Each product produced by type, amount, process or processes, and rate of production;
  - f. (1) Type and amount of raw materials processed (average and maximum per

day);

- (2) quantity, disposition, and method of disposal of specific liquid, sludge, oil, solvent, or other material;
- g. (1) Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation and all points of discharge;
  - (2) details of Wastewater;
  - (3) details of Pretreatment Facilities and their operation and maintenance;

- (4) details of systems to prevent and control the losses of materials through spills to the POTW;
- h. (1) Time and duration of discharges:
  - (2) detailed plumbing plans indicating all sources discharging to the on or off-site Sewer Lateral;
- i. Any other information as may be deemed necessary by the General Manager to evaluate the Waste Discharge Application.
- 2. Incomplete or inaccurate applications will not be processed and will be returned to the User for revision.

## F. <u>Signatories and Certification</u>

All Waste Discharge Applications, BMP's, NSCIU Reports, and Categorical Standard Compliance Deadline Reports must be signed by an Authorized Representative of the User and contain the following certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

## G. <u>Waste Discharge Permit Decisions</u>

The General Manager will evaluate the data furnished by the User and may require additional information. Within thirty (30) days of receipt of a complete Waste Discharge Application, the General Manager will determine whether or not to issue a Waste Discharge Permit. The General Manager may deny any application for a Waste Discharge Permit.

## 4.2 WASTE DISCHARGE PERMIT ISSUANCE PROCESS

#### A. Waste Discharge Permit Duration

A Waste Discharge Permit shall be issued for a specified time period, not to exceed five (5) years from the effective date of the Waste Discharge Permit. A Waste Discharge Permit may be issued for a period less than five (5) years, at the discretion of the General Manager. Each Waste Discharge Permit will indicate a specific date upon which it will expire.

#### B. <u>Waste Discharge Permit Contents</u>

- 1. Waste Discharge Permits shall contain:
  - a. A statement that indicates Waste Discharge Permit duration, which in no event shall exceed five (5) years;

- A statement that the Waste Discharge Permit is non-transferable without prior notification to the District in accordance with Section 4.2.E of this Ordinance, and provisions for furnishing the new owner or operator with a copy of the existing Waste Discharge Permit;
- Effluent limits, including BMPs, based on applicable general Pretreatment Standards in 40 CFR 403, Categorical Pretreatment Standards, Local Limits, and State and local law;
- d. Self-monitoring, sampling, reporting, notification, record keeping requirements, an identification of the Pollutants to be monitored (including the process for seeking a waiver for a Pollutant neither present nor expected to be present In the discharge in accordance with 40 CFR 403.12, or a specified waived Pollutant in the case of an individual ·waste Discharge Permit), sampling location, sampling frequency, and sample type, based on the applicable general Pretreatment Standards in 40 CFR 403, Categorical Pretreatment Standards, Local Limits, and State and local law:
- e. A statement of applicable civil and criminal penalties for Violations of Pretreatment Standards and Pretreatment Requirements, and any applicable Compliance Schedule. Such Compliance Schedule may not extend the time for compliance beyond that required by applicable Federal, State, or local law;
- f. Requirements to control Slugs.
- Waste Discharge Permits may contain, but need not be limited to, the following conditions:
  - Limits on the average and/or maximum rate of discharge, time of discharge, and/or requirements for flow regulation and equalization;
  - Requirements for the Installation and maintenance of pretreatment technology, pollution control, or construction of appropriate containment devices designed to reduce, eliminate or prevent the introduction of Pollutants into the POTW;
  - Requirements for the development and implementation of spill control plans or other special conditions including management practices necessary to adequately prevent accidental, unanticipated, or routine discharges;
  - d. Development and implementation of waste minimization plans to reduce the amount of Pollutants discharged to the POTW;
  - e. Requirements for installation and maintenance of inspection and monitoring facilities and equipment;
  - f. A statement that compliance with the Waste Discharge Permit does not relieve the permittee of responsibility for compliance with all applicable Federal and State Pretreatment Standards, including those which become effective during the term of the Waste Discharge Permit; and
  - g. Other conditions as deemed appropriate by the General Manager to ensure compliance with this Ordinance and Federal, State, and local laws, rules and regulations.

#### C. <u>Waste Discharge Permit Appeals</u>

- 1. Any Person, including the User, may petition the General Manager to reconsider the provisions of a Waste Discharge Permit within thirty (30) days of notice of its issuance.
  - a. In its petition, the appealing party shall indicate the Waste Discharge Permit provisions objected to, the reasons for objection, and the alternative provisions, if any, it seeks to place in the Waste Discharge Permit.
  - b. The effectiveness of the Waste Discharge Permit shall not be stayed pending the appeal.
- 2. Failure to submit a timely petition for reconsideration shall be deemed to be a waiver of the administrative appeal.
- 3. If the General Manager fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied.
- 4. Any person, including the User, may petition the Board of Directors to reconsider the decision of the General Manager.
- 5. If the Board of Directors fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied. Decisions not to issue a Waste Discharge Permit, not to reconsider the provisions of a Waste Discharge Permit, or not to modify the provisions of a Waste Discharge Permit shall be considered final administrative actions for the purposes of judicial review
  - 6. Any party aggrieved by a final Waste Discharge Permit action may obtain review of the action by filing in court a petition for writ of mandate within ninety (90) days following the effective date of the action. If no aggrieved party petitions for writ of mandate within the time provided by this section, a final Waste Discharge Permit administrative action shall not be subject to review by any court or agency. The evidence before the court shall consist of the record before the General Manager, and any other relevant evidence, which in the judgment of the court, should be considered to effectuate and implement the policies of this Ordinance. Except as otherwise provided in this section, subdivisions (e) and (f) of Code of Civil Procedure section 1094.5 shall govern proceedings pursuant to this section.

#### D. Waste Discharge Permit Modification

- 1. The General Manager may modify a Waste Discharge Permit for good cause including, but not limited to, the following reasons:
  - a. To incorporate any new or revised Federal, State or local Pretreatment Standards or Pretreatment Requirements;
  - b. To address significant alterations or additions to the User's operation processes, or Wastewater volume or character since the time of Waste Discharge Permit issuance;
  - c. A change in the POTW that requires either a temporary or permanent reduction or elimination of the permitted discharge;
  - d. Information indicating that the permitted discharge poses a threat to the POTW, POTW personnel, the receiving water, or the public;

- e. Violation of any terms or conditions of the Waste Discharge Permit;
- f. Misrepresentation or failure to fully disclose all relevant facts in the Waste Discharge Application or in any required reporting;
- g. Revision of or a grant of variance from such Categorical Pretreatment Standards pursuant to 40 CFR 403.13;
- h. Correction of typographical or other errors in the Waste Discharge Permit; or
- i. To reflect a transfer of the facility ownership or operation to a new owner or operator.

## E. <u>Waste Discharge Permit Transfer</u>

- 1. Waste Discharge Permits may be transferred to a new owner or operator only if the permittee gives at least thirty (30) days advance notice to the General Manager and the General Manager approves the Waste Discharge Permit transfer. The notice to the General Manager must include a written certification by the new owner or operator which:
  - a. States that the new owner and/or operator has no immediate intent to change thefacility's operations and processes;
  - b. Identifies the specific date on which the transfer is to occur;
  - c. Acknowledges full responsibility for complying with the existing Waste Discharge Permit; and
  - d. States that the new owner and/or operator has obtained a copy of the existing Waste Discharge Permit.
- 2 Failure to provide advance notice of a transfer renders the Waste Discharge Permit void as of the date of facility transfer.

## F. Waste Discharge Permit Revocation

- 1. A Waste Discharge Permit may be revoked for good cause including, but not limited to the following reasons:
  - a. Failure to notify the General Manager of significant changes to the Wastewater prior to the changed discharge;
  - b. Failure to provide prior notification to the General Manager of changed conditions pursuant to Section 4.3.E of this Ordinance;
  - c. Misrepresentation or failure to fully disclose all relevant facts in the Waste Discharge Application;
  - d. Falsifying self-monitoring reports;
  - e. Tampering with monitoring equipment;
  - f. Refusing to allow the General Manager timely access to the facility premises and records;

- g. Failure to meet effluent limitations;
- h. Failure to pay penalties;
- i. Failure to pay sewer charges;
- j. Failure to meet Compliance Schedules;
- k. Failure to complete a Wastewater survey or the Waste Discharge Application;
- I. Failure to provide advance notice of the transfer of business ownership of a permitted facility; or
- m. Violation of any Pretreatment Standard or Pretreatment Requirement, or any terms of the Waste Discharge Permit or this Ordinance.
- 2. Waste Discharge Permits shall be voidable upon cessation of operations.
- 3. A Waste Discharge Permit issued to a particular User is void when the new Waste Discharge Permit to that User becomes effective.
- 4. Waste Discharge Permit revocation is subject to appeal as set forth in Section 6.4.

## G. Waste Discharge Permit Reissuance

A User with an expiring Waste Discharge Permit shall apply for Waste Discharge Permit reissuance by submitting a complete Waste Discharge Application (or a statement signed by the Authorized Representative that there are no changes to the application previously submitted), in accordance with Section 4.1.E of this Ordinance, at least sixty (60) days prior to the expiration of the User's existing Waste Discharge Permit.

## 4.3 REPORTING REQUIREMENTS

## A. <u>Baseline Monitoring Reports</u>

- 1. Baseline Monitoring Requirements
  - a. Within the later of (1) one hundred eighty (180) days after the effective date of a Categorical Pretreatment Standard, or (2) the final administrative decision on a category determination under 40 CFR 403.6, existing Categorical Users currently discharging to or scheduled to discharge to the POTW shall submit to the General Manager a report which contains the information listed in Section 4.3.A.2. At least ninety (90) days prior to commencement of their discharge, New Sources, and sources that become Categorical Users subsequent to the promulgation of an applicable Categorical Pretreatment Standard, shall submit to the General Manager a report, which contains the information listed in Section 4.3.A.2. A New Source shall report the method of Pretreatment it intends to use to meet

- applicable Categorical Pretreatment Standards. A New Source shall also give estimates of its anticipated flow and quantity of Pollutants to be discharged.
- b. The Baseline Monitoring Report shall indicate the time, date, and place of sampling and the methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected Pollutant discharges to the POTW.
- c. The General Manager may allow the submission of a Baseline Monitoring Report, which utilizes only historical data so long as the data provides information sufficient to determine the need for industrial pretreatment measures.
- 2. Users described above shall submit the information set forth below.
  - a. Identifying information The name and address of the facility, including the name of the operator and owner.
  - b. Environmental Permits A list of any environmental control permits held by or for the facility.
  - c. Description of Operations A brief description of the nature, average rate of production, and SIC numbers or NAICS numbers of the operation(s) carried out by such User. This description should include a schematic process diagram which indicates points of discharge to the POTW from the regulated processes.
  - d. Flow Measurement Information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from regulated process streams and other streams, as necessary, to allow use of the combined waste stream formula set out in 40 CFR403.6
  - e. Measurement of Pollutants
    - 1. The Categorical Pretreatment Standards applicable to each regulated process.
    - 2. The results of sampling and analysis identifying the nature and concentration, and/or mass, where required by the Categorical Pretreatment Standard or by the General Manager, of the regulated Pollutants in the discharge from each regulated process. Instantaneous, daily maximum, and long-term average concentrations, or mass, where required, shall be reported. The sample shall be representative of daily operations and shall be analyzed in accordance with procedures set out in Section 4.3.0 of this Ordinance.
    - 3. Sampling shall be performed in accordance with procedures set out in Section 4.3.0 of this Ordinance.
  - f. Certification A statement, reviewed by the User's Authorized Representative and certified by a qualified professional, indicating whether Categorical Pretreatment Standards are being met on a consistent basis,

- and, if not, whether additional operation and maintenance (O&M) and/or additional Pretreatment is required to meet the Pretreatment Standards and Pretreatment Requirements.
- g. Compliance Schedule If additional Pretreatment and/or O&M will be required to meet the Pretreatment Standards, the Compliance Schedule is the shortest schedule by which the User will provide such additional Pretreatment and/or O&M. The completion date in this schedule shall not be later than the compliance established for the applicable Pretreatment Standard. A Compliance Schedule pursuant to this section must meet the requirements set out in Section 4.3.B of this Ordinance.
- h. Signature and Certification- All Baseline Monitoring Reports must be signed and certified in accordance with Section 4.1.F of this Ordinance.

## B. <u>Compliance Schedule Progress Reports</u>

The following conditions shall apply to the Compliance Schedule required by Section 4.3.A.2.g of this Ordinance:

- 1. The Compliance Schedule shall contain progress increments in the form of dates for the commencement and completion of major events leading to the construction and operation of additional Pretreatment required for the User to meet the applicable Pretreatment Standards (such events include, but are not limited to, hiring an engineer, completing preliminary and final plans, executing contracts for major components, commencing and completing construction, and beginning and conducting routine operation);
- 2. No increment referred to above shall exceed nine (9) months;
- 3. The User shall submit a progress report to the General Manager no later than fourteen (14) days following each date in the Compliance Schedule and the final date of compliance including, as a minimum, whether or not it complied with the increment of progress, the reason for any delay, and, if appropriate, the steps being taken by the User to return to the established Compliance Schedule; and in no event shall more than nine (9) months elapse between such progress reports to the General Manager.

## C. Reports on Compliance with Categorical Pretreatment Standard Deadline

Within ninety (90) days following the date for final compliance with applicable Categorical Pretreatment Standards, or in case of a New Source following commencement of the introduction of Wastewater into the POTW, any User subject to such Pretreatment Standards and Pretreatment Requirements shall submit to the General Manager a report containing the information described in Section 4.3.A.2 of this Ordinance. For Users subject to equivalent mass or concentration limits established in accordance with the procedures in 40 CFR 403.6, this report shall contain a reasonable measure of the User's long-term production rate. For all other Users subject to Categorical Pretreatment Standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the User's actual production during the appropriate sampling period. All compliance reports must be signed and certified in accordance with Section 4.1.F of this Ordinance.

#### D. Periodic Compliance Reports

- 1. If a Permitted User monitors any Pollutant using the procedures prescribed in Sections B and C of this Section, the results of this monitoring shall, at a frequency determined by the General Manager but in no case less than every six-months (6), be reported. The report shall indicate the nature and concentration of Pollutants in the discharge, which are limited, by Pretreatment Standards and the measured or estimated average and maximum daily flows for the reporting period. All such reports must be signed and certified in accordance with Section 4.1.F of this Ordinance.
- 2. All Pollutant analyses, including sampling techniques, to be submitted as part of a Waste Discharge Application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136, unless otherwise specified in an applicable Categorical Pretreatment Standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, an analysis must be performed in accordance with procedures approved by the US EPA.
- 3. Users must show compliance with Federal, State, and local regulations using appropriate sampling methods, in which data coming from the collection methods are representative of conditions occurring during the reporting period. The User is required to monitor at a frequency allowing for assessment and assurance of full compliance with applicable Pretreatment Standards and Pretreatment Requirements. Twenty-four (24) hour composite samples must be obtained through flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the General Manager. Where time-proportional composite sampling or grab sampling is authorized by the General Manger, the samples must be representative of the discharge. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be composited prior to the analysis as follows: for cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil & grease the samples may be composites in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by the General Manager.

#### E. Reports of Changed Conditions

- 1. Each User must notify the General Manager of any planned significant changes to the User's operations or system, which might alter the nature, quality, or volume of its Wastewater at least thirty (30) days before the change.
- 2. The General Manager may require the User to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a Waste Discharge Application under Section 4.1.E of this Ordinance.
- The General Manager may issue a Waste Discharge Permit under Section 4.2.8 of this Ordinance or modify an existing Waste Discharge Permit under Section 4.2.D

of this Ordinance in response to changed conditions or anticipated changed conditions.

4. For purposes of this section, significant changes include, but are not limited to, flow increases of twenty percent (20%) or greater, and the discharge of any previously unreported Pollutants.

## F. Reports of Potential Problems

- 1. In the case of any discharge, including, but not limited to, accidental discharges, discharges of a non-routine, episodic nature, a non-customary batch discharge, or a Slug, that may cause potential problems for the POTW, the User shall immediately notify the General Manager of the incident. This notification shall include the location of the discharge, type of waste, concentration, and volume, if known, and corrective actions taken by the User.
- Within five (5) days following such discharge, the User shall, unless waived by the General Manger, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability, which may be Incurred as a result of damage to the POTW, natural resources, or any other damage to person or property; nor shall such notification relieve the User of any penalties, or other liabilities, which may be imposed pursuant to this Ordinance.

## G. Reports from Unpermitted Users

All Users not required to obtain a Waste Discharge Permit shall provide appropriate reports to the General Manager as the General Manager may require.

## H. Maintenance Plan

Any User with an Interceptor discharging to the sewer shall complete an approved maintenance plan, which includes but is not limited to:

- 1. Procedures to adequately maintain the Interceptor using a licensed and permitted waste hauler.
- 2. Determination of User staff responsible for maintenance of the Interceptor.
- 3. Procedures for spill response.

#### I. Reports of Sampling Violations/Repeat Sampling

If sampling performed by a User indicates a Violation, the User shall notify the General Manager within twenty-four (24) hours of becoming aware of the Violation. The User shall also repeat the sampling and analysis and submit the results of the repeat analysis to the General Manager within thirty (30) days after becoming aware of the Violation. The User is not required to resample if the District monitors at the User's facility at least once a month, or if the District samples between the User's initial sampling and when the User receives the results of this sampling.

## J. <u>Certification for Non-Significant Categorical Industrial Users</u>

A facility determined to be a Non-Significant Categorical Industrial User by POTW must submit the following certification statement signed and certified in accordance with the signatory requirements in Section 4.1.F as required by 40 CFR403;

manag CFR	d on my inquiry of the person or persons directly responsible for ging compliance with the Categorical Pretreatment Standards under 40, I certify that, to the best of my knowledge and belief that the period from to [months, days, year]:
1.	The facility described as [facility name] met the definition of a Non-Significant Categorical Industrial User as described in Section 2.1.C.42;
2.	The facility complied with all applicable Pretreatment Standards and requirements during this reporting period; and
3.	The facility never discharged more than 100 gallons of total categorical

This compliance certification is based on the following information:

## K. <u>Timing</u>

Written reports will be deemed to have been submitted on the date postmarked. For reports, which are not mailed, postage prepaid, into a mall facility serviced by the United States Postal Service, the date of receipt of the report shall govern.

wastewater on any given day during this reporting period.

#### L. Record Keeping

Users subject to the reporting requirements of this Ordinance shall retain, and make available for inspection and copying, all records of information obtained pursuant to monitoring activities undertaken by the User independent of such requirements. Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or the District, or where the User has been specifically notified of a longer retention period by the General Manager.

## **ARTICLE 5**

WASTE DISCHARGE AUTHORIZATIONS and SPECIAL AGREEMENTS

#### 5.1 GENERAL REQUIREMENTS

## A. <u>Wastewater Information</u>

When requested by the General Manager, a User shall submit information on the nature and characteristics of its Wastewater and other associated and pertinent information within sixty (60) days of the request. The General Manager is authorized to require Users to update this information periodically.

### B. Authorization/Special Agreement Requirement

- 1. No User shall discharge Wastewater into the POTW without first obtaining a determination of need for an Authorization and/or Special Agreement except that a User that has filed a timely application pursuant to Section 5.1.C of this Ordinance may continue to discharge for the time period specified therein.
- 2. Any violation of the terms and conditions of an Authorization/Special Agreement shall be deemed a Violation of this Ordinance and subject the User to the sanctions set out in Article 6 of this Ordinance. Obtaining an Authorization and/or Special Agreement does not relieve the User of its obligation to comply with all Federal and State Pretreatment Standards or Pretreatment Requirements or with any other requirements of Federal, State, and local law.

## C. <u>Issuing Authorizations/Special Agreement: New Connections</u>

Users who propose to begin or restart a discharge to the POTW must apply for an Authorization and/or Special Agreement at least sixty (60) days prior to any discharge.

# D. <u>Issuing Authorizations/Special Agreements: Existing Connections that must meet New Requirements</u>

Any User required to obtain an Authorization and/or Special Agreement due to requirements in this Ordinance who was discharging Wastewater into the POTW prior to the effective date of the requirements and who wishes to continue such discharges in the future, shall, within ninety {90} days after said date, apply for an Authorization and/or Special Agreement in accordance with Section 5.1.E of this Ordinance, and shall not cause or allow discharges to the POTW to continue after one hundred twenty (120) days of the effective date of this Ordinance except in accordance with an Authorization and/or Special Agreement issued by the General Manager.

#### Waste Discharge Application Contents

- 1. All Users required to obtain an Authorization and/or Special Agreement shall submit a Waste Discharge Application. The General Manager may require all Users to submit as part of an application the following information:
  - a. Description of activities, facilities, and plant processes on the premises, including a list of all raw materials and chemicals used or stored at the facility which are or could accidentally or intentionally be discharged to the POTW;
  - b. Number and type of employees, hours of operation, and proposed or actual hours of operation;
  - c. Each product produced by type, amount, process or processes, and rate of production;

- d. Type and amount of raw materials processed (average and maximum per day); quantity, disposition, and method of disposal of specific liquid, sludge, oil, solvent, or other material:
- e. Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation, and all points of discharge; details of Pretreatment Facilities and their operation and maintenance; details of systems to prevent and control the losses of materials through spills to the POTW;
- f. Time and duration of discharges; detailed plumbing plans indicating all sources discharging to the on-site or off-site Sewer Lateral;
- g. Any other information as may be deemed necessary by the General Manager to evaluate the Waste Discharge Application.
- 2. Incomplete or inaccurate applications will not be processed and will be returned to the User for revision.

## F. Signatories and Certification

All Waste Discharge Applications and Reports must be signed by an Authorized Representative of the User and contain the following certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

## G. <u>Authorization/Special Agreement Decisions</u>

The General Manager will evaluate the data furnished by the User and may require additional information. Within thirty (30) days of receipt of a complete Waste Discharge Application, the General Manager will determine whether or not to issue an Authorization and/or Special Agreement. The General Manager may deny any application for an Authorization and/or Special Agreement.

## 5.2 AUTHORIZATION/SPECIAL AGREEMENT ISSUANCE PROCESS

## A. <u>Authorization/Special Agreement Duration</u>

- 1. A Waste Discharge Authorization shall be issued for an indefinite time period, subject to review and reconsideration at the discretion of the General Manager.
- 2. A Special Agreement shall be issued for a specified time period, set forth in the terms of the Special Agreement.

#### B. Authorization/Special Agreement Contents

1. Waste Discharge Authorizations/Special Agreements shall include such conditions as are deemed reasonably necessary by the General Manager to prevent Pass Through or Interference or damage to the POTW, protect the quality of the water body receiving the POTW's effluent, protect public and worker health and safety, facilitate sludge management and disposal as required in 40 CFR 403.8, and protect against damage to the POTW.

Waste Discharge Authorizations/Special Agreements may contain:

- a. Notification and record-keeping requirements;
- b. Requirements for the development and implementation of plans or other special conditions including management practices necessary to adequately prevent accidental, unanticipated, or routine discharges;
- Requirements for the development and implementation of waste minimization plans to reduce the amount of Pollutants discharged to the POTW;
- d. A statement that compliance with the Waste Discharge Authorization/Special Agreement does not relieve the User of responsibility for compliance with all applicable Federal and State Pretreatment Standards.
- e. Other conditions as deemed appropriate by the General Manager to ensure compliance with this Ordinance, and State and Federal laws, rules, and regulations;

## C. <u>Waste Discharge Authorization/Special Agreement Appeals</u>

- 1. Any Person, including the User, may petition the General Manager to reconsider the provisions of a Waste Discharge Authorization/Special Agreement within thirty (30) days of notice of its issuance.
  - a. In its petition, the appealing party shall indicate the Waste Discharge Authorization/Special Agreement provisions objected to, the reasons for objection, and the alternative provisions, if any, it seeks to place in the Waste Discharge Authorization/Special Agreement.
  - b. The effectiveness of the Waste Discharge Authorization/Special Agreement shall not be stayed pending the appeal.
- 2. Failure to submit timely a petition for reconsideration shall be deemed to be a waiver of the administrative appeal.
- 3. If the General Manager fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied.
- 4. Any person, including the User, may petition the Board of Directors to reconsider the decision of the General Manager.
- 5. If the Board of Directors fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied.

Decisions not to issue a Waste Discharge Authorization/Special Agreements, not to reconsider the provisions of a Waste Discharge Authorization/Special Agreements, or not to modify the provisions of a Waste Discharge Authorization/Special Agreements shall be considered final administrative actions for the purposes of judicial review.

6. Any party aggrieved by a final Waste Discharge Authorization/Special Agreement administrative action may obtain review of the action in the superior court by filing in the court a petition for writ of mandate within ninety (90) days following the effective date of the action. If no aggrieved party petitions for writ of mandate within the time provided by this section, a final Waste Discharge Authorization/Special Agreement administrative action shall not be subject to review by any court or agency. The evidence before the court shall consist of the record before the General Manager, and any other relevant evidence which, in the judgment of the court, should be considered to effectuate and implement the policies of this Ordinance. Except as otherwise provided in this section, subdivisions (e) and (f) of Code of Civil Procedure section 1094.5 shall govern proceedings pursuant to this section.

#### D. Waste Discharge Authorization/Special Agreement Revocation

- 1. A Waste Discharge Authorization/Special Agreement may be revoked for good cause including, but not limited to the following reasons:
  - a. Failure to notify the General Manager of significant changes to the Wastewater prior to the changed discharge;
  - b. Misrepresentation or failure to fully disclose all relevant facts in the Waste Discharge Application;
  - c. Refusing to allow the General Manager timely access to the facility premises and records;
  - d. Failure to pay penalties;
  - e. Failure to pay sewer charges;
  - f. Failure to comply with HVLCSD's policies and standards.
  - g. Violation of any terms of the Waste Discharge Authorization/Special Agreement or this Ordinance.
- 2. Waste Discharge Authorizations and Special Agreements shall be voidable upon cessation of operations.
- A determination may be made to issue a Waste Discharge Permit in the event the Waste Discharge Authorization or Special Agreement is revoked for good cause, including but not limited to all of the above.
- 4. A Waste Discharge Authorization or Special Agreement is void when a new Waste Discharge Permit, Waste Discharge Authorization, or Special Agreement to that User becomes effective.

5. Waste Discharge Authorization or Special Agreement revocation is subject to appeal as set forth in Section 6.4.

#### 5.3 REPORTING REQUIREMENTS

## A. <u>Plan Requirements</u>

- 1. Any User with an Interceptor discharging to the sewer shall have on file an approved maintenance plan which includes but is not limited to:
  - a. Procedures to adequately maintain the Gravity Interceptor using a licensed and permitted waste hauler;
  - b. Determination of User staff responsible for maintenance of the Gravity Interceptor;
  - c. Procedures for spill response.
- 2. Users with potential impact to the POTW shall have on file an approved management plan.

#### B. <u>Timing</u>

Written reports will be deemed to have been submitted on the date postmarked. For reports, which are not mailed, postage prepaid, into a mail facility serviced by the United States Postal Service, the date of receipt of the report shall govern.

## C. Record Keeping

Users subject to the reporting requirements of this Ordinance shall retain, and make available for inspection and copying, all records of information obtained pursuant to monitoring activities undertaken by the User independent of such requirements. Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or the District, or where the User has been specifically notified of a longer retention period by the General Manager.

#### ARTICLE 6

#### **ENFORCEMENT**

## 6.1 ENFORCEMENT ACTIONS

Notice of Violations shall be issued by the General Manager or his designee. All other enforcement actions shall be issued by the General Manager or management at a higher level (e.g., Environmental and Regulatory Compliance Department Director). The District, at its

discretion, may utilize any one, combination of, or all enforcement remedies provided in Article 6 in response to any Violation.

#### A. Notice of Violation

When a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization, or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the Source Control Manager or his designee may issue a written Notice of Violation.

#### B. Administrative Orders

#### CONSENT ORDERS

The General Manager may enter into Consent Orders, assurances of compliance, or other documents establishing an agreement with any User responsible for noncompliance. Such documents shall include specific action(s) to be taken by the User to correct the noncompliance within a time period specified by the document. Such documents shall have the same force and effect as Compliance Orders and shall be judicially enforceable.

#### 2. COMPLIANCE ORDERS

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the General Manager may issue a Compliance Order to the User responsible for the discharge directing that the User come into compliance within a specified time. A Compliance Order shall include specific action(s) to be taken by the User to correct the noncompliance within a time period specified by the Compliance Order. A Compliance Order shall be judicially enforceable. If the User does not come into compliance within the time provided, sewer service may be discontinued unless required Pretreatment Facilities, devices, or other related appurtenances are installed and properly operated. A Compliance Order also may contain other requirements to address the noncompliance, including additional self-monitoring and management practices designed to minimize the amount of Pollutants discharged to the sewer. A Compliance Order may not extend the deadline for compliance established for a Pretreatment Standard or Pretreatment Requirement, nor does a Compliance Order relieve the User of liability for any Violation, including any continuing Violation.

#### SHOW CAUSE ORDERS

The General Manager may issue a Show Cause Order directing a User which has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement to appear before a Hearing Officer and show cause why the proposed enforcement action(s) should not be taken. Notice shall be served on the User specifying the time and place for the hearing, the proposed enforcement action(s), the reasons for the action(s) and an order that the User show cause why the proposed enforcement should not be taken. The notice of the hearing shall be served personally or by registered or certified mail (return receipt

requested) at least fifteen (15) days prior to the hearing. Such notice may be served on any Authorized Representative of the User.

#### C. <u>Emergency Suspensions</u>

The General Manager may suspend immediately a User's discharge, without prior notice to the User, whenever such suspension is necessary to stop an actual or threatened discharge which reasonably appears to present an imminent or substantial danger to the health or welfare of Persons or to the environment, or which reasonably appears to present an imminent or substantial interference with the POTW, or which reasonably may cause the District to violate any condition of its NPDES permit.

Any User notified of an emergency suspension of its discharge shall immediately stop or eliminate its discharge. In the event of a User's failure to immediately comply voluntarily with the emergency suspension order, the General Manager may take such steps as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW or its collection system, or endangerment to any Persons or to the environment. The General Manager may allow the User to recommence its discharge when the User has demonstrated that the period of endangerment has passed, unless the termination proceedings in Sections 6.1.E or Section 6.1.F of this Ordinance are initiated against the User.

Nothing in this Section shall be interpreted as requiring a hearing prior to any Emergency Suspension under this Section.

#### D. <u>Permit/Authorization/Special Agreement Termination</u>

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the General Manager may terminate the Waste Discharge Permit, Waste Discharge Authorization, or Special Agreement of said User.

#### E. Termination of Wastewater Service

In addition to the provisions for Emergency Suspensions, the General Manager may order any User who has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement to cease immediately discharge of wastewater to the POTW, and may suspend Wastewater disposal and treatment service for such User in order to stop an actual or threatened discharge which presents or may present an imminent or substantial danger to the health or welfare of Persons or to the environment, or which presents or may present an imminent or substantial interference with the POTW, or which causes or may cause the District to violate any condition of its NPDES permit, or if the User has failed to obtain a valid Waste Discharge Permit. If the User fails to comply voluntarily with the termination order, the District will take such steps as deemed necessary, including immediate severance of the Sewer Lateral connection, to give effect to the termination order. All costs for terminating service shall be paid by the User.

Such User shall be notified of the proposed termination of its discharge service and offered an opportunity to show cause under Section 6.1.8.3 of this Ordinance why the proposed action(s) should not be taken.

#### F. Termination of Water Service

When a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, water service to the User may be terminated. Water service shall only recommence after the User has demonstrated satisfactorily its ability to comply. All costs for terminating water service shall be paid by the User. All costs for reestablishing water service shall be paid by the User.

Such User shall be notified of the proposed termination of its water service and offered an opportunity to show cause under Section 6.1.8.3 of this Ordinance why the proposed action(s) should not be taken.

#### G. <u>Administrative Penalties</u>

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the Source Control Manager may impose an administrative penalty on such User, as provided in Section 54740.5 of the Government Code, in an amount determined in accordance with Resolution 2963 as amended. Administrative penalties shall be assessed on a per-Violation, per-day basis. In the case of monthly or other long-term average discharge limits, administrative penalties shall be assessed for each day during the period of Violation. Unpaid charges and administrative penalties shall, after 30 calendar days, be assessed an additional penalty in accordance with Resolution 2963 as amended, and interest shall accrue thereafter in accordance with Resolution 1643 as amended. A lien against the User's property may be sought for unpaid charges and administrative penalties.

#### H. <u>Injunctive Relief</u>

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Requirement, the District may petition the Superior Court of the County of Riverside for the issuance of a temporary restraining order, preliminary injunction, and/or permanent injunction, as appropriate, to enjoin or compel the specific performance of the activities of the User causing such violation. The District may also seek such other action as appropriate for legal and/or equitable relief, including a requirement for the User to conduct environmental remediation.

#### I. Civil Liability

The General Manager may utilize the procedures and seek civil penalties, payment of excess costs, and imposition of a lien upon User's real property, as provided in Sections 54739, 54740, 54740.5, and 54740.6 of the Government Code, as may be amended from time to time, for violations of any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement.

#### J. Criminal Penalties

Any User who willfully or knowingly violates any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, shall, upon conviction, be guilty of an infraction punishable by a fine not to exceed fifty dollars (\$50) for a first conviction, one hundred dollars (\$100) for a second conviction within a period of one (1) year, and two hundred fifty dollars (\$250) for a third or any subsequent conviction within a period of one (1) year. Each violation and each day in which a violation occurs shall constitute a separate violation and shall be subject to the penalties contained herein.

#### 6.2 PUBLISHED NOTICES FOR SIGNIFICANT NON-COMPLIANCE

In accordance with 40 CFR 403.8, the District shall at least annually cause to be published the names of all Users which, at any time during the previous twelve (12) months, were in Significant Non-Compliance. Publication shall be made in a newspaper of general circulation that provides meaningful public notice in the District's service area.

#### 6.3 REMEDIES NON-EXCLUSIVE

The enforcement remedies for this Ordinance are nonexclusive. The General Manager may take any, all, or any combination of these remedies against a noncompliant User. The General Manager may take more than one (1) enforcement action against any noncompliant User, and no enforcement action shall be deemed a prohibition or a prerequisite for taking any other enforcement action(s) against the User. Enforcement of violations will generally be in accordance with the District's Enforcement Response Plan, however, the Source Control Manager may take alternative actions against a User when the circumstances warrant.

#### 6.4 APPEALS

- A. Either the District or any User affected by and dissatisfied with any decision, order, or enforcement action made by the General Manager or a Hearing Officer interpreting or implementing the provisions of this Ordinance or any Waste Discharge Permit, Waste Discharge Authorization, or Special Agreement may file with the General Manager or Hearing Officer a written appeal requesting reconsideration of such decision, order, or enforcement action within thirty (30) calendar days from the receipt of the notice of such decision, order, or enforcement action. The party requesting reconsideration shall state in detail the facts supporting the request for reconsideration. The General Manager or Hearing Officer shall render a ruling on the request for reconsideration, in writing, within ten (10) calendar days from receipt of the request. Submission of such a request for reconsideration in no way relieves the User of liability for any Violations occurring before or after receipt of the decision, order, or enforcement action, nor stays the requirements of achieving or maintaining compliance.
- B. If the ruling on the request for reconsideration made by the General Manager or Hearing Officer is unsatisfactory to the District or to the User, either party may, within thirty (30) calendar days after receipt of notice of the General Manager's or Hearing Officer's ruling, file a written appeal with the General Manager. The written appeal shall be heard by the General Manager within thirty (30) calendar days from the date of filing. The General Manager shall make a ruling on the appeal within thirty (30) calendar days from the date of the hearing.
- C. If the ruling on the appeal made by the General Manager is unsatisfactory to the District or to the User, either party may, within thirty (30) calendar days after receipt of notice of

the General Manager's ruling, file a written appeal with the District's Board, lodging such appeal with the Secretary of the Board. The written appeal shall be heard by the Board within thirty (30) calendar days from the date of filing. The Board shall make a ruling on the appeal within thirty (30) calendar days from the date of the hearing, and shall give notice to the User that the time within which judicial review must be sought is governed by Code of Civil Procedure section 1094.6.

D. The Board's final ruling shall be deemed a final decision, order, or enforcement action by the District which any Person adversely affected by such decision, order, or enforcement action may

appeal to the appropriate court in the County of Riverside. No Person may obtain judicial review of any decision, order, or enforcement action by the District under this Ordinance without first having exhausted all administrative remedies set forth in this Section.

ARTICLE 7

**SEVERABILITY** 

#### 7.1 SEVERABILITY

If any provision of this Ordinance or the application to any person or circumstances is held invalid, the remainder of the Ordinance or the application of such provision to other persons or other circumstances shall not be affected.

**ARTICLE 8** 

**REPEAL** 

8.1 REPEAL

**ARTICLE 9** 

**EFFECTIVE DATE** 

9.1

**EFFECTIVE DATE** 

The effective date of this Ordinance shall be May 17, 2018.

#### **RESOLUTION 2018-02**

# RESOLUTION AUTHORIZING THE HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT TO ADOPT "ENGINEERING STANDARD SPECIFICATIONS AND DRAWINGS" AS DEVELOPED BY EASTERN MUNICIPAL WATER DISTRICT

WHEREAS, the Hidden Valley Lake Community Services District (District) provides and maintains wastewater collection and treatment services to a majority of its customers; and

WHEREAS, The District remains dedicated to its mission to provide, maintain and protect our community's water; and

WHEREAS, the well-established standard for wastewater construction and improvements developed by Eastern Municipal Water District provides a model for compliance applicable to the District;

NOW, THEREFORE, BE IT RESOLVED that the Hidden Valley Lake Community Services District Board of Directors authorizes the adoption of "Engineering Standard Specifications and Drawings" as its own standard, to which any new construction or improvements must comply.

AVES: Directors Graham Herndon Freeman Mirhegian and Lieberman

**PASSED AND ADOPTED** on April 17, 2018 by the following vote:

ATEO. Directors Granam, Hernach, Freen	nan, mir begian, and Eleberman
NOES:	
ABSTAIN:	
ABSENT:	
	ATTEST:
Carolyn Graham	Kirk Cloyd
President of the Board of Directors	Secretary to the Board of Directors

Update Log for Sewer							
Rev Date	Rev Date Item(s) Changed						
10/1/2007	Update/Format EMWD Guidelines for Sewer Systems Plans	All pages					
10/1/2007	Added Authorization Form	16					
10/1/2007	Added 4th sentence on section J. Sewer Laterals.	5					
8/14/2008	Drawing Revision SB-179	SB-179					
4/14/2010	Added "or 811" Section O, item No. 3	6					
4/14/2010	Deleted "SB-56" on Section P, item No. 4	7					
4/14/2010	Drawing Revision from SB-49-2 to SB-49-3	SB-49					
9/2/2010	Deleted "SB-56" & "SB 57"	SB-56&57					
11/16/2012	Updated Stagecoach Dr.	11					
11/16/2012	Updated GL Profile	12					
11/16/2012	Updated Index Map	13					
4/24/2013	Drawing Revision SB-157	SB-157					
4/24/2013	Drawing Revision SB-159	SB-159					
3/27/2018	Drawing Revision SB-70	SB-70					
3/27/2018	Drawing Revision SB-75	SB-75					
6/29/2015	Drawing Revision SB-177	SB-177					

### **EMWD GUIDELINES FOR SEWER SYSTEM PLAN**

This plan check list is a general guide to assist Consulting Engineers in the design and drafting of sewer plans. Contact our Engineering Department concerning any exceptions in order to prevent unnecessary plan revision. Please note that if both water and sewer are required, both are to be delineated on one set of 24" x 36" drawings. Engineer is to provide:

- 1. Approved plan of service summary spreadsheet.
- 2. Print of the record map (2 each). Note: If landbase is on a computer system, refer to specification for digital submission of plans.
- 3. Street improvements plans and grading plans (print 1 set-each).
- Conditions of approval (1 copy).
- 5. Sewer improvement plans prepared by registered engineer (2 sets).
- 6. Copy of index map sheet with initial submittal.
- 7. 11" x 17" copy of index map sheet with submittal of final mylars.
- 8. Cover letter signed with plan check list by registered civil engineers. (See pages 14 & 15).
- 9. Plan check fee deposits.
- 10. Authorization for overtime forms if applicable (See page 16).

#### A. Title or Cover Sheet

- Index map that shows all sewer system facilities and any water system. (See page 13). Do not show storm drain facilities as part of the index map. Index map can be shown on sheet 2 if it will not fit on title sheet.
  - a. Piping system; size and type. (See paragraph B.7, page 3).
  - Manholes, temporary cleanouts, end plugs and backwater valves.
  - Existing sewer must be shown dashed with corresponding EMWD drawing number.
  - d. Sewer dashed and labeled "proposed per Tract No.\_\_\_\_\_\_" If planned or constructed by other projects but not yet accepted by EMWD.
  - e. Sheet number references to plan-profile drawings.

- f. Laterals schematically showing approximate location on lot frontage and to line it are connected.
- g. Tie to existing cross street with distance.
- 2. General Notes and Requirements County/City required notes only. (Do not include notes that conflict with EMWD required notes).
- 3. Estimate of Quantities; items such as pipe, pipe laterals, manholes and cleanouts.
- 4. Notifications See attached page 5.
- 5. EMWD Sewer Notes See attached pages 6, 7 and 8.
- 6. Sewer Certification (tracts & parcel maps) See attached page 7.
- 7. Time Limitation See attached page 8.
- 8. Typical Lot See attached page 9.
- 9. Sewer Legend See attached page 9 (on sheet with index map).
- 10. EMWD Approval Block/Title Block See attached page 10.
- 11. Minimum letter heights 0.08" (all sheets).
- 12. List of Implementing Facilities (on sheet with index map).
- 13. Project Vicinity Map (on sheet with index map).
- 14. Manholes, cleanout, etc. should be at a **large enough scale** so as to be clear and obvious.

#### B. Sewer Plan and Profile

- 1. Plan and Profile Example See attached pages 11 and 12.
- 2. Stationing shall correspond with street centerline.
- 3. Pipe Size Diameter in inches.
- 4. M.H. Location 6' north or east of the centerline of street.
- 5. Pipe Depth Minimum 7.5' cover over the top of pipe, drawn to scale in profile.
- 6. Scale & North Arrow Pipe slopes and F.L. (flow line) elevations at all manholes to be shown in profile. Minimum slopes are as follows: Laterals: 4" & 6" .0200; Main Lines: 8" .0040, 10" .0032, 12" .0024, 15" .0016 18" .0014, 21" .0012, 24" .0010 for minimum accepted velocities of 2 f.p.s. at design flow depths of ½ full of 12" and less diameter, and ¾ full for 15" and larger diameter. Maximum slopes are as follows: 8" .1200, 10" .0850, 12" .0660, 15" .0500, 18" .0370, 21" .0300, 24" .0250.

Slopes shall be shown in decimal form, not as a percentage. The recommended velocity at design flow is 3 fps. Sewer lines of different sizes connecting to the same manhole shall match soffits (top of pipes) at the center of the manhole. See note 11 sheet 3. Upsizing sewer size to obtain a flatter slope will not be allowed.

#### 7. Pipe Type

- a. <u>Force Main</u> shall be AWWA C-900, class 150 pipe, unless otherwise stated or approved by the District.
- b. Gravity Sewer shall be EMWD approved plastic or VCP pipe.
- c. <u>Gravity Sewer</u> VCP is required when:
  - 1. Serving industrial development.
  - 2. On curved alignments (12" and above).
  - 3. Sizes larger than 15" (unless otherwise approved by the District)
  - 4. When pipe type is not dictated by above requirements, no pipe type shall be indicated on plan or profile.
- d. <u>Gravity Sewer</u> When VCP is required, it shall be indicated on plan and profile.
- e. <u>Gravity Sewer</u> Where existing grade goes cut to fill, use short joints 2.5' max., 10' each side for VCP pipe. Use flex couplings for plastic pipe. Note to be labeled on profile if applicable.
- 8. Special bedding for sewer pipe: Refer to standard drawings SB-157, SB-158 and SB-159 for specific type of bedding.
- 9. 10' horizontal clearance required between water and sewer mains (edge to edge; 8' horizontal clearance required between edge of sewer main and curb face).
- 10. Sewer main pipeline crossing under water pipelines must have 1' of vertical clearance between top of sewer main and bottom of water pipe; otherwise, special conditions will be required per California Department of Health Services requirements. Give crossing elevations (top of sewer, bottom of water).

When there is no alternative except for sewer to go <u>over</u> water, special conditions will be required per California Department of Health Services requirements.

#### 11. Scale & North Arrow:

All sheets to have same scale: Horizontal @ 1" = 40' to have Vertical @ 1" = 4'; Horizontal @ 1" = 50' to have Vertical @ 1" = 5'; exceptions must have EMWD approval prior to submission of plans for review. Vertical scale 1"= 8' is not acceptable. North arrow pointing down is not acceptable.

- C. <u>Manholes</u> The manholes shall be stationed, numbered and shown in the plan and profile. Terminus manholes are required at permanent ends of sewer mains. Number manholes starting with No. 1.
- D. <u>Shallow Manholes</u>- Required for all manholes of depths less than 5' from finished street grade to sewer pipe shelf.
- E. <u>Manhole Spacing</u> The maximum distance between manholes on tangent sections is 500'. Manholes are required at beginning and end of curves.
- F. Horizontal Curves The minimum radius is 144' for VCP (4" to 12", 6' length), 200' for 8" PVC and 250' for 10" PVC. For radius equal to or greater than 500', maximum manhole spacing is 450'; for radius less than 500', maximum manhole spacing is 150'. Reverse curves and/or combination curve/tangent are not allowed between manholes.
- G. Mainline Cleanouts The use of a temporary cleanout is permitted in lieu of a manhole at the end of a sewer main with a length of 150' or less and is to be extended in the future. Cleanout or stub shall extend 10' or the depth (whichever is greater) past the tract boundary. Temporary end of a sewer line that exceeds 150' will require a manhole.
- H. <u>Lateral Cleanouts</u> Cleanouts shall be placed on each lateral just inside of the property line or edge of easement per SB-52.
- I. <u>Utility Crossings</u> Show a caution note designating type, size and stationing of the utility line wherever it crosses a sewer main or lateral. In note, also include top or bottom edge elevation of utility line and sewer main/lateral at minimum vertical crossing point. Where a minimum crossing separation is obtained, label on profile between utilities "C.D.F. per EMWD specs."
- J. <u>Sewer Laterals</u> Show all sewer laterals on the plan and on the index map. Locate laterals to miss driveways. Design lateral grades, per SB-177, to accommodate water system construction. Maximum number of laterals into terminus manhole not to exceed four. The maximum length of laterals shall be 55 feet from lateral cleanouts (see sub-paragraph H) to centerline of manhole or pipeline connection.
- K. <u>Backwater Valves</u> Section 710.1 of the Uniform Plumbing Code states that "...Fixtures which have flood level rims located below the elevation of the next upstream manhole cover...shall be protected...by installing an approved type backwater valve." EMWD will require lots with pad elevation below the elevation of the next upstream manhole cover to have a

backwater valve. Show the backwater valve symbol on each protected lot in the plan view and on index map.

- L. <u>Pad Elevations</u> Show the pad elevation of each lot on plan view. Any revisions to the grading plans should be reflected on the sewer plans.
- M. <u>Easements</u> Sewers to be located in easements will not be allowed except upon approval by the EMWD Engineering Department. Provide easement description and plats where required, with widths typically twice the depth; rounded up to the nearest 10' increment; 20' minimum. Show and label easements on the index map and plan view of improvement plans. Provide ingress and egress to all manholes or a 75 foot diameter turn around if egress is not provided. Sewers are to be in the center of the easement unless otherwise directed. For commercial and industrial projects, easement must be recorded before approval of plans. For residential projects easement documents must be submitted before approval of plans.

#### N. <u>Index to Commonly Used Sewer Standard Drawings</u>

SA-47	Paving Detail Around Manholes
<b>SA-7</b> 9	Connecting Dissimilar Sewer Pipes
SA-87	Sewer Chimney Lateral
SB-8	Locking Manhole Cover & Frame
SB-30	Shallow Manhole
SB-49	Pipe Casing
SB-52	Sewer Cleanout (mainline & on-site)
SB-52A	Sewer Tree Laterals & Cleanouts
SB-53	Manhole (reinforced concrete)
SB-54	Manhole Flat Top
SB-57	Non-Manhole Flat Top
SB-58	Terminus Manhole
SB-61	Manhole Frame and Cover
SB-63	Sewer Connection at Concrete Encasement
SB-70	Grease Interceptor
SB-73	Precast Manhole (reinforced concrete)
SB-75	Oil Interceptor
SB-157	Pipe Zone Bedding for Sewer Pipe
SB-158	Trench Backfill for Sewer Pipe
SB-159	Classification of Pipe Zone Bedding for Sewer Pipe
SB-176	Sewer Lateral Connections
SB-177	Sewer Laterals
SB-179	Manhole Installation for HDPE Sewer Main

#### O. **Notifications** – Engineering Shall include the following notes:

At least 48 hours prior to commencing construction, contractor shall notify:

- Eastern Municipal Water District, Field Engineering Department, (951) 928-3777, ext 4830
- 2. Permit Agency (Engineering to select agency).
  - a. Riverside County Road Department (951) 955-6885
  - b. City of Hemet (951) 765-2360
  - c. City of San Jacinto (951) 654-7337
  - d. City of Moreno Valley (951) 413-3350
  - e. City of Temecula (951) 694-6400
  - f. City of Perris (951) 943-5003
  - g. City of Murrieta (951) 698-1040
- 3. Underground Service Alert (USA) 1- (800) 227-2600 or 811
- 4. All other affected agencies that are not members of USA. (Engineer to provide names and phone numbers of agencies).
- P. <u>EMWD Sewer Notes</u> Use only those notes and standards determined appropriate by EMWD. Detailed Requirements: (List on front sheet of construction plans. This may or may not be the Sewer Line Layout for Subdivision Improvements. List only those notes that are applicable to the project),
  - 1. Sewer system construction and materials shall be in accordance with EMWD's standards and specifications.
  - 2. Gravity sewer profile elevations are to flow line (conduit invert). Force Main profile elevations are to centigrade (C.G.).
  - 3. Contractor has the option to install plastic or VCP sewers except where specifically designated on plans per EMWD standards and specifications.

- 4. Manholes shall be constructed in accordance with standard drawings SB-53, SB-58 and SB-61, as applicable. Sewer mains may be laid through the manholes and used as a form for the invert.
- 5. Manholes of depths less than five feet from finish street grade to sewer pipe shelf are to be constructed in accordance with standard drawing SB-30.
- All laterals shall have an on-site cleanout in accordance with standard drawings SB-52. In addition, for laterals serving industrial and/or commercial developments, the requirements for sampling and/or pretreatment facilities shall be determined by contacting EMWD's Source Control Division at (951) 928-3777, ext. 6203.
- 7. Mainline cleanouts, where called for on the plans, shall be constructed in accordance with standard drawing SB-52.
- Prior to construction of sewer, contractor shall expose existing sewer and verify its existing elevation and location. Where connecting to existing manholes and inlet stub of proper size exists, no alterations shall be made to existing manhole base or stub except as specifically authorized by EMWD.
- All sewer inlets at the manhole shall be such that its crown shall be level with the crown of the outlet pipe, at their projections to the manhole centerline.
- 10. Reconstruction of existing manholes shall be scheduled at the convenience of EMWD and shall be completed within five working days following its commencement.
- 11. Sewer laterals shall be constructed in accordance with SB-177. Locations of wyes and laterals, where not shown on the plans, are to be determined in the field prior to construction to miss driveways. All laterals are to be 4" in diameter unless otherwise shown on plans. Connections of new laterals to existing sewer are to be per standard drawing SB-176.
- 12. The contractor is advised that the work on this project may involve working in a confined air space. Contractor shall be responsible for "confined air space" Article 108, Title 8, California Administrative Code.
- 13. Where groundwater is encountered, all VCP pipe shall be treated for absorption resistance per EMWD's specifications.
- 14. Backwater valves shall be installed per Section 710.1 of the Uniform Plumbing Code.
- 15. All pipe zone bedding & trench backfill are to be per standard drawing SB-157, SB-158 and SB-159.

List other specific requirements as appropriate.

#### Q. Sewer Certification

I certify that the design of the sewer system in Tract No. \_\_\_\_\_ is in accordance with the Eastern Municipal Water District's Sewer System Master Plan, and the District has programmed adequate capacity to treat wastes from the proposed tract.

#### **EASTERN MUNICIPAL WATER DISTRICT**

By:

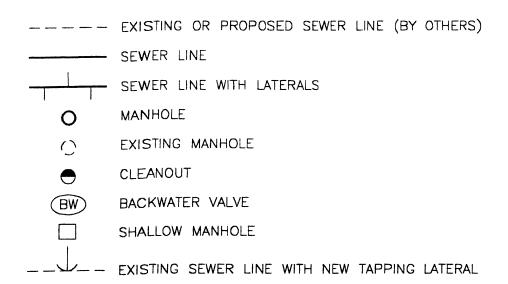
Civil Engineer of Subdivisions

Date

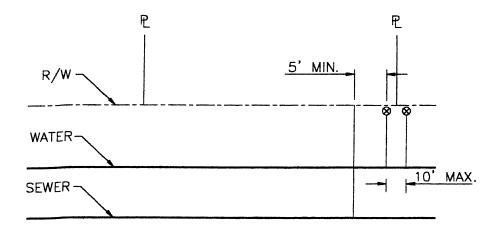
#### R. <u>Time Limitation</u>

The time limit on drawing approval shall be six (6) months from the date on the certification. If construction has not commenced within stated time, EMWD requires drawings to be reviewed by the Developer/Design Engineer and resubmitted to EMWD for possible changes in Master Planned sizing and changes in specifications and standards.

## SEWER LEGEND (USE APPROPIATE SYMBOLS)



## TYPICAL LOT EXAMPLE



TYPICAL LOT

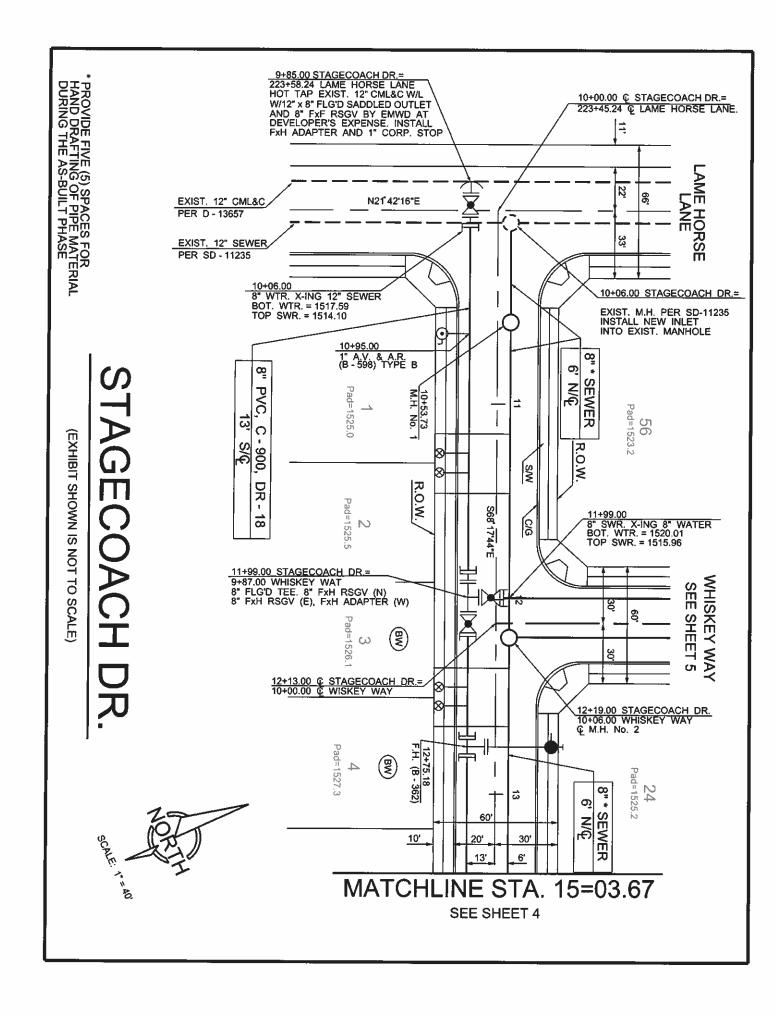
### NOTE: PLEASE MAKE BLOCKS LARGE ENOUGH THAT THE APPROPRIATE INFORMATION WILL FIT WHEN FILLED IN

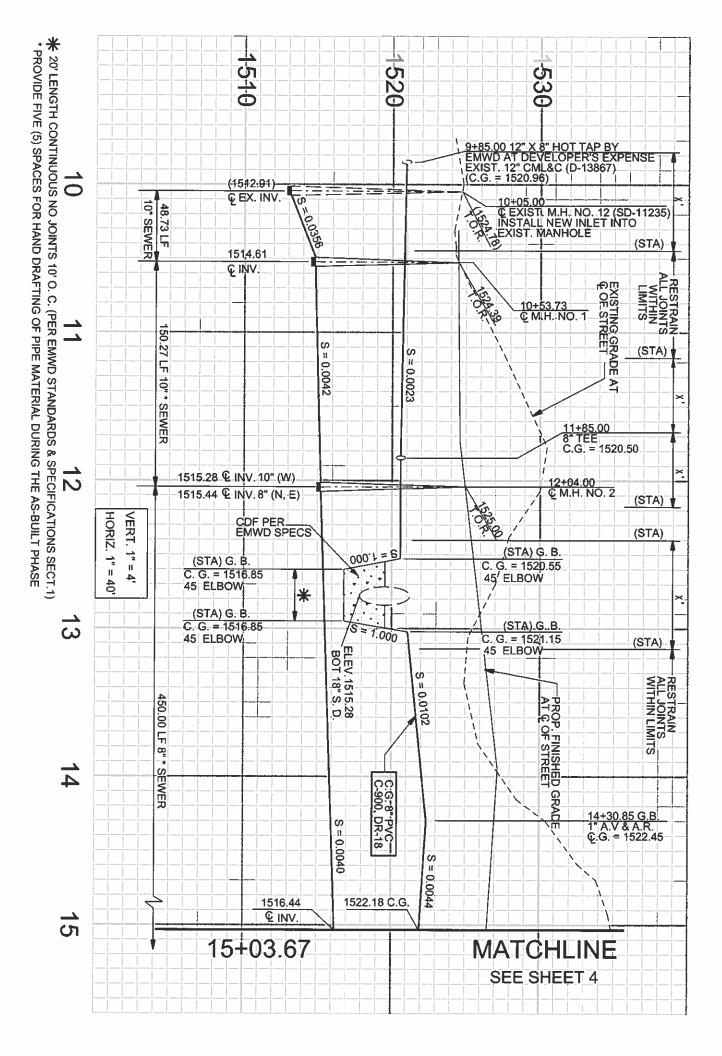
COUNTY (CITY) OF "Y"	1.0.
COUNTY (CITY) OF "X"	S.A.
TDAOT NO "V"	W.O.
TRACT NO. "X"	C.0
SEWER, WATER, & RECLAIMED WATER PLAN AND PROFILE	COORD.
TITLE SHEET (OR)	SHT. OF
INDEX MAP (OR)	
"STREET NAME"	D-

# TITLE BLOCK

WATER / SEWE EASTERN ML	ER / RECLAIMED WA INICIPAL WA		
CIVIL ENGINEER OF	SNOISIAIDARS		DATE
		INITIAL	DATE
	PROJECT ENG.		
LAPPROVALS	INSPECTION	G27.5	
,,,,	WTR. OPERATIONS		
	SWR. OPERATIONS		

APPROVAL BLOCK





#### **EXAMPLE OF INDEX MAP** WITH CALL OUTS AND SYMBOLS LEGIBLE (EXHIBIT SHOWN IS NOT TO SCALE) (BW) 182 8" PVC WATER 178 192 185 ®W (BW) 181 M.H.#8 191 8" \* SEWER 186 ®W M.H.#13 180 190 M.H.#1 8" \* SEWER 187 M.H.#7 F.H. 188 8" PVC WATER EX. F.H. 189 SHEET M.H.#12 F.H. WINTERBRANCH 157 4 S 5 15 14 13 CIRCLE 16 M.H.#20 PAINBOW FOREST CIRCLE 11 6 EX. 12" WATER PER D-13116 20 19 SHEET 10 8" PVC WATER 23 193 **INDEX MAP** SCALE 1" = 100' STA. 10+00.00 HOT TAP EXIST. 12" PVC W/L W/12" X 8" SADDLED OUTLET CONN. W/ 8" FXF RSGV BY EMWD AT DEV. EXPENSE INSTALL 8" FXH ADAPTER, 1" CORP STOP RESTRAIN JOINTS PER B-663 EX. F.H. (MINIMUM SCALE 1" = 100') \* PROVIDE FIVE (5) SPACES FOR HAND DRAFTING OF PIPE MATERIAL'S DURING THE AS-BUILT PHASE

Date:			
Eastern Muni P.O. Box 830 2270 Trumble Perris, CA 9	e Road		
Attention:	Engineering Department		
Subject:	Initial Water and Sewer Plans Submittal		
submitted for	ne water and/or sewer plans prepared on plan check using the Eastern Municipal Water Dis of the attached checklist. The plans are complete and n	trict water a	and sewer
We are provi	ding you with the following:	Yes	N/A
2 sets of the	water and/or sewer plans		
1 set of gradi	ng plans		
1 set of stree	t plans		
1 print of the	record map		
1 set of condi	tions of approval, including fire flow requirements		
Sincerely,			
	, Registered Civil Engineer		

## **Plan Check Checklist**

Title Sheet		
Water/Sewer Notes Time Limitation Notifications Certification Engineer's Stamp & Signature Typical Lot  Index Map		Easements, ROW Info. Offsets Stationing, Matchlines, CL Equations Pipe Slopes Notation, Labeling, Pipe Types Services/Laterals EMWD Symbology Existing Finish Surface Force Account 'Work'
Scale, North Arrow, Sheet Ref.		
Vicinity Map		<u>Water</u>
Implementing Facilities		Valving
Quantities		Air Valves, Blow-offs, Fire Hydrants
Legend		Joint Restrained Limits (on profile)
Street Names, Lot Numbers		Grade Breaks/Deflection Angles
Services, Laterals, Appurtenances		Backflow Devices (if required)
Backwater Valves/Prs. Regulator Check		High Deflection Coupling (if required)
Distance to Existing Cross Street		•
Water & Sewer Facilities		<u>Sewer</u>
Force Account 'Work'		
Pressure Zone		Manhole Spacing
		Manhole Inverts (match soffits), Rim El.
Plan & Profile		Manhole Numbering
(Water & Sewer)		Lateral Clearances
Scale, North Arrow, Sheet Ref.		Special Bedding
(No 1" = 8' vertical scale allowed.)		Backwater Valves (BW)
Utility Crossing Data		Cut-to-Fill Note
Curve Data, Bearings, Tables	D==:=	at.
Existing/Future Utility Reference	Proje	
	Date:	
	Engir	ICCI.

## EASTERN MUNICIPAL WATER DISTRICT

# OVERTIME AUTHORIZATION FORM DEVELOPMENT PROJECT

Date:_				
I autho	rize EMWD's project enginee	er to wor	k overtime to complete:	
	Plan of Service		Plan Check	
For the	e following project:			
of othe	rstand that this authorization or projects already assigned to completed in a specific amou	o the pro	ject engineer or that the Plar	
Develo Name: Title: Compa			-	
cc: Fin	ance Dept			

# **Attachments**

		DATE	01/30/2007		SHEET NO	1 OF 4
EASTERNMUNICIPAL PROJECT SEWER				UIDELINE FOR MANH	OLE SIZING	
WATER DI		WO/CO	ACCT NO			
AFTED BY	FB			REVIEWED BY	SEVERINO MENDOZ	ZA

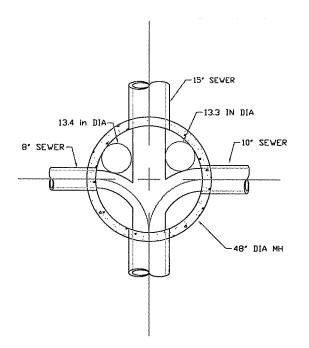
#### **GENERAL NOTES:**

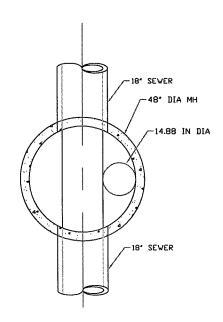
1. THE MINIMUM MANHOLE DIAMETER SHALL BE 48" PER SB-53.

SEWER MAIN (inches)	MAXIMUM BRANCH SIZE (inches)	MH SIZE (inches)	CLEAR OPENING (inches)
8 - 15	10	48	24
18	*NO BRANCH	48	24
18 - 33	12	60	GREATER THAN 24 USE 36
. 36	*NO BRANCH	60	36
36	15	72	36
42	*NO BRANCH	72	36
* UNLESS OTH	ERWISE APPROVED BY	EMWD ENGINEER	

- 2. FOR SEWER MAINS GREATER THAN 42" IN DIAMETER OR WITH A DEPTH THAT EXCEED 25 FEET IN DEPTH, SPECIAL DESIGN AND STRUCTURAL DETAILS FOR THE MANHOLES SHALL BE SHOWN ON THE PLANS.
- 3. STANDARD DRAWINGS:
  - a. SB-53 PRECAST REINFORCED CONCRETE STANDARD 48" & 60" I.D. MH
  - b. SB-54 PRECAST REINFORCED CONCRETE 60" & 72" ID FLAT TOP MH
- 4. T-LOCK LINED MANHOLES
  - a. IF THE SEWER HAS A SLOPE OF 7% OR GREATER, ALL THE MANHOLES WILL BE LINED WITH T-LOCK.
  - b. WHERE THERE IS A CHANGE IN SLOPE, FROM STEEP TO FLAT IN THE DIRECTION OF FLOW, OF 5% OR GREATER, THE MANHOLE AT THE GRADE CHANGE AND THE NEXT MANHOLE UPSTREAM WILL BE LINED WITH T-LOCK.
  - c. AS REQUIRED, FORCE MAIN TERMINAL MANHOLES WILL BE LINED WITH T-LOCK.
  - d. PREMOLDED PLASTIC SHEET LININGS SHALL BE AMER-PLATE "T-LOCK", NOT LESS THAN 0.065 INCH THICK, AS MANUFACTURED BY AMERON, CORROSION CONTROL DIVISION, BREA, CALIFORNIA, OR APPROVED EQUAL. WELDING STRIP SHALL BE AMER-PLATE "T-LOCK" WELDING STRIP OR APPROVED EQUAL PER SECTION 06400 PLASTIC LINING FOR CONCRETE STRUCTURES.
  - e. TYPICAL BASE CHANNELIZATION DETAILS (SEE DETAIL DRAWING)

		DATE (	01/30/2007		SHEET NO	2 OF 4
EASTERN MUNICIPAL		PROJECT	Γ SEWER GU	JIDELINE FOR MANH	OLE SIZING	
WATER DI		WO/CO	ACCT NO			
FTED BY	FB			REVIEWED BY	SEVERINO MENDO	7.A





2 DF 4 48-IN DIA MH



F AFTED BY

DATE | 01/30/2007

SHEET NO

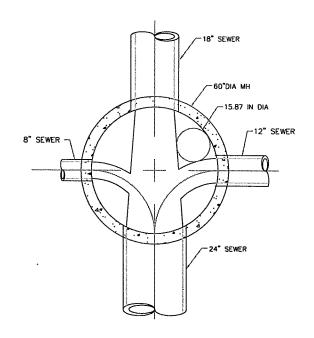
3 OF 4

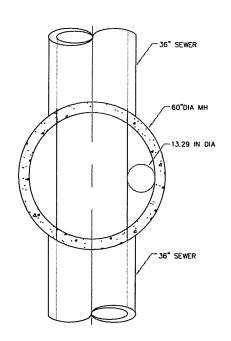
SEWER GUIDELINE FOR MANHOLE SIZING PROJECT WO/CO ACCT NO

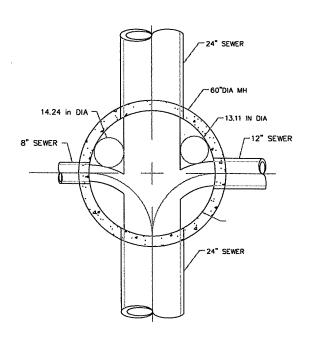
FB

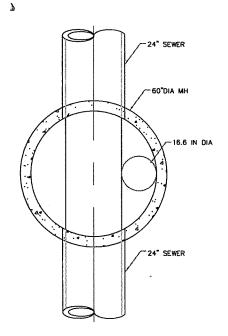
REVIEWED BY

SEVERINO MENDOZA

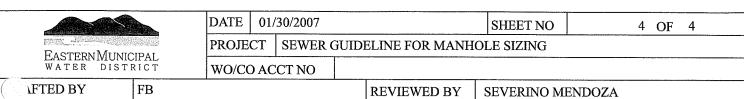


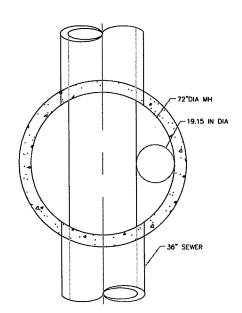


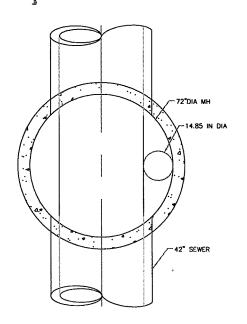




3 OF 4 60-IN DIA MH







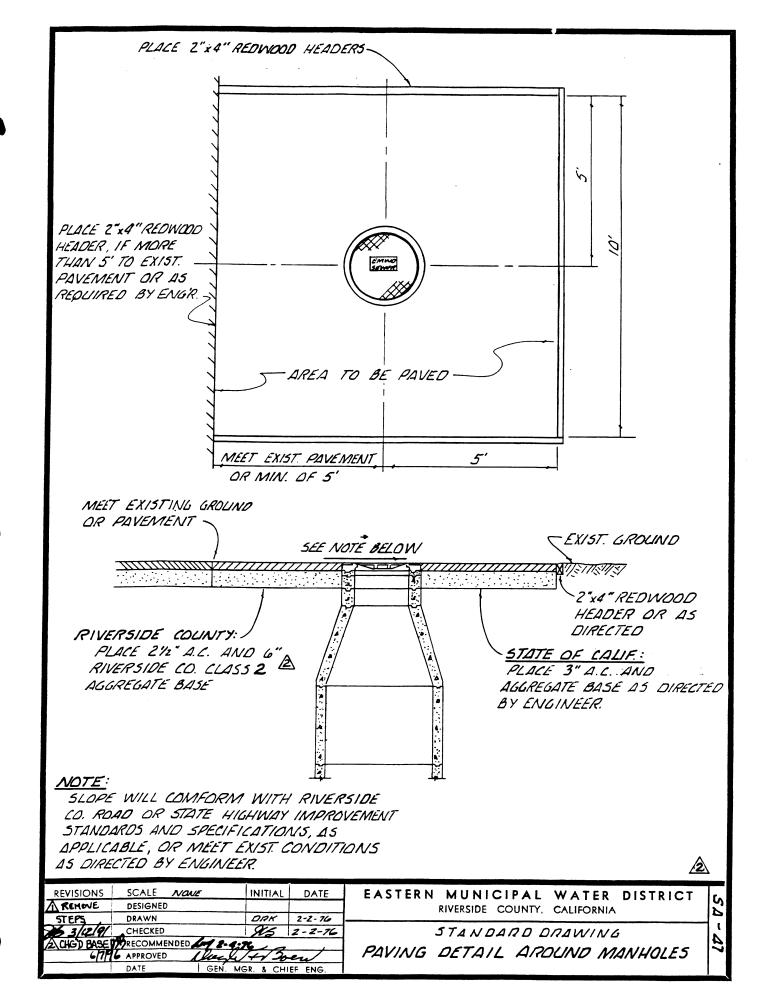
4 OF 4 72-IN DIA MH

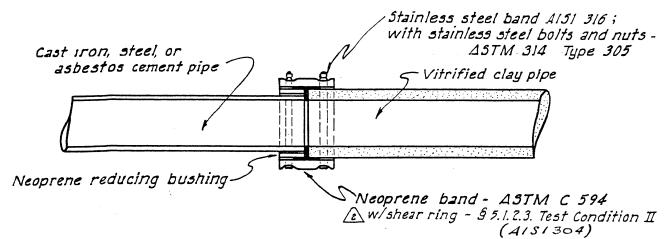
# **Eastern Municipal Water District Sewer System Construction**

Revision 3/28/18

### **Sewer Standard Drawings:**

Dwg No.	Description	Rev. No.	Rev.Date
SA-47	Paving Detail Around Manholes	2	06/07/96
SA-79	Connecting Dissimilar Sewer Pipes	2	08/04/70
SA-87	Sewer Chimney Lateral	1	11/01/86
SB-8	Locking Type Manhole Cover & Frame	3	03/21/85
SB-30	Reinforced Precast Shallow Manhole	4	07/21/97
SB-49	Pipe Casing (Sewer Main)	3	04/14/10
SB-52	Sewer Cleanouts	1	02/10/97
SB-52A	Sewer Tree Laterals & Cleanout	1	01/25/99
SB-53	Precast Reinforced Concrete, 48" & 60" ID Manhole	4	01/09/03
SB-54	Precast Reinforced Concrete, 60" & 72" ID Flat top	4	02/02/07
SB-58	Terminus Manhole	2	09/22/06
SB-61	Manhole Cover & Frame Standard & Watertight Manholes	4	01/09/03
SB-63	Sewer Connection at Concrete Encasement	5	02/02/93
SB-70	Grease Interceptor with 24" Sampling Box	3	03/27/18
SB-73	36" ID Sampling Manhole Precast Reinforced Concrete	1	02/16/99
SB-75	Sand / Oil Interceptor with 24" Sampling Box	3	03/27/18
SB-157	Pipe Zone Bedding for Sewer Pipe	6	04/23/13
SB-158	Trench Backfill for Sewer Pipe	5	10/15/03
SB-159	Classification of Pipe Zone Bedding for Sewer Pipe	7	04/23/13
SB-176	Sewer Lateral Connections		
SB-177	Sewer Laterals	3	06/29/15
SB-179	48" and 60" Diameter Manhole Installation for HDPE Sewer Main	2	08/14/08

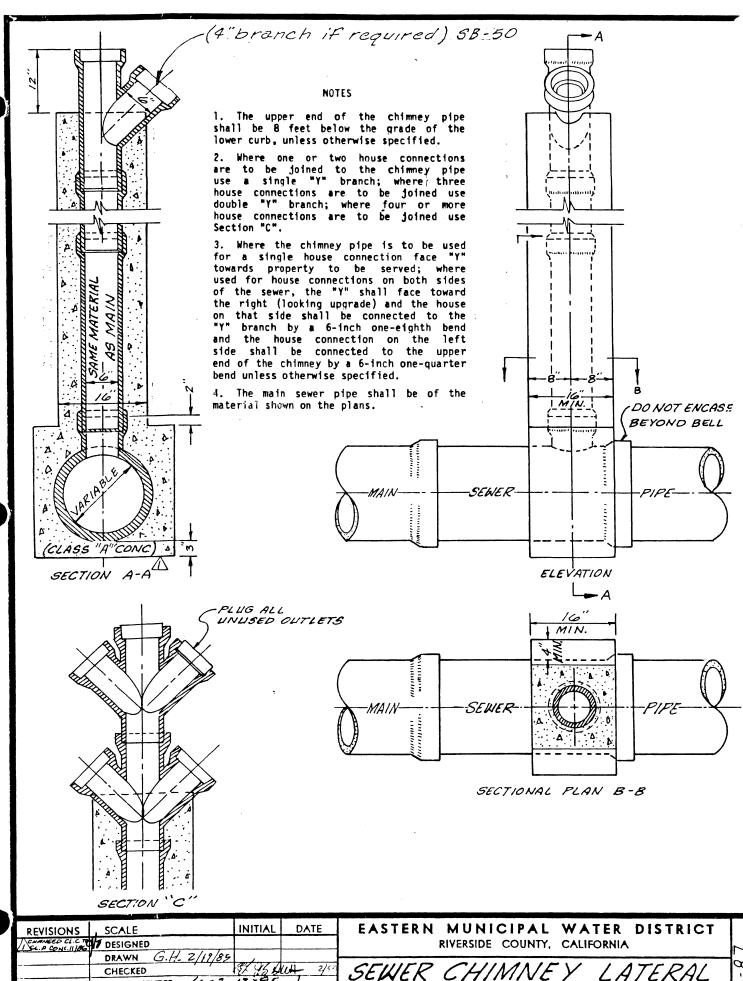




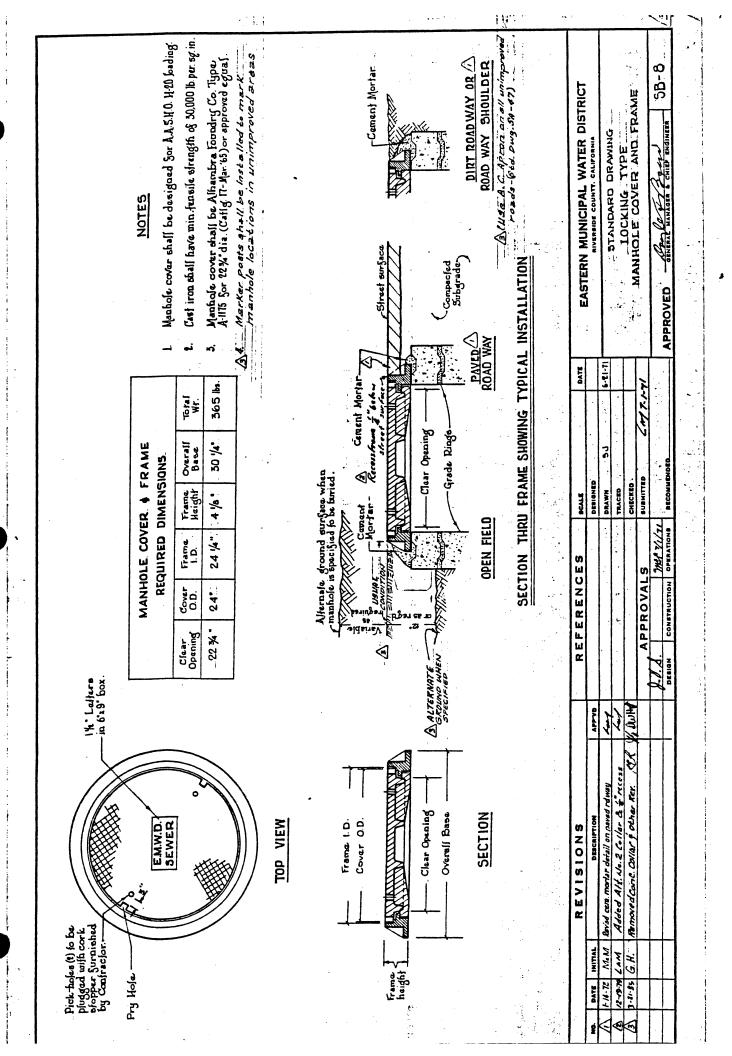
# FLEXIBLE COUPLING (NON-PRESSURE)

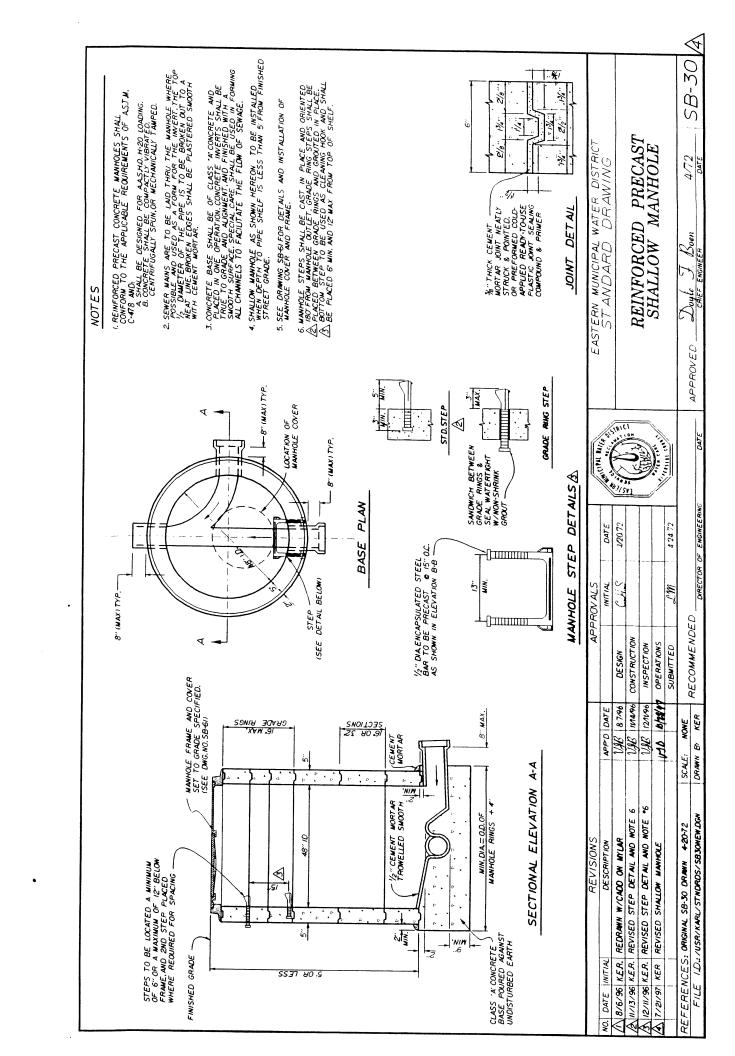
NOTE:

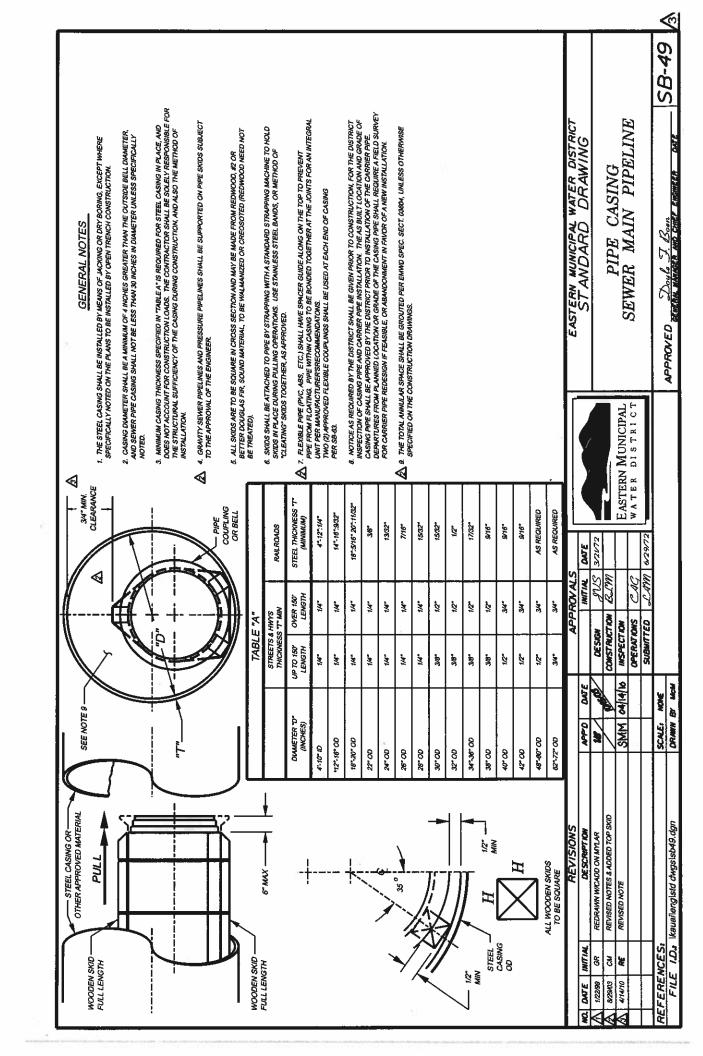
REVISIONS	SCALE None	DATE	EASTERN MUNICIPAL WATER DISTRICT	7.5
Redrawn (	AM DESIGNED J.H.B.	8-3-70	RIVERSIDE COUNTY, CALIFORNIA	54 - ;
	CHECKED J.V.S	8-4-70	STANDARD DRAWING	
	APPROVED AFFECT BEING.		CONNECTING DISSIMILAR	79
			SEWER PIPES	

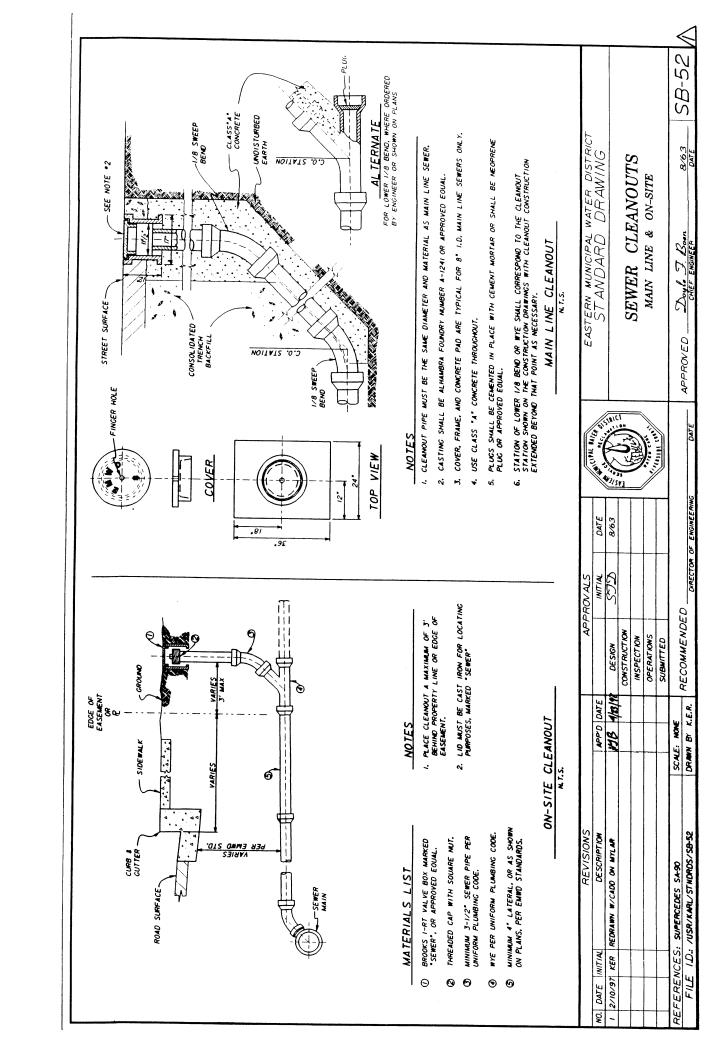


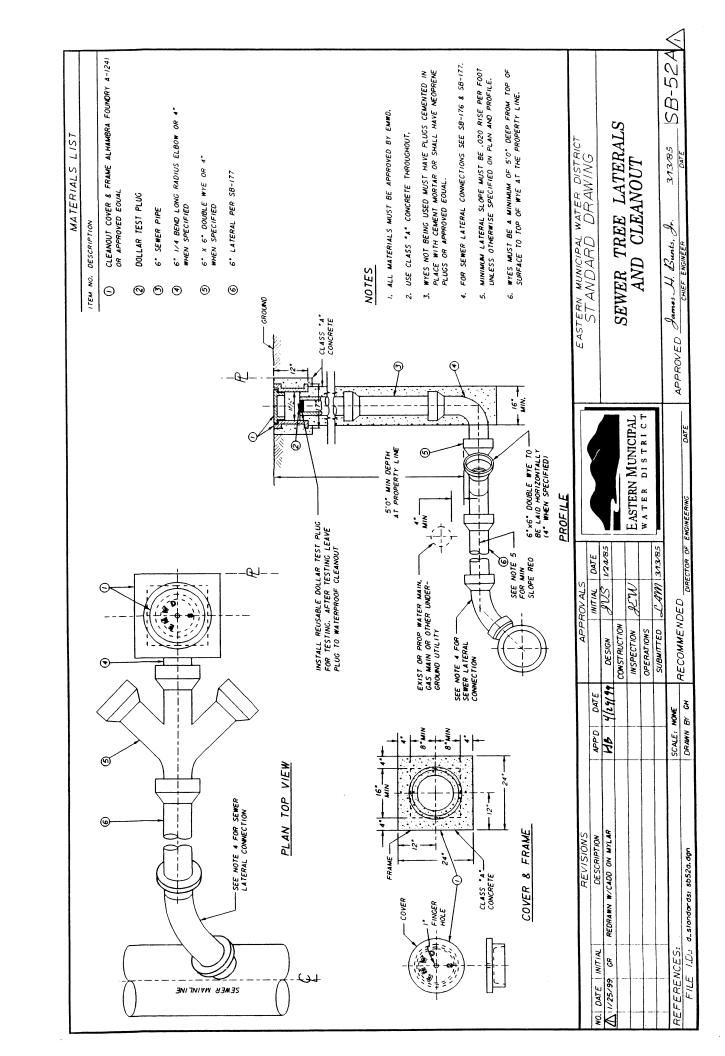
 $^{\infty}$ SEWER CHIMNEY LATERAL 473.1 RECOMMENDED V STANDARD DRAWING CHIEF ENG DATE

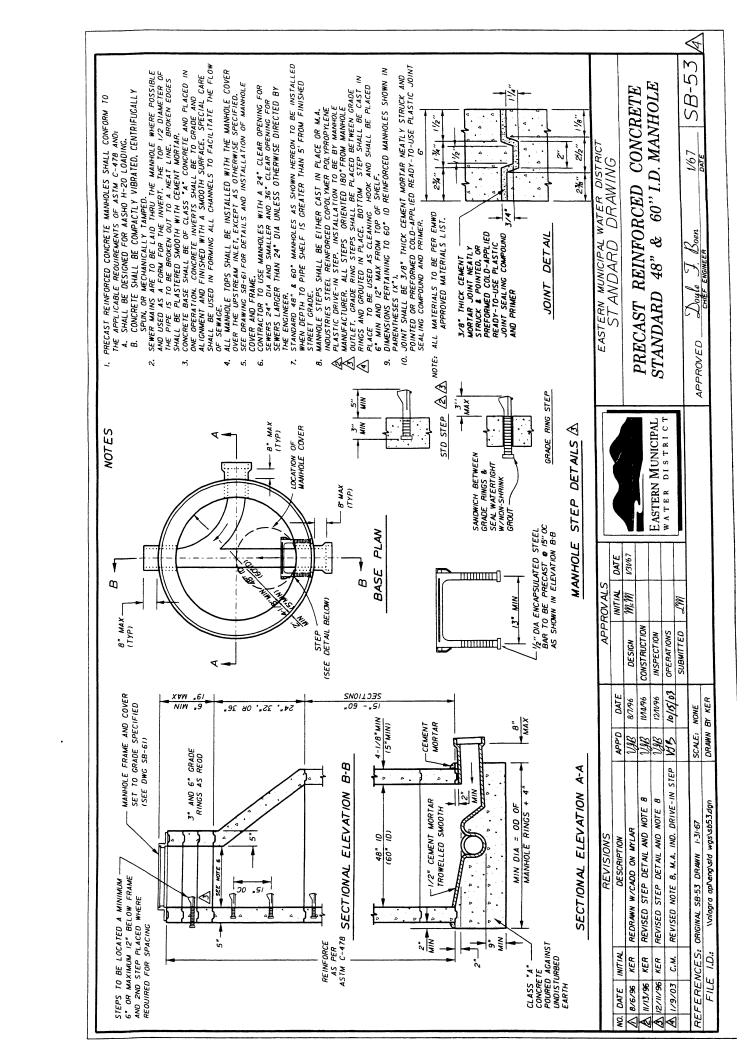


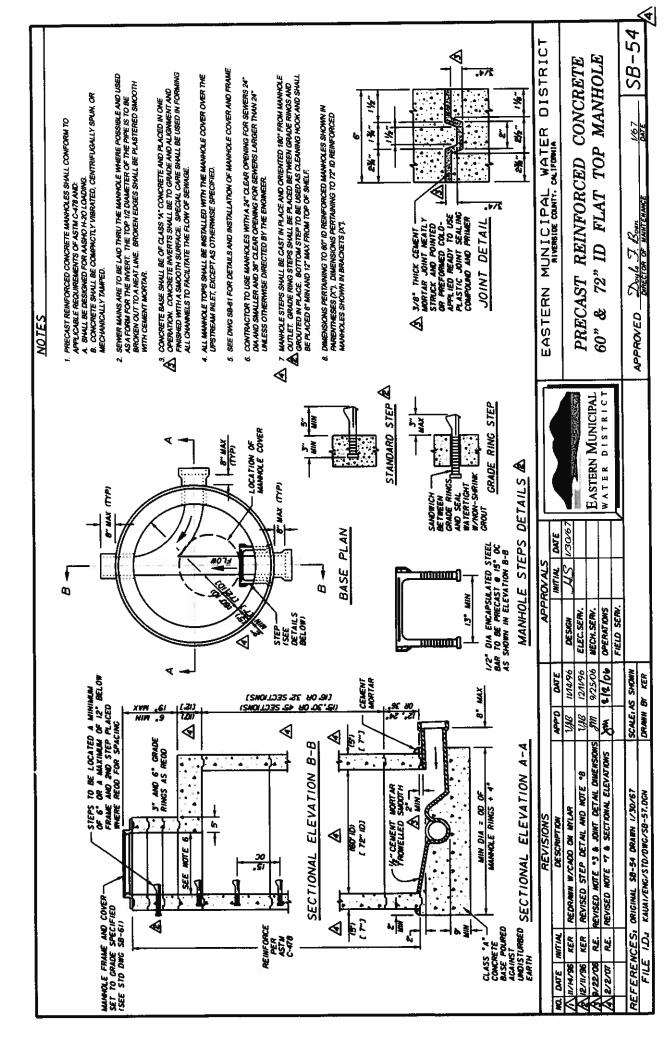


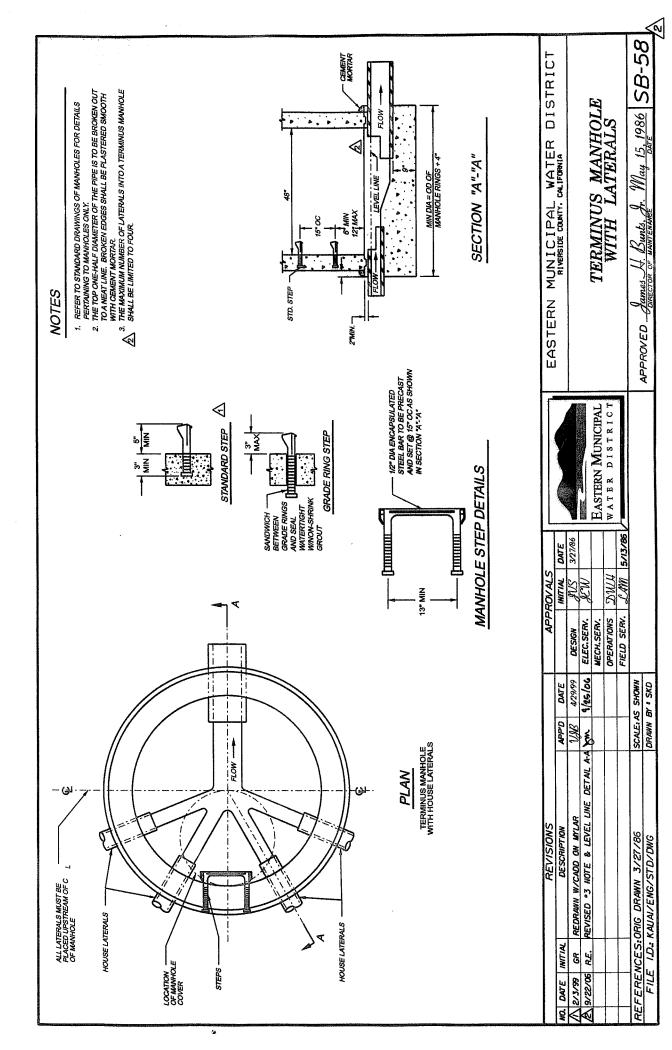


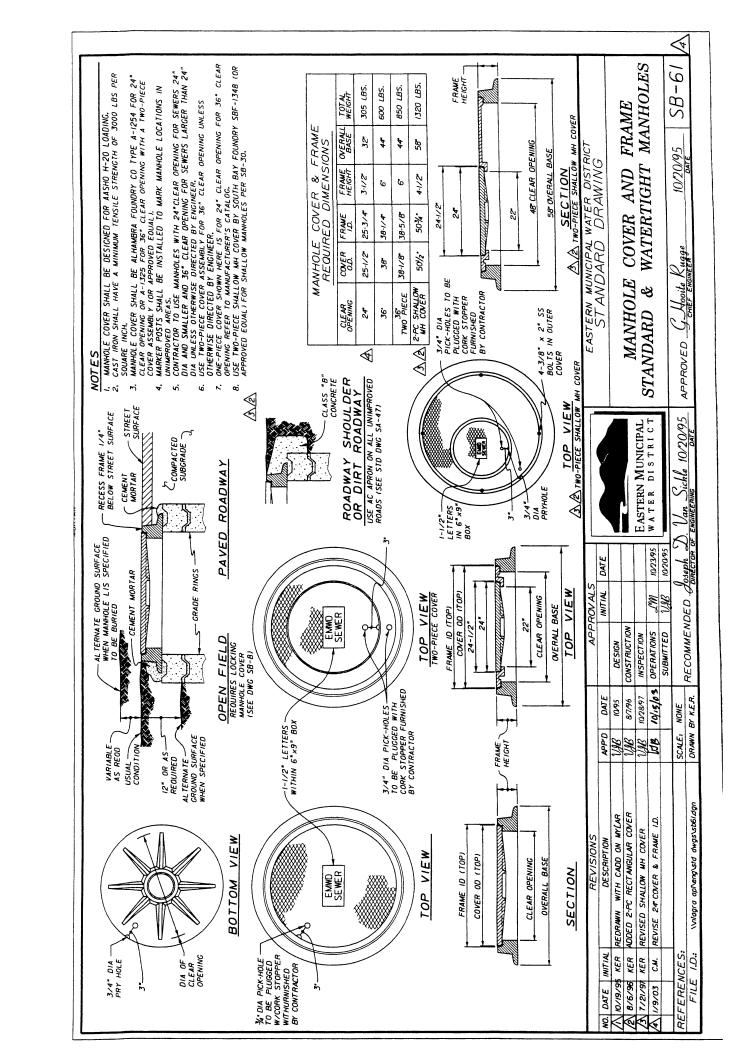


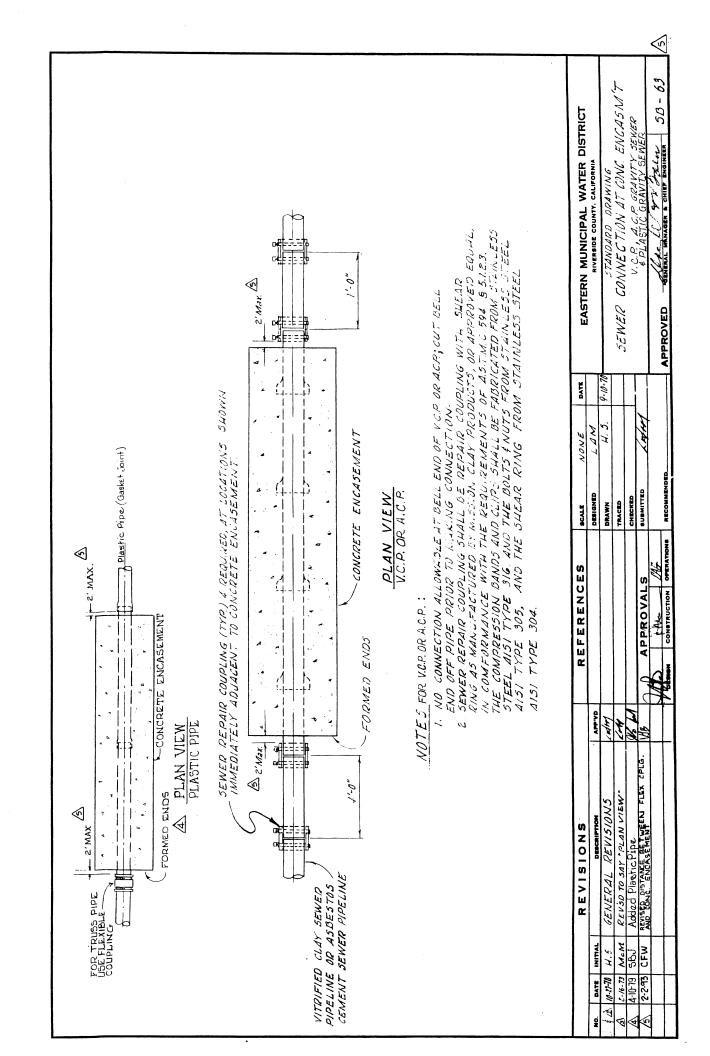


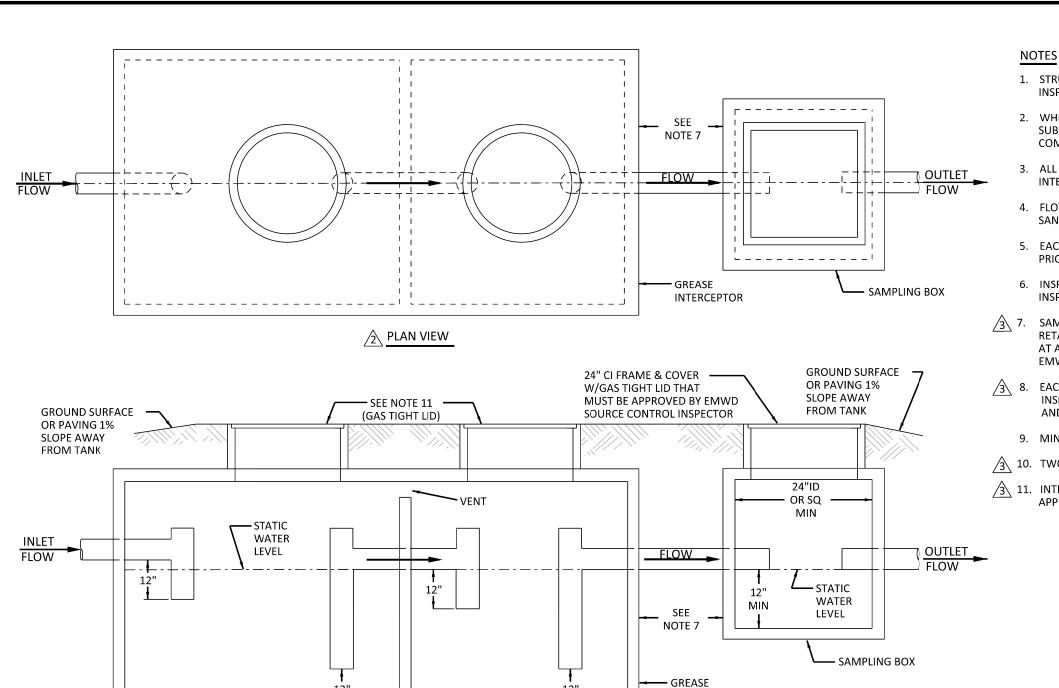












- 1. STRUCTURES SHALL BE INSTALLED TO ALLOW ACCESS FOR MAINTENANCE OR INSPECTION AT ALL TIMES.
- 2. WHERE SUBJECT TO VEHICLE LOADING, DESIGN ADEQUACY SHALL BE SUBSTANTIATED AND STRUCTURE SHALL BE PLACED ON SUITABLE BASE OF COMPACTED SOIL OR UNDISTURBED EARTH.
- 3. ALL SURFACE WATER MUST DRAIN AWAY FROM THE SAMPLING BOX AND INTERCEPTOR TO EXCLUDE RAIN WATER FROM THE SEWER SYSTEM.
- 4. FLOW TO THE SAMPLING BOX AND/OR INTERCEPTOR SHALL EXCLUDE ALL SANITARY SEWAGE AND SURFACE DRAINAGE.
- 5. EACH INSTALLATION IS SUBJECT TO REVIEW BY EMWD FOR ADEQUATE CAPACITY PRIOR TO CONSTRUCTION.
- 6. INSPECTION COVERS SHALL BE BROUGHT TO GRADE TO PERMIT VISUAL INSPECTION OF INTERNAL FITTINGS, WITH RISERS AS REQUIRED.
- $\sqrt{3}$  7. SAMPLING BOX SHALL BE A MINIMUM OF 24" ID OR 24" SQUARE AND MUST RETAIN A STATIC WATER LEVEL OF 12". SAMPLING BOX MAY BE ATTACHED OR AT A VARIABLE DISTANCE FROM THE INTERCEPTOR AND MUST BE APPROVED BY EMWD SOURCE CONTROL INSPECTOR.
  - EACH CHAMBER SHALL HAVE A GAS TIGHT, TRAFFIC RATED, PICKABLE METAL INSPECTION COVER WITH A MINIMUM DEMENSION OF 24" ID OR 24" SQUARE AND MUST BE APPROVED BY EMWD SOURCE CONTROL INSPECTOR.
  - 9. MINIMUM CAPACITY OF INTERCEPTOR IS 750 GALLONS.
- 3 10. TWO (2) CHAMBER INTERCEPTOR IS ACCEPTABLE.
- 11. INTERCEPTORS REQUIRING MORE THAN 8 FEET OF GRADE RINGS MUST HAVE APPROVAL OF EMWD BEFORE INSTALLATION.

REVISIONS					APPROVALS			
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE		INITIAL	DATE
						DESIGN	VJB	12/28/90
						CONSTRUCTION		
$\sqrt{3}$	3/27/18	GS	REVISED NOTES 7, 8, & 10, REMOVED NOTE 11, UPDATED LOGO	AGA	3/27/18	INSPECTION		
2	2/13/15	GS	REVISED PLAN & PROFILE, NOTE 11 AND UPDATED CALLOUTS	AGA	2/13/15	OPERATIONS	JAG	1/10/91
$\Lambda$	2/19/99	GR	REDRAWN W/CADD & COMBINED W/SB-156	VJB	5/6/99	SUBMITTED		
F	EFERENC	ES: SUF	PERCEDES SB-156	SCALE: N	ONE			

FILE I.D.: \kauai\eng\std dwgs\SB-70.dgn

∕2 PROFILE VIEW

DRAWN BY: GS



DATE

INTERCEPTOR

DIRECTOR OF ENGINEERING

**RECOMMENDED** 

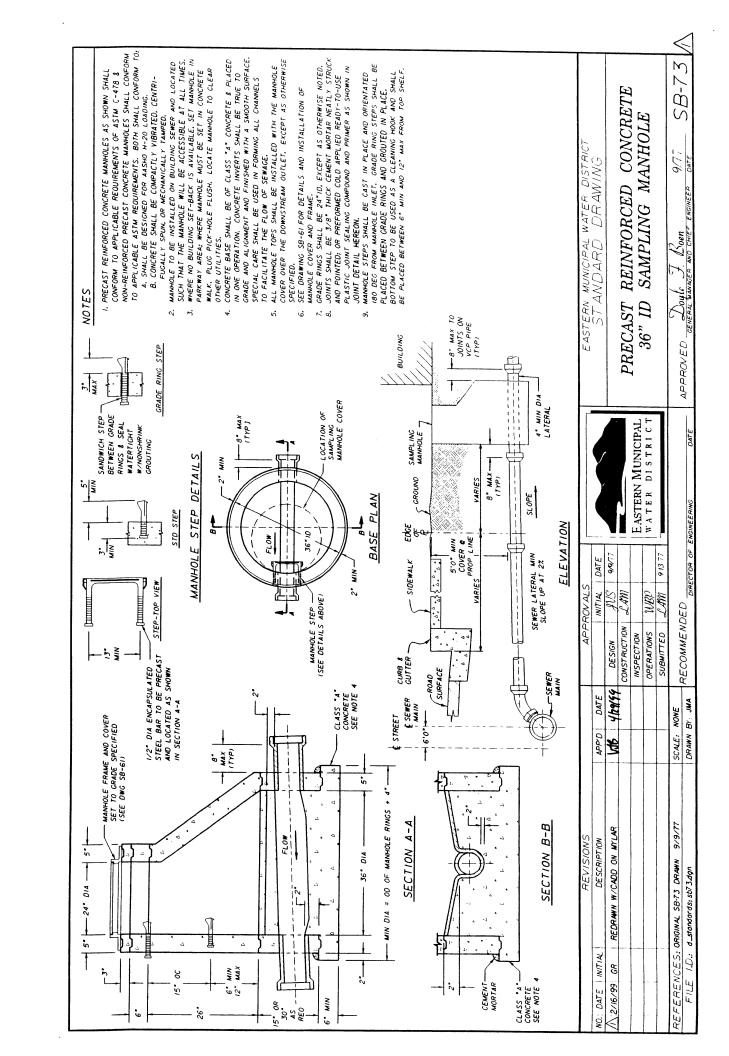
EASTERN MUNICIPAL WATER DISTRICT STANDARD DRAWING

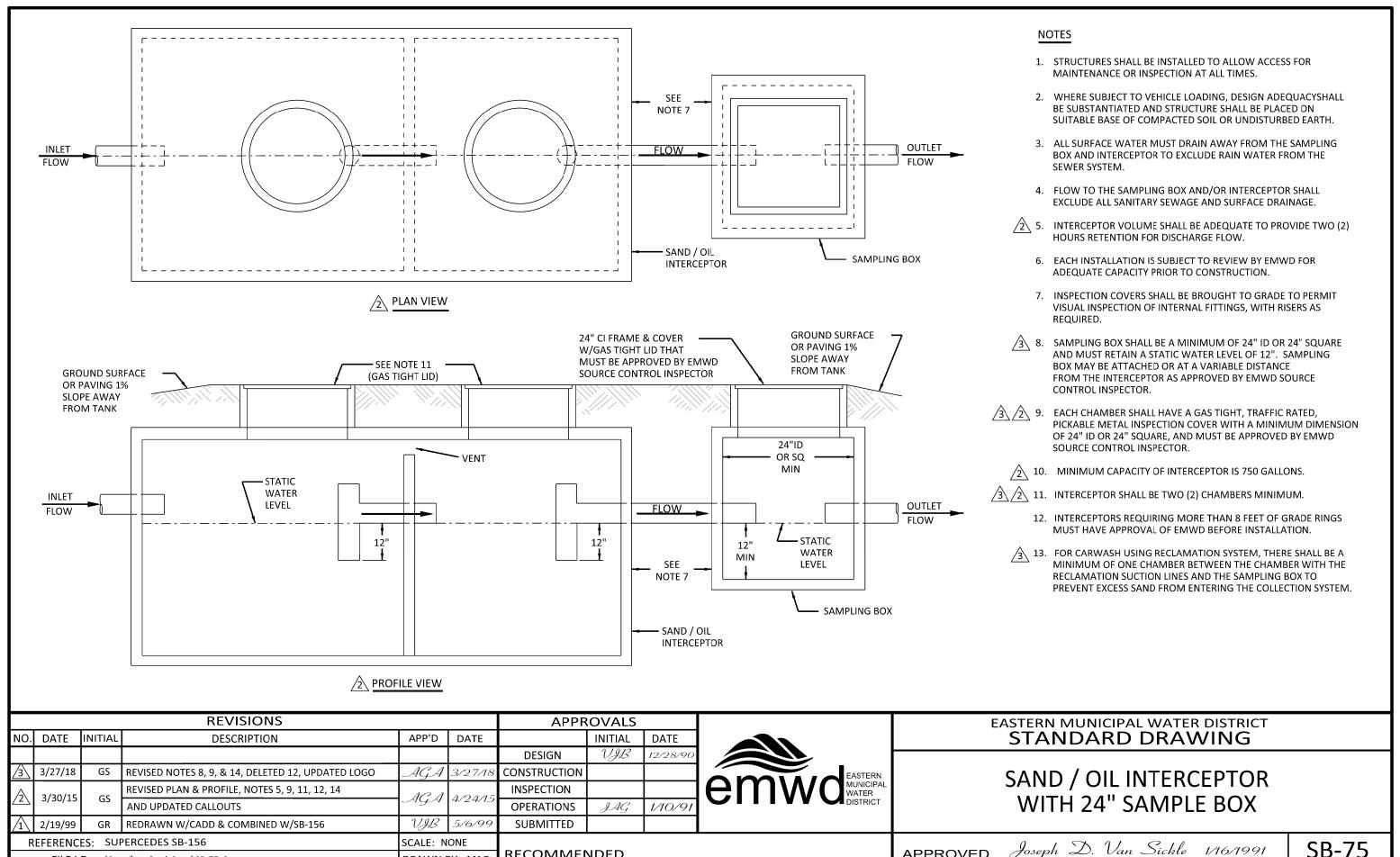
**GREASE INTERCEPTOR** WITH 24" SAMPLE BOX

Joseph D. Sickle APPROVED\_

1/16/91 DATE

**SB-70** 





DIRECTOR OF ENGINEERING

RECOMMENDED.

DRAWN BY: MAG

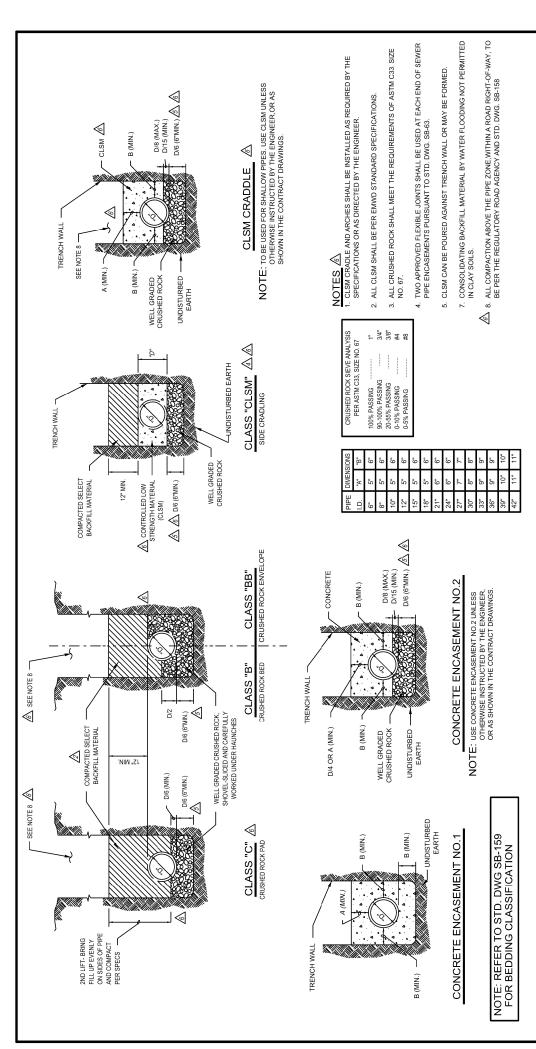
FILE I.D.: \kauai\eng\std dwgs\SB-75.dgn

**SB-75** 

1/16/1991

**APPROVED** 

DATE



# EASTERN MUNICIPAL WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

### ZONE BEDDING SEWER PIPE PIPE ZO

Eastern Municipal WATER DISTRIC

> INSPECTIONS OPERATIONS SUBMITTED

66/11/9 86/7/11 415/13

DATE

INITIAL

DATE

APP'D

REVISE ROCK BEDDING, NOTES, AND REMOVED CLASS "A" & "AA"

gs Æ

4/11/13 6/4/99 11/4/98 2/19/97

DATE

REVISIONS

DESCRIPTION

REVISE ROCK THICKNESS UNDER PIPE TO 6"

**APPROVALS** 

Ċ.

1 5

RECOMMENDED &

DRAWN BY: KER

REFERENCES: SUPERCEDES SB-76
FILE I.D.: KAUAI/ENGINEERING/STDDWG

REDRAWN TO INCLUDE ALL PREVIOUS REVISIONS CLARIFY CLASS "A" CONCRETE SIDE CRADLING

REVISED CALLOUT FOR TRENCH BACKFILL

Æ KER KER

1/31/95

SCALE: NONE

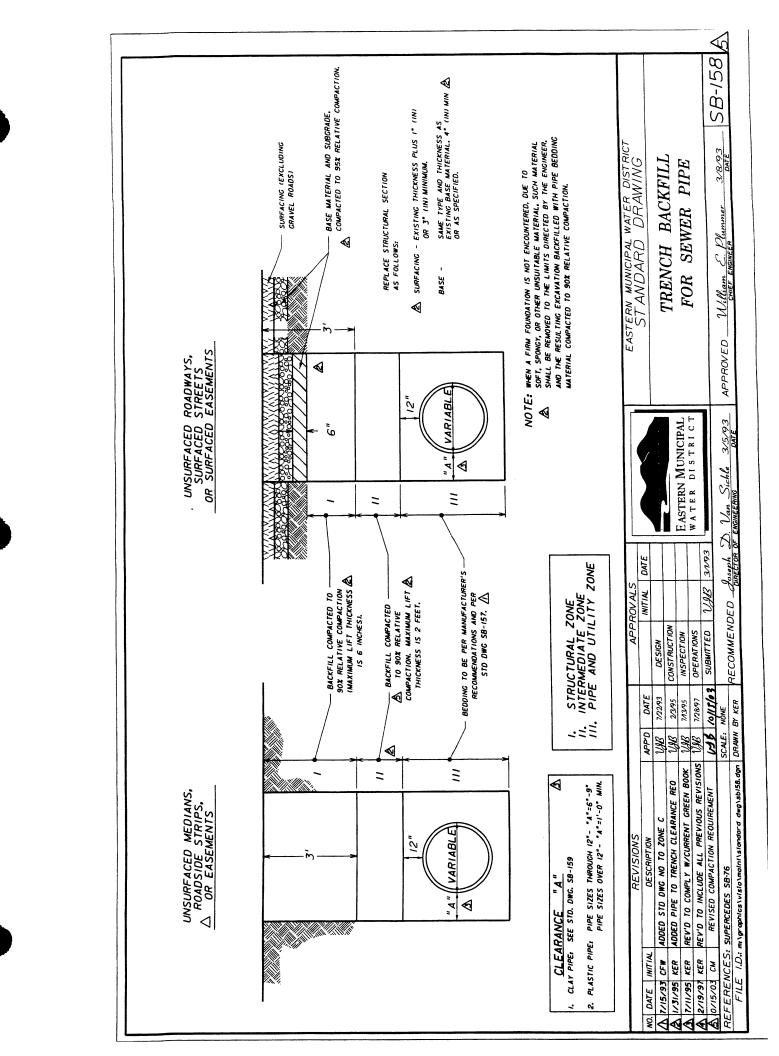
1	l
77 77 7	
1777	
SEWEIL	2
ron	
7	00110

APPROVED William

3/8/93

SB-157

 $\langle$ 



SURFACE CURVE AFTER SETTLEMENT ¬¬		λi	AE DAR	DELLIN	**************************************					WIDE TRENCH CONDTION		CECNEWNOOS	KECCIVINENDED FOR STATE OF STA	HLOIM		***		
				≪	CLSM	25-50	20-20	13-50	18-50	18-50	18-50	18-50	18-50	17-50	16-50	15-50	16-50	15-50
				9,	88	21-25	18-20	17-19	16-18	16-18	16-18	16-18	15-18	15-17	14-16	14-16	14-16	13-15
			,	or BEDDI	В	17-21	15-18	14-17	13-16	13-16	12-16	12-16	12-15	12-15	11-14	11-14	11-14	10-13
			TION ("X"	CLASSIFICATION OF BEDDING	C	12-17	10-14	10-14	9-13	9-12	9-12	9-12	9-12	8-12	7-11	7-11	7-11	7-10
	IGH STRENGTH VITRIFIED CLAY PIPE (VCP)	JEPTH OF COVER (IN FEET) TO TOP OF PIPE	H CONDI	ZLASSIFIC	О	4-12	4-10	4-10	6-7	4-9	6-7	6-7	6-7	4-8	4-7	4-7	4-7	4-7
			WIDE TRENCH CONDITION ("X")	,   ≪	CLSM CRADDLE	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4
				SEWER PIPE	.D.	8	10"	12"	15"	.81	21"	24"	27"	30"	33"	.98	36"	42"
				=X NOITISNA HTŒIW	AT	3'-2"	3,-7"	40"	4:-7"	5-1"	2-5	6'-4"	/-,9	7:-1"	.92	7:11"	8:5"	8'-10"
				$\triangleleft$	CLSM		27-50	25-50	21-50	20-50	23-50	21-50	21-50	20-20	19-20	19-50	19-50	18-50
					88	21-36	18-27	18-25	16-21	16-20	18-23	16-21	17-21	16-20	15-19	16-19	15-19	15-18
	IED CLAY	. O1 (133		веррім <i></i>	В	17-21	14-18	14-18	13-16	13-16	12-18	12-16	12-17	12-16	11-15	11-16	11-15	11-15
	'H VITRIF	VER (IN F	1 (mhm)	TION OF	0	12-17	10-14	10-14	9-13	9-13	9-12	9-12	9-12	8-12	8-11	7-11	7-11	7-11
	STRENGI	H OF CO	ITCH CONDITION ("Y")	CLASSIFICATION OF BEDDING	а	4-12	4-10	4-10	6-7	6-4	6-7	6-7	6-7	4-8	4-8	4-7	4-7	4-7
	THIS TABLE APPLIES TO HIGH !	DEPTHS LISTED BELOW = DEPT	INTERMEDIATE DITCH I	no W	CLSM CRADDLE	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4
	TABLE AF	+S LISTEI	LNI	SEWER	. <i>D</i> ./	8	01	71	51	.81	17	.54"		.08	88	98	68	42"
	THIS	DEPT	$\forall$	=Y MUNIXA BTAVAC HIUIN	EΧC	2'-9"	"O-,E	"E-,E	"6 <sup>-</sup> ,E	4'-3"	9-,4		9-,9	6-,5		9-,9	.11-9	15"
				<b>≪</b>	CLSM	*	*	*	27-50	25-50	27-50	30-20	30-20	29-50	27-50	28-50	25-50	25-50
					BB		٠	,	20-27	18-25	18-27	23-30	22-30	22-29	21-27	22-28	20-25	20-25
			(" <i>X</i> ") NC	9NIQQ:	В	17-50	21-50	19-50	13-20	13-18	14-20	15-23	15-22	15-22	15-21	15-22	14-20	15-20
			NARROW DITCH CONDITION ("Y")	CLASSIFICATION OF BEDDING	0	12-17	11-21	10-19	8-13	8-13	9-14	10-15	10-15	10-15	10-15	10-15	9-14	9-14
			N DITCH	SSIFICATI	a	4-12	11-4	4.10	8-#	8-#	6-7	4.10	4-10	4-10	410	410	6-7	6-#
			NARRO	CLAS	CLSM CRADDLE	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4
				SEWER	.D.	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	.98	36"	42"
				=Y MUMIXA G∃TAVAC HTGIW	EXC	7:-6"	56"	59"	36"	4'-0"	4:-3"	46"	49"	.0-,9	2.3"	.9-,9	.09	

### NOTES

ABS COMPOSITE PIPE (TRUSS) - 8" TO 15" DIA PIC COMPOSITE PIPE (TRUSS) - 8" TO 15" DIA ABS SOLID WALL (SDR 23.5) - 4" 46 "D IA DEPTH OF COVER TO TOP OF PIPE

DEPTH OF COVER TO TOP OF PIPE

CLASSIFICATION
OF BEDDING ...
CLASS "BB"

DEPTH OF COVER TO TOP OF PIPE

ABS SOLID WALL PIPE (SDR 35) & PVC SOLID WALL (SDR 35) 4" TO 15" DIA

LESS THAN 4" 9' TO 20'

4' 709'

THIS TABLE APPLIES TO PLASTIC PIPE

ENCASEMENT NO. 2

ENCASEMENT NO. 2 SPECIAL DESIGN CLASS "B" CLASS "D"

20'-30' GREATER THAN 30'

\$\langle \cdot \cd

2006 NCPI CLASS MOD. D

LOAD FACT.

BEDDING MATERIAL

EMWD CLASS

ОВ

1.1 1.5 1.9 2.2 2.8

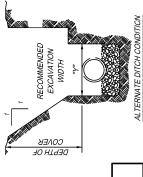
SELECT NATIVE MATERIAL
CRUSHED ROCK PAD
CRUSHED ROCK BED
CRUSHED ROCK ENVELOPE
CLSM SIDE CRADDLE

D C BB CLSM ACb blbE

- 1. - DEPTHS OF COVER GREATER THAN THOSE LISTED IN THE BEDDING CHARTS REQUIRE A SOILS INVESTIGATION AND ANALYSIS BY THE ENGINEER.
- 2. X DENOTES TRANSITION WIDTH WHICH IS THE THE DISTANCE AT WHICH THE TRENCH WIDTH MAY BE INCREASED WITHOUT ADDING TO THE WEIGHT ON THE PIPE.

DITCH CONDITION

- 3. DETERNINATION OF BEDDING TYPES BASED ON CONSTANT TRENCH WIDTH, 1,25 FACTOR OF SMETY, AND A SOIL WEIGHT WET GLAY = 130 LBS/CUBIC FOOT PER NCPI MANUAL.
- - 5. BEDDING CLASS SHALL EQUAL OR EXCEED THAT GIVEN IN THE APPLICABLE BEDDING TABLES.



## REFER TO STD DWG SB-157

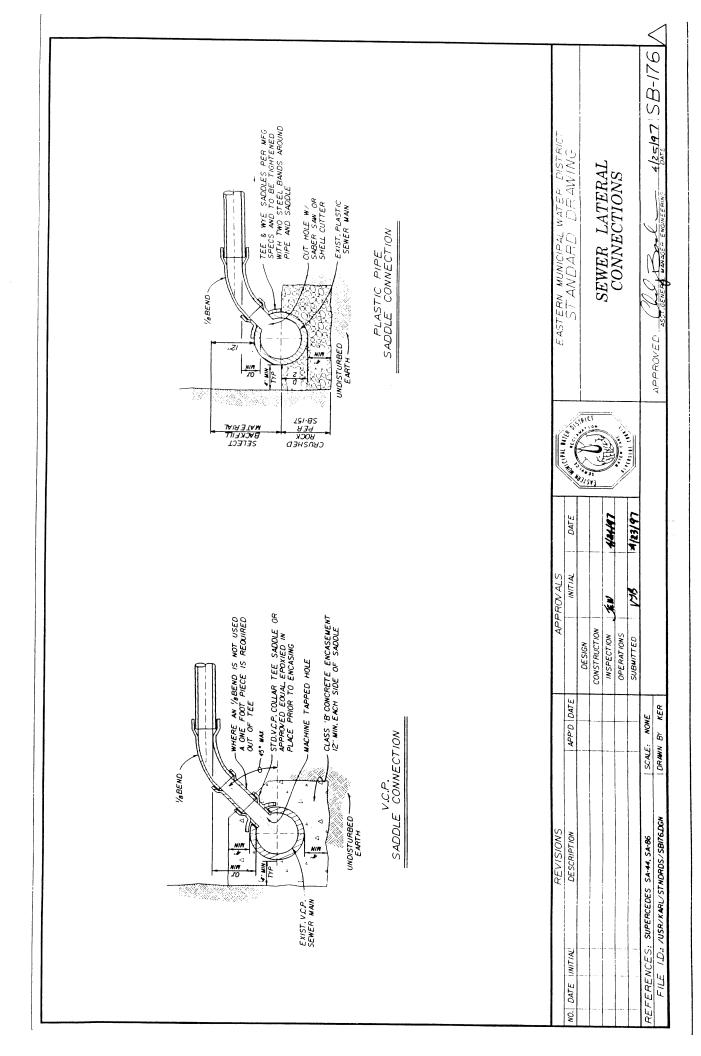
FOR BEDDING REQUIREMENTS

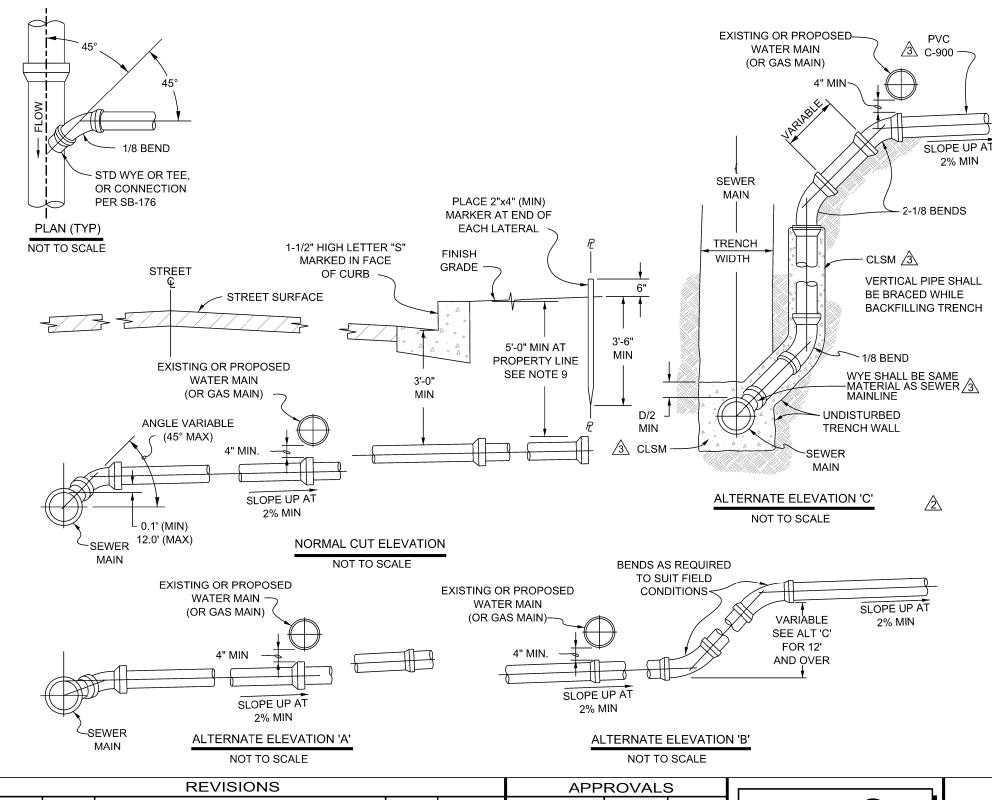
## EASTERN MUNICIPAL WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA IE

			KEVISIONS			APP	APPROVALS	^		
NO.	NO. DATE INITIAL	INITIAL	DESCRIPTION	APP'D DATE	DATE		INITIAL DATE	DATE		_
⋖	0112111	ć	REVISED TABLES FOR CLSM, ADDED D, C, B BEDDING TO INTERMEDIATE	V OV	211111					1
1	4/11/13	3	DITCH CONDITION TABLE, REMOVED A & AA BEDDING, AND UPDATED NOTES	7						
$\bigcirc$	9/22/06		R.E. REVISED TABLE	inte	125/06	9/25/06 INSPECTIONS			EASTERN MUNICIPAI	ICIPAL
<b>\g</b>	6/2/00	KR	DEFINED SPECIAL DESIGN CRITERIA	SEN	5/2/00	6/2/00 OPERATIONS			WATER DISTRICT	FRICT
$\triangleleft$	1/6/00	GR	REVISED BEDDING CLASS & DEPTHS FOR SDR 35	1360	26/00	1/26/00 SUBMITTED \\ \( \mathcal{Y} \) 3/1/93	SKN	31193		
2	EFERE	NCES:	REFERENCES: SUPERCEDES SB-76	SCALE: NONE				' 0	0 10 11 8 11 6	0
	FIL	E I.D.:	FILE I.D.: KAUAI/ENGINEERING/STDDWG	DRAWN BY: KER	Y: KER	RECOMME	NDED	<i>Toseph</i> DIRECTOR (	foseph 2. Van Jickle JIRECTOR OF ENGINEERING	3/3/93 DATE

ZON	PIPE
PIPE	SEWER
OF	
ION	FOR
CLASSIFICATION	BEDDING

SB-159		
3/8/93	DATE	
William E. Plummer	ASST. GENERAL MANAGER ENGINEERING	
APPROVED		
3/3/93	DATE	
Van Sichle	VEERING	





### **NOTES**

- 1. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 2% EXCEPT AS OTHERWISE NOTED ON THE PLANS.
- 2. PLUGS SHALL BE CEMENTED IN WITH CEMENT MORTAR, OR SHALL BE NEOPRENE STOPPER OR APPROVED EQUAL.
- 3. VIN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON TOP OF THE PIPE.
- 4. 2" WIDE METALLIC DETECTABLE LOCATOR TAPE SHALL BE PLACED APPROXIMATELY 6" ABOVE EACH LATERAL, BUT NOT GREATER THAN 6' DEEP, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 5. MINIMUM 5' SEPARATION BETWEEN SEWER LATERAL AND WATER SERVICE.
- 6. WHERE SEWER LATERAL CROSSES ABOVE AN EXISTING OR PROPOSED WATER MAIN, USE CI PIPE (CL 150 W/HOT DIP BITUMINOUS COATING) 10' ON EACH SIDE OF WATER MAIN. USE COUPLERS PER SB-178.
- 7. LATERALS SHALL END AT THE PROPERTY LINE UNLESS OTHERWISE NOTED ON THE PLANS.
- 8. SEE STANDARD DRAWING SB-178 FOR CONNECTION TO BUILDING SEWER.
- 9. WHERE JOINT UTILITY TRENCH IS PROPOSED BEHIND CURB, SEWER LATERAL SHALL HAVE 5'-0" COVER BELOW CURB GRADE AT PROPERTY LINE. TYPICAL OF ALL ALTERNATE ELEVATIONS.
- 10. ALTERNATE ELEVATIONS ARE TO BE CONSTRUCTED WHEN THE FOLLOWING CONDITIONS APPLY:
  - ALTERNATE 'A': TO BE CONSTRUCTED WHEN VERTICAL DIFFERENCE BETWEEN WATER AND SEWER MAINS DOES NOT
  - ACCOMMODATE NORMAL CUT ELEVATION. ALTERNATE 'B': TO BE CONSTRUCTED WHEN A VERTICAL TRANSITION
    - LESS THAN 12' IS REQUIRED BETWEEN THE WATER
    - CROSSING AND PROPERTY LINE.
  - ALTERNATE 'C': TO BE CONSTRUCTED WHEN A VERTICAL TRANSITION
    - 12' OR GREATER IS REQUIRED BETWEEN SEWER MAIN
    - AND WATER CROSSING.
- 11. ALL CLSM SHALL BE PER EMWD STANDARD SPECIFICATIONS.

REVISIONS						APPROVALS			
NO	DATE	INITIAL	DESCRIPTION	APP'D	DATE		INITIAL	DATE	
						DESIGN	VJB	4/23/97	
	CHOME	-00	REMOVED ALL REFERENCES TO ALT. "D", ADDED	AGA	6/19/15	CONSTRUCTION	·		
3	6/19/15	GS	CLSM ENCASEMENT, AND REVISED NOTE 11	74G/4	0/19/13	INSPECTION			
2	9/16/03	СМ	ADD NOTE #11, ALT "D" NOT TO BE USED	VJB	10/15/03	OPERATIONS			
$\triangle$	4/19/99	GR	REV NOTE 8 & ID-/USR/KARL/STNDRDS/177B.DGN	VJB	5/4/99	SUBMITTED	VJB	4/23/97	
RE	FERE	NCES:	SUPERCEDES SB-48, SB-50, & SB-51	SCALE:	NONE				

FILE I.D.: \kauai\eng\std dwgs\SD-177.dgn

DRAWN BY: KER

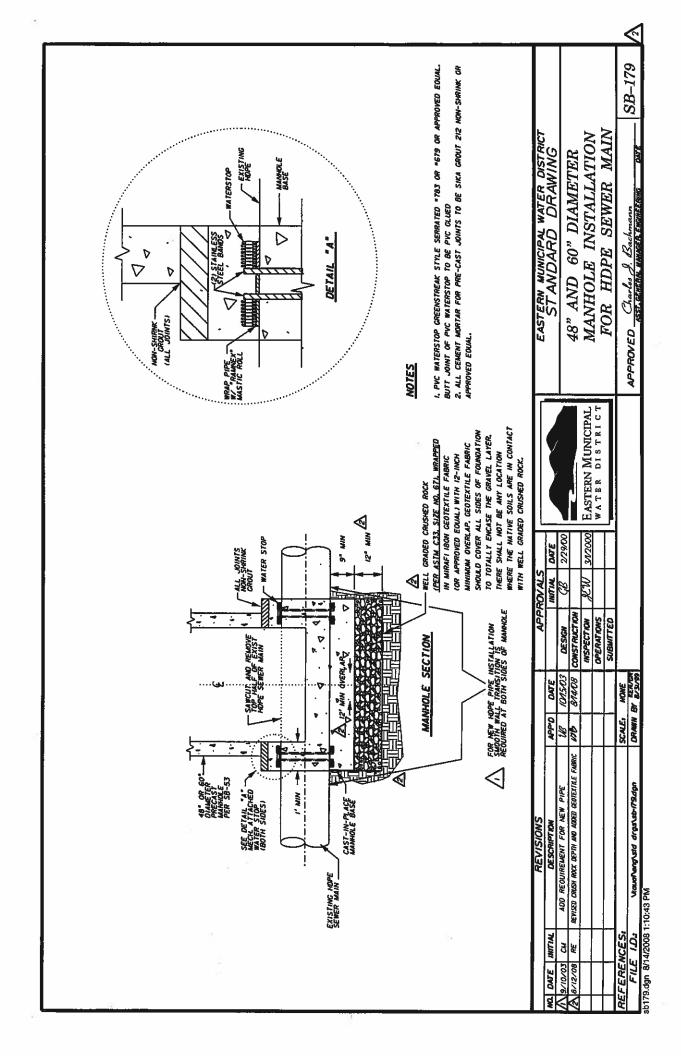


EASTERN MUNICIPAL WATER DISTRICT STANDARD DRAWING

SEWER LATERALS

APPROVED Charles J. Bachmann ASST. GENERAL MANAGER ENGINEERING SB-17

4/25/97



### SPECIFICATIONS - DETAILED PROVISIONS Section 02761 - Furnish & Install Vitrified Clay Sewer Pipe System

### CONTENTS

PART 1 -	GENERAL	
1.01	DESCRIPTION	1
1.02	RECORDS	1
1.03	JOB CONDITIONS	
1.04		1
1.05	GUARANTEE	Z
PART 2 -	PRODUCTS & MATERIALS	
2.01	MATERIALS FURNISHED BY CONTRACTOR	
PART 3 -	EXECUTION	
3.01	INSTALLATION OF PIPE	
3.02	LATERALS AND CLEAN-OUTS	
3.03	MANHOLES	8
3.04	CLEANING SEWER LINES	8
3.05	LEAKAGE TESTS	
3.06	SEWER PIPE REPAIRS	10
3.07	LATERAL MARKERS	10

Rev: 05/28/10

### SECTION 02761 FURNISH & INSTALL VITRIFIED CLAY SEWER PIPE SYSTEM

### PART 1 - GENERAL

### 1.01 DESCRIPTION

The Contractor shall furnish all labor, material, tools, and equipment required for the complete construction of pipelines, manholes, clean-outs, and other allied structures and appurtenances as stated on the Bidding Sheets, shown on the Contract Drawings, and specified herein, all within the time as stated in the Contract Documents.

Refer to Section 02201 of the District's standard specifications for requirements relating to Construction Methods and Earthwork and Section 02221 for requirements relating to Trenching, Backfilling and Compacting.

### 1.02 RECORDS

A true and accurate record of the location of all wye branches, laterals, clean-outs, and other connections and appurtenances shall be kept by the Contractor, and such record shall be furnished to the Engineer prior to, or immediately upon, completion of the work. The location of the end of all laterals and main stub-outs shall be shown at ground surface by a marker approved by the Engineer.

### 1.03 JOB CONDITIONS

The Contractor shall familiarize himself and comply with all applicable state, county and municipal rules and regulations pertaining to sanitation, fire protection and safety, and all provisions of the Contract Documents.

### 1.04 PAYMENT

- A. <u>Measurement For Payment</u>. Quantities for installation of sewer pipe, manholes, and other appurtenances on District-administered contracts shall be measured for payment as specified herein.
  - 1. <u>Main Sewer Lines</u> will be measured in place along the horizontal centerline of the pipe by the linear foot. The measurement will be continuous through all wye and tee branches, fittings, and manholes, except that said measurement will be taken to the center only of manholes where sewer lines terminate.
  - 2. <u>Laterals</u> will be measured in place along the horizontal centerline of the pipe by the linear foot from the centerline of the main line sewer to the end of the lateral as shown on the construction drawings.

- 3. <u>Clean-outs</u> will be measured on the basis of each clean-out installed, including wye branch, riser, screw plug, and box with cover.
- 4. <u>Manholes</u> will be measured on the basis of each manhole completely installed, including required stub-outs.
- 5. <u>Special Bedding</u> will be measured on the basis of the cubic yards of special bedding required to bring the bedding up to grade for the trench size excavated up to the maximum size of trench allowable under these specifications. No allowance will be made for over-excavation except as directed by the Engineer.
- 6. Bore Casing will be measured on the basis of horizontal centerline distance and shall include all excavation, furnishing and placement of casing, furnishing and placement of all required backpacking and grouting around casing, backfilling within casing, pipe bracing, restoration of surfaces, and all labor and material for a finished job. Furnishing and installation of pipe within casing shall be included in pipeline measurement.
- 7. <u>Paving</u> will be measured as a part of project causing removal and/or replacement of paving, except as otherwise specified on the Bidding Sheet.
- B. <u>Payment</u>. Payment for quantities of sewer pipe and manholes will be paid in the manner described herein below. No additional compensation will be paid above the unit bid price for changes in quantities.
  - Requests for partial payments will not be approved if the record drawings and revised Construction Progress Schedule and bar chart are not kept current, and request for final payment will not be approved until the completed record drawings, showing all variations between the work "as-constructed" and as originally shown on the contract drawings or other contract documents, has been delivered to the District.
  - 1. Sewer Pipe. Quantities of main sewer pipe and laterals measured as stated above and accepted, will be paid for at the respective unit bid prices per horizontal linear foot for the several kinds and sizes of pipe, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools, and equipment necessary to complete the work in place, including pipe, wye branches, fittings, clean-outs, appurtenances, excavation, backfill, imported select granular backfill, special bedding, cradles or encasements, laterals where required, testing, removal and restoration of pavements, curbs, gutters and sidewalks, and disposal of surplus earth and rock spoil.

Payment for pipe in place shall be further broken down based upon the Contractor's submittal under Section F-10 of these specifications, as concurred by the Engineer, but not to exceed <u>in the ordinary project</u> the following percentages of the linear foot price stated on the Bidding Sheets

Trench excavation	10%
Pipe laid in place and shaded	65%
Trench backfilled and backfill compacted	20%
Testing and clean-up, exclusive of pavement replacement	5%

- 2. Wye or Tee Branches. Payment for quantities of wye or tee branches and 1/8 bends shall be included in the payment for the unit bid prices for sewer pipe, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools, and equipment necessary to complete the work in place, including wye or tee branches only or wye or tee branches plus 1/8 bends or short pipe sections as applicable, and no additional payment shall be made therefore.
- 3. <u>Clean-outs</u>. Payment for quantities of clean-outs measured as stated above and accepted will be paid for at the unit bid price stated on the Bidding Sheets, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools and equipment necessary to complete the work in place, including wye branch, riser, screw plug, and box with cover, and no additional payments will be made therefore.
- 4. <u>Manholes</u>. Quantities of manholes measured as stated above and accepted, will be paid for at the respective unit bid prices for the sizes of manholes stated on the Bidding Sheets, which prices and payment shall constitute full compensation for furnishing all labor, materials, tools and equipment necessary to complete the work in place, including concrete base, manhole rings and tops, drop manhole inlets and supports, mortar, manhole frames and covers, stubs, earthwork, testing, removal and restoration of pavement, and disposal of surplus earth.
- 5. <u>Special Bedding</u>. Quantities of special bedding measured as stated above and accepted, will be paid for at the stipulated cost price, or the respective unit bid price for the quantities as stated on the Bidding Sheets, which price shall constitute full compensation for all labor, materials, and equipment necessary to complete the work in place, including the special bedding material.
- 6. <u>Bore Casing</u>. Payment for bore casing in place measured as stated above shall be made as specified on the Bidding Sheets.

7. Paving. Payment for quantities of paving measured as stated above and accepted shall be included in the unit bid price for pipeline Work includes removal and/or restoration of paving and all earthwork, and no additional compensation will be made therefore, except as otherwise provided on the Bidding Sheets.

### 1.05 GUARANTEE

All work, materials, and equipment shall be guaranteed for the periods of time set forth elsewhere in the Contract Documents for general guaranty or warranty.

### **PART 2 - PRODUCTS & MATERIALS**

### 2.01 MATERIALS FURNISHED BY CONTRACTOR

The Contractor shall furnish all materials required for the work, in accordance with these specifications and the latest revision of the applicable specifications for materials specified herein.

A. <u>Vitrified Clay Pipe (VCP)</u>. Unless otherwise shown, or when shown as VCP, all pipes shall be high strength vitrified clay pipe meeting the requirements of Section 207-8 of the Standard Specifications For Public Works Construction, 1991 Edition. All pipe and fittings shall be clearly marked with the name or trademark of the manufacturer and the strength designation.

Where ground water is encountered, or when specified on the construction drawings all pipe will be treated for absorption resistance with one of the following:

- 1. Dow-corning 722 silicon, 3% (by weight); or polyvinyl acrylic emulsion, 4% (by volume).
- 2. Union Carbide Silicone water repellent R-20 (Solium methyl silanotate) <u>5% (by</u> volume).

Application shall be by total immersion.

- B. <u>Pipe Joints</u>. The types of joints approved for use with the types of pipe previously described in this specification are:
  - 1. <u>Compression Joints</u>. Plastisol, Roll-on, and Ring-tite joints, or their approved equal, shall be installed on the respective types of pipe in accordance with the manufacturer's directions.
  - 2. <u>Repair Clamps & Connection Clamps</u> shall be as specified in ASTM 594 Section 5.1.2.3 Test Condition II, with stainless steel A1S1316 bands and clips, stainless steel A1S1305 bolts and nuts, and stainless steel A1S1304 shear ring; except as otherwise approved by the Engineer.

- C. <u>Cast Iron Pipe</u>. Cast iron sewer pipe and fittings, when specifically required, shall conform to the latest revision of AWWA Spec. C-106, -108, or -151, with bituminous inside and outside coatings. Joints shall be mechanical or push-on joints conforming to the latest revision of AWWA Spec. C-111 or EMWD standard drawings. Ductile Iron Pipe Class 2 (ANSI Thickness Class 52) may be used in lieu of Cast Iron Pipe.
- D. <u>Portland Cement Concrete</u>. All concrete shall meet the requirements of the Detailed Provisions of the District standard specifications, except that only Type V or Type II Portland Cement shall be used.
- E. <u>Portland Cement Mortar</u>. All cement mortar used for construction purposes shall consist of one (1) part Portland Cement (Type V or Type II) to two (2) parts of silica sand by volume and moistened with sufficient water to permit placing, buttering, caulking or coating without crumbling, unless otherwise approved by the Engineer.
- F. <u>Manholes</u>. All manholes, covers, frames and steps shall meet the requirements of the Detailed Provisions of the District standard specifications, and of the District standard drawings. One-piece cone and shaft will not be accepted.

Manhole stub-outs shall be included in manhole installations, and shall be of vitrified clay pipe of the size designated on the drawings. All stub-outs shall be plugged for future connection, with neoprene stoppers or approved equal.

Manhole frames and covers will be furnished by the Contractor upon prior approval by the District of shop drawings. Such prior approval by the District shall in no way nullify the District's right to accept or reject any individual unit as furnished or as installed.

### **PART 3 - EXECUTION**

### 3.01 INSTALLATION OF PIPE

Installation of pipe shall start at the low end of each section and proceed upgrade. All bell and spigot pipe shall be laid with the bell end upgrade. Assembly of all types of pipe shall be done in strict conformance with the requirements of the pipe manufacturer.

Pipe shall be accurately laid to alignment and grade shown on the drawings or established by the Engineer. Where grade stakes are provided with which to establish the proper pipeline grade, pipe shall be laid to grade within a tolerance of 0.02', or 0.05' cumulative deviation from elevations set at 100' stations.

Sags, or standing water in pipe, shall meet the following criteria:

	Does not Comply	Does not Comply
	with Specifications	with Specifications
Complies with	Resulting in	and Reconstruction
Specification	No Payment	is Required
1/2" or less	greater than 1/2"	greater than 1"
1/2 01 1633	greater than 1/2	greater than I
sag	sag	sag

It shall be the Contractor's responsibility to prove to the Engineer's satisfaction that sags do not exceed the limits stated. Lines must be replaced if visual measurements and documentation cannot be provided.

If standing water depth in the sag exceeds the value listed under "No Payment", then to compensate for anticipated higher than average pipeline operation and maintenance cost, no payment will be made for construction. The nonpayment amount will include all construction costs including such items as excavation, pipe installation, backfilling, resurfacing, etc., for the length of standing water that exceeds the value for "No Payment".

Due to unacceptably high operation and maintenance costs and poor system reliability, pipelines with sag depths exceeding those listed for "Reconstruction is Required" will be rejected. Reconstruction of the entire length of standing water plus 20 feet on each side of the standing water will be required. Damaged pipe must be removed and not reused.

- A. <u>Bedding</u>. All pipes shall be laid in a bed prepared by hand work, dug true to line and grade, to furnish a true and firm bearing for the pipe throughout its entire length. Adjustment of pipes to lines and grade shall be made by scraping away or filling in and tamping material under the body of the pipe throughout its entire length, and not by blocking or wedging. Where a hand-shaped trench bottom conforming to barrel of the pipe is not available or practical, Class "C" bedding shall be utilized below the pipe to a depth of one-eighth (1/8) the outside diameter of the pipe, but not less than 4".
- B. <u>Bell Holes</u> shall be provided at the ends of each pipe length, of sufficient size to permit making up the particular type of joint being used.
- C. <u>Alignment</u>. Pipes shall be laid in accurate conformity with the prescribed lines and grades, which alignment shall be obtained by plumbing and measuring from a tightly stretched wire or line running parallel with the flow line grade and supported over the centerline of the sewer by batterboards or bars accurately placed and firmly fastened in place across the trench; or by some other comparable method acceptable to the Engineer.

Alternate use of commercial LASER grade setting systems in lieu of string lines specified herein are acceptable when the following requirements and conditions are met:

The Contractor shall have the responsibility of providing an instrument operator who is qualified and trained in the operation of the Laser and said operator must adhere to the provisions of the State of California Construction Safety Orders issued by the Division of Industrial Safety. Attention is particularly directed to Section 1516, and 1800 through 1801, of said Orders for applicable requirements.

All LASER control points shall be established bench marks or construction off-set stakes identified on cut sheets and set in the field for the work. LASER set up points shall be on these control points or on points set directly from them by instrument.

Pipe alignment shall not deviate from that shown on the plans by more than 3/4 pipe diameter, nor shall it change in alignment more than 2 inches in 20 feet.

After each length of pipe has been laid to line and grade, it shall be jointed to the preceding section as hereinafter specified, and after said jointing procedure has commenced, there shall be no movement of the pipe whatsoever in subsequent operations.

D. <u>Pipe Cleaning</u>. Before each new length of pipe is placed, the interior of the preceding pipe shall be carefully cleaned of all dirt and debris. At all times when the work of installing pipe is not in progress, all openings into the pipe and the ends of the pipe in the trench shall be tightly closed to prevent entrance of animals and foreign materials.

The Contractor shall take all necessary precautions to prevent the pipe from floating due to water entering the trench from any source, shall assume full responsibility for any damage due to this cause and shall at his own expense restore and replace the pipe to its specified condition and grade if it is displaced due to floating.

### 3.02 LATERALS AND CLEAN-OUTS

Laterals and clean-outs shall be constructed at the points indicated on the plans, and in accordance with the standard drawings. Connections of house laterals to sewer mains shall be either wye or tee type connections as shown on EMWD standard drawings except that only one type shall be used universally throughout the project.

Wye branches shall be laid with the axis of the "Y" entering the main sewer at an angle above the horizontal axis of said main, unless specifically called out otherwise on the plans or in the Special Conditions, but, unless specifically called out otherwise, this angle shall not exceed 45°.

Where tee type connections of house laterals to sewer mains are selected in accordance with the requirements, the Contractor shall provide a 1-foot long section of lateral sewer pipe out of the tee-type branch.

Wherever any service connection is to be temporarily blanked off, it shall be plugged with a terra cotta cover secured and made watertight with cement mortar.

Lateral connections to existing mains shall be made pursuant to the provisions of the appropriate standard drawing for saddle connection to the existing main pipe material.

### 3.03 MANHOLES

Manholes shall be constructed in the locations and to the dimensions as shown on the drawings. Cast-in-place concrete shall conform to the requirements set forth in Section "Portland Cement Concrete" in these specifications. Pre-cast units shall be assembled accurately with full-bed mortar joints.

Unless otherwise shown on the drawings, the sewer pipe shall be laid continuously through the location of the manhole. After the manhole has been constructed, the open channel shall be formed by splitting the pipe and removing the top half. If the open channel cannot be formed in this manner, it shall be formed of concrete with the depth equal to the diameter of the sewer pipe. The floor of the manhole shall slope at least 2" from the sides of the manhole to the open channel.

When completed, the top of the manhole cover shall be accurately brought to the elevation called for on the drawings, or if no elevation is indicated, it shall be brought flush with the surface of the surrounding ground or pavement. The manholes shall be constructed so that there is not more than 19" of throat section between the top of the cone and the top of the frame.

When located in roadway subgrades, manholes shall be constructed up to the proper elevation preparatory to street paving, and temporarily covered with planks or steel plates. After paving operations have been completed the temporary covers shall be removed and the frames and covers installed flush with pavement grade.

### 3.04 CLEANING SEWER LINES

All sanitary sewer mains and laterals shall be flushed with water and "balled" or cleaned by acceptable method prior to testing to ensure that all dirt, debris, and obstructions are removed. This work must be performed in the presence of and to the satisfaction of the Engineer, and the Contractor shall notify the Engineer at least one (1) working day in advance of starting the cleaning work.

The Contractor shall, following backfill compaction and line cleaning provide:

- A. 3/8" minimum pull ropes from manhole to manhole.
- B. Equipment and traffic control to assist in the T.V. inspection performed by district's subcontractor.

### 3.05 LEAKAGE TESTS

All sanitary sewers shall be tested for tightness after they and all appurtenances have been completed, backfilled (except for test tees) and compacted, and are ready for service. In shallow systems, leakage testing shall follow placement of road base material. Tests shall be made on each section, including manholes, from one manhole or test tee to the next, unless grades are flat enough to permit testing two or more sections at one time.

The method of required test (water test or air test) shall be determined by the Inspector.

- A. <u>Preparation for Tests</u>. Each section of sewer, including house laterals, between successive manholes shall be tested by closing the lower end of the section to be tested, the inlet sewer of the upper manhole, and the ends of house laterals with stoppers, and filling the pipe and manhole with water to a level of 4' above the invert of the open sewer in the upper terminal. After the section has been filled, it shall be allowed to stand for a sufficient length of time to allow the pipe to absorb what water it will, prior to making the leakage test described in the following paragraphs (<u>Water Test</u> and <u>Air Test</u>). This period of time for absorption of water shall not be less than 30 minutes nor greater than 24 hours.
- B. Test Procedure and Allowable Leakage.
  - 1. <u>Water Test</u>. The leakage test shall consist of measuring the quantity of water required to maintain the water level at the elevation prescribed in the above paragraph for a period of one (1) hour. The water used in the test shall be measured through a meter or by other means satisfactory to the Engineer. The allowable leakage shall be computed from the following formula:

E = 0.0015 DL/h

Where E = allowable leakage in gallons

D = inside diameter of the pipe in inches

L = length of line being tested in feet

h = difference in elevation (in feet) between the water surface in the upper manhole and the invert of the pipe in the lower manhole

If the leakage during the test period exceeds the allowable leakage, the sewer line shall be overhauled and, if necessary, relaid until the joints hold satisfactorily under the test.

- 2. <u>Air Test</u>. Installed pipeline shall be field tested in accordance with the air test specified in the National Clay Pipe Institute 1967 Supplement to Engineering Manual, and its supplementary tables contained in the NCPI publication entitled "Low Pressure Air Test for Sanitary Sewers (Procedures and Tables)." Isolation of defects by air test shall be the Contractor's responsibility to perform; however, if performed by the District or its agent, they shall be performed at the Contractor's expense.
- C. <u>Alternate Infiltration Test</u>. If excessive groundwater is encountered in the construction of a section of the sewer, the test for leakage previously described shall not be used. The end of the sewer at the upper structure shall be closed sufficiently to prevent the entrance of water and pumping of groundwater shall be discontinued for at least three (3) days, after which the section shall be tested for infiltration.

The infiltration into each individual reach of sewer between adjoining manholes shall not exceed 100 gallons per inch of inside diameter of sewer per 24 hours per mile. Infiltration in excess of this amount shall be reduced to a quantity within the specified amount before the sewer will be accepted. In any case, the Contractor shall stop any individual leaks that may be observed.

Unless otherwise specified, infiltration will be measured through a meter or by other means satisfactory to the Engineer.

D. Manhole Leakage. Should an initial test show excessive leakage in a section of line, it is permissible to draw off the water of a water test and test the manhole that contained water. This test shall be made by plugging all openings in the manhole, filling same with water to the same elevation as used for the initial test, and checking the loss in a one hour period. The leakage so determined may be deducted from the total leakage in the section of pipe initially tested. If, in the opinion of the Engineer, the manhole leakage thus determined is excessive, the Contractor shall waterproof the interior of the manhole by applying a coating of grout or an approved waterproofing material. Excessive leakage is defined to be 50 gallons per hour when filled to the top of the barrel sections (not including cone or grade rings). Shallow rectangular manholes shall be filled to the top of the manhole sections (not including grade rings), with 50 gallons per hour leakage allowed.

### 3.06 SEWER PIPE REPAIRS

Sewer pipe leakage in excess of the allowable maximum shall be corrected by repairs acceptable to the Engineer, and retesting as required. Mere sealing of leaks shall not be an acceptable repair.

### 3.07 LATERAL MARKERS

It shall be required of the Contractor to place the required markers at the end of each lateral and to also return after curb construction to place the required mark in the face of the curb. An "L" may be used in place of the required "S" mark in the curb face.

### **END OF SECTION 02761**

Furnish & Install Vitrified Clay Sewer Pipe System Section 02761 – 12

[PAGE LEFT INTENTIONALLY BLANK]

### SPECIFICATIONS - DETAILED PROVISIONS Section 02762 - Furnish & Install Plastic Sewer System

### CONTENTS

PART 1 -	GENERAL	1
1.01	DESCRIPTION	
1.02	RECORDS	1
1.03	CARE & HANDLING	1
1.04	JOB CONDITIONS	2
1.05	PAYMENT	
1.06	GUARANTEE	4
PART 2 -	PRODUCTS & MATERIALS	
2.01	MATERIALS FURNISHED BY CONTRACTOR	4
PART 3 -	EXECUTION	ε
3.01	INSTALLATION OF PIPE	
3.02	MANHOLES	
3.03	CLEANING SEWER LINES	
3.04	MANDREL TEST OF ABS & PVC PIPE	11
3.05	LEAKAGE TESTS	
3.06	SEWER PIPE REPAIRS	14
3.07	LATERAL MARKERS	14

Rev: 05/28/10

### SECTION 02762 FURNISH & INSTALL PLASTIC SEWER SYSTEM

### **PART 1 - GENERAL**

### 1.01 DESCRIPTION

The Contractor shall furnish all labor, material, tools, and equipment required for the complete construction of pipelines, manholes, clean-outs, and other allied structures and appurtenances as stated on the Bidding Sheets, shown on the Contract Drawings, and specified herein, all within the time as stated in the Contract Documents.

These provisions establish the requirements for the use of plastic pipe (i.e., ABS, PVC, and ABS and PVC Composite pipe) for house lateral and main line sewer construction. Use is limited to those projects which specify or indicate plastic sewer pipe as an alternate.

Plastic pipe may only be used where indicated on plans approved by the District. Where plastic pipe is used, one type shall be used between consecutive manholes and shall include the house laterals in that system. When pipe and fittings are fabricated by the same manufacturer, contractor will not be allowed to use fittings from other manufacturers. ABS solid wall pipe shall be used for laterals with ABS and PVC Composite pipe systems. Plastic laterals may be used with clay pipe main except those mains subject to industrial flows, as determined by the Engineer.

Plastic pipe shall not be used for curved sewers which are 12" diameter or larger. Plastic pipe shall not be used for sewers serving industrial areas, or areas that, in the opinion of the District, are likely to be rezoned to industrial zones.

Refer to Section 02201 of the District's standard specifications for requirements relating to Construction methods and Earthwork and Section 02221 for requirements relating to Trenching, Backfilling and Compacting.

### 1.02 RECORDS

A true and accurate record of the location of all wye or tee branches, laterals, clean-outs, and other connections and appurtenances shall be kept by the Contractor, and such record shall be furnished to the Engineer prior to, or immediately upon, completion of the work. The location of the end of all laterals and main stub-outs shall be shown at ground surface by a marker approved by the Engineer.

### 1.03 CARE & HANDLING

Pipe shall be stored at the jobsite in unit packages provided by the manufacturer. Caution shall be exercised to avoid compression, damage or deformation to bell ends of the pipe. If pipe is to be exposed to direct sunlight for more than 14 days, pipe must be covered with an opaque material while permitting adequate air circulation above and around the pipe to prevent excessive heat accumulation.

If pipe is strung along trench prior to installation, string only pipe to be used within a 24-hour period; all pipe is to be laid on a flat surface. The interior as well as all sealing surfaces of pipe, fittings, and other accessories shall be kept free from dirt and foreign matter. Gaskets shall be protected from excessive exposure to heat, direct sunlight, ozone, oil and grease. Solvent cement when used shall be stored in tightly sealed containers away from excessive heat.

### 1.04 JOB CONDITIONS

The Contractor shall familiarize himself and comply with all applicable state, county and municipal rules and regulations pertaining to sanitation, fire protection and safety, and all provisions of the Contract Documents.

### 1.05 PAYMENT

- A. <u>Measurement For Payment</u>. Quantities for installation of sewer pipe, manholes, and other appurtenances on District-administered contracts shall be measured for payment as specified herein:
  - 1. <u>Main Sewer Lines</u> will be measured in place along the horizontal centerline of the pipe by the linear foot. The measurement will be continuous through all wye branches, fittings, and manholes, except that said measurement will be taken to the center only of manholes where sewer lines terminate.
  - 2. <u>Laterals</u> will be measured in place along the horizontal centerline of the pipe by the linear foot from the centerline of the main line sewer to the end of the lateral as shown on the construction drawings.
  - 3. <u>Clean-outs</u> will be measured on the basis of each clean-out installed, including wye branch, riser, screw plug, and box with cover.
  - 4. <u>Manholes</u> will be measured on the basis of each manhole completely installed, including required stub-outs.
  - 5. <u>Special Bedding</u> will be measured on the basis of the cubic yards of special bedding required to bring the bedding up to grade for the trench size excavated up to the maximum size of trench allowable under these specifications. No allowance will be made for over-excavation except as directed by the Engineer.
  - 6. <u>Bore Casing</u> will be measured on the basis of horizontal centerline distance and shall include all excavation, furnishing and placement of casing, furnishing and placement of all required backpacking and grouting around casing, backfilling within casing, pipe bracing, restoration of surfaces, and all labor and material for a finished job. Furnishing and installation of pipe within casing shall be included in pipeline measurement.

- 7. <u>Paving</u> will be measured as a part of project causing removal and/or replacement of paving, except as otherwise specified on the Bidding Sheets.
- B. <u>Payment</u>. Payment for quantities of sewer pipe and manholes will be paid in the manner described herein below. No additional compensation will be paid above the unit bid price for changes in quantities.

Requests for partial payments will not be approved if the record drawings and revised Construction Progress Schedule and bar chart are not kept current, an request for final payment will not be approved until the completed record drawings, showing all variations between the work "as-constructed" and as originally shown on the contract drawings or other contract documents, has been delivered to the District.

1. Sewer Pipe. Quantities of main sewer pipe and laterals measured as stated above and accepted, will be paid for at the respective unit bid prices per horizontal linear foot for the several kinds and sizes of pipe, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools, and equipment necessary to complete the work in place, including pipe, wye branches, fittings, clean-outs, appurtenances, excavation, backfill, imported select granular backfill, special bedding, cradles or encasements, laterals where required, testing, removal and restoration of pavements, curbs, gutters and sidewalks, and disposal of surplus earth and rock spoil. Payment for pipe in place shall be further broken down based upon the Contractor's submittal under Section F-10 of these specifications, as concurred by the Engineer, but not to exceed in the ordinary project the following percentages of the linear foot price stated on the Bidding Sheet:

Trench excavation	10%
Pipe laid in place and shaded	65%
Trench backfilled and backfill compacted	20%
Testing and clean-up, exclusive of pavement replacement	5%

2. Wye or Tee Branches. Payment for quantities of wye or tee branches and 1/8 bends shall be included in the payment for the unit bid prices for sewer pipe, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools, and equipment necessary to complete the work in place, including wye branches only or wye branches plus 1/8 bends or short pipe sections as applicable, and no additional payment shall be made therefore.

- 3. <u>Clean-outs</u>. Payment for quantities of clean-outs measured as stated above and accepted will be paid for at the unit bid price stated on the Bidding Sheets, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools and equipment necessary to complete the work in place, including wye branch, riser, screw plug, and box with cover, and no additional payments will be made therefore.
- 4. <u>Manholes</u>. Quantities of manholes measured as stated above and accepted, will be paid for at the respective unit bid prices for the sizes of manholes stated on the Bidding Sheets, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools and equipment necessary to complete the work in place, including concrete base, manhole rings and tops, drop manhole inlets and supports, mortar, manhole frames and covers, stubs, earthwork, testing, removal and restoration of pavement, and disposal of surplus earth.
- 5. <u>Special Bedding</u>. Quantities of special bedding measured as stated above and accepted, will be paid for at the stipulated cost price, or the respective unit bid price for the quantities as stated on the Bidding Sheets, which price shall constitute full compensation for all labor, materials, and equipment necessary to complete the work in place, including the special bedding material.
- 6. <u>Bore Casing</u>. Payment for bore casing in place measured as stated above shall be made as specified on the Bidding Sheets.
- 7. <u>Paving</u>. Payment for quantities of paving measured as stated above and accepted shall be included in the unit bid price for pipeline. Work includes removal and/or restoration of paving and all earthwork, and no additional compensation will be made therefore, except as otherwise provided on the Bidding Sheets.

### 1.06 GUARANTEE

All work, materials, and equipment shall be guaranteed for the periods of time set forth elsewhere in the Contract Documents for general guaranty or warranty.

### **PART 2 - PRODUCTS & MATERIALS**

### 2.01 MATERIALS FURNISHED BY CONTRACTOR

- A. <u>Acrylonitrile-Butadiene-Styrene (ABS)</u> solid wall pipe shall meet the requirements of ASTM designation D-2751, SDR 23.5 or 35.
- B. <u>Polyvinyl Chloride (PVC)</u> Plastic Pipe. PVC solid wall pipe shall meet the requirements of ASTM designation D-3034, SDR 35.

- C. <u>Pipe Jointing</u> for the various types of plastic shall be as follows:
  - 1. PVC Pipe Gasketed Joint Assembly. The assembly of the gasketed joint should be performed as recommended by the pipe manufacturer. The elastomeric gaskets may be supplied separately in cartons or prepositioned in the bell joint or coupling at the factory. When gaskets are color coded, be sure to consult the pipe manufacturer or his literature for the significance. In all cases, clean the gaskets, the bell or coupling interior, especially the groove area (except when gasket is permanently installed) and the spigot area with a rag, brush or paper towel to remove any dirt or foreign material before the assembling.

    Inspect the gasket, pipe spigot bevel, gasket groove, and sealing surfaces for damage or deformation. When gaskets are separate, use only gaskets which are designed for and supplied with the pipe. Insert them as recommended by the manufacturer.

Lubricant should be applied as specified by the pipe manufacturer. Bacterial growth, damage to the gaskets or the pipe, may be promoted by use of nonapproved lubricants. Use only lubricant supplied by the pipe manufacturer. After lubrication, the pipe is ready to be joined. Good alignment of the pipe is essential for ease of assembly. Align the spigot to the bell and insert the spigot into the bell until it contacts the gasket uniformly. Do not swing or "stab" the joint; that is, do not suspend the pipe and swing into the bell. When field-cut is necessary, a square cut is required. Use a factory-finished beveled end as guide for proper bevel angle and depth of bevel plus distance to the insertion reference mark.

- PVC Solvent-Cemented Joint Assembly. Solvent-cemented joints should be made in accordance with manufacturer's recommendations or in accordance with ASTM D-2855, Standard Recommended Practice for Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.
- 3. ABS Pipe Joint Assembly. Solvent-welded jointing of ABS pipe shall be in accordance with the manufacturer's printed instructions which shall be furnished to the Engineer. Joint solvent cement shall be an ABS cement conforming to ASTM D-2235. The ends of ABS Composite Pipe shall be thoroughly coated with solvent cement. All safety precautions prescribed by the manufacturer in use of solvent cement are to be observed. Gaskets observed shall conform to the requirements of the manufacturer's pipe supplied.
- D. <u>Portland Cement Concrete</u>. All concrete shall meet the requirements of the Detailed Provisions of the District standard specifications, except that only Type V or Type II Portland Cement shall be used.

- E. <u>Portland Cement Mortar</u>. All cement mortar used for construction purposes shall consist of one (1) part Portland Cement (Type V or Type II) to two (2) parts of silica sand by volume and moistened with sufficient water to permit placing, buttering, caulking or coating without crumbling, unless otherwise approved by the Engineer.
- F. <u>Manholes</u>. All manholes, covers, frames and steps shall meet the requirements of the Detailed Provisions of the District standard specifications, and of the District standard drawings. One-piece cone and shaft will not be accepted.

Manhole stub-outs shall be included in manhole installations, and shall be of clay pipe of the size designated on the drawings. All stub-outs shall be plugged for future connection, with neoprene stoppers or approved equal.

Manhole frames and covers will be furnished by the Contractor upon prior approval by the District of shop drawings. Such prior approval by the District shall in no way nullify the District's right to accept or reject any individual unit as furnished or as installed.

G. <u>Manhole Connections</u>. Connections of plastic sewer pipe to a manhole shall be watertight. Concrete manhole connections shall be "O" ring type produced from elastomeric compound or prefabricated manhole waterstop, grouted or locked into the manhole wall, the type to be approved by the Engineer. Additional requirements may be imposed by District for manhole connections in projects constructed in areas of high or potentially high ground water.

#### **PART 3 - EXECUTION**

#### 3.01 INSTALLATION OF PIPE

Installation of pipe shall start at the low end of each section and proceed upgrade. All bell and spigot pipe shall be laid with the bell end upgrade. Assembly of all types of pipe shall be done in strict conformance with the requirements of the pipe manufacturer. Curved sewers shall not be constructed of plastic pipe.

Pipe shall be accurately laid to alignment and grade shown on the drawings or established by the Engineer. Where grade stakes are provided with which to establish the proper pipeline grade, pipe shall be laid to grade within a tolerance of 0.02', or 0.05' cumulative deviation from elevations set at 100' stations.

Sags, or standing water in pipe, shall meet the following criteria:

	Does not Comply	Does not Comply
	with Specifications	with Specifications
Complies with	Resulting in	and Reconstruction
Specification	No Payment	is Required
	·	
1/2" or less	greater than 1/2"	greater than 1"
sag	sag	sag

If standing water depth in the sag exceeds the value listed under "No Payment", then to compensate for anticipated higher than average pipeline operation and maintenance cost, no payment will be made for construction. The nonpayment amount will include all construction costs including such items as excavation, pipe installation, backfilling, resurfacing, etc., for the length of standing water that exceeds the value for "No Payment".

Due to unacceptably high operation and maintenance costs and poor system reliability, pipelines with sag depths exceeding those listed for "Reconstruction is Required" will be rejected. Reconstruction of the entire length of standing water plus 20 feet on each side of the standing water will be required. Damaged pipe must be removed and not reused.

A. <u>Bedding</u>. All pipes shall be laid in a bed prepared by hand work, dug true to line and grade, to furnish a true and firm bearing for the pipe throughout its entire length. Adjustment of pipes to lines and grade shall be made by scraping away or filling in and tamping material under the body of the pipe throughout its entire length, and not by blocking or wedging. Where a hand-shaped trench bottom conforming to barrel of pipe is not available or practical, Class "C" bedding shall be utilized below the pipe to a depth of one-eighth (1/8) the outside diameter of the pipe, but not less than 4".

The flexibility of plastic pipe may cause a possible problem in maintaining line and grade. Therefore, special care must be taken in the preparation of the subgrade and in the placement of bedding to ensure that the pipe is laid true to line and grade as required in this specification.

Plastic pipe shall be bedded as shown in the following table:

Type of Pipe	Depth of Cover	Bedding Required
Solid Wall (ABS & PVC) 4" to 15" size	0' to 20'	Crushed rock envelope Per SB-157, Class "BB"
	greater than 20'	Special Design
ABS & PVC Composite	less than 4'	Encasement per SB-157

Type of Pipe	Depth of Cover	Bedding Required
8" to 15" size		No. 2
or		
ABS Solid Wall SDR 23.5, 4"	4' to 9'	SB 157, Class "D"
to 6" diameter	9' to 20'	Crushed rock bedding to spring line per SB-157, Class "B"
	20' to 30'	Encasement per SB-157 No. 2
	greater than 30'	Special Design

- B. <u>Bell Holes</u> shall be provided at the ends of each pipe length, of sufficient size to permit making up the particular type of joint being used.
- C. <u>Alignment</u>. Pipes shall be laid in accurate conformity with the prescribed lines and grades, which alignment shall be obtained by plumbing and measuring from a tightly stretched wire or line running parallel with the flow line grade and supported over the centerline of the sewer by batterboards or bars accurately placed and firmly fastened in place across the trench; or by some other comparable method acceptable to the Engineer.

Alternate use of commercial LASER grade setting systems in lieu of string lines specified herein is acceptable when the following requirements and conditions are met:

- 1. The Contractor shall have the responsibility of providing an instrument operator who is qualified and trained in the operation of the LASER and said operator must adhere to the provisions of the State of California Construction Safety Orders issued by the Division of Industrial Safety. Attention is particularly directed to Section 1516, and 1800 through 1901, of said Orders for applicable requirements.
- 2. All LASER control points shall be established bench marks or construction off-set stakes identified on cut sheets and set in the field for the work. LASER set up points shall be on these control points or on points set directly from them by instrument.
- 3. Pipe alignment shall not deviate from that shown on the plans by more than 3/4 pipe diameter, nor shall it change in alignment more than 2 inches in 20 feet.

- 4. After each length of pipe has been laid to line and grade, it shall be jointed to the preceding section as hereinafter specified, and after said jointing procedure has commenced, there shall be no movement of the pipe whatsoever in subsequent operations.
- D. <u>Pipe Cleaning</u>. Before each new length of pipe is placed, the interior of the preceding pipe shall be carefully cleaned of all dirt and debris. At all times when the work of installing pipe is not in progress, all openings into the pipe and the ends of the pipe in the trench shall be tightly closed to prevent entrance of animals and foreign materials.

The Contractor shall take all necessary precautions to prevent the pipe from floating due to water entering the trench from any source, shall assume full responsibility for any damage due to this cause and shall at his own expense restore and replace the pipe to its specified condition and grade if it is displaced due to floating.

E. <u>Laterals and Clean-outs</u> shall be constructed at the points indicated on the plans, and in accordance with the standard drawings. Connections of house laterals to sewer mains shall be made with factory-molded wye or tee connections as shown on EMWD standard drawings, <u>except that only one type shall be used universally throughout the project</u>.

Wye or tee branches shall be laid with the axis of the "Y" or "T" entering the main sewer at an angle above the horizontal axis of said main, unless specifically called out otherwise on the plans or in the Special Conditions, but, unless specifically called out otherwise, this angle shall not exceed 45°.

Whenever any service connection is to be temporarily blanked off, it shall be plugged with a cover or plug recommended by the manufacturer of the pipe.

Lateral connections to existing mains shall be made pursuant to the provisions of the appropriate standard drawing for saddle connection to the existing main pipe material. All sewers of this project are new sewers. Accordingly, laterals installed by saddle connections as shown on Std. Dwg. SB-176 and will be allowed only where unanticipated laterals are added after the sewer main is laid past the point of connection. In such case the already laid sewer main is shown on the standard drawing as "existing sewer main."

F. New Sewer Laterals on Existing Plastic Main. The required excavation and cleaning of main surfaces for a tap and saddle shall be performed by the Contractor and when such taps are installed by District forces, the Contractor shall have the additional materials and equipment at the jobsite as follows: barricades; proper pipe; standard bedding material as specified in these specifications; and a ladder long enough to extend two-and-one-half (2-1/2) feet above the top of the excavation. The excavation shall provide a minimum clearance of 3" under and 6" on each side of the main sewer for a distance of 12" each way along the main from the point of connection. The outer surface of the main in this exposed area shall be thoroughly cleaned.

New sewer laterals on existing vitrified clay pipe mains subject to commercial or industrial flows shall be constructed of vitrified clay pipe in accordance with the requirements for vitrified clay pipe.

The excavation above the main, for the tap working area, shall be a minimum of 2' in width without under-cut sides and shall be properly shored. Before the tap is made, the Contractor shall have sufficient standard bedding material at the site of the work to adequately backfill under the saddle to support it. No backfill shall be placed on the saddle fitting within one-half (1/2) hour after the completion of the work by District forces. If the Contractor breaks or otherwise damages the main while excavating for the tap, he shall notify the District and the District shall make repairs as necessary at the expense of the Contractor.

#### 3.02 MANHOLES

Manholes shall be constructed in the locations and to the dimensions as shown on the drawings. Cast-in-place concrete shall conform to the requirements set forth in Section "Portland Cement Concrete" in these specifications. Pre-cast units shall be assembled accurately with full-bed mortar joints.

Unless otherwise shown on the drawings, the sewer pipe shall be laid continuously through the location of the manhole. After the manhole has been constructed, the open channel shall be formed by cutting the pipe and removing the top half. If the open channel cannot be formed in this manner, it shall be formed of concrete with the depth equal to the diameter of the sewer pipe. The floor of the manhole shall slope at least 2" from the sides of the manhole to the open channel.

When completed, the top of the manhole cover shall be accurately brought to the elevation called for on the drawings, or if no elevation is indicated, it shall be brought flush with the surface of the surrounding ground or pavement. The manholes shall be constructed so that there is not more than 19" of throat section between the top of the cone and the top of the frame.

When located in roadway subgrades, manholes shall be constructed up to the proper elevation preparatory to street paving, and temporarily covered with planks or steel plates. After paving operations have been completed the temporary covers shall be removed and the frames and covers installed flush with pavement grade.

#### 3.03 CLEANING SEWER LINES

All sanitary sewer mains and laterals shall be flushed with water and "balled" or cleaned by acceptable method prior to testing to ensure that all dirt, debris, and obstructions are removed. This work must be performed in the presence of and to the satisfaction of the Engineer, and the Contractor shall notify the Engineer at least one (1) working day in advance of starting the cleaning work.

The Contractor shall, following backfill compaction and line cleaning provide:

- A. 3/8" minimum pull ropes from manhole to manhole.
- B. Equipment and traffic control to assist in the T.V. inspection performed by District's sub-contractor.

#### 3.04 MANDREL TEST OF ABS & PVC PIPE

Following the placement and densification of backfill and prior to the placing of permanent pavement, all main line pipe shall be cleaned and then mandrelled to measure for obstructions (deflections, joint offsets and lateral pipe intrusions). A rigid mandrel, approved by the Engineer, with a circular cross section having a diameter of at least 95% of the specified average inside diameter, shall be pulled through the pipe by hand.

Ninety-five percent (95%) of the specified average inside diameter for flexible plastic pipe taken from the appropriate ASTM requirements are as follows:

	(ASTM	lid Wall D-2751) DR	PVC Solid Wall (ASTM D-3034) SDR
Pipe Nominal Dia.	23.5	35	35
4"	3.65"	3.77"	3.77"
6"	5.45"	5.61"	5.61"
8"			7.51"
10"			9.39"
12"			11.17"
15"			13.68"

Ninety-six percent (96%) of the specified average inside diameter for semirigid plastic pipe taken from ASTM D-2680:

Pipe Nominal Dia.	ABS & PVC Composite Wall (ASTM D-2680)
8"	7.44"
10"	9.36"
12"	11.28"
15"	14.16"

Mandrel testing shall be performed 30 days or longer after installation and backfill compaction. In the event permanent pavement is placed prior to that time, mandrel-testing shall be required prior to pavement placement and a second mandrel test 30 days or longer after compaction of backfill.

The backfill shall be removed and recompacted for any section of pipe that fails the mandrel test.

Re-rounders shall not be used to correct excessive pipe deformation.

#### 3.05 LEAKAGE TESTS

All sanitary sewers shall be tested for tightness after they and all appurtenances have been completed, backfilled (except for test tees) and compacted, and are ready for service. Tests shall be made on each section, including manholes, from one manhole or test tee to the next, unless grades are flat enough to permit testing two or more sections at one time.

The method of required test (water test or air test) shall be determined by the Inspector.

A. <u>Preparation for Tests</u>. Each section of sewer, including house laterals, between successive manholes shall be tested by closing the lower end of the section to be tested, the inlet sewer of the upper manhole, and the ends of house laterals with stoppers, and filling the pipe and manhole with water to a level of 4' above the invert of the open sewer in the upper terminal. After the section has been filled, it shall be allowed to stand for a sufficient length of time to allow the manhole to absorb what water it will, prior to making the leakage test described in the following paragraphs (<u>Water Test</u> and <u>Air Test</u>). This period of time for absorption of water shall not be less then 30 minutes nor greater than 24 hours.

#### B. Test Procedure and Allowable Leakage.

1. <u>Water Test</u>. The leakage test shall consist of measuring the quantity of water required to maintain the water level at the elevation prescribed in the above paragraph for a period of one (1) hour. The water used in the test shall be measured through a meter or by other means satisfactory to the Engineer. The allowable leakage shall be computed from the following formula:

E = 0.0012 LD /H

Where E = allowable leakage in gallons

L = length of the sewer and house connections tested in feet

D = inside diameter of the pipe in inches

H = difference in the elevation (in feet) between water surface in the upper manhole and the invert of the pipe at the lower manhole.

If the leakage during the test period exceeds the allowable leakage, the sewer line shall be overhauled and, if necessary, relaid until the joints hold satisfactorily under the test.

2. <u>Air Test</u>. Installed pipeline shall be field tested in accordance with the air test required for vitrified clay pipe specified in the National Clay Pipe Institute 1967 Supplement to Engineering Manual, and its supplementary tables contained in the NCPI publication entitled "Low Pressure Air Test for Sanitary Sewers (Procedures and Tables)."

Isolation of defects by air test shall be the Contractor's responsibility to perform; however, if performed by the District or its agent, they shall be performed at the Contractor's expense.

C. Alternate Infiltration Test. If excessive groundwater is encountered in the construction of a section of the sewer, the test for leakage previously described shall not be used. The end of the sewer at the upper structure shall be closed sufficiently to prevent the entrance of water and pumping of groundwater shall be discontinued for at least three (3) days, after which the section shall be tested for infiltration. The allowable infiltration for any portion of the sewer system should not exceed 100 gallons per inch of internal pipe diameter per mile per day (4.6 l/mm/km/day), including manholes. Infiltration in excess of this amount shall be reduced to a quantity within the specified amount before the sewer will be accepted. In any case, the Contractor shall stop any individual leaks that may be observed.

Unless otherwise specified, infiltration will be measured through a meter or by other means satisfactory to the Engineer.

D. <u>Manhole Leakage</u>. Should an initial test show excessive leakage in a section of line, it is permissible to draw off the water of a water test and test the manhole that contained water. This test shall be made by plugging all openings in the manhole, filling same with water to the same elevation as used for the initial test, and checking the loss in a one hour period. The leakage so determined may be deducted from the total leakage in the section of pipe initially tested.

If, in the opinion of the Engineer, the manhole leakage thus determined is excessive, the Contractor shall waterproof the interior of the manhole by applying a coating of grout or an approved waterproofing material. Excessive leakage is defined to be 50 gallons per hour when filled to the top of the barrel sections (not including cone or grade rings). Shallow rectangular manholes shall be filled to the top of the manhole sections (not including grade rings), with 50 gallons per hour leakage allowed.

#### 3.06 SEWER PIPE REPAIRS

Sewer pipe leakage in excess of the allowable maximum shall be corrected by repairs acceptable to the Engineer, and retesting as required.

The section of damaged pipe will be cut out and the ends of the remaining pipe and replacement pipe will be prepared per Article 2.01 C.1. The closure will be made with a "closure coupling" as supplied by the manufacturer of type pipe used.

#### 3.07 LATERAL MARKERS

It shall be required of the Contractor to place the required markers at the end of each lateral and to also return after curb construction to place the required mark in the face of the curb. An "L" may be used in place of the required "S" mark in the curb face. Unless waived by the Engineer, 2" wide metallic detectable locator tape shall be placed with each lateral, approximately 6" above the pipe.

**END OF SECTION 02762** 

# SPECIFICATIONS - DETAILED PROVISIONS Section 02769 - Furnish & Install High Density Polyethylene (HDPE) Sewer Pipe System

#### CONTENTS

- GENERAL	1
DESCRIPTION	1
RECORDS	1
CARE & HANDLING	
JOB CONDITIONS	1
PAYMENT	
GUARANTEE	4
- PRODUCTS & MATERIALS	4
MATERIALS FURNISHED BY CONTRACTOR	
- EXECUTION	4
INSTALLATION OF PIPE	
CLEANING SEWER LINES	8
LEAKAGE TESTS	<u>S</u>
SEWER PIPE REPAIRS	11
	DESCRIPTION RECORDS CARE & HANDLING JOB CONDITIONS PAYMENT GUARANTEE - PRODUCTS & MATERIALS MATERIALS FURNISHED BY CONTRACTOR - EXECUTION INSTALLATION OF PIPE MANHOLES CLEANING SEWER LINES MANDREL TEST LEAKAGE TESTS

Rev: 10/16/02

## SECTION 02769 FURNISH & INSTALL HIGH DENSITY POLYETHYLENE (HDPE) SEWER PIPE SYSTEM

#### PART 1 - GENERAL

#### 1.01 DESCRIPTION

The Contractor shall furnish all labor, material, tools, and equipment required for the complete construction of pipelines, manholes, clean-outs, and other allied structures and appurtenances as stated on the Bidding Sheets, shown on the Contract Drawings, and specified herein, all within the time as stated in the Contract Documents.

These provisions establish the requirements for the use of High Density Polyethylene (HDPE) larger diameter profile wall sewer for main line sewer construction. Use is limited to those projects which specify or indicate the use of (HDPE) as an alternate.

HDPE pipe may only be used where indicated on plans approved by the District. Where HDPE pipe is used, one type of pipe shall be used between consecutive manholes. No service laterals shall be directly connected to the sewer main.

#### 1.02 RECORDS

A true and accurate record of all "as built" conditions shall be furnished to the Engineer prior to, or immediately upon, completion of the work.

#### 1.03 CARE & HANDLING

Pipe shall be stored at the jobsite in unit packages provided by the manufacturer. Caution shall be exercised to avoid compression, damage or deformation to bell ends of the pipe. If pipe is to be exposed to direct sunlight for more than 14 days, pipe must be covered with an opaque material while permitting adequate air circulation above and around the pipe to prevent excessive heat accumulation.

If pipe is strung along trench prior to installation, string only pipe to be used within a 24-hour period; all pipe is to be laid on a flat surface. The interior as well as sealing surfaces of pipe, fittings, and other accessories shall be kept free from dirt and foreign matter. Gaskets shall be protected from excessive exposure to heat, direct sunlight, ozone, oil and grease.

#### 1.04 JOB CONDITIONS

The Contractor shall familiarize himself and comply with all applicable state, county and municipal rules and regulations pertaining to sanitation, fire protection and safety, and all provisions of the Contract Documents.

#### 1.05 PAYMENT

- A. <u>Measurement For Payment</u>. Quantities for installation of sewer pipe, manholes, and other appurtenances on District-administered contracts shall be measured for payment as specified herein:
  - 1. <u>Main Sewer Lines</u> will be measured in place along the horizontal centerline of the pipe by the linear foot. The measurement will be continuous through all wye branches, fittings, and manholes, except that said measurement will be taken to the center only of manholes where sewer lines terminal.
  - 2. <u>Manholes</u> will be measured on the basis of each manhole completely installed, including required stub-outs.
  - 3. Special Bedding. In addition to the bedding requirements of the District's standard drawing SB-157 and the drawing bedding details, if due to conditions not anticipated by soils report or shown on construction drawings and over excavation is ordered by the engineer, the bedding will be measured on the basis of the cubic yards of special bedding required to bring the bedding up to grade for the trench size excavated up to the maximum size of trench allowable under these specifications. No allowance will be made for over-excavation except as directed by the Engineer.
  - 4. <u>Bore Casing</u> will be measured on the basis of horizontal centerline distance and shall include all excavation, furnishing and placement of casing, furnishing and placement of all required backpacking and grouting around casing, backfilling within casing, pipe bracing, restoration of surfaces, and all labor and material for a finished job. Furnishing and installation of pipe within casing shall be included in pipeline measurement.
  - 5. <u>Paving</u> will be measured as a part of project causing removal and/or replacement of paving, except as otherwise specified on the Bidding Sheets.
- B. <u>Payment</u>. Payment for quantities of sewer pipe and manholes will be paid in the manner described herein below. No additional compensation will be paid above the unit bid price for changes in quantities.

Requests for partial payments will not be approved if the record drawings and revised Construction Progress Schedule and bar chart are not kept current, and request for final payment will not be approved until the completed record drawings, showing all variations between the work "as constructed" and as originally shown on the contract drawings or other contract documents, has been delivered to the District.

1. Sewer Pipe. Quantities of main sewer pipe measured as stated above and accepted, will be paid for at the respective unit bid prices per horizontal linear foot for the several kinds and sizes of pipe, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools, and equipment necessary to complete the work in place, including pipe, wye branches, fittings, appurtenances, bore casing, excavation, backfill, imported select granular backfill, special bedding, cradles or encasements, testing, removal and restoration of pavements, curbs, gutters and sidewalks, and disposal of surplus earth and rock spoil. Payment for pipe in place shall be further broken down based upon the Contractor's submittal under Section F-10 of these specifications, as concurred by the Engineer, but not to exceed in the ordinary project the following percentages of the linear foot price stated on the Bidding Sheet:

Trench excavation	10%
Pipe laid in place and shaded	65%
Trench backfilled and backfill compacted	20%
Testing and clean-up, exclusive of pavement replacement	5%

- 2. <u>Manholes</u>. Quantities of manholes measured as stated above and accepted, will be paid for at the respective unit bid prices for the sizes of manholes stated on the Bidding Sheets, which prices and payments shall constitute full compensation for furnishing all labor, materials, tools and equipment necessary to complete the work in place, including concrete base, manhole rings and tops, drop manhole inlets and supports, mortar, manhole frames and covers, stubs, earthwork, testing, removal and restoration of pavement, and disposal of surplus earth.
- 3. Special Bedding. Quantities of special bedding measured as stated above and accepted, will be paid for at the stipulated cost price, or the respective unit bid price for the quantities as stated on the Bidding Sheets, which price shall constitute full compensation for all labor, materials, and equipment necessary to complete the work in place, including the special bedding material.
- 4. <u>Bore Casing</u>. Payment for bore casing in place measured as stated above shall be made as specified on the Bidding Sheets.
- 5. <u>Paving</u>. Payment for quantities of paving measured as stated above and accepted shall be included in the unit bid price for pipeline. Work includes removal and/or restoration of paving and all earthwork, and no additional compensation will be made therefore, except as otherwise provided on the Bidding Sheets.

#### 1.06 GUARANTEE

All work, materials, and equipment shall be guaranteed for the periods of time set forth elsewhere in the Contract Documents for general guaranty or warranty, but the minimum period will be one year from the date of the Notice-of-Acceptance.

#### PART 2 - PRODUCTS & MATERIALS

#### 2.01 MATERIALS FURNISHED BY CONTRACTOR

- A. <u>Pipe & Fittings</u>. The pipe and fittings shall conform to ASTM D-1248 and F 894 standard specification for polyethylene (PE) large diameter profile wall sewer and drain pipe and shall be nominal pipe classification as shown on the construction drawings.
- B. <u>Manholes</u>. Manholes shall conform to section 3.02 of this specification.
- C. <u>Pipe Jointing</u> shall be accomplished by gaskets bell and spigot in accordance with ASTM F 894 and the manufacturer's recommendations.
- D. <u>Portland Cement Concrete</u>. All concrete shall meet the requirements of the Detailed Provisions of the District standard specifications, except that only Type V or Type II Portland Cement shall be used.
- E. <u>Manhole Connections</u>. Manhole connections for cast-in-place, pre-cast, and polyethylene units for above and below ground water table shall be per manufacturer's recommendations. All pipe in/out of manholes shall be core-wall.

#### **PART 3 - EXECUTION**

#### 3.01 INSTALLATION OF PIPE

Installation of pipe shall start at the low end of each section and proceed upgrade. All bell and spigot pipe shall be laid with the bell end upgrade. Assembly of all types of pipe shall be done in strict conformance with the requirements of the pipe manufacturer. Curved sewers shall not be constructed of plastic pipe.

Pipe shall be placed in the trench with any elongation oriented vertically. For pipe sizes larger than 36 inches in diameter, struts must be provided and installed per the manufacturer's recommendations. However, the struts shall not cause more than 1½% vertical elongation; in no case will horizontal elongation be permitted.

Pipe shall be accurately laid to alignment and grade shown on the drawings or established by the Engineer. Where grade stakes are provided with which to establish the proper pipeline grade, pipe shall be laid to grade within a tolerance of 0.02', or 0.05' cumulative deviation from elevations set at 100' stations.

Sags, or standing water in pipe, shall meet the following criteria:

Complies with Specification	Does not Comply with Specifications Resulting in No Payment	Does not Comply with Specifications and Reconstruction is Required	
1/2" or less	greater than 1/2"	greater than 1"	

If standing water depth in the sag exceeds the value listed under "No Payment", then to compensate for anticipated higher than average pipeline operation and maintenance cost, no payment will be made for construction. The nonpayment amount will include all construction costs including such items as excavation, pipe installation, backfilling, resurfacing, etc., for the full length of standing water.

Due to unacceptably high operation and maintenance costs and poor system reliability, pipelines with sag depths exceeding those listed for "Reconstruction is Required" will be rejected. Reconstruction of the length of standing water plus 20 feet on each side of the standing water will be required. Damaged pipe must be removed and not reused.

A. <u>Bedding</u>. All pipes shall be laid in a bed prepared by hand work, dug true to line and grade, to furnish a true and firm bearing for the pipe throughout its entire length. Adjustment of pipes to lines and grade shall be made by scraping away or filling in and tamping material under the body of the pipe throughout its entire length, and not by blocking or wedging. All bedding materials must be mechanically compacted/consolidated to a minimum of 90% standard proctor or as required by the Engineer.

Bedding shall be per the bedding details shown on the plans. Crushed rock to be placed in the pipe zone in equal lifts of one foot on both sides of the pipe. The bedding operation shall not cause the pipe to have a vertical elongation of more than 1½%.

If the Engineer determines that ground water will be encountered or that the ground water is anticipated to exceed the springline of the pipe during the service life of the line, the backfill material within the pipe zone shall be approved by the Engineer and be installed at no extra cost to the District.

The flexibility of plastic pipe may cause a possible problem in maintaining line and grade. Therefore, special care must be taken in the preparation of the subgrade and in the placement of bedding to ensure that the pipe is laid true to line and grade as required in this specification.

- B. Shoring, sheeting, or trench shields shall be utilized in such a manner as to minimize disturbance of the backfill material beneath the pipe crown. Trench sheeting that extends below the crown should either be left permanently in place or consist of adequately supported steel sheets 1" (one inch) thick or less which can be extracted with minimal disturbance to the pipe embedment. Where moveable trench shields are used, the following steps shall be followed unless an alternate technique that does not disturb the pipe embedment can be demonstrated:
  - Excavation of the trench below the elevation of the pipe crown shall be done from inside of the trench shield to prevent the accumulation of loose or sloughed material along the outside of the shield. Excavation of the trench ahead of the shield at an elevation below the pipe crown is not permitted unless approved by the Engineer.
  - 2. After laying the pipe in the trench, bedding and pipe embedment shall be placed in lifts and the shield must be lifted in steps. As the shield is lifted, embedment material shall be shoveled under the shield so as to fill all voids left by the removal of the shield.

Backfill material placed under the pipe haunches shall be thoroughly shovel sliced along the length of the pipe.

Where compaction/consolidation of bedding and backfill materials is required, compact by mechanical means. Suitable mechanical means includes vibratory sleds, gasoline driven impact tampers, and air driven impact tampers or other approved means. Compact to a minimum of 90% Standard Proctor or as required by the Engineer.

Pipe shall not be subject to a roller or wheel loads until a minimum of one diameter or 36" (whichever is larger) of backfill has been placed over the top of the pipe and a hydrohammer shall not be used until a minimum depth of one diameter or 48" (whichever is larger) of backfill has been placed over the top of the pipe.

C. <u>Alignment</u>. Pipes shall be laid in accurate conformity with the prescribed lines and grades, which alignment shall be obtained by plumbing and measuring from a tightly stretched wire or line running parallel with the flow line grade and supported over the centerline of the sewer by batterboards or bars accurately placed and firmly fastened in place across the trench; or by some other comparable method acceptable to the Engineer.

Alternate use of commercial LASER grade setting systems in lieu of string lines specified herein are acceptable when the following requirements and conditions are met:

The Contractor shall have the responsibility of providing an instrument operator who is qualified and trained in the operation of the LASER and said operator must adhere to the provisions of the State of California Construction Safety Orders issued by the Division of Industrial Safety. Attention is particularly directed to Section 1516, and 1800 through 1801, of said Orders for applicable requirements.

All LASER control points shall be established bench marks or construction off-set stakes identified on cut sheets and set in the field for the work. LASER set up points shall be on these control points or on points set directly from them by instrument.

Pipe alignment shall not deviate from that shown on the plans by more than two inches in 20 feet.

After each length of pipe has been laid to line and grade, it shall be jointed to the preceding section as hereinafter specified, and after said jointing procedure has commenced, there shall be no movement of the pipe whatsoever in subsequent operations.

D. <u>Pipe Cleaning</u>. Before each new length of pipe is placed, the interior of the preceding pipe shall be carefully cleaned of all dirt and debris. At all times when the work of installing pipe is not in progress, all openings into the pipe and the ends of the pipe in the trench shall be tightly closed to prevent entrance of animals and foreign materials.

The Contractor shall take all necessary precautions to prevent the pipe from floating due to water entering the trench from any source, shall assume full responsibility for any damage due to this cause and shall at his own expense restore and replace the pipe to its specified condition and grade if it is displaced due to floating.

#### 3.02 MANHOLES

Manholes shall be constructed in the locations and to the dimensions as shown on the drawings. Cast-in-place concrete shall conform to the requirements set forth in Section "Portland Cement Concrete" in these specifications. Pre-cast units shall be assembled accurately with full-bed mortar joints. Polyethylene units shall conform to ASTM D-1248 and the manufacturer's requirements. The bottom section shall be formed to accept the pipe sizes and configurations as shown on the plans. The bottom section shall be supported by a cast-in-place base that extends from the molded shelf to a minimum of 8 inches below the bottom of the base section and shall be held in place with No. 8 bend bars. The concrete base shall extend at least 12 inches outside of the bottom section of the manhole.

Furnish & Install HDPE Sewer Pipe Section 02769 – 8

Unless otherwise shown on the drawings, the sewer pipe shall be laid continuously through the location of the manhole. After the manhole has been constructed, the open channel shall be formed by cutting the pipe and removing the top half. If the open channel cannot be formed in this manner, it shall be formed of concrete with the depth equal to the diameter of the sewer pipe.

When completed, the top of the manhole cover shall be accurately brought to the elevation called for on the drawings, or if no elevation is indicated, it shall be brought flush with the surface of the surrounding ground or pavement. The manholes shall be constructed so that there is not more than 19" of throat section between the top of the cone and the top of the frame.

When located in roadway subgrades, manholes shall be constructed up to the proper elevation preparatory to street paving, and temporarily covered with planks or steel plates. After paving operations have been completed the temporary covers shall be removed and the frames and covers installed flush with pavement grade.

#### 3.03 CLEANING SEWER LINES

All sanitary sewer mains shall be flushed with water and "balled" or cleaned by acceptable method prior to testing to ensure that all dirt, debris, and obstructions are removed. This work must be performed in the presence of and to the satisfaction of the Engineer, and the Contractor shall notify the Engineer at least one (1) working day in advance of starting the cleaning work.

The Contractor shall, following backfill compaction and line cleaning provide:

- A. 3/8" minimum pull ropes from manhole to manhole.
- B. Equipment and traffic control to assist in the T.V. inspection performed by District's sub-contractor.

#### 3.04 MANDREL TEST

Following the placement and densification of backfill and prior to the placing of permanent pavement, all main line pipe shall be cleaned and then mandrelled to measure for obstructions (deflections, joint offsets and lateral pipe intrusions). A rigid mandrel, approved by the Engineer, with a circular cross section having a diameter of at least 95.5% of the nominal inside diameter, shall be pulled through the pipe by hand.

Mandrel testing shall be performed 30 days or longer after installation and backfill compaction. In the event permanent pavement is placed prior to that time, mandrel-testing shall be required prior to pavement placement and a second mandrel test 30 days or longer after compaction of backfill.

In addition to the deflection test described above, the contractor shall deflection test the first 300-400 feet of pipe after it has been backfilled to grade in order to verify that his installation and compaction procedures are adequate to meet the requirements of the content. No additional pipe shall be installed until this test has been successfully completed.

The District, at its discretion and at the contractor's expense, will in the eleventh month after project acceptance have the pipe deflections monitored and any deflections greater than six percent (6%) of the nominal inside diameter will require the contractor to return to the jobsite, excavate, and adjust the vertical deflection to 6% or less.

Re-rounders shall not be used to correct excessive pipe deformation.

#### 3.05 LEAKAGE TESTS

All sanitary sewers shall be tested for tightness after they and all appurtenances have been completed, backfilled (except for test tees) and compacted, and are ready for service. Tests shall be made on each section, including manholes, from one manhole or test tee to the next, unless grades are flat enough to permit testing two or more sections at one time.

The method of required test (water test or air test) shall be determined by the Engineer.

- A. <u>Preparation for Tests</u>. Each section of sewer between successive manholes shall be tested by closing the lower end of the section to be tested, the inlet sewer of the upper manhole, and filling the pipe and manhole with water to a level of 2' above the soffit of the open sewer in the upper terminal. After the section has been filled, it shall be allowed to stand for a sufficient length of time to allow the manhole to absorb what water it will, prior to making the leakage test described in the following paragraphs (<u>Water Test</u> and <u>Air Test</u>). This period of time for absorption of water shall not be less than 30 minutes nor greater than 24 hours.
- B. Test Procedure and Allowable Leakage.
  - 1. <u>Water Test</u>. The leakage test shall consist of measuring the quantity of water required to maintain the water level at the elevation prescribed in the above paragraph for a period of one (1) hour. The water used in the test shall be measured through a meter or by other means satisfactory to the Engineer. The allowable leakage shall be computed from the following formula:

E = 0.0012 LD. H

Where E = allowable leakage in gallons

L = length of line being tested in feet

D = inside diameter of the pipe in inches

H = difference in elevation (in feet) between the water surface in the upper manhole and the invert of the pipe in the lower manhole If the leakage during the test period exceeds the allowable leakage, the sewer line shall be overhauled and, if necessary, relaid until the joints hold satisfactorily under the test.

 Air Test. Installed pipeline shall be field tested in accordance with the air test required for vitrified clay pipe specified in the National Clay Pipe Institute 1967 Supplement to Engineering Manual, and its supplementary tables contained in the NCPI publication entitled "Low Pressure Air Test for Sanitary Sewers (Procedures and Tables)."

Isolation of defects by air test shall be the Contractor's responsibility to perform; however, if performed by the District or its agent, they shall be performed at the Contractor's expense.

C. <u>Alternate Infiltration Test</u>. If excessive groundwater is encountered in the construction of a section of the sewer, the test for leakage previously described shall not be used. The end of the sewer at the upper structure shall be closed sufficiently to prevent the entrance of water and pumping of groundwater shall be discontinued for at least three (3) days, after which the section shall be tested for infiltration. The allowable infiltration for any portion of the sewer system should not exceed 50 gallons per inch of internal pipe diameter per mile per day (4.6 l/mm/km/day), including manholes. Infiltration in excess of this amount shall be reduced to a quantity within the specified amount before the sewer will be accepted. In any case, the Contractor shall stop any individual leaks that may be observed.

Unless otherwise specified, infiltration will be measured through a meter or by other means satisfactory to the Engineer.

D. <u>Manhole Leakage</u>. Should an initial test show excessive leakage in a section of line, it is permissible to draw off the water of a water test and test the manhole that contained water. This test shall be made by plugging all openings in the manhole, filling same with water to the same elevation as used for the initial test, and checking the loss in a one hour period. The leakage so determined may be deducted from the total leakage in the section of pipe initially tested.

If, in the opinion of the Engineer, the manhole leakage thus determined is excessive, the Contractor shall waterproof the interior of the manhole by applying a coating of grout or an approved waterproofing material. Excessive leakage is defined to be 50 gallons per hour when filled to the top of the barrel sections (not including cone or grade rings). Shallow rectangular manholes shall be filled to the top of the manhole sections (not including grade rings), with 50 gallons per hour leakage allowed.

#### 3.06 SEWER PIPE REPAIRS

Sewer pipe leakage in excess of the allowable maximum shall be corrected by repairs acceptable to the Engineer, and retesting as required.

The section of damaged pipe will be cut out and the ends of the remaining pipe and replacement pipe will be prepared per Article 2.01 C. The closure will be made with a "closure coupling" as supplied by the manufacturer of type pipe used, or alternate welding of repairs as approved by the manufacturer.

**END OF SECTION 02769** 

[PAGE LEFT INTENTIONALLY BLANK]

# SPECIFICATIONS - DETAILED PROVISIONS Section 15330 - Vitrified Clay Sewer Pipe (Plain End) (Limited to Maximum Pipe Diameter of 12")

#### CONTENTS

PART 1 - (	GENERAL	. 1
1.01	REQUIREMENT	. 1
	MEASUREMENT AND PAYMENT	
PART 2 - I	PRODUCTS	. 1
2.01	PIPE DESIGN	. 1
2.02	TOLERANCES	. 2
PART 3 - I	EXECUTION	. 2
3.01	INSPECTION	. 2
3.02	JOINT INSTALLATION	. 2
3.03	FACTORY TESTING OF RUBBER FOR SEALING COMPONENTS	. 2
3.04	LABORATORY TEST OF JOINT	. 3

Rev: 05/93

## SECTION 15330 VITRIFIED CLAY SEWER PIPE (PLAIN END) (Limited to Maximum Pipe Diameter of 12")

#### PART 1 - GENERAL

#### 1.01 REQUIREMENT

Under this specification the Contractor shall be required to furnish, deliver, unload, and string within the time specified in the contract documents, the vitrified clay sewer pipe as specified on the bidding sheets, shown on the contract drawings, and described in these specifications. The coupling shall consist of three (3) parts: a circular rubber sleeve, stainless steel compression bands with stainless steel nuts and bolts type tightening devices, and a steel or plastic shear ring.

#### 1.02 MEASUREMENT AND PAYMENT

Payment for quantities of pipe will be made at the unit prices as stated on the bidding sheets or order-to-do-work; or shall be included with the cost of furnishing and installing sewer pipe, where so stated on the bidding sheets.

#### **PART 2 - PRODUCTS**

#### 2.01 PIPE DESIGN

All pipe and rubber coupling joints shall be made in strict conformance with all requirements of the latest revision of ASTM C-700, ASTM C-425, and to the requirements of these specifications. All pipe shall be high strength vitrified clay pipe conforming to the requirements of Section 207-8 of the Standard Specifications For Public Works Construction, 1991 Edition. All joints shall be factory fabricated, with the coupling attached to one end of the pipe at the factory. All pipes shall be manufactured and tested in the United States.

The compression bands and clips shall be fabricated from stainless steel AISI Type 316 and the nuts and bolts shall be manufactured using stainless steel AISI Type 305. The shear ring shall be fabricated from stainless steel AISI Type 304, or with the approval of the Engineer, another stainless steel which is more corrosion resistant than Type 304, or approved corrosion resistant plastic.

The sleeve shall be made of a synthetic rubber which is vulcanized to form a smooth surface, free of pitting, cracks, air marks, porosity, air pockets, and which shall meet all manufacturers requirements.

All pipe and joints manufactured under these specifications shall be suitable for the conveyance of sewage.

Vitrified Clay Sewer Pipe (Plain End) Section 15330 – 2

#### 2.02 TOLERANCES

Tolerances shall conform to the requirements of the above stated specifications, and the actual cross-sectional area of the inside diameter of the pipe shall be not less than the computed cross-sectional area, based on the stated nominal diameter of the pipe.

#### **PART 3 - EXECUTION**

#### 3.01 INSPECTION

prior to testing.

The Engineer or his authorized representative shall at all times have the right to inspect the work and the materials.

#### 3.02 JOINT INSTALLATION

Before installing compression bands, the surface of the rubber sleeve shall be thoroughly wetted with a silicone base lubricant approved by the Bureau of Standards. This lubricant shall not be injurious to the rubber sleeve or steel band.

Bands installed in the plant shall be tightened to a tension equivalent to a torque of 70 pound-inches.

Plant equipment used in the installation of the bands shall be calibrated by the Bureau of Standards at least twice a year to assure correct band tension. Factory-installed joints shall be subject to testing in the field.

Bands installed in the field shall be tightened with a torque wrench set to a torque of 70 pound-inches. Torque wrenches to be used in the field shall be furnished by the pipe supplier and shall be calibrated by the Bureau of Standards at the start of each project, and weekly thereafter for the duration of the project.

3.03 FACTORY TESTING OF RUBBER FOR SEALING COMPONENTS	
All test specimens (unless otherwise specified) shall be conditioned in a mechanical convection ove	n
for seven (7) days at 110 F.	□ 5 and su
being tested. Test specimens which are exposed to various chemical and bacteriological environment	ents,
unless otherwise specified, shall be conditioned in the same manner, both before and after exposur	re,

#### 3.04 LABORATORY TEST OF JOINT

An assembled joint shall present sufficient resistance to shear loading to allow a weight of 150 pounds per inch of nominal diameter to be uniformly applied over an arc of not less than 120 and a longitudinal distance of 12" immediately adjacent to one edge of the sleeve coupling. The assembled pipe shall rest on three (3) supports. A support shall be located at each extreme end of the assembly. The third support shall be placed immediately adjacent to the coupling. The shear load shall be placed on the unsupported end of the pipe, immediately adjacent to the coupling. There shall be no visible leakage when tested with an internal hydrostatic pressure of 10 psi for 10 minutes.

The coupling for the 4" through 12" diameter pipe, inclusive, shall exhibit sufficient flexibility when jointed to allow maximum deflection of 5 in any direction. The deflected joint shall show no visible leakage when subject to the same shear load as indicated in the previous paragraph and when tested under an internal hydrostatic pressure of 10 psi for 10 minutes.

During these tests, the ends of the tested pipe shall be restrained only in the amount necessary to prevent longitudinal movement.

**END OF SECTION 15330** 

Vitrified Clay Sewer Pipe (Plain End) Section 15330 – 4

[PAGE LEFT INTENTIONALLY BLANK]

### SPECIFICATIONS - DETAILED PROVISIONS Section 15331 - Vitrified Clay Sewer Pipe (Bell & Spigot)

#### CONTENTS

PART 1 -	- GENERAL		
1.01	REQUIREMENT		
	MEASUREMENT AND PAYMENT		
	PRODUCTS		
2.01	PIPE DESIGN		
2.02	TOLERANCES		
PART 3 -	PART 3 - EXECUTION		
3.01	INSPECTION		

Rev: 01/06/06

### SECTION 15331 VITRIFIED CLAY SEWER PIPE (BELL & SPIGOT)

#### PART 1 - GENERAL

#### 1.01 REQUIREMENT

Under this specification, the Contractor shall be required to furnish, deliver, unload and string within the time specified in the Contract Documents, the vitrified clay sewer pipe as specified on the Bidding Sheets, shown on the Contract Drawings, and described in these specifications.

#### 1.02 MEASUREMENT AND PAYMENT

Payment for quantities of pipe will be made at the unit prices as stated on the Bidding Sheets or order-to-do-work; or shall be included with the cost of furnishing and installing sewer pipe, where so stated on the Bidding Sheets.

#### **PART 2 - PRODUCTS**

#### 2.01 PIPE DESIGN

All pipe and plastic gasket joints shall be made in strict conformance with all requirements of the latest revision of ASTM C700, ASTM C425, and to the requirements of these specifications. All pipe shall be high strength vitrified clay pipe conforming to the requirements of Section 207-8 of the Standard Specifications For Public Works Construction, 1991 Edition. All pipe shall be manufactured and tested in the United States.

All pipe and joints manufactured under these specifications shall be suitable for the conveyance of sewage. All joint materials shall have a strong, permanent bond to the pipe.

#### 2.02 TOLERANCES

Tolerances shall conform to the latest revision of ASTM C 700, Standard Specifications for Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated, and the Standard Specifications for Public Works Construction, section 207-8. Where the two standards are not in agreement, pipe will conform to the more restrictive requirement.

#### **PART 3 - EXECUTION**

#### 3.01 INSPECTION

The Engineer or his authorized representative shall at all times have the right to inspect the work and the materials.

Vitrified Clay Sewer Pipe (Bell & Spigot) Section 15331 – 2

[PAGE LEFT INTENTIONALLY BLANK]

### SPECIFICATIONS - DETAILED PROVISIONS Section 15333 - Cast Iron & Ductile Iron Sewer Pipe

#### CONTENTS

<b>PART 1 - R</b>	REQUIREMENT	. 1
	CAST IRON SEWER PIPE AND FITTINGS	
1.02	DUCTILE IRON PIPE	2

Rev: 08/85

### SECTION 15333 CAST IRON & DUCTILE IRON SEWER PIPE

#### **PART 1 - REQUIREMENT**

#### 1.01 CAST IRON SEWER PIPE AND FITTINGS

Cast iron sewer pipe and fittings shall conform to the latest revision of AWWA Spec. C-106, -108, or -151, with bituminous inside and outside coatings. Joints shall be mechanical or push-on joints conforming to the latest revision of AWWA Spec. C-111 or EMWD standard drawings.

Cast iron pipe shall be of the following thickness classes for the indicated pipe size and depth:

Pipe Diameter (in inches)	Depth of Cover (in feet)	ANSI Thickness Class
4"	16' and less	22
6"	16' and less	22
8"	less than 12'	22
	12' to less than 16'	23
	16'	24
10"	less than 12'	22
	12' - 16'	24
12"	less than 8'	22
	8' to less than 12'	23
	12' to less than 16'	24
	16'	25
Over 12"	Refer ANSI A21.1-1967, (AWWA C101-67), Table 1-1	

#### 1.02 DUCTILE IRON PIPE

Ductile iron pipe of the following thickness classes for the indicated pipe size and depth may be used in lieu of cast iron pipe.

Pipe Diameter (in inches)	Depth of Cover (in feet)	ANSI Thickness Class	USA Standard Thickness Class
4"	32' and less	51	1
6"	32' and less	50	Use CL. 1
8"	less than 28'	50	Use CL. 1
	28' - 32'	51	1
10"	less than 20'	50	Use CL. 1
	20' to less than 28'	51	1
	28' - 32'	52	2
12"	less than 20'	50	Use CL. 1
	20' to less than 24'	51	1
	24' to less than 32'	52	2
	32'	53	3
Over 12"	Refer ANSI		
	A21.51-1976, (AWWA		
	C151-76). Table 51.1		

**END OF SECTION 15333** 

## SPECIFICATIONS - DETAILED PROVISIONS Section 15340 - Manholes and Fittings

#### CONTENTS

PART 1 -	GENERAL	. 1
1.01	REQUIREMENT	1
1.02	MEASUREMENT AND PAYMENT	1
1.03	GUARANTEE	1
PART 2 -	PRODUCTS	. 1
2.01	MANHOLES	1
2.02	RINGS	1
2.03	TOPS	1
2.04	MANHOLE COVERS	2
2.05	MANHOLE STEPS	2

Rev: 09/16/99

### SECTION 15340 MANHOLES AND FITTINGS

#### **PART 1 - GENERAL**

#### 1.01 REQUIREMENT

Under this specification, the Contractor shall be required to furnish, deliver and unload within the time specified in the Contract Documents, the manholes and fittings as specified on the Bidding Sheets, shown on the Contract Drawings, and described in these specifications, except as otherwise approved in writing by the Engineer.

#### 1.02 MEASUREMENT AND PAYMENT

Payment for quantities of manholes will be made at the unit prices as stated on the Bidding Sheets.

#### 1.03 GUARANTEE

The Contractor shall guarantee all materials and workmanship of items furnished under these specifications to be free from defects for a period of one (1) year after final completion and acceptance of the entire contract work. The Contractor shall, at his own expense, repair or replace all defective materials or workmanship supplied by him found to be deficient with respect to any provisions of this specification.

#### **PART 2 - PRODUCTS**

#### 2.01 MANHOLES

All manhole rings, tops, and cones, as constructed in place, shall be designed for A.A.S.H.O. H-20 highway loading, and shall conform to District standard drawings and the requirements of ASTM C-478 and the following requirements.

#### 2.02 **RINGS**

All manhole rings shall be centrifugally spun or compactly vibrated in forms.

#### 2.03 <u>TOPS</u>

All manhole tops and cones shall be compactly vibrated in forms.

Manholes and Fittings Section 15340 – 2

#### 2.04 MANHOLE COVERS

All manhole covers and frames shall conform to District standard drawings and the requirements for Class 30 gray iron castings in ASTM Designation A-48, or Class 60 Ductile Iron castings in ASTM A-536. The castings shall be thoroughly cleaned and coated with commercial quality asphaltum paint. Frames and covers shall be matchmarked in pairs before delivery to the work site and must be machined matched between cover and frame to avoid rocking.

#### 2.05 MANHOLE STEPS

Manhole steps shall conform to District Standard Drawings and shall be constructed of 1/2" plain steel bar incapsulated with copolymer polypropylene plastic as approved by EMWD. Alternate to be approved by EMWD for casting-in-place.

**END OF SECTION 15340** 

## ACTION OF HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

DATE: April 17, 2018  AGENDA ITEM: Discussion and Possible Approval: HVLCSD Sewer System Management Plan (SSMP)
RECOMMENDATIONS: Approve the Sewer System Management Plan.
<b>FINANCIAL IMPACT:</b> In 2015, the District's engineering firm, Coastland Engineering was contracted to develop an SSMP for \$9,000.
<b>BACKGROUND</b> : In 2009, a draft SSMP was developed. The Regional Quality Control Board provided feedback on this plan. Based on the extent of the revision requests, the District commissioned Coastland Engineering to meet these revision requests, and update the SSMP. This updated SSMP was completed to the extent possible by Coastland. Additional information required District participation. This participation was completed in February, 2018.
Informally, Guy Childs of the Regional Water Quality Control Board has had the opportunity to review and comment on the document. He finds the District's SSMP acceptable, and that it meets all requirements.
The SSMP is being updated in accordance with "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" (SWRCB Order No. 2006-0003-DWQ) and "SSO Reporting, State Water Resources Control Board Amending Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" (SWRCB Order No. WQ 2013-0058-DWQ).
APPROVED OTHER AS RECOMMENDED (SEE BELOW)
Modification to recommendation and/or other actions:
I, Kirk Cloyd, Secretary to the Board, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular board meeting thereof held on April 17, 2018 by the following vote:
Ayes:
Noes:
Abstain:
Absent
Secretary to the Board



# HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

# SEWER SYSTEM MANAGEMENT PLAN

**APRIL 2018** 

PUBLIC DRAFT



#### **TABLE OF CONTENTS**

INTRODUCTION	4
SYSTEM OVERVIEW	4
(I) GOALS	5
A. SWRCB SSMP REQUIREMENTS	5
B. HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT GOALS	
(II) ORGANIZATION	6
A. SWRCB SSMP REQUIREMENTS	
B. LEGALLY RESPONSIBLE OFFICIAL (LRO)	
C. SSMP RESPONSIBILITIES AND CONTACT INFORMATION	
D. ORGANIZATIONAL CHART AND JOB DESCRIPTIONS	
(III) LEGAL AUTHORITY	
A. SWRCB SSMP REQUIREMENTS	11
B. REGULATIONS FOR WASTE DISCHARGE AND SEWER USE	
(IV) OPERATIONS AND MAINTENANCE	
A. SWRCB SSMP REQUIREMENTS	13
B. COLLECTION SYSTEM MAP	
C. PRIORITIZED PREVENTATIVE MAINTENANCE	
D. REHABILITATION AND REPLACEMENT PLAN	
E. CONTINGENCY EQUIPMENT AND REPLACEMENT INVENTORIES	_
(V) DESIGN AND PERFORMANCE STANDARDS	
A. SWRCB SSMP REQUIREMENTS	
B. STANDARDS FOR INSTALLATION, REHABILITATION AND REPAIR	
(VI) EMERGENCY OVERFLOW RESPONSE PLAN	
A. SWRCB SSMP REQUIREMENTS	
B. EMERGENCY OVERFLOW RESPONSE PLAN	
(VII) FATS, OILS, AND GREASE PROGRAM	
A. SWRCB SSMP REQUIREMENTS	
B. FOG PROGRAM	_
(VIII) SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN	
A. SWRCB SSMP REQUIREMENTS	
B. Infiltration and Inflow Work Plan	
(IX) MONITORING, MEASUREMENT AND PROGRAM MODIFCATIONS	23
A. SWRCB SSMP REQUIREMENTS	23
B. Monitoring, Measurement, and Program Modifications	23
(X) SSMP AUDIT	24
A. SWRCB SSMP REQUIREMENTS	24
R SSMD AUDIT	24



(XI) COMMUNICATIONS	25
A. SWRCB SSMP REQUIREMENTS	25
B. COMMUNICATIONS	25
APPENDIX A: STATE WATER RESOURCES CONTROL BOARD ORDER NO. 2006-0003-DWQ	26
APPENDIX B: SSO REPORTING, AMENDING STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR	
SANITARY SEWER SYSTEMS SWRCB ORDER NO. WQ 2013-0058-EXEC	53
APPENDIX C: DISTRICT CODE	21
APPENDIX D: DISTRICT MAP	50
APPENDIX E: SANITARY SEWER SYSTEM OVERFLOW STANDARD OPERATING PROCEDURE	51
APPENDIX F: SSO REPORTING FORM	57
APPENDIX G: "HOT SPOTS" CLEANING MAP	62
APPENDIX H. INFILTRATION AND INFLOW ASSESSMENT WORK PLAN	64



#### INTRODUCTION

The Hidden Valley Lake Community Services District (District) is a special district in southern Lake County, California, which provides potable water and wastewater collection and treatment services to an estimated population of over 7,000 people.<sup>1</sup> Bounded by State Highway 29 to the west, Putah Creek to the south, the Ranchos subdivision to the east, and undeveloped lands to the north, the District lies approximately 4.5 miles to the northeast of Middletown. Defining features of the community include a dam across Coyote Creek (a tributary to Putah Creek) and the resulting 102-acre Hidden Valley Lake, an 18-hole golf course, and the Hidden Valley Lake subdivision, a Common Interest Development.<sup>2</sup>

The District was formed in 1984 under sections 61000-61934 of the California Government Code with a five-member board of directors elected by voters residing within the District. The District was formed with the intention of providing and maintaining public improvements, namely water and sewer services to residents within its boundaries.<sup>3</sup>

The District primarily serves residential customers, with a handful of commercial customers. The District does not service any heavy industrial customers. The District currently provides sewer service to over 1500 connections.

This Sanitary Sewer Management Plan was prepared in accordance with the "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, State Water Resources Control Board Order Number 2006-0003-DWQ" (included as Appendix A) and "SSO Reporting, State Water Resources Control Board Amending Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, State Water Resources Control Board Order Number WQ 2013-0058-EXEC" (included as Appendix B). The District's Waste Discharge ID is 5A171034001.

#### SYSTEM OVERVIEW

The Hidden Valley Lake Community Services District is comprised of approximately 1882 acres of residential, agricultural, and minor commercial land use.<sup>4</sup> The wastewater collection system

<sup>&</sup>lt;sup>1</sup> This estimate is based on Census data from 2000 and 2010, assuming a constant annual growth rate.

<sup>&</sup>lt;sup>2</sup> Municipal Service Review (MSR) and Sphere of Influence (SOI) Update, 2017

<sup>&</sup>lt;sup>3</sup> Municipal Service Review of Services Provided By The Hidden Valley Lake CSD, 2005

<sup>&</sup>lt;sup>4</sup> Municipal Service Review (MSR) and Sphere of Influence (SOI) Update, 2017



consists of approximately 15 miles of gravity mains ranging from 4 to 18 inches in diameter, 8 pumping stations, and 1.5 miles of forced main.<sup>5</sup> Collected wastewater is discharged to the Hidden Valley Lake Community Services District Regional Water Reclamation Facility (RWRF), an advanced treatment plant located off of Grange Road, south of Putah Creek.<sup>6</sup> The RWRF treats an average dry weather flow of 0.350 million gallons-per-day (MDG) and is capable of treating a peak flow of 0.894 MGD.<sup>7</sup>

Raw wastewater is treated with a series of processes including mechanical screening, extended aeration and activated sludge, clarification, direct filtration, and chemical addition processes. After providing tertiary level treatment, the RWRF discharges treated effluent to a 412 acrefeet, clay-lined storage pond where it is held for golf course irrigation via 1.5 miles of reclaimed water transmission pipe. The storage pond is sized to hold effluent from the RWRF plus flows from a 1 in 100-year recurrence interval wet weather event. The following sections address each SSMP element required under SWRCB Order No. 2006-0003-DWQ and SWRCB Order No. WQ 2013-0058-EXEC.

#### (I) GOALS

#### A. SWRCB SSMP Requirements

**Appendix A, Sec. D.13.(i) Goals**: The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.

#### **B. Hidden Valley Lake Community Services District Goals**

It is the District's goal to provide quality, safe, and reliable sewer service at a reasonable cost. The District strives to provide the highest level of service to customers while maintaining the community's infrastructure in the most cost-effective manner possible. The District has developed the following goals in an effort to meet the requirements of the SSMP:

<sup>&</sup>lt;sup>5</sup> Hidden Valley Lake Community Services District Sewer System Management Plan, 2011

<sup>&</sup>lt;sup>6</sup> Coyote Valley Concept Infrastructure Plan, 2007

<sup>&</sup>lt;sup>7</sup> Hidden Valley Lake Community Services District Water Reclamation Facilities Operations and Maintenance Manual, 1996

<sup>8</sup> Ibid.



- o Continue to professionally manage, operate and maintain all parts of the wastewater collection system
- o Minimize the frequency of Sanitary Sewer Overflows (SSOs)
- o Mitigate the impact of SSOs
- o Cost effectively minimize infiltration and inflow (I/I)
- o Audit the SSMP regularly and revise as necessary to reflect changes in regulations, requirements, and new developments
- o Update the collection system questionnaire annually on the California Integrated Water Quality System (CIWQS) database.

These goals provide focus for the District to provide high quality service and to continually improve the management, operations, and maintenance of the sanitary sewer system.

#### (II) ORGANIZATION

#### A. SWRCB SSMP Requirements

#### **Appendix A, D.13.(ii) Organization**: The SSMP must identify:

- (a) The name of the responsible or authorized representative as described in Section J of this Order (SSS WDR).
- (b) The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
- (c) The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (Cal OES)).

#### B. Legally Responsible Official (LRO)

The District's Legally Responsible Officials are General Manager Kirk Cloyd and Utility Supervisor Dennis White.

#### C. SSMP Responsibilities and Contact Information

The chart below lists each section of this SSMP in order, with corresponding individuals responsible for implementing each section and their contact information.



SSMP Element	Responsible Party (Position)	Responsible Party (Name)	Phone Number	Email Address
I – Goals	General Manager	Kirk Cloyd	707-987-9201	kcloyd@hvlcsd.org
II – Organization	General Manager	Kirk Cloyd	707-987-9201	kcloyd@hvlcsd.org
III – Legal Authority	General Manager	Kirk Cloyd	707-987-9201	kcloyd@hvlcsd.org
IV – O&M Program	Utility Supervisor	Dennis White	707-533-3498	dwhite@hvlcsd.org
V – Design & Performance Provisions	Utility Supervisor	Dennis White	707-533-3498	dwhite@hvlcsd.org
VI – Overflow Emergency Response Program	Utility Supervisor	Dennis White	707-533-3498	dwhite@hvlcsd.org
VII – FOG Control Program	General Manager	Kirk Cloyd	707-987-9201	kcloyd@hvlcsd.org
VIII – System Evaluation and Capacity Assurance Plan	General Manager	Kirk Cloyd	707-987-9201	kcloyd@hvlcsd.org
IX – Monitoring, Measurement, and Program Modifications	Water Resources Specialist	Alyssa Gordon	707-987-9201	agordon@hvlcsd.org
X – SSMP Program Audits	Water Resources Specialist	Alyssa Gordon	707-987-9201	agordon@hvlcsd.org



XI – Communication	Administrative Assistant	Penny Cuadras	707-987-9201	pcuadras@hvlcsd.org

#### D. Organizational Chart and Job Descriptions

The District's organizational structure as it relates to sewer system operations is presented in the following figure. The organization chart illustrates the lines of authority within the District. Following the chart, a description of each title as it relates to the responsibilities of the sewer collection system follows.

In the event of an SSO, staff follow the Sanitary Sewer System Overflow Standard Operating Procedure (Appendix E). The Utility Supervisor is responsible for reporting SSO's, and the Utility Operator I/II and Utility Worker I/II are responsible for notifying the Utility Supervisor.

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
SSMP ORGANIZATIONAL CHART

# Board of Directors General Manager Utility Supervisor Utility Operator II Utility Operator I Utility Worker

Personnel and responsibilities are as follows:



**Board of Directors** – The executive board that oversees all operations and develops policy.

General Manager (Kirk Cloyd, 707-987-9201) – Serves as the agent of the Board of Directors in planning, directing, managing, and overseeing the services, activities, and operation of the District including, Administration, Engineering, Finance, Operations, Human Resources, Customer Service and Community Relations; Serves as Chief Executive Officer of the District ensuring that services and operations are delivered in an efficient and effective manner; implements policy decisions made by the Board of Directors; facilitates the development and implementation of District goals and objectives; and provides thorough administrative support to the Board of Directors. The General Manager is directly responsible for the Goals, Organization, Legal Authority, FOG Program, and System Evaluation and Capacity Assurance Plan elements of the SSMP.

**Utility Supervisor (Dennis White, 707-533-3498)** – Supervises and oversees the operations, maintenance and day-to-day activities of the District's water production, transmission, and storage facilities; responsible for the operation and maintenances of the District's water treatment facility, distribution system, and water quality. Supervises and oversees the operations, maintenance and day-to-day activities of the District's wastewater collection, treatment, and reclamation storage and distribution systems. Schedules maintenance and directs the activities of field staff; performs a variety of technical and administrative support functions including: Mandated reports, Federal, State and County reporting requirements, site inspections, and verification of code compliance. This role also reviews and approves SSO reports prior to transmittal to the appropriate authorities, investigates SSOs, and trains field crews. In the event of a temporary absence, the Operator II may assume some of these duties.

Water Resources Specialist (Alyssa Gordon, 707-987-9201) – Under general supervision; plans and conducts technical studies and special projects to support District operations and policy/program development; performs related duties as assigned. The Water Resources Specialist is responsible for Monitoring, Measurement, and Program Modifications for the SSMP as well as the SSMP audit process.

Utility Operator II (Sam Garcia, Norman Rogers, 707-987-9201) – Performs a variety of skilled tasks in the treatment and distribution of water and the collection and treatment of wastewater and distribution of recycle water; operates complex equipment; collects and tests water, wastewater, and recycled water samples, records and analyzes sample data and makes chemical adjustments to maintain efficient operation of the water and wastewater systems; oversees dig-ups, repairs and the installation/removal of water meters. This classification differs from the Utility Operator I in that the Utility Operator II is expected to maintain higher certifications in all aspects, performs at a higher level and assumes responsibility of the Utility Supervisor in his/her absence. In the event of an SSO, the Utility Operator II reports to the Utility Supervisor and assists in carrying out the standard operating procedure.



**Utility Operator I (Craig Shields, 707-987-9201)** — Performs a variety of skilled tasks in the treatment and distribution of water, the collection and treatment of wastewater and distribution of recycled water; operates complex equipment; collects and tests water and wastewater samples; records and analyzes sample data and makes chemical adjustments to maintain efficient operation of the water and wastewater systems; oversees dig-ups, repairs and the installation/removal of water meters. In the event of an SSO, the Utility Operator I reports to the Utility Supervisor and assists in carrying out the standard operating procedure.

**Utility Worker I/II (Harley Sells, 707-987-9201)** – Performs a variety of unskilled and skilled duties pertaining to the construction, repair and maintenance of water distribution and collection systems; maintains District facilities; installs, maintains, and repairs water service lines and meters; operates a variety of light and moderately heavy equipment. In the event of an SSO, the Utility Worker I/II reports to the Utility Supervisor and assists in carrying out the standard operating procedure.

**Administrative Staff (707-987-9201)** – The Full Charge Bookkeeper and Sr. Accounts Representatives are not directly responsible for implementation of the SSMP, but may report SSO's to the General Manager under delegation by the Utility Supervisor. The Administrative Assistant is responsible for the Communications section of this SSMP.

Any after-hours emergency is forwarded to a call center. The call center will then contact the on-call staff member, who will then respond to any after-hours emergency.



#### (III) LEGAL AUTHORITY

#### A. SWRCB SSMP Requirements

**Appendix A, D.13.(iii) Legal Authority:** Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

- (a) Prevent illicit discharges into its sanitary sewer system (examples may include infiltration and inflow (I/I), storm water, chemical dumping, unauthorized debris and cut roots, etc...);
- (b) Require that sewers and connections be properly designed and constructed;
- (c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
- (d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
- (e) Enforce any violation of its sewer ordinances.

#### **B.** Regulations for Waste Discharge and Sewer Use

The District's present ordinance governing sewers is in Ordinance No. 59.1 of the District Code (Included as Appendix C). The ordinance became effective on April 17<sup>th</sup>, 2018 and shall be known as "Regulations for Waste Discharge and Sewer Use." The District's design and construction standards for sewer systems were adopted via Board Resolution 2018-3 on April 17th, 2018. The following excerpts address each of the aforementioned items for which the District has legal authority.

i) Article 3, General Sewer Use Requirements, Sections 3.1-3.10

Ordinance 59.1, Article 3 addresses prohibited discharges within the District boundaries. Section 3.1 in particular addresses prohibits the discharge of fire and explosive hazards, corrosive wastewater, solid or viscous substances, various pollutants, wastewater of extreme temperature, fats, oils, and grease (FOG), toxic pollutants, stormwater, unauthorized debris, and more. Sections 3.2 and 3.3 address Categorical Pretreatment Standards and Local Limit. Sections 3.4 through 3.9 address best management practices, policies and standards, limitations of total dissolved solids, the right of revision, dilution, and hauled wastes. Section 3.10 prohibits individuals from causing damage or tampering with any part of the sanitary sewer system without the approval of the General Manager.

ii) Board Resolution 2018-02



The Board adopted Eastern Municipal Water District's "Engineering Standards, Specifications and Drawings" via a Board Resolution on April 17<sup>th</sup>, 2018. Any new construction or improvements must adhere to these standards, and compliance is enforced by the General Manager.

#### iii) Article 1, General Provisions, Section 1.7

This section addresses District authority to enter properties from which wastes and wastewaters are being or are capable of being discharged into the sewer system for purposes including but not limited to maintenance, inspection, and repair.

iv) Article 3, General Sewer Use Requirements, Sections 3.2-3.3

As mentioned previously, Article 3 specifies prohibited discharges. See Sections 3.2 and 3.3 for further standards which limit the discharge of FOG.

v) Article 6, Enforcement, Sections 6.1-6.4.

This article outlines the enforcement for violations of District Code. Section 6.1 outlines enforcement actions, while sections 6.2-6.4 outline notice procedures, remedies, and appeals.



#### (IV) OPERATIONS AND MAINTENANCE

**D.13.(iv) Operation and Maintenance Program:** The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:

- (a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable storm water conveyance facilities;
- (b) Describe routine preventive operation and maintenance activities by staff and contractors; including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
- (c) Develop rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short and long term plans plus a schedule for developing the funds needed for the capital improvement plan;
- (d) Provide training on a regular basis for staff in sanitary sewer system operations, maintenance, and require contractors to be appropriately trained; and
- (e) Provide equipment and replacement part inventories, including identification of critical replacement parts.

#### A. SWRCB SSMP Requirements

#### **B. Collection System Map**

The District is continually striving to improve its GIS database of sanitary sewer assets. Current data is sourced from Lake County's GIS data, as-built records, FEMA floodplain designations, and field surveying using smartphones with built-in GPS. A simple map of the collections system is included as Appendix D.



The District utilizes its GIS database to aid field staff in the location of assets and analysis. Information such as location, pipe material, pipe length, manhole depth, direction of flow, scale and legend is maintained and referenced against observations by field staff. In 2018, the District will be exploring ways to incorporate the GIS data with field operations to improve efficiency for the field staff. GIS will also be a major component of the Rehabilitation and Replacement Plan as well as the System Capacity Evaluation and Assurance Plan.

Two CivicSpark Americorps Fellows are currently assisting the district with its GIS program. After the completion of the I/I Assessment, the Fellows will develop a path forward for the District to increase the accuracy of its assets data, create a geometric network, and to recommend high-benefit uses of GIS in asset management, operations and planning.

#### C. Prioritized Preventative Maintenance

District field staff conducts daily, weekly, monthly, quarterly, and annual system maintenance activities in the collection system. These activities include:

- Daily monitoring of lift station run hours
- Weekly grease removal and inspections of all lift stations
- Weekly application of Bioxide for odor control in the summers
- As needed response to customer complaints
- Monthly chemical treatment of sanitary sewer "hot spots"
- Annual contracted hydro-jetting of sanitary sewer hotspots
- Annual maintenance of lift station backup generators
- Beginning in 2018, the District will implement an annual commercial grease trap inspection program
- Beginning in 2019, the District will acquire a VACCON truck and will implement an inhouse annual/quinquennial hydro-jetting program.

A Sanitary Sewer Hot Spots map is included as Appendix G. The map was developed through consultation with the field staff. The sections of pipe represented by the color red are currently hydro-jetted by contractors on an annual basis. The sections of pipe represented by the color yellow are to be hydro-jetted every five years after the District acquires its own VACCON truck. Sections of pipe represented by the color green are hydro-jetted on as as-needed basis. This map will be reviewed during the SSMP Audit process.

Preventative Maintenance activities are documented in daily work logs, inspection forms, and service orders. Regular maintenance is ensured by the Utility Supervisor and the General Manager. The District is currently exploring ways to integrate this documentation with the GIS database.



#### D. Rehabilitation and Replacement Plan

The District is currently working on a new Rehabilitation and Replacement Plan, which will take full effect in the 2019 fiscal year when new funding is in place as a result of the rate study. The goals of this plan are as follows:

- 1) Prioritize and budget for the backlog of deferred repairs in existing CCTV inventories
- Identify further projects with potential for significant I/I reduction via the district's "Infiltration and Inflow Assessment Work Plan" (see Section VIII or Appendix I for more detail)
- 3) Plan for CCTV inspection and follow-up repairs for 5% of the collection system each year following completion of backlogged projects
- 4) Rank each CCTV'd segment of pipe according to NASSCO's Pipeline Assessment Certification Program (PACP) classification and integrate into GIS system
- 5) Reduce inflow by replacing 10 manhole lids and rings each year with new lock-andsealing lids

The timeline for the implementation of this plan is as follows:

#### 2018:

- Develop 5-year capital improvement plan for inclusion in the rate study being conducted by NBS (Spring) which includes funding for deferred repairs
- Complete I/I Assessment (Spring)
- Replace 10 inflow-prone manhole lids and rings replaced with new lock-and-sealing lids using existing operating budget (year-round)

#### 2019

- New sanitary sewer funding takes effect (Early 2019)
- Continue manhole lid and ring replacement (year-round)
- Begin repair activities to address projects identified in existing CCTV inventories
- Begin CCTV inspection of non-inspected lines and identify new repairs
- Flow monitoring during 2019-2020 wet season to evaluate I/I reduction (see Appendix H)

#### 2020-2023

- Continued completion of identified repaired projects
- Continued manhole lid replacement
- Continued focus on minimizing I/I
- Continued CCTV inspection and repair project identification



Upon completion of the rate study, this section of this SSMP will be reviewed and revised as necessary.

#### E. Training

The District's collection system staff is trained to know how to maintain and operate the collection system during normal, abnormal, and emergency conditions to manage flows and avoid SSOs. The California Water Environmental Association Collection System Committee (CWEACSC) offers a well-developed training certification program. All field staff are required to hold the CWEACSC certifications corresponding with their grade. These certifications are renewed biannually. On the job training is provided in the use of the sewer rodder, hydroflusher, hydro-vac, hand tools, equipment O&M and safety. Tail-gate meetings are held weekly covering a variety of topics both operational and safety related, and safety meetings are held monthly.

#### E. Contingency Equipment and Replacement Inventories

The District maintains an inventory of replacement parts and equipment for any emergency repairs of the sewer collection and pump systems and to minimize facility downtime. The inventory includes:

#### Contingency Equipment:

- Sewer snakes
- Nine (9) backup diesel generators for lift stations and flood protection
- Spare motor & pump for lift stations
- Seven (7) work trucks each contain miscellaneous tools, personal protective equipment, saws, connectors, pipe fittings, straps, root killer, rope, extension cords, traffic control signs, paint, starting fluid, carb and choke cleaner, miscellaneous tapes, sewer dye, shovels, picks, rakes, sheers, 24' chain, brooms, hatchets, 4 traffic cones, and ABS manhole set ups.

#### **Spare Materials:**

- Rubber couplings, 2" − 6"
- Glue couplings, 4"
- Push-in couplings, 4' 8"
- Miscellaneous plugs, 3"-6"
- 40' SDR 35, 4"
- 200' SDR 35, 6"
- 80' SDR 35, 8"



The District also utilizes local suppliers for equipment and materials that are not typically kept in the spare parts inventory.

#### (V) DESIGN AND PERFORMANCE STANDARDS

#### A. SWRCB SSMP Requirements

D.13.(v) Design and Performance Provisions:

- (a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- (b) Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

#### B. Standards for Installation, Rehabilitation and Repair

To minimize I/I and lower the long-term costs of operating the wastewater collection and treatment systems, all new, rehabilitation and replacement work must be performed to proper standards. The District has adopted the Capital Improvement Project Standards of Eastern Municipal Water District via Board Resolution 2018-3. The Resolution also addresses policy for inspecting capital improvements.



#### (VI) EMERGENCY OVERFLOW RESPONSE PLAN

#### A. SWRCB SSMP Requirements

**D.13.(vi) Overflow Emergency Response Plan** - Each Enrollee shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- (b) A program to ensure appropriate response to all overflows;
- (c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, regional water boards, water suppliers, etc...) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDR or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- (d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- (e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- (f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

#### **B. Emergency Overflow Response Plan**

**PURPOSE:** To provide guidance to maintenance crew personnel when servicing an overflow of the collection system.

**SCOPE:** This procedure is applicable to all overflows of the sewage collection system.

**DEFINITIONS:** Overflow or spill: Any condition of sewage emitted or discharged from the collection system to the surrounding environment that is caused by a problem in the Districts main lines. A major overflow is defined as any overflow which exceeds 1,000 gallons <u>or</u> which is of sufficient quantity and in a location such that is poses a threat to public health or the environment. According to the State Monitoring and Reporting Program (MRP) for Statewide



General Waste Discharge Requirements (WDR), a Category 1 overflow is a spill of any volume that reaches surface waters, a drainage channel tributary to a surface water, or to a municipal separate storm sewer system (MS4) and is not fully captured. A Category 2 overflow is a spill of 1,000 gallons or greater that does not reach surface waters, a drainage channel, or a MS4 unless the entire spill discharged to the storm drain system is fully recovered and disposed of properly. A Category 3 overflow is a spill less than 1,000 gallons that does not reach surface waters, a drainage channel, or a MS4, however appropriate clean-up and investigation procedures shall be undertaken.

**RESPONSIBILITY:** The Utility Supervisor is responsible for-carrying out this procedure. When the Utility Supervisor is not available, the Utility Operator II shall assume the responsibility to carry out this procedure and to direct the efforts of the maintenance crew. The Utility Supervisor is responsible for reporting to regulatory agencies.

**PROCEDURE:** This procedure is to be followed by District field maintenance personnel when servicing an overflow of the collection system. A copy of the District's Standard Operating Procedure is included as Appendix E. A copy of the SSO Reporting Form is included as Appendix F.



#### (VII) FATS, OILS, and GREASE PROGRAM

#### A. SWRCB SSMP Requirements

**D.13.(vii) Fats, Oils, and Grease (FOG) Control Program**: Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. This plan shall include the following as appropriate:

- (a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- (b) A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;
- (c) The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
- (d) Requirements to install grease removal devices (such as traps or interceptors) design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- (e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- (f) An identification of sanitary sewer system sections subject to FOG blockages and establish a cleaning maintenance schedule for each section; and
- (g) Development and implementation of source control measures, for all sources of FOG discharged to the sanitary sewer system, for each section identified in (f) above.

#### **B. FOG Program**

The District currently has no formal FOG program. Past instances of blockages have not been primarily due to fats, oils, and grease. For these reasons no FOG program is needed at this time. Beginning in 2018, there will be annual inspections of the grease traps at each restaurant in the District's jurisdiction. Bioxide is applied at lift stations on a weekly basis to reduce grease and oil accumulation.



#### (VIII) SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

#### A. SWRCB SSMP Requirements

**D.13.(viii) System Evaluation and Capacity Assurance Plan**: The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

- (a) Evaluation: Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- (b) Design Criteria: Where design criteria do not exist or are deficient, undertake the evaluation identified in "a" above to establish appropriate design criteria; and
- (c) Capacity Enhancement Measures: The steps needed to establish a short- and long-term capital improvement plan (CIP) to address identified hydraulic deficiencies including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.
- (d) Schedule: The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a-c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14.

#### **B.** Infiltration and Inflow Work Plan

The District is in the process of developing a capital improvement plan to reduce infiltration and inflow (I/I in the collections system in response to an SSO event in January 2017. These efforts are detailed in a report titled "Infiltration and Inflow Assessment Work Plan," which included as Appendix H. An excerpt from the report describes a schedule for implementation:

- Wet weather field assessments will be performed during the 2017/18 wet weather season
- As soon as practical, HVLCSD will modify or replace cleanouts and manhole lids susceptible to inflow as a high priority. This is an inflow source with anticipated low cost to repair relative to reduction in I/I. HVLCSD will begin in known problem areas



- HVLCSD currently has a template of an updated SSMP, and expects the updated SSMP to be finalized by Spring 2018
- An I/I Report at the completion of the wet weather field assessment. The District will
  update the GIS system to show sewer sub-basins and areas susceptible to I/I. Hydraulic
  modeling of a portion of the collection system may be appropriate to quantify wet
  weather impacts on the collection system and to determine R&R strategy. The model
  could also be used to quantify reduction in I/I resulting from completed projects, with
  comparison between pre- and post- construction flow monitoring results
- Based on the I/I Report, design and implementation of the initial sewer collection system's R&R projects is anticipated to occur in 2018. Depending on the scope of the projects, design should commence in early 2018 in order to facilitate summer/fall 2018 construction. This will depend on available funding, and may have to commence in July once the fiscal year begins, or be partially deferred to the 2019 dry weather season.
- Post construction flow monitoring and reporting should occur after construction, and though this will ideally occur during the 2018/2019 wet weather season, it is dependent on the timing of projects, which is subject to funding

During the 2018-19 winter season, the District installed four flow monitors throughout the collection system and a Parshall flume to monitor flow at the WWTF's headworks. The District has provided SWRCB with monthly updates. The District will begin working on the I/I Assessment Report at the end of March, when data collection ceases. Cleanouts identified as sources of inflow have been sealed, and ten manhole lids are expected to be replaced by the end of spring. This SSMP represents the updated SSMP mentioned in the I/I Work Plan.



#### (IX) MONITORING, MEASUREMENT AND PROGRAM MODIFCATIONS

#### A. SWRCB SSMP Requirements

#### **D.13.(ix) Monitoring, Measurement, and Program Modifications**: The Enrollee shall:

- (a) Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;
- (b) Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
- (c) Assess the success of the preventative maintenance program;
- (d) Update program elements, as appropriate, based on monitoring or performance evaluations; and
- (e) Identify and illustrate SSO trends, including: frequency, location, and volume.

#### B. Monitoring, Measurement, and Program Modifications

The SSMP will be reviewed every quarter to ensure that all the provisions are implemented appropriately. The effectiveness of this plan will be discussed at the monthly field staff meetings and may be discussed at regular or special board meetings. The SSMP and its elements will be updated during the audit process, or on an as-needed basis.

Records documenting SSMP implementation and revisions, SSO event records, water quality monitoring for SSOs of 50,000 gallons or greater spilled to surface waters, and collection system telemetry records if used to document or estimate SSO volumes shall be maintained for a minimum period of five years and shall be made available to the Water Board during inspections or upon request.



#### (X) SSMP AUDIT

#### A. SWRCB SSMP Requirements

**D.13.(x) SSMP Program Audits** - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this subsection (D.13.), including identification of any deficiencies in the SSMP and steps to correct them.

#### **B. SSMP Audit**

The District will perform biennial internal audits evaluating the SSMP's effectiveness, including efforts to reduce or eliminate SSOs and their impacts, any deficiencies and steps to correct them. The results of the audit along with recommendations and suggested improvements shall be maintained for a period of five (5) years and shall be made available to the Regional Water Quality Control Board upon request.

The Collection System Questionnaire shall be updated at least every 12 months and certified on CIWQS.

The form included in Appendix I will be used for the audit.



#### (XI) COMMUNICATIONS

#### **SWRCB SSMP Requirements**

**D.13.(xi)** Communication Program. The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

#### **B.** Communications

The District will conduct a public hearing on March 20th, 2018 to receive comments from the public on the draft version of this document. The hearing will be announced on the District website and social media, and a current copy of this SSMP will be maintained on the District website. All comments will be considered before the final version is approved.



# APPENDIX A: STATE WATER RESOURCES CONTROL BOARD ORDER NO. 2006-0003-DWQ

# STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

The State Water Resources Control Board, hereinafter referred to as "State

Water Board", finds that:

- All federal and state agencies, municipalities, counties, districts, and other public entities
  that own or operate sanitary sewer systems greater than one mile in length that collect
  and/or convey untreated or partially treated wastewater to a publicly owned treatment
  facility in the State of California are required to comply with the terms of this Order.
  Such entities are hereinafter referred to as "Enrollees".
- 2. Sanitary sewer overflows (SSOs) are overflows from sanitary sewer systems of domestic wastewater, as well as industrial and commercial wastewater, depending on the pattern of land uses in the area served by the sanitary sewer system. SSOs often contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygendemanding organic compounds, oil and grease and other pollutants. SSOs may cause a public nuisance, particularly when raw untreated wastewater is discharged to areas with high public exposure, such as streets or surface waters used for drinking, fishing, or body contact recreation. SSOs may pollute surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.
- 3. Sanitary sewer systems experience periodic failures resulting in discharges that may affect waters of the state. There are many factors (including factors related to geology, design, construction methods and materials, age of the system, population growth, and system operation and maintenance), which affect the likelihood of an SSO. A proactive approach that requires Enrollees to ensure a system-wide operation, maintenance, and management plan is in place will reduce the number and frequency of SSOs within the state. This approach will in turn decrease the risk to human health and the environment caused by SSOs.
- 4. Major causes of SSOs include: grease blockages, root blockages, sewer line flood damage, manhole structure failures, vandalism, pump station mechanical failures, power outages,



excessive storm or ground water inflow/infiltration, debris blockages, sanitary sewer system age and construction material failures, lack of proper operation and maintenance, insufficient capacity and contractor- caused damages. Many SSOs are preventable with adequate and appropriate facilities, source control measures and operation and maintenance of the sanitary sewer system.

#### **SEWER SYSTEM MANAGEMENT PLANS**

- 5. To facilitate proper funding and management of sanitary sewer systems, each Enrollee must develop and implement a system-specific Sewer System Management Plan (SSMP). To be effective, SSMPs must include provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems, while taking into consideration risk management and cost benefit analysis. Additionally, an SSMP must contain a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions.
- 6. Many local public agencies in California have already developed SSMPs and implemented measures to reduce SSOs. These entities can build upon their existing efforts to establish a comprehensive SSMP consistent with this Order. Others, however, still require technical assistance and, in some cases, funding to improve sanitary sewer system operation and maintenance in order to reduce SSOs.
- 7. SSMP certification by technically qualified and experienced persons can provide a useful and cost-effective means for ensuring that SSMPs are developed and implemented appropriately.
- 8. It is the State Water Board's intent to gather additional information on the causes and sources of SSOs to augment existing information and to determine the full extent of SSOs and consequent public health and/or environmental impacts occurring in the State.
- 9. Both uniform SSO reporting and a centralized statewide electronic database are needed to collect information to allow the State Water Board and Regional Water Quality Control Boards (Regional Water Boards) to effectively analyze the extent of SSOs statewide and their potential impacts on beneficial uses and public health. The monitoring and reporting program required by this Order and the attached Monitoring and Reporting Program No. 2006-0003-DWQ, are necessary to assure compliance with these waste discharge requirements (WDRs).
- 10. Information regarding SSOs must be provided to Regional Water Boards and other regulatory agencies in a timely manner and be made available to the public in a complete, concise, and timely fashion.



11. Some Regional Water Boards have issued WDRs or WDRs that serve as National Pollution Discharge Elimination System (NPDES) permits to sanitary sewer system owners/operators within their jurisdictions. This Order establishes minimum requirements to prevent SSOs. Although it is the State Water Board's intent that this Order be the primary regulatory mechanism for sanitary sewer systems statewide, Regional Water Boards may issue more stringent or more prescriptive WDRs for sanitary sewer systems. Upon issuance or reissuance of a Regional Water Board's WDRs for a system subject to this Order, the Regional Water Board shall coordinate its requirements with stated requirements within this Order, to identify requirements that are more stringent, to remove requirements that are less stringent than this Order, and to provide consistency in reporting.

#### **REGULATORY CONSIDERATIONS**

- 12. California Water Code section 13263 provides that the State Water Board may prescribe general WDRs for a category of discharges if the State Water Board finds or determines that:
  - The discharges are produced by the same or similar operations;
  - The discharges involve the same or similar types of waste;
  - The discharges require the same or similar treatment standards; and
  - The discharges are more appropriately regulated under general discharge requirements than individual discharge requirements.

This Order establishes requirements for a class of operations, facilities, and discharges that are similar throughout the state.

- 13. The issuance of general WDRs to the Enrollees will:
- a) Reduce the administrative burden of issuing individual WDRs to each

#### Enrollee;

- b) Provide for a unified statewide approach for the reporting and database tracking of SSOs;
- c) Establish consistent and uniform requirements for SSMP development and implementation;
- d) Provide statewide consistency in reporting; and e) Facilitate consistent enforcement for violations.
- 14. The beneficial uses of surface waters that can be impaired by SSOs include, but are not limited to, aquatic life, drinking water supply, body contact and non- contact recreation, and aesthetics. The beneficial uses of ground water that can be impaired include, but are



not limited to, drinking water and agricultural supply. Surface and ground waters throughout the state support these uses to varying degrees.

- 15. The implementation of requirements set forth in this Order will ensure the reasonable protection of past, present, and probable future beneficial uses of water and the prevention of nuisance. The requirements implement the water quality control plans (Basin Plans) for each region and take into account the environmental characteristics of hydrographic units within the state. Additionally, the State Water Board has considered water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the area, costs associated with compliance with these requirements, the need for developing housing within California, and the need to develop and use recycled water.
- 16. The Federal Clean Water Act largely prohibits any discharge of pollutants from a point source to waters of the United States except as authorized under an NPDES permit. In general, any point source discharge of sewage effluent to waters of the United States must comply with technology-based, secondary treatment standards, at a minimum, and any more stringent requirements necessary to meet applicable water quality standards and other requirements.

Hence, the unpermitted discharge of wastewater from a sanitary sewer system to waters of the United States is illegal under the Clean Water Act. In addition, many Basin Plans adopted by the Regional Water Boards contain discharge prohibitions that apply to the discharge of untreated or partially treated wastewater. Finally, the California Water Code generally prohibits the discharge of waste to land prior to the filing of any required report of waste discharge and the subsequent issuance of either WDRs or a waiver of WDRs.

- 17. California Water Code section 13263 requires a water board to, after any necessary hearing, prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge. The requirements shall, among other things, take into consideration the need to prevent nuisance.
- 18. California Water Code section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:
- a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.



- c. Occurs during, or as a result of, the treatment or disposal of wastes.
- 19. This Order is consistent with State Water Board Resolution No. 68-16 (Statement of Policy with Respect to Maintaining High Quality of Waters in California) in that the Order imposes conditions to prevent impacts to water quality, does not allow the degradation of water quality, will not unreasonably affect beneficial uses of water, and will not result in water quality less than prescribed in State Water Board or Regional Water Board plans and policies.
- 20. The action to adopt this General Order is exempt from the California Environmental Quality Act (Public Resources Code §21000 et seq.) because it is an action taken by a regulatory agency to assure the protection of the environment and the regulatory process involves procedures for protection of the environment. (Cal. Code Regs., tit. 14, §15308). In addition, the action to adopt this Order is exempt from CEQA pursuant to Cal.Code Regs., title 14, §15301 to the extent that it applies to existing sanitary sewer collection systems that constitute "existing facilities" as that term is used in Section 15301, and §15302, to the extent that it results in the repair or replacement of existing systems involving negligible or no expansion of capacity.
- 21. The Fact Sheet, which is incorporated by reference in the Order, contains supplemental information that was also considered in establishing these requirements.
- 22. The State Water Board has notified all affected public agencies and all known interested persons of the intent to prescribe general WDRs that require Enrollees to develop SSMPs and to report all SSOs.
- 23. The State Water Board conducted a public hearing on February 8, 2006, to receive oral and written comments on the draft order. The State Water Board received and considered, at its May 2, 2006, meeting, additional public comments on substantial changes made to the proposed general WDRs following the February 8, 2006, public hearing. The State Water Board has considered all comments pertaining to the proposed general WDRs.

**IT IS HEREBY ORDERED**, that pursuant to California Water Code section 13263, the Enrollees, their agents, successors, and assigns, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted hereunder, shall comply with the following:

#### A. DEFINITIONS



- 1. **Sanitary sewer overflow (SSO)** Any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:
- (i) Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;
- (ii) Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States; and
- (iii) Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.
- 2. Sanitary sewer system Any system of pipes, pump stations, sewer lines, or other conveyances, upstream of a wastewater treatment plant headworks used to collect and convey wastewater to the publicly owned treatment facility. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, etc.) are considered to be part of the sanitary sewer system, and discharges into these temporary storage facilities are not considered to be SSOs

For purposes of this Order, sanitary sewer systems include only those systems owned by public agencies that are comprised of more than one mile of pipes or sewer lines.

- 3. **Enrollee** A federal or state agency, municipality, county, district, and other public entity that owns or operates a sanitary sewer system, as defined in the general WDRs, and that has submitted a complete and approved application for coverage under this Order.
- 4. **SSO Reporting System** Online spill reporting system that is hosted, controlled, and maintained by the State Water Board. The web address for this site is http://ciwqs.waterboards.ca.gov. This online database is maintained on a secure site and is controlled by unique usernames and passwords.
- 5. **Untreated or partially treated wastewater** Any volume of waste discharged from the sanitary sewer system upstream of a wastewater treatment plant headworks.



- 6. **Satellite collection system** The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the wastewater treatment facility to which the sanitary sewer system is tributary.
- 7. **Nuisance** California Water Code section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:
- a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- c. Occurs during, or as a result of, the treatment or disposal of wastes.

#### **B. APPLICATION REQUIREMENTS**

- 1. Deadlines for Application All public agencies that currently own or operate sanitary sewer systems within the State of California must apply for coverage under the general WDRs within six (6) months of the date of adoption of the general WDRs. Additionally, public agencies that acquire or assume responsibility for operating sanitary sewer systems after the date of adoption of this Order must apply for coverage under the general WDRs at least three (3) months prior to operation of those facilities.
- 2. Applications under the general WDRs In order to apply for coverage pursuant to the general WDRs, a legally authorized representative for each agency must submit a complete application package. Within sixty (60) days of adoption of the general WDRs, State Water Board staff will send specific instructions on how to apply for coverage under the general WDRs to all known public agencies that own sanitary sewer systems. Agencies that do not receive notice may obtain applications and instructions online on the Water Board's website.



3. Coverage under the general WDRs – Permit coverage will be in effect once a complete application package has been submitted and approved by the State Water Board's Division of Water Quality

#### **C. PROHIBITIONS**

- 1. Any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.
- 2. Any SSO that results in a discharge of untreated or partially treated wastewater that creates a nuisance as defined in California Water Code Section 13050(m) is prohibited.

#### **D. PROVISIONS**

- 1. The Enrollee must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for enforcement action.
- 2. It is the intent of the State Water Board that sanitary sewer systems be regulated in a manner consistent with the general WDRs. Nothing in the general WDRs shall be:
- (i) Interpreted or applied in a manner inconsistent with the Federal Clean Water Act, or supersede a more specific or more stringent state or federal requirement in an existing permit, regulation, or administrative/judicial order or Consent Decree;
- (ii) Interpreted or applied to authorize an SSO that is illegal under either the Clean Water Act, an applicable Basin Plan prohibition or water quality standard, or the California Water Code;



- (iii) Interpreted or applied to prohibit a Regional Water Board from issuing an individual NPDES permit or WDR, superseding this general WDR, for a sanitary sewer system, authorized under the Clean Water Act or California Water Code; or
- (iv) Interpreted or applied to supersede any more specific or more stringent

WDRs or enforcement order issued by a Regional Water Board.

- The Enrollee shall take all feasible steps to eliminate SSOs. In the event that an SSO does occur, the Enrollee shall take all feasible steps to contain and mitigate the impacts of an SSO.
- 4. In the event of an SSO, the Enrollee shall take all feasible steps to prevent untreated or partially treated wastewater from discharging from storm drains into

flood control channels or waters of the United States by blocking the storm drainage system and by removing the wastewater from the storm drains.

- 5. All SSOs must be reported in accordance with Section G of the general WDRs.
- 6. In any enforcement action, the State and/or Regional Water Boards will consider the appropriate factors under the duly adopted State Water Board Enforcement Policy. And, consistent with the Enforcement Policy, the State and/or Regional Water Boards must consider the Enrollee's efforts to contain, control, and mitigate SSOs when considering the California Water Code Section 13327 factors. In assessing these factors, the State and/or Regional Water Boards will also consider whether:
- (i) The Enrollee has complied with the requirements of this Order, including requirements for reporting and developing and implementing a SSMP;
- (ii) The Enrollee can identify the cause or likely cause of the discharge event; (iii) There were no feasible alternatives to the discharge, such as temporary
- storage or retention of untreated wastewater, reduction of inflow and infiltration, use of adequate backup equipment, collecting and hauling of untreated wastewater to a



treatment facility, or an increase in the capacity of the system as necessary to contain the design storm event identified in the SSMP. It is inappropriate to consider the lack of feasible alternatives, if the Enrollee does not implement a periodic or continuing process to identify and correct problems.

- (iv) The discharge was exceptional, unintentional, temporary, and caused by factors beyond the reasonable control of the Enrollee;
- (v) The discharge could have been prevented by the exercise of reasonable control described in a certified SSMP for:
- x Proper management, operation and maintenance;
- x Adequate treatment facilities, sanitary sewer system facilities, and/or components with an appropriate design capacity, to reasonably prevent SSOs (e.g., adequately enlarging treatment or collection facilities to accommodate growth, infiltration and inflow (I/I), etc.);
- x Preventive maintenance (including cleaning and fats, oils, and grease (FOG) control);
- x Installation of adequate backup equipment; and
- x Inflow and infiltration prevention and control to the extent practicable.

(vi) The sanitary sewer system design capacity is appropriate to reasonably prevent SSOs.

7. When a sanitary sewer overflow occurs, the Enrollee shall take all feasible steps and necessary remedial actions to 1) control or limit the volume of untreated or partially treated wastewater discharged, 2) terminate the discharge, and 3) recover as much of the wastewater discharged as possible for proper disposal, including any wash down water.

The Enrollee shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:



- (i) Interception and rerouting of untreated or partially treated wastewater flows around the wastewater line failure;
- (ii) Vacuum truck recovery of sanitary sewer overflows and wash down water;
- (iii) Cleanup of debris at the overflow site;
- (iv) System modifications to prevent another SSO at the same location;
- (v) Adequate sampling to determine the nature and impact of the release;

and

(vi) Adequate public notification to protect the public from exposure to the SSO.

- 8. The Enrollee shall properly, manage, operate, and maintain all parts of the sanitary sewer system owned or operated by the Enrollee, and shall ensure that the system operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities.
- 9. The Enrollee shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. These procedures must be in compliance with applicable laws and regulations and comply with generally acceptable accounting practices.
- 10. The Enrollee shall provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the Enrollee's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the Enrollee.
- 11. The Enrollee shall develop and implement a written Sewer System Management Plan (SSMP) and make it available to the State and/or Regional Water Board upon request. A copy of this document must be publicly available at the Enrollee's office and/or available



on the Internet. This SSMP must be approved by the Enrollee's governing board at a public meeting.

- 7835, and 7835.1, all engineering and geologic evaluations and judgments shall be performed by or under the direction of registered professionals competent and proficient in the fields pertinent to the required activities. Specific elements of the SSMP that require professional evaluation and judgments shall be prepared by
- or under the direction of appropriately qualified professionals, and shall bear the professional(s)' signature and stamp.
- 13. The mandatory elements of the SSMP are specified below. However, if the Enrollee believes that any element of this section is not appropriate or applicable to the Enrollee's sanitary sewer system, the SSMP program does not need to address that element. The Enrollee must justify why that element is not applicable. The SSMP must be approved by the deadlines listed in the SSMP Time Schedule below.

#### **Sewer System Management Plan (SSMP)**

- (i) **Goal**: The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.
- (ii) **Organization**: The SSMP must identify:
- (a) The name of the responsible or authorized representative as described in Section J of this Order.
- (b) The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The



SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and

- (c) The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).
- (iii) **Legal Authority:** Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:
- (a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.)
- (b) Require that sewers and connections be properly designed and constructed;
- (c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
- (d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
- (e) Enforce any violation of its sewer ordinances.
- (iv) **Operation and Maintenance Program**. The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:



- (a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
- (b) Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
- (c) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long- term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that
- are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and
- long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
- (d) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained; and (e) Provide equipment and replacement part inventories, including identification of critical replacement parts.

#### (v) Design and Performance Provisions:

(a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and



(b) Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.
(vi) <b>Overflow Emergency Response Plan</b> - Each Enrollee shall develop and implement an overflow emergency response plan that identifies
measures to protect public health and the environment. At a minimum, this plan must include the following:
(a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
(b) A program to ensure an appropriate response to all overflows;
(c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health
agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State
in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
(d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
(e) Procedures to address emergency operations, such as traffic and crowd control and other

necessary response activities; and



- (f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.
- (vii) **FOG Control Program:** Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. This plan shall include the following as appropriate:
- (a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- (b) A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;
- (c) The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
- (d) Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- (e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;



- (f) An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- (g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.
- (viii) **System Evaluation and Capacity Assurance Plan**: The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:
- (a) **Evaluation**: Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs
- that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- (b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
- (c) Capacity Enhancement Measures: The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in
- pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.



(xi) **Communication Program** – The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The



communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

14. Both the SSMP and the Enrollee's program to implement the SSMP must be certified by the Enrollee to be in compliance with the requirements set forth

above and must be presented to the Enrollee's governing board for approval at a public meeting. The Enrollee shall certify that the SSMP, and subparts thereof, are in compliance with the general WDRs within the time frames identified in the time schedule provided in subsection D.15, below.

In order to complete this certification, the Enrollee's authorized representative must complete the certification portion in the Online SSO Database Questionnaire by checking the appropriate milestone box, printing and signing the automated form, and sending the form to:

State Water Resources Control Board

Division of Water Quality Attn: SSO Program Manager P.O. Box 100

Sacramento, CA 95812

The SSMP must be updated every five (5) years, and must include any significant program changes. Re-certification by the governing board of the Enrollee is required in accordance with D.14 when significant updates to the SSMP are made. To complete the re-certification process, the Enrollee shall enter the data in the Online SSO Database and mail the form to the State Water Board, as described above.



15. The Enrollee shall comply with these requirements according to the following schedule. This time schedule does not supersede existing requirements or time schedules associated with other permits or regulatory requirements.

#### **Sewer System Management Plan Time Schedule**

Task and	Completion Date					
	Population >	Population between	Population between	Population <		
Application for Permit						
Reporting Program	6 months after \	WDRs Adoption <sup>1</sup>				
SSMP Development Plan and Schedule	9 months	12 months after	15 months after WDRs	18 months after WDRs		
Goals and						
Overflow Emergency Legal Authority Operation and						
Grease Control						
Design and						
System Evaluation and Capacity Assurance Plan						







memorandum of agreement (MOA) with the California Water Environment Association (CWEA) or discharger representatives outlining a strategy and time schedule for CWEA or another entity to provide statewide training on the adopted monitoring program, SSO database electronic reporting, and SSMP development, consistent with this Order, then the schedule of Reporting Program Section G shall be replaced with the following schedule:

Reporting Program	
Regional Boards 4,	
Regional Boards 1,	
Regional Boards 5,	

If this MOU is not executed by July 1, 2006, the reporting program time schedule will remain six (6) months for all regions and agency size categories.

2. In the event that the Executive Director executes the MOA identified in note 1 by July 1, 2006, then the deadline for this task shall be extended by six (6) months. The time schedule identified in the MOA must be consistent with the extended time schedule provided by this note. If the MOA is not executed by July 1, 2006, the six (6) month time extension will not be granted.

#### E. WDRs and SSMP AVAILABILITY

1. A copy of the general WDRs and the certified SSMP shall be maintained at appropriate locations (such as the Enrollee's offices, facilities, and/or Internet homepage) and shall be available to sanitary sewer system operating and maintenance personnel at all times.



#### F. ENTRY AND INSPECTION

1.	The	Enrollee	shall	${\sf allow}$	the	State	or	Regional	Wate	er Boa	rds	or	their	au	thoriz	ed
	repre	sentative	, upor	n pres	enta	tion (	of c	redentials	and	other	doc	ume	ents	as	may	be
	requi	red by lav	v, to:													

a.	Enter upon the Enrollee's premises where a	regulated	facility or	activity is	located o	ľ
	conducted, or where records are kept under th	ne				

conditions of this Order;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;

monitoring and control equipment), practices, or operations regulated or required under this Order; and

d. Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

#### G. GENERAL MONITORING AND REPORTING REQUIREMENTS

1. The Enrollee shall furnish to the State or Regional Water Board, within a reasonable time, any information that the State or Regional Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Enrollee shall also furnish to the Executive Director of the State Water Board or Executive Officer of the applicable Regional Water Board, upon request, copies of records required to be kept by this Order.



- 2. The Enrollee shall comply with the attached Monitoring and Reporting Program No. 2006-0003 and future revisions thereto, as specified by the Executive Director. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 2006-0003. Unless superseded by a specific enforcement Order for a specific Enrollee, these reporting requirements are intended to replace other mandatory routine written reports associated with SSOs.
- 3. All Enrollees must obtain SSO Database accounts and receive a "Username" and "Password" by registering through the California Integrated Water Quality System (CIWQS). These accounts will allow controlled and secure entry into the SSO Database. Additionally, within 30days of receiving an account and prior to recording spills into the SSO Database, all Enrollees must complete the "Collection System Questionnaire", which collects pertinent information regarding a Enrollee's collection system. The "Collection System Questionnaire" must be updated at least every 12 months.
- 4. Pursuant to Health and Safety Code section 5411.5, any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

Any SSO greater than 1,000 gallons discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State shall also be reported to the Office of Emergency Services pursuant to California Water Code section 13271.

#### H. CHANGE IN OWNERSHIP

1. This Order is not transferable to any person or party, except after notice to the Executive Director. The Enrollee shall submit this notice in writing at least 30 days in advance of any proposed transfer. The notice must include a written agreement between the existing and new Enrollee containing a specific date for the transfer of this Order's responsibility and coverage between the existing Enrollee and the new Enrollee. This



agreement shall include an acknowledgement that the existing Enrollee is liable for violations up to the transfer date and that the new Enrollee is liable from the transfer date forward.

#### I. INCOMPLETE REPORTS

1. If an Enrollee becomes aware that it failed to submit any relevant facts in any report required under this Order, the Enrollee shall promptly submit such facts or information by formally amending the report in the Online SSO Database.

#### J. REPORT DECLARATION

1. All applications, reports, or information shall be signed and certified as follows: (i) All reports required by this Order and other information required by the

State or Regional Water Board shall be signed and certified by a person

designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative of that person, as described in paragraph (ii) of this provision. (For purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.)

- (ii) An individual is a duly authorized representative only if:
- (a) The authorization is made in writing by a person described in paragraph (i) of this provision; and
- (b) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity.



#### K. CIVIL MONETARY REMEDIES FOR DISCHARGE VIOLATIONS

- 1. The California Water Code provides various enforcement options, including civil monetary remedies, for violations of this Order.
- 2. The California Water Code also provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or

falsifying any information provided in the technical or monitoring reports is subject to civil monetary penalties.

#### L. SEVERABILITY

- The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
- 2. This order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the Enrollee from liability under federal, state or local laws, nor create a vested right for the Enrollee to continue the waste discharge.

#### **CERTIFICATION**

The undersigned Clerk to the State Water Board does hereby certify that the foregoing is a full, true, and correct copy of general WDRs duly and regularly adopted at a meeting of the State Water Resources Control Board held on May 2, 2006.



AYE: Tam M. Doduc

Gerald D. Secundy

NO: Arthur G. Baggett

ABSENT: None

ABSTAIN: None

Song Her

Clerk to the Board

# APPENDIX B: SSO REPORTING, AMENDING STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS SWRCB ORDER NO. WQ 2013-0058-EXEC

#### STATE OF CALIFORNIA

#### WATER RESOURCES CONTROL BOARD

#### **ORDER NO. WQ 2013-0058-EXEC**

#### AMENDING MONITORING AND REPORTING PROGRAM

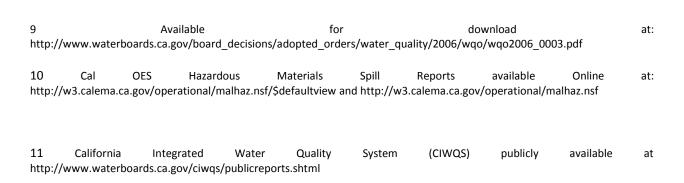
FOR

# STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

The State of California, Water Resources Control Board (hereafter State Water Board) finds:

- 1. The State Water Board is authorized to prescribe statewide general Waste Discharge Requirements (WDRs) for categories of discharges that involve the same or similar operations and the same or similar types of waste pursuant to Water Code section 13263(i).
- 2. Water Code section 13193 *et seq.* requires the Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) to gather Sanitary Sewer Overflow (SSO) information and make this information available to the public, including but not limited to, SSO cause, estimated volume, location, date, time, duration, whether or not the SSO reached or may have reached waters of the state, response and corrective action taken, and an enrollee's contact information for each SSO event. An enrollee is defined as the public entity having legal authority over the operation and maintenance of, or capital improvements to, a sanitary sewer system greater than one mile in length.
- 3. Water Code section 13271, et seq. requires notification to the California Office of Emergency Services (Cal OES), formerly the California Emergency Management Agency, for certain unauthorized discharges, including SSOs.

- 4. On May 2, 2006, the State Water Board adopted Order 2006-0003-DWQ, "Statewide Waste Discharge Requirements for Sanitary Sewer Systems" (hereafter SSS WDRs) to comply with Water Code section 13193 and to establish the framework for the statewide SSO Reduction Program.
- 5. Subsection G.2 of the SSS WDRs and the Monitoring and Reporting Program (MRP) provide that the Executive Director may modify the terms of the MRP at any time.
- 6. On February 20, 2008, the State Water Board Executive Director adopted a revised MRP for the SSS WDRs to rectify early notification deficiencies and ensure that first responders are notified in a timely manner of SSOs discharged into waters of the state.
- 7. When notified of an SSO that reaches a drainage channel or surface water of the state, Cal OES, pursuant to Water Code section 13271(a)(3), forwards the SSO notification information<sup>10</sup> to local government agencies and first responders including local public health officials and the applicable Regional Water Board. Receipt of notifications for a single SSO event from both the SSO reporter and Cal OES is duplicative. To address this, the SSO notification requirements added by the February 20, 2008 MRP revision are being removed in this MRP revision.
- 8. In the February 28, 2008 Memorandum of Agreement between the State Water Board and the California Water and Environment Association (CWEA), the State Water Board committed to redesigning the CIWQS<sup>11</sup> Online SSO Database to allow "event" based SSO reporting versus the original "location" based reporting. Revisions to this MRP and accompanying changes to the CIWQS Online SSO Database will implement this change by allowing for multiple SSO appearance points to be associated with each SSO event caused by a single asset failure.
- 9. Based on stakeholder input and Water Board staff experience implementing the SSO Reduction Program, SSO categories have been revised in this MRP. In the prior version of the MRP, SSOs have been categorized as Category 1 or Category 2. This MRP implements changes to SSO categories by adding a Category 3 SSO type. This change will improve data management to further assist Water Board staff with evaluation of high threat and low threat SSOs by placing them in unique categories



- (i.e., Category 1 and Category 3, respectively). This change will also assist enrollees in identifying SSOs that require Cal OES notification.
- 10. Based on over six years of implementation of the SSS WDRs, the State Water Board concludes that the February 20, 2008 MRP must be updated to better advance the sso Reduction Program <sup>12</sup> objectives, assess compliance, and enforce the requirements of the SSS WDRs.

#### IT IS HEREBY ORDERED THAT:

Pursuant to the authority delegated by Water Code section 13267(f), Resolution 2002-0104, and Order 2006-0003-DWQ, the MRP for the SSS WDRs (Order 2006-0003-DWQ) is hereby amended as shown in Attachment A and shall be effective on September 9, 2013.

Date	Thomas Howard
Date	Executive Director

<sup>12</sup> Statewide Sanitary Sewer Overflow Reduction Program information is available at:

http://www.waterboards.ca.gov/water\_issues/programs/sso/

#### **ATTACHMENT A**

#### STATE WATER RESOURCES CONTROL BOARD

#### **ORDER NO. WQ 2013-0058-EXEC**

AMENDING MONITORING AND REPORTING PROGRAM

FOR

## STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR

#### SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order 2006-0003-DWQ, "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" (SSS WDRs). This MRP shall be effective from September 9, 2013 until it is rescinded. The Executive Director may make revisions to this MRP at any time. These revisions may include a reduction or increase in the monitoring and reporting requirements. All site specific records and data developed pursuant to the SSS WDRs and this MRP shall be complete, accurate, and justified by evidence maintained by the enrollee. Failure to comply with this MRP may subject an enrollee to civil liabilities of up to \$5,000 a day per violation pursuant to Water Code section 13350; up to \$1,000 a day per violation pursuant to Water Code section 13268; or referral to the Attorney General for judicial civil enforcement. The State Water Resources Control Board (State Water Board) reserves the right to take any further enforcement action authorized by law.

#### A. SUMMARY OF MRP REQUIREMENTS

Table 1 – Spill Categories and Definitions

CATEGORIES

**DEFINITIONS** [see Section A on page 5 of Order 2006-0003-DWQ, for Sanitary Sewer Overflow (SSO) definition]

CATEGORY 1	Discharges of untreated or partially treated wastewater of <a href="mailto:any volume">any volume</a> resulting from an enrollee's sanitary sewer system failure or flow condition that:  • Reach surface water and/or reach a drainage channel tributary to a surface water; or
	<ul> <li>Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).</li> </ul>
CATEGORY 2	Discharges of untreated or partially treated wastewater of <b>1,000 gallons or greater</b> resulting from an enrollee's sanitary sewer system failure or flow condition that <b>do not</b> reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
CATEGORY 3	All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.
PRIVATE LATERAL SEWAGE DISCHARGE (PLSD)	Discharges of untreated or partially treated wastewater resulting from blockages or other problems within a privately owned sewer lateral connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be voluntarily reported to the California Integrated Water Quality System (CIWQS) Online SSO Database.

Table 2 – Notification, Reporting, Monitoring, and Record Keeping Requirements

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION  (see section B of MRP)	Within two hours of becoming aware of any Category 1 SSO greater than or equal to  1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water, notify the California Office of Emergency Services (Cal OES) and obtain a notification control number.	Call Cal OES at: (800) 852-7550
REPORTING  (see section C of MRP)	<ul> <li>Category 1 SSO: Submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date.</li> <li>Category 2 SSO: Submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date.</li> <li>Category 3 SSO: Submit certified report within 30 calendar days of the end of month in which SSO the occurred.</li> <li>SSO Technical Report: Submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters.</li> <li>"No Spill" Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred.</li> </ul>	Enter data into the CIWQS Online SSO Database (http://ciwqs.waterboards.ca.gov/), certified by enrollee's Legally Responsible Official(s).
	<ul> <li>after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters.</li> <li>"No Spill" Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs</li> </ul>	

	every 12 months.	
WATER QUALITY MONITORING  (see section D of MRP)	<ul> <li>Conduct water quality sampling within 48 hours after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.</li> </ul>	Water quality results are required to be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD KEEPING  (see section E of MRP)	<ul> <li>SSO event records.</li> <li>Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP.</li> <li>Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters.</li> <li>Collection system telemetry records if relied upon to document and/or estimate SSO Volume.</li> </ul>	Self-maintained records shall be available during inspections or upon request.

### **B. NOTIFICATION REQUIREMENTS**

Although Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) staff do not have duties as first responders, this MRP is an appropriate mechanism to ensure that the agencies that have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

- 1. For any Category 1 SSO greater than or equal to 1,000 gallons that results in a discharge to a surface water or spilled in a location where it probably will be discharged to surface water, either directly or by way of a drainage channel or MS4, the enrollee shall, as soon as possible, but not later than two (2) hours after (A) the enrollee has knowledge of the discharge, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures, notify the Cal OES and obtain a notification control number.
- 2. To satisfy notification requirements for each applicable SSO, the enrollee shall provide the information requested by Cal OES before receiving a control number. Spill information requested by Cal OES may include:
  - i. Name of person notifying Cal OES and direct return phone number.
  - ii. Estimated SSO volume discharged (gallons).
  - iii. If ongoing, estimated SSO discharge rate (gallons per minute).
  - iv. SSO Incident Description:
    - a. Brief narrative.
    - b. On-scene point of contact for additional information (name and cell phone number).
    - c. Date and time enrollee became aware of the SSO.
    - d. Name of sanitary sewer system agency causing the SSO.
    - e. SSO cause (if known).
  - v. Indication of whether the SSO has been contained.

- vi. Indication of whether surface water is impacted.
- vii. Name of surface water impacted by the SSO, if applicable.
- viii. Indication of whether a drinking water supply is or may be impacted by the SSO.
- ix. Any other known SSO impacts.
- x. SSO incident location (address, city, state, and zip code).
- 3. Following the initial notification to Cal OES and until such time that an enrollee certifies the SSO report in the CIWQS Online SSO Database, the enrollee shall provide updates to Cal OES regarding substantial changes to the estimated volume of untreated or partially treated sewage discharged and any substantial change(s) to known impact(s).
- 4. PLSDs: The enrollee is strongly encouraged to notify Cal OES of discharges greater than or equal to 1,000 gallons of untreated or partially treated wastewater that result or may result in a discharge to surface water resulting from failures or flow conditions within a privately owned sewer lateral or from other private sewer asset(s) if the enrollee becomes aware of the PLSD.

#### C. REPORTING REQUIREMENTS

- 1. **CIWQS Online SSO Database Account:** All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS. These accounts allow controlled and secure entry into the CIWQS Online SSO Database.
- 2. SSO Mandatory Reporting Information: For reporting purposes, if one SSO event results in multiple appearance points in a sewer system asset, the enrollee shall complete one SSO report in the CIWQS Online SSO Database which includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that caused the SSO, and provide descriptions of the locations of all other discharge points associated with the SSO event.

#### 3. SSO Categories

- i. **Category 1** Discharges of untreated or partially treated wastewater of <u>any volume</u>
  - resulting from an enrollee's sanitary sewer system failure or flow condition that:
  - Reach surface water and/or reach a drainage channel tributary to a surface water; or
  - b. Reach a MS4 and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
- ii. Category 2 Discharges of untreated or partially treated wastewater greater than or
  - <u>equal to 1,000 gallons</u> resulting from an enrollee's sanitary sewer system failure or flow condition that does not reach a surface water, a drainage channel, or the MS4 unless the entire SSO volume discharged to the storm drain system is fully recovered and disposed of properly.
- iii. **Category 3** All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.
- 4. Sanitary Sewer Overflow Reporting to CIWQS Timeframes
  - i. Category 1 and Category 2 SSOs All SSOs that meet the above criteria for Category 1 or Category 2 SSOs shall be reported to the CIWQS Online SSO Database:
    - a. Draft reports for Category 1 and Category 2 SSOs shall be submitted to the CIWQS
      - Online SSO Database within three (3) business days of the enrollee becoming aware of the SSO. Minimum information that shall be reported in a draft Category 1 SSO report shall include all information identified in section 8.i.a. below. Minimum information that shall be reported in a Category 2 SSO draft report shall include all information identified in section 8.i.c below.
    - b. A final Category 1 or Category 2 SSO report shall be certified through the CIWQS Online SSO Database within 15 calendar days of the end date of the SSO. Minimum information that shall be certified in the final Category 1 SSO report shall include all information identified in section 8.i.b below. Minimum information that shall be certified in a final Category 2 SSO report shall include all information identified in section 8.i.d below.

- ii. Category 3 SSOs All SSOs that meet the above criteria for Category 3 SSOs shall be reported to the CIWQS Online SSO Database and certified within 30 calendar days after the end of the calendar month in which the SSO occurs (e.g., all Category 3 SSOs occurring in the month of February shall be entered into the database and certified by March 30). Minimum information that shall be certified in a final Category 3 SSO report shall include all information identified in section 8.i.e below.
- iii. "No Spill" Certification If there are no SSOs during the calendar month, the enrollee shall either 1) certify, within 30 calendar days after the end of each calendar month, a "No Spill" certification statement in the CIWQS Online SSO Database certifying that there were no SSOs for the designated month, or 2) certify, quarterly within 30 calendar days after the end of each quarter, "No Spill" certification statements in the CIWQS Online SSO Database certifying that there were no SSOs for each month in the quarter being reported on. For quarterly reporting, the quarters are Q1 January/ February/ March, Q2 April/May/June, Q3 July/August/September, and Q4 October/November/December.
  - If there are no SSOs during a calendar month but the enrollee reported a PLSD, the enrollee shall still certify a "No Spill" certification statement for that month.
- iv. Amended SSO Reports The enrollee may update or add additional information to a certified SSO report within 120 calendar days after the SSO end date by amending the report or by adding an attachment to the SSO report in the CIWQS Online SSO Database. SSO reports certified in the CIWQS Online SSO Database prior to the adoption date of this MRP may only be amended up to 120 days after the effective date of this MRP. After 120 days, the enrollee may contact the SSO Program Manager to request to amend an SSO report if the enrollee also submits justification for why the additional information was not available prior to the end of the 120 days.

#### 5. **SSO Technical Report**

The enrollee shall submit an SSO Technical Report in the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

#### i. Causes and Circumstances of the SSO:

- a. Complete and detailed explanation of how and when the SSO was discovered.
- b. Diagram showing the SSO failure point, appearance point(s), and final destination(s).
- c. Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.

- d. Detailed description of the cause(s) of the SSO.
- e. Copies of original field crew records used to document the SSO.
- f. Historical maintenance records for the failure location.

#### ii. Enrollee's Response to SSO:

- a. Chronological narrative description of all actions taken by enrollee to terminate the spill.
- b. Explanation of how the SSMP Overflow Emergency Response plan was implemented to respond to and mitigate the SSO.
- c. Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

#### iii. Water Quality Monitoring:

- a. Description of all water quality sampling activities conducted including analytical results and evaluation of the results.
- b. Detailed location map illustrating all water quality sampling points.

#### 6. PLSDs

Discharges of untreated or partially treated wastewater resulting from blockages or other problems within a privately owned sewer lateral connected to the enrollee's sanitary sewer system or from other private sanitary sewer system assets may be voluntarily reported to the CIWQS Online SSO Database.

- i. The enrollee is also encouraged to provide notification to Cal OES per section B above
  - when a PLSD greater than or equal to 1,000 gallons has or may result in a discharge to surface water. For any PLSD greater than or equal to 1,000 gallons regardless of the spill destination, the enrollee is also encouraged to file a spill report as required by Health and Safety Code section 5410 et. seq. and Water Code section 13271, or notify the responsible party that notification and reporting should be completed as specified above and required by State law.
- ii. If a PLSD is recorded in the CIWQS Online SSO Database, the enrollee must identify the
  - sewage discharge as occurring and caused by a private sanitary sewer system asset and should identify a responsible party (other than the enrollee), if known. Certification of PLSD reports by enrollees is not required.

#### 7. CIWQS Online SSO Database Unavailability

In the event that the CIWQS Online SSO Database is not available, the enrollee must fax or email all required information to the appropriate Regional Water Board office in accordance with the time schedules identified herein. In such event, the enrollee must also enter all required information into the CIWQS Online SSO Database when the database becomes available.

#### 8. Mandatory Information to be Included in CIWQS Online SSO Reporting

All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through **CIWQS** which can be reached at CIWQS@waterboards.ca.gov or by calling (866) 792-4977, M-F, 8 A.M. to 5 P.M. These accounts will allow controlled and secure entry into the CIWQS Online SSO Database. Additionally, within thirty (30) days of initial enrollment and prior to recording SSOs into the CIWQS Online SSO Database, all enrollees must complete a Collection System Questionnaire (Questionnaire). The Questionnaire shall be updated at least once every 12 months.

#### i. SSO Reports

At a minimum, the following mandatory information shall be reported prior to finalizing and certifying an SSO report for each category of SSO:

- a. <u>Draft Category 1 SSOs</u>: At a minimum, the following mandatory information shall be reported for a draft Category 1 SSO report:
  - 1. SSO Contact Information: Name and telephone number of enrollee contact person who can answer specific questions about the SSO being reported.
  - 2. SSO Location Name.
  - 3. Location of the overflow event (SSO) by entering GPS coordinates. If a single overflow event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the SSO appearance point explanation field.
  - 4. Whether or not the SSO reached surface water, a drainage channel, or entered and was discharged from a drainage structure.

- 5. Whether or not the SSO reached a municipal separate storm drain system.
- 6. Whether or not the total SSO volume that reached a municipal separate storm drain system was fully recovered.
- 7. Estimate of the SSO volume, inclusive of all discharge point(s).
- 8. Estimate of the SSO volume that reached surface water, a drainage channel, or was not recovered from a storm drain.
- 9. Estimate of the SSO volume recovered (if applicable).
- 10. Number of SSO appearance point(s).
- 11. Description and location of SSO appearance point(s). If a single sanitary sewer system failure results in multiple SSO appearance points, each appearance point must be described.
- 12. SSO start date and time.
- 13. Date and time the enrollee was notified of, or self-discovered, the SSO.
- 14. Estimated operator arrival time.
- 15. For spills greater than or equal to 1,000 gallons, the date and time Cal OES was called.
- 16. For spills greater than or equal to 1,000 gallons, the Cal OES control number.
- b. <u>Certified Category 1 SSOs</u>: At a minimum, the following mandatory information shall be reported for a certified Category 1 SSO report, in addition to all fields in section 8.i.a :
  - 1. Description of SSO destination(s).
  - 2. SSO end date and time.
  - 3. SSO causes (mainline blockage, roots, etc.).
  - 4. SSO failure point (main, lateral, etc.).
  - 5. Whether or not the spill was associated with a storm event.

- Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the overflow; and a schedule of major milestones for those steps.
- 7. Description of spill response activities.
- 8. Spill response completion date.
- 9. Whether or not there is an ongoing investigation, the reasons for the investigation and the expected date of completion.
- 10. Whether or not a beach closure occurred or may have occurred as a result of the SSO.
- 11. Whether or not health warnings were posted as a result of the SSO.
- 12. Name of beach(es) closed and/or impacted. If no beach was impacted, NA shall be selected.
- 13. Name of surface water(s) impacted.
- 14. If water quality samples were collected, identify parameters the water quality samples were analyzed for. If no samples were taken, NA shall be selected.
- 15. If water quality samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA shall be selected.
- 16. Description of methodology(ies) and type of data relied upon for estimations of the SSO volume discharged and recovered.
- 17. SSO Certification: Upon SSO Certification, the CIWQS Online SSO Database will issue a final SSO identification (ID) number.
- c. <u>Draft Category 2 SSOs</u>: At a minimum, the following mandatory information shall be reported for a draft Category 2 SSO report:
  - 1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO.
- d. <u>Certified Category 2 SSOs</u>: At a minimum, the following mandatory information shall be reported for a certified Category 2 SSO report:

- 1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-9, and 17 in section 8.i.b above for Certified Category 1 SSO.
- e. <u>Certified Category 3 SSOs</u>: At a minimum, the following mandatory information shall be reported for a certified Category 3 SSO report:
  - 1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-5, and 17 in section 8.i.b above for Certified Category 1 SSO.

#### ii. Reporting SSOs to Other Regulatory Agencies

These reporting requirements do not preclude an enrollee from reporting SSOs to other regulatory agencies pursuant to state law. In addition, these reporting requirements do not replace other Regional Water Board notification and reporting requirements for SSOs.

#### iii. Collection System Questionnaire

The required Questionnaire (see subsection G of the SSS WDRs) provides the Water Boards with site-specific information related to the enrollee's sanitary sewer system. The enrollee shall complete and certify the Questionnaire at least every 12 months to facilitate program implementation, compliance assessment, and enforcement response.

#### iv. **SSMP Availability**

The enrollee shall provide the publicly available internet web site address to the CIWQS Online SSO Database where a downloadable copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP is posted. If all of the SSMP documentation listed in this subsection is not publicly available on the Internet, the enrollee shall comply with the following procedure:

a. Submit an <u>electronic</u> copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP to the State Water Board, within 30 days of that approval and within 30 days of any subsequent SSMP re-certifications, to the following mailing address:

State Water Resources Control Board

Division of Water Quality

**Attn:** SSO Program Manager

1001 | Street, 15<sup>th</sup> Floor, Sacramento, CA 95814

#### D. WATER QUALITY MONITORING REQUIREMENTS

To comply with subsection D.7(v) of the SSS WDRs, the enrollee shall develop and implement an SSO Water Quality Monitoring Program to assess impacts from SSOs to surface waters in which 50,000 gallons or greater are spilled to surface waters. The SSO Water Quality Monitoring Program, shall, at a minimum:

- 1. Contain protocols for water quality monitoring.
- 2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.).
- 3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
- 4. Require monitoring instruments and devices used to implement the SSO Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
- 5. Within 48 hours of the enrollee becoming aware of the SSO, require water quality sampling for, at a minimum, the following constituents:
- i. Ammonia
- Appropriate Bacterial indicator(s) per the applicable Basin Plan water quality objective or Regional Board direction which may include total and fecal coliform, enterococcus, and ecoli.

#### E. RECORD KEEPING REQUIREMENTS:

The following records shall be maintained by the enrollee <u>for a minimum of five (5) years</u> and shall be made available for review by the Water Boards during an onsite inspection or through an information request:

- General Records: The enrollee shall maintain records to document compliance with all provisions of the SSS WDRs and this MRP for each sanitary sewer system owned including any required records generated by an enrollee's sanitary sewer system contractor(s).
- 2. SSO Records: The enrollee shall maintain records for each SSO event, including but not limited to:
- i. Complaint records documenting how the enrollee responded to all notifications of possible or actual SSOs, both during and after business hours, including complaints that do not result in SSOs. Each complaint record shall, at a minimum, include the following information:
  - a. Date, time, and method of notification.
  - b. Date and time the complainant or informant first noticed the SSO.
  - c. Narrative description of the complaint, including any information the caller can provide regarding whether or not the complainant or informant reporting the potential SSO knows if the SSO has reached surface waters, drainage channels or storm drains.
  - d. Follow-up return contact information for complainant or informant for each complaint received, if not reported anonymously.
  - e. Final resolution of the complaint.
- ii. Records documenting steps and/or remedial actions undertaken by enrollee, using all available information, to comply with section D.7 of the SSS WDRs.
- iii. Records documenting how all estimate(s) of volume(s) discharged and, if applicable, volume(s) recovered were calculated.
  - 3. Records documenting all changes made to the SSMP since its last certification indicating when a subsection(s) of the SSMP was changed and/or updated and who authorized the change or update. These records shall be attached to the SSMP.
  - 4. Electronic monitoring records relied upon for documenting SSO events and/or estimating the SSO volume discharged, including, but not limited to records from:
- i. Supervisory Control and Data Acquisition (SCADA) systems
- ii. Alarm system(s)
- iii. Flow monitoring device(s) or other instrument(s) used to estimate wastewater levels, flow rates and/or volumes.

#### F. <u>CERTIFICATION</u>

- 1. All information required to be reported into the CIWQS Online SSO Database shall be certified by a person designated as described in subsection J of the SSS WDRs. This designated person is also known as a Legally Responsible Official (LRO). An enrollee may have more than one LRO.
- 2. Any designated person (i.e. an LRO) shall be registered with the State Water Board to certify reports in accordance with the CIWQS protocols for reporting.
- Data Submitter (DS): Any enrollee employee or contractor may enter draft data into the CIWQS Online SSO Database on behalf of the enrollee if authorized by the LRO and registered with the State Water Board. However, only LROs may certify reports in CIWQS.
- 4. The enrollee shall maintain continuous coverage by an LRO. Any change of a registered LRO or DS (e.g., retired staff), including deactivation or a change to the LRO's or DS's contact information, shall be submitted by the enrollee to the State Water Board within 30 days of the change by calling (866) 792-4977 or e-mailing help@ciwqs.waterboards.ca.gov.
- 5. A registered designated person (i.e., an LRO) shall certify all required reports under penalty of perjury laws of the state as stated in the CIWQS Online SSO Database at the time of certification.

#### **CERTIFICATION**

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of an order amended by the Executive Director of the State Water Resources Control Board.

Signed 7/30/13

Date Jeanine Townsend

Clerk to the Board



## **APPENDIX C: DISTRICT CODE**

# DRAFT

Regulations for Waste Discharge and Sewer Use

Ordinance 59.1

# ADOPTED BY THE BOARD OF DIRECTORS OF HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

April 17, 2018

#### ORDINANCE NO. 59.1

"REGULATIONS FOR WASTE DISCHARGE AND SEWER USE"

AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT RESCINDING THE PROVISIONS OF ORDINANCE 56, "AN ORDINANCE ADOPTING WATER USER FEES" AND ORDINANCE 57 "AN ORDINANCE ADOPTING SEWER USER FEES" RESPECTIVLY, AS AMENDED BY ORDINANCE 59.1 OF SAID BOARD OF DIRECTORS

BE IT ORDAINED by the Board of Directors of the Hidden Valley Lake Community Services District (HVLCSD) in an adjourned Regular Session, assembled this 17<sup>th</sup> day of April, 2018, a majority of Directors being present and concurring, that the "Regulations for Waste Discharge and Sewer Use' Ordinance No. 59.1, which is attached hereto, be the same are hereby approved and adopted.

BE IT FINALLY ORDAINED that the effective date of the Ordinance and its provisions is May 17, 2018.

PASSED AND ADOPTED ON April 17, 2018 by the following vote:

AYES:		
NOES:		
ABSENT:		
ARSTAIN:		

Carolyn Graham, President Board of Directors Hidden Valley Lake Community Services District

ATTEST:
Secretary to the Board of Directors
Kirk

## **TABLE OF CONTENTS**

ARTICI	LE NO.	PAGE
ARTIC	LE 1-GENERAL PROVISIONS	
1.1	Intent	1
1.2	Purpose	1
1.3	Policy	1
1.4	Scope	2
1.5	Applicability	2
1.6	Powers	2
1.7	Access	3
1.8	Information Required	4
1.9	Authority	5
ARTIC	LE 2-DEFINITIONS	
2.1	Definitions	6
2.2	Other Meanings	16
ARTIC	LE 3-GENERAL SEWER USE REQUIREMENTS	
3.1	Prohibited Discharge Standards	17
3.2	Categorical Pretreatment Standards	18
3.3	Local Limits	19
3.4	Best Management Practices	19
3.5	Policies and Standards	19
3.6	Limitations of Total Dissolved Solids (TDS)	19
3.7	Right of Revision	20
3.8	Dilution	20
3.9	Cesspool, Septic Tank, and Holding Tank Hauled Wastes	20

3.10	Access to District Facilities
ARTICI	LE 4-WASTE DISCHARGE PERMIT & REPORTING REQUIREMENTS
4.1	General Requirements
4.2	Waste Discharge Permit Issuance Process
4.3	Reporting Requirements
ARTICI AGREE	LE 5- WASTE DISCHARGE AUTHORIZATIONS & SPECIAL EMENTS
5.1	General Requirements
5.2	Authorization / Special Agreement Issuance Process
5.3	Reporting Requirements39
ARTICI	LE 6-ENFORCEMENT
6.1	Enforcement Actions41
6.2	Published Notices for Significant Non-Compliance
6.3	Remedies Non-Exclusive
6.4	Appeals
ARTICL	LE 7 – SEVERABILITY
7.1	Severability47

ARTICI	LE NO.	PAGE
ARTIC	CLE 8-REPEAL	
8.1	Repeal	48
ARTIC	LE 9-EFFECTIVE DATE	
9.1	Effective Date	49

#### **ARTICLE 1**

#### **GENERAL PROVISIONS**

#### 1.1 INTENT

It is the intent of this Ordinance to protect from any actual or threatened discharge which reasonably appears to present an imminent or substantial danger to the health or welfare of any Person or to the environment, or which reasonably appears to present imminent or substantial interference with the Public Owned Treatment Works (POTW), or which reasonably may cause Hidden Valley Lake Community Services District (District) to violate any condition of its regulatory permits.

#### 1.2 PURPOSE

- A. The purpose of this Ordinance is to set forth:
  - 1. Conditions and limitations on the use of the POTW;
  - 2. Specific enforcement provisions to resolve noncompliance with the

District's Ordinance, thereby allowing the District to:

a. Comply with the laws, regulations, and rules imposed upon it by

Regulatory Agencies; and

- b. Ensure that the POTW is protected from pass-through and/or interference and is able to operate with the highest degree of efficiency; and
- c. Protect the beneficial use of recycled water and municipal sludge;

and

d. Protect the public health and environment.

#### 1.3 POLICY

- A. This Ordinance shall be interpreted in accordance with the definitions set forth in Article 2. The provisions of this Ordinance shall apply to the direct and indirect discharge of all wastes to the POTW.
- B. The District shall seek the cooperation of the Users of the POTW to ensure compliance with this Ordinance. Reasonable approaches shall be utilized when applying applicable regulations without compromising the intent, purpose, and policies of this Ordinance.
- C. The District shall adopt more stringent quality requirements on wastewater discharges regulated by 40 Code of Federal Regulations (CFR), Chapter I, Subchapter N, Parts 405-471, in the event that more stringent quality requirements are necessary to protect beneficial use of recycled water and municipal sludge or meet additional requirements set in permits issued to the

District.

- D. The District shall encourage conservation and pollution prevention through General strategies, which reduce the amount of pollutants entering the environment, prior to recycling, Pretreatment, or disposal.
- E. The District shall use the revenues derived from the application of this Ordinance to defray the cost of regulating sewer usage to include, but not be limited to, administration, monitoring, permitting, reporting, and enforcement.
- F. All costs and expenses incurred by the plan check procedures of the District's General Manager of their designee shall be paid by the applicant. Plan check fees shall be in an amount adopted in Resolution No. 2018-XX, and any amendments thereto.
- G. The District shall ensure that all parties are afforded due process of law. An applicant or User shall be given written notice of rejection of an application, or Violation of this Ordinance, or any enforcement action. Such notice shall include a statement of reasons in support thereof and proposed actions to be taken, if any. Affected applicants or Users shall have the right to a hearing. Decisions/determinations may be appealed as set forth in Article 6.
- H. The District, at its discretion, may utilize any one, combination, or all enforcement remedies provided in Section 1.6 in response to any Violation.

#### 1.4 SCOPE

The provisions of these Regulations shall apply, but are not limited to sewer construction, use, maintenance, discharge, deposit, or disposal of Wastewater, both directly and indirectly, into the POTW.

#### 1.5 APPLICABILITY

This "Regulations for Waste Discharge and Sewer Use" Ordinance applies to all Users who discharge or have the potential to discharge Non-Domestic Wastewater to the POTW and are subject to regulation and enforcement.

#### 1.6 POWERS

- A. The General Manager is authorized to:
  - 1. Issue, modify, and reissue Waste Discharge Permits, Authorizations, Waivers and Special Agreements;
  - 2. Suspend, terminate and revoke Waste Discharge Permits, Authorizations, Waivers and Special Agreements;
  - 3. Require the installation and maintenance of Pretreatment Facilities and/or monitoring facilities and equipment;
  - 4. Require installation of equipment necessary to protect the POTW from possible discharges (i.e., spill, rain);
  - 5. Conduct inspections of facilities, including, but not limited to, inspecting and copying records;
  - 6. Require monitoring and reporting of discharges to the POTW:
  - 7. Monitor the quality of Wastewater entering the sewer system;
  - 8. Require the development of Spill Containment Plans and reporting of accidental discharges;
  - 9. Require the development of a Slug Control Plan (per 40 CFR 403.8);
  - 10. Deny, approve, or approve with conditions, new or increased discharges or change in the quantity or characteristics of discharges, when such discharges do not meet applicable pretreatment requirements as specified in 40 CFR 403.8.

- 11. Take enforcement actions against those who violate or cause violation of this Ordinance or discharge permit conditions. These actions may include, but are not limited to the following:
  - a. Issuing letters;
  - b. Issuing Notices of Violation;
  - c. Issuing Administrative Orders;
  - d. Issuing Emergency Suspensions;
  - e. Initiating and conducting non-compliance meetings;
  - f. Initiating and conducting administrative hearings;
  - g. Petitioning the courts for injunctions or civil penalties;
  - h. Signing criminal complaints;
  - i. Terminating services;
  - i. Requiring payment of violation charges:
  - k. Revoking and/or suspending the Waste Discharge Permit, Authorization, or Special Agreement.
  - I. To hear and rule on appeals.
- 12. Establish Policies and Standards applicable for discharges or potential discharges of Non-Domestic Wastewater.
- 13. Establish Best Management Practices applicable as Local Limits or individually.
- B. The General Manager is authorized to delegate authority to a designated representative any power granted to or the carrying out of any duty imposed upon the General Manager pursuant to this Ordinance.

#### 1.7 ACCESS

The District shall be permitted to enter all properties from which wastes or wastewaters are being or are capable of being discharged into a POTW for purposes of inspecting, observing, measuring, sampling, and testing pertinent to the discharge of wastes or wastewaters to ascertain whether the intent of

this Ordinance is being met and the User is complying with all requirements. The District shall have access at reasonable times to

all parts of the wastewater generating and disposal facilities for the purposes of inspection and sampling. The District shall have the right to set up on the User's property such devices as are necessary to conduct sampling or metering operations. Where a User has security measures in force, the User shall make necessary arrangements so that personnel from the District will be permitted to enter without delay for the purpose of performing their specific responsibilities.

#### 1.8 <u>INFORMATION REQUIRED</u>

- A. To provide for fair and equitable use of POTW, the District shall have the unqualified right to require a User to provide information necessary to insure compliance with all rules, regulations, and provisions of this Ordinance.
- B. All information and data on a User shall be available to the unless the User specifically requests and is able to demonstrate to the satisfaction of the District that the release of such information would divulge information, processes, or methods which would be detrimental to the User's competitive position. The demonstration of the need for confidentiality made by the User must meet the burden necessary for holding such information from the general public under applicable State and Federal law.
- C. In any event, the District shall not limit Environmental Protection Agency (EPA) or the Regional Water Quality Control Board's (RWQCB) access to any information provided by the User.
- D. In any event, information concerning Wastewater quality and quantity will not be deemed confidential. Such information may include, but is not limited to:
  - 1. Wastewater discharge peak flow rates and volume over a specified time period;
  - Physical, chemical, bacteriological, or radiological analysis of Wastewater;

- 3. Site and process flow diagrams and information on raw materials, processes, and products;
- 4. Quantity and disposition of specific liquid, sludge, oil, solvent, or other materials;
- 5. Details of Wastewater Pretreatment Facilities and their operation and maintenance;
- 6. Details of systems to prevent and control the losses of materials through spills to the POTW;
- 7. Detailed plumbing plans indicating all sources discharging to on and off-

site Sewer Laterals;

8. A Slug control program, per 40 CFR 403.8;

- Notification of discharges of a listed hazardous waste (Section 3001 of Resource Conservation Recovery Act (RCRA)) to the sewer system per 40 CFR 403.12;
- 10. Baseline monitoring reports per 40 CFR 403.12;
- Compliance progress reports in accordance with all provisions listed in 40
   CFR403.12:
- 12. Notification of potential problems, including Slugs in accordance with all provisions listed in 40 CFR 403.12;
- Prompt notification of substantial changes in volume or character of Pollutants discharged in accordance with all provisions listed in 40 CFR 403.12;
- 14. Monitoring and analysis reports demonstrating continued compliance in accordance with all provisions listed in 40 CFR 403.12.

#### 1.9 AUTHORITY

The District is regulated by several agencies of the United States Government and the State of California, pursuant to the provisions of Federal and State Law. Federal and State Laws (including, but not limited to: 1) Federal Water Pollution Control Act, commonly known as the Clean Water Act (33 U.S.C. § 1251 *et* seq.); 2) California Porter Cologne Water Quality Act (California Water Code§ 13000 *et* seq.); 3) California Health

& Safety Code sections 25100-25250; 4) Resource Conservation and Recovery Act of

1976 (42 U.S.C. § 6901 et seq.); and 5) California Government Code sections 54739-

54740) grant to the District the authority to regulate and/or prohibit, by the adoption of an ordinance, and by issuance of permits, authorizations, and special agreements, the discharge of any waste, directly or indirectly, to the POTW. Said authority Includes the right to establish limits, conditions, and prohibitions; to establish flow rates or prohibit flows discharged to the POTW; to require the development of compliance schedules for the installation of equipment, systems and materials by all Users; and to take all actions necessary to enforce its authority, whether within or outside the District boundaries, including those Users that are tributary to the District or within areas for which the District has contracted to provide sewerage services.

#### ARTICLE2

#### **DEFINITIONS**

#### 2.1 DEFINITIONS

- A. Where definitions contained within this document, conflict with definitions found in other documents or regulations, the definitions found herein shall take precedence and apply to discharges to HVLCSD POTW.
- B. The following abbreviations, when used in this Ordinance, shall have the designated meanings:
  - 1. BMP Best Management Practice
  - 2. BMR Baseline Monitoring Report
  - 3. BOD Biological Oxygen Demand
  - 4. CFR Code of Federal Regulations
  - 5. EPA Environmental Protection Agency
  - 6. GPO-Gallons Per Day
  - 7. HVLCSD- Hidden Valley Lake Community Services District (District)
  - 8. LWH Liquid Waste Hauler
  - 9. mg/L Milligram Per Liter
  - 10. NAICS- North American Industry Classification System
  - 11. NPDES National Pollutant Discharge Elimination System
  - 12. NSCIU-Non-significant Categorical Industrial User
  - 13. POTW- Public Owned Treatment Works
  - 14. RCRA-Resource Conservation Recovery Act
  - 15. RV Recreational Vehicle
  - 16. RWRF Regional Water Reclamation Facility

- 17. SIC- Standard Industrial Classification
- 18. SIU Significant Industrial User
- 19. SNC-Significant Non-Compliance
- 20. TDS-Total Dissolved Solids
- 21. TSS-Total Suspended Solids
- C. Unless a provision explicitly states otherwise, the following terms and phrases, as used in this Ordinance, shall have the meanings designated.
  - 1. <u>Applicant</u>- Any Person(s) who has applied for permission to discharge to the POTW.
  - 2. <u>Authorization</u> See Waste Discharge Authorization.
    - 3. <u>Authorized</u> <u>Representative:</u>
    - a. Responsible officer, if the User is a corporation or limited liability company, where that officer is the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including have the

explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Control Mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- b. By a general partner or proprietor if the User is a partnership or sole proprietorship respectively.
- c. If the User is a Federal, State, or local governmental entity or their agents, the principal executive officer or director having responsibility for the overall operation of the discharging facility.
- d. By a duly authorized representative of the individual designated in paragraph (a), (b), or (c) of this definition if:
  - 1.) The authorization is made in writing by the individual described in paragraph (a), (b), or (c);
  - 2.) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility or having overall responsibility for environmental matters for the company.
- 4. <u>Batch Discharge</u> The District approved intermittent discharge of Pollutants from sources such as, but not limited to, process tanks, holding tanks, rinse tanks, or treatment systems.
- 5. Best Management Practices (BMPs)- Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions in Article 3. BMPs include treatment requirements, operating procedures, and practices to control plant/site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

- 6. <u>Biochemical Oxygen Demand (BOO)</u> Quantity of oxygen, expressed in mg/L, required to biologically oxidize material in a waste or wastewater sample measured under approved laboratory methods for 5 days at 20°C.
- 7. <u>Board-</u> The Board of Directors of Hidden Valley Lake Community Services District (District).
- 8. <u>Categorical Pretreatment Standards</u> The final regulations promulgated and adopted by EPA (as outlined in 40 CFR 403, and 40 CFR, Chapter I, Subchapter N, 405-471) for each standard industrial classification (SIC)

or subcategory containing pollutant discharge limits.

- Categorical User Any User whose process(es) are subject to
   Categorical Pretreatment Standards.
- Categorical Wastewater Wastewater subject to Categorical
   Pretreatment Standards.
- 11. <u>Cesspool</u> A lined excavation in the ground which receives the discharge of a sewage drainage system, or part thereof, so designed as to retain the solids and organic matter, but permitting liquids to seep out.
- 12. <u>Code of Federal Regulations (CFR)-</u> The codification of the general and permanent rules published in the United States Federal Register by the Executive departments and agencies of the Federal Government to include but not limited to the Environmental Protection Agency.
- 13. <u>Collection System</u> The combined pipes, conduits, manholes, pumping stations and other structures, above and below ground, whose purpose is to convey wastewater to a District RWRF.
- 14. Combined Wastestream Formula Formula as outlined in the General Pretreatment Regulations of the Clean Water Act, Title 40 Code of Federal Regulations for determining wastewater discharge limitations for Categorical Users and Significant Industrial Users whose effluent is a mixture of regulated, unregulated and dilution wastewater as defined in the formula.
- 15. Compatible or Conventional Pollutant A combination of BOD, Total Suspended Solids, pH, fecal coliform bacteria, plus other Pollutants that the District's RWRF is designed to accept, treat, and/or remove. Some compatible pollutants may be considered incompatible when discharged in quantities that have an adverse effect on the collection, treatment, disposal systems and/or discharge permit regulating the RWRFs causing Interference or Pass Through.
- 16. <u>Compliance Schedule</u> An enforceable time schedule containing increments of progress called milestones or deadlines. These milestones shall be for the commencement and/or completion of major actions leading to the construction and operation of additional pretreatment facilities or the implementation of policies, procedures, or operational management techniques required for the User to comply with all applicable

Federal, State or local environmental regulations which may directly or indirectly affect the quality of the User's Wastewater effluent.

17. Composite Sample - A sample that is collected over time, either by continuous sampling or by mixing a minimum of four (4) discreet sample aliquots representative of the discharge during a twenty-four (24) hour period. The composite sample may be either as a time composite sample, composed of discreet sample aliquots collected in one (1) containment at constant time intervals, providing representative samples irrespective or

- stream flow; or as a flow proportional composite sample collected as a constant sample volume at timed intervals proportional to stream flow.
- 18. <u>Control Mechanism</u> Waste Discharge Permit, Water Discharge Authorization or Special Agreement.
- 19. <u>Designee</u> Person duly designated by the General Manager to direct and perform the duties as specified in this Ordinance.
- 20. <u>Dilution</u> Increase in use of process water, potable water or any other means to dilute a discharge as a partial or complete substitute for adequate treatment to achieve discharge requirements.
- 21. <u>Direct User</u> Any User who discharges, causes a discharge, or has a potential to discharge a Non-Domestic Wastewater to the Collection System.
- 22. <u>Discharge Requirements</u> The requirements of Federal (as listed in 40 CFR 403), State, or local public agencies having jurisdiction over the effluent discharges from District RWRF.
- 23. District- Hidden Valley Lake Community Services District (HVLCSD).
- 24. <u>Domestic Wastewater</u>- The liquid and solid waterborne wastes derived from the ordinary living processes of humans of such character as to permit satisfactory disposal, without special treatment, into the public sewer or by means of a private disposal system.
- Effluent Treated wastewater flowing from a POTW or a User's
   Pretreatment Facilities.
- 26. <u>General Manager</u> The General Manager of Hidden Valley Lake Community Services District or their designee.
- 27. <u>Grab Sample</u>- A sample taken from a waste stream without regard to the flow of the waste stream and over a period of time not to exceed fifteen (15) minutes.
- 28. <u>Hearing Officer</u> The Person designated by the General Manager to conduct an administrative hearing.

- Incompatible or Non-Conventional Pollutant- Any Pollutant which is not a Compatible Pollutant as defined herein.
- 30. <u>Indirect User</u>- Any User who discharges or has a potential to discharge Wastewater to a Septic Tank, Cesspool, chemical toilet, or private sewer system which, from time to time, is serviced by a Liquid Waste Hauler permitted by the District to discharge to a designated POTW.

- 31. <u>Infectious Agent</u> A type of microorganism, bacteria, mold, parasite, or virus, including, but not limited to, organisms managed as Biosafety Level II, III, or IV by the Federal Centers for Disease Control and Prevention, that normally cause, or significantly contributes to the cause of, increased morbidity or mortality of human being. (California Health and Safety Code, Section 117675)
- 32. <u>Inspector</u> Any representative of the District authorized by the General Manager to inspect any establishment directly or indirectly discharging or anticipating discharge to the POTW.
- 33. <u>Interceptor</u> The District approved equipment to remove floatable and settleable material from Wastewater prior to discharge.
- 34. <u>Interference</u> A discharge by a User which, alone or in conjunction with discharges by other sources, inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and which is a cause of a violation of any requirement of the RWRF's discharge order and/or NPDES Permit (including an increase in the magnitude or duration of a violation), or of the prevention of sewage sludge use or disposal in compliance with applicable Federal, State, and local regulations (per 40 CFR 403.3 (I)).
- 35. <u>Liquid Waste Hauler (LWH)</u> Any pumper that is permitted by the County of Lake as a Non-Hazardous Liquid Waste Hauler, discharging domestic and sanitary wastewater only. This may also mean septic tank pumper.
- 36. <u>Local Limits</u> A set of technically based, enforceable, discharge limits implemented by the District for Pollutants that may cause Interference, Pass Through, sludge contamination, or worker health and public safety problems if discharged in excess to a POTW.
- 37. <u>Mass Emission Rate</u> The weight of material discharged to the sewer system during a given time interval. Unless otherwise specified, the mass emission rate shall mean pounds per day of particular constituent or combination of constituents.
- 38. <u>Milestone</u> Deadline established in a Compliance Schedule for specified increments. No increment shall exceed nine (9) months.
- 39. <u>Monitoring Facilities</u> Structure(s) and equipment approved by The District and provided at the User's expense for The District or the User

to measure and record Wastewater Pollutant levels, flow and collect representative Wastewater samples.

40. <u>NAICS</u> - North American Industry Classification System published by the Executive Office of the President of the United States, Office of Management and Budget.

- 41. New Source Any building, structure, facility, or installation from which there is or may be a discharge of Pollutants, the construction of which commenced after the publication of proposed Categorical Pretreatment Standards under section 307c of the Act. (40 CFR 403.3K Definitions)
- 42. <u>Non-Domestic Wastewater</u> All Wastewater other than Domestic Wastewater.
- 43. Non-Significant Categorical Industrial User (NSCIU) Categorical Users who discharge less than 100 gallons day (gpd) of total categorical wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater, unless specifically included in the Categorical Pretreatment Standard), including zero discharging Categorical Users.
- 44. Oil and Grease Any petroleum derived products (e.g., oils, fuels, lubricants, solvents, cutting oils, mineral oils), any vegetable derived products (e.g., oils, shortenings, water soluble cutting oils, etc.) or any animal derived products (e.g., fats, greases, oils, etc.) in part or in combination.
- 45. <u>Pass Through</u> The discharge of pollutants through the RWRF in quantities or concentrations which are a cause in whole or in part of a violation of any requirement of the RWRF's discharge order including an increase in the magnitude or duration of a violation (40 CFR 403.3).
- 46. Permitted User User regulated by a permit.
- 47. <u>Permittee</u> A User who has applied for and received a permit to discharge into a POTW and is subject to the requirements and conditions established by the District.
- 48. <u>Person</u> Any individual, partnership, firm, association, corporation, tribe, or public agency, including the State of California and the United States of America.
- 49. <u>Pollutant</u> Any constituent or characteristic of Wastewater on which a discharge limitation or prohibition may be imposed either by the District or the regulatory agencies empowered to regulate the District.
- 50. <u>Publicly Owned Treatment Works (POTW)</u> Means the treatment works owned by HVLCSD and all pumping stations, sewers, pipes, and other

conveyances owned by public entities, including but not limited to cities, other agencies, and tribes connected to the treatment works.

51. Pretreatment - The reduction of the amount of Pollutants, the elimination of Pollutants, or the alteration of the nature of Pollutant properties in Wastewater prior to, or in lieu of, introducing such Pollutants into the POTW. This reduction or alteration can be obtained by physical, chemical, or biological processes; by process changes; or by other means, except by diluting the concentration of the Pollutants unless allowed by an applicable Categorical Pretreatment Standard.

- 52. <u>Pretreatment Facilities</u> Any works or devices for the treatment or flow control of Wastewater prior to discharge.
- 53. <u>Pretreatment Requirements</u> Any requirement related to Pretreatment imposed on a User, other than a Pretreatment Standard.
- 54. <u>Pretreatment Standard or Standards</u> Prohibited discharge standards, Categorical Pretreatment Standards, and local limits.
- 55. <u>Priority Pollutants</u> The listing of toxic pollutants as identified in 40 CFR 401.15.
- 56. <u>Public Agency</u> Any Federal, State or local authority.
- 57. Public Nuisance Anything which: (1) is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property, and (2) affects at the same time an entire community or neighborhood, or any number of Persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal, and (3) occurs during or as a result of the treatment or disposal of waste to the POTW.
- 58. <u>Qualified Professional</u> Any Person who by virtue of education, training, or experience is qualified to evaluate and assess Pollutant discharges and violations of this Ordinance.
- 59. <u>RCRA</u> Resource Conservation and Recovery Act of 1976, and its regulations as found in 40 CFR Parts 260-266 and Part 270 as amended.
- 60. Recreational Vehicle (RV) Recreational Vehicle as defined in Health and Safety Code section 18010.
- 61. Regional Water Quality Control Boards (RWQCB) Develops and enforce water quality objectives and implementation plans that will best protect the beneficial uses of the State's waters. The RWQCB issue HVLCSD a wastewater treatment and disposal Permit. The Central Valley RWQCB (Sacramento Office) RWQCB regulates this Permit and any future pretreatment program administered by HVLCSD.

- 62. <u>Regional Water Reclamation Facility (RWRF)</u> The District sewage treatment plant designed to serve a specific area of the District.
- 63. <u>Regeneration Cycle</u> Liquid used to exchange the chemistry in an ion exchange unit.
- 64. <u>Regulatory Agencies</u> Those agencies having oversight of the operation of the District, including but not limited to the following:
  - a. United States Environmental Protection Agency (EPA);
  - b. California Environmental Protection Agency (Cal-EPA);
  - c. California State Water Resources Control Board (SWRCB);
  - d. California Regional Water Quality Control Board, Central Valley (Sacramento Office);
  - e. California Department of Public Health (CDPH);
  - f. Lake County Department of Environmental Health.
  - 65. RV Holding Tanks A RV tank designed to hold Domestic Wastewater.
- 66. <u>Sample Aliquot</u> A portion of a total amount of a solution or media used for analytical testing.
- 67. <u>Sanitary Wastewater</u> Domestic Wastewater from other than a dwelling unit.
- 68. <u>Self-Monitoring</u> Wastewater samples taken by a User or User's contracted laboratory, consultant, engineer, or similar entity.
- 69. <u>Septic Tank</u> A watertight receptacle which receives the discharge from a sewer system and is designed and constructed to retain solids, digest organic matter through a period of detention, and allows the liquids to discharge for disposal.
- 70. <u>Sewer Lateral</u> POTW owned piping and appurtenances extending from the sewer pipeline to the private sewer system at the boundary line of the User's property or POTW's easement.

# 71. <u>Significant Industrial User (SIU):</u>

- a. A User subject to Categorical Pretreatment Standards; or;
- b. A User that:
  - 1.) Discharges an average of twenty-five thousand (25,000) gpd or more of process wastewater to the POTW (excluding sanitary, non-contact cooling, and boiler blowdown wastewater);
  - Contributes a process wastewater which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the RWRF; or
  - 3.) Is designated as such by the District on the basis that it has a reasonable potential for adversely affecting the RWRF's operation or for violating any Pretreatment Standard or Pretreatment Requirement.
- c. Upon a finding that a User meeting the criteria in subsection b.3. has no reasonable potential for adversely affecting the RWRFs operation or for violating any Pretreatment Standard or Pretreatment Requirement, the District may at any time, on its own initiative or in response to a petition received from a User,

and in accordance with procedures in 40 CFR 403.8, determine that such User should not be considered a Significant Industrial User.

- 72. Significant Non-Compliance (SNC)
   Any SIU with compliance violations which meet one or more of the following criteria:
  - a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all of the measurements taken for the same pollutant parameter during a six-month (6) period exceed (by any magnitude) a numeric Pretreatment Standard or Pretreatment Requirement, including instantaneous limits, as defined by 40 CFR 403.3;
  - b. Technical review criteria (TRC) violations, defined here as thirtv-three those in which percent (33%) more of all of the measurements taken for the same pollutant parameter during a six-month (6) period equal or exceed the product of the numeric Pretreatment Standard Pretreatment Requirement, including or instantaneous limits, as defined by 40 CFR 403.3, multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except :(Ha
  - c. Any other violation of a Pretreatment Standard or Pretreatment Requirement as defined by 40 CFR 403.3 (daily maximum, long- term average, instantaneous limit, or narrative Standard) that the General Manager determines has caused, alone or in combination with other discharges, Interference or Pass Through (including endangering the health of District personnel or the general public);
  - d. Any discharge of a Pollutant that has caused imminent endangerment to human health or welfare or to the environment or has resulted in the District's exercise of its emergency authority to halt or prevent such a discharge;

- e. Failure to meet, by ninety (90) days or more after the schedule date, a Milestone contained in a local Control Mechanism or enforcement order, for starting construction, completing construction, or attaining final compliance;
- f. Failure to provide, within forty-five (45) days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with Compliance Schedules;
- g. Failure to accurately report non-compliance;
- h. Any other Violation or group of Violations, which may include violation of BMPs, which the General Manager determines will adversely affect the operation or implementation of a local Pretreatment program.

- 73. <u>Single Pass Cooling Water</u> Water that is used solely for the purpose of cooling and is used only once before being discharged.
- 74. <u>Slug</u> Any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way contribute to the POTW violating any requirements.
- 75. <u>General Officer</u> The Person duly designated by the General Manager (Generally the Water Resources Specialist) to develop and implement the District's Regulations for Waste Discharge and Sewer Use and performs the duties as specified in this Ordinance and the Enforcement Response Plan for this Ordinance.
- 76. Special Agreement(s) A short term revocable permission to discharge Wastewater to the POTW, subject to Ordinance 59 and policies and standards established by the Board of Directors.
- 77. <u>Spill Containment</u> A protection system installed by the User and at the users expense, to prohibit the accidental discharge of Pollutants to the sewer.
- 78. <u>Standard Industrial Classification (SIC)</u> The system of classifying industries issued by the U.S. Office of Management and Budget.
- 79. <u>Total Dissolved Solids (TDS)</u> The unfilterable residue of the combined content of all inorganic and organic substances contained in a liquid.
- 80. <u>Total Inorganic Nitrogen (TIN)</u> The summation of inorganic nitrogen including ammonia nitrogen, nitrate nitrogen, and nitrite nitrogen.
- 81. <u>Total Suspended Solids (TSS)</u> The total amount of residue retained by laboratory filtration and dried at 103-105° C.
- 82. <u>Toxic Pollutants</u> Those Pollutants, or combinations of Pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will, on the basis of information available to the General Manager, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunctions in reproduction), or physical deformations, in such organisms or their offspring.

- 83. <u>User</u> Any Person who discharges or has a potential to discharge Non-Domestic Wastewater directly or indirectly to a POTW.
- 84. <u>Violation</u> Failure by a User to comply with this Ordinance or any Waste Discharge Permit, Waste Discharge Authorization, Special Agreement, and/or policies and standards established by the District.
- 85. <u>Waste(s)</u> Any discarded solid, semi-solid, liquid or gaseous material.

- 86. <u>Waste Discharge Authorization (WDA)</u> The revocable permission to discharge Wastewater to the POTW, subject to this Ordinance and policies and standards established by the District.
- 87. <u>Waste Discharge Permit (WDP)</u> The periodically renewable, revocable permission to discharge Wastewater to the POTW, subject to technically based limits on wastewater constituents and characteristics.
- 88. <u>Wastewater</u> Liquid and water-carried wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the POTW.

## 2.2 OTHER MEANINGS

Words used in this Ordinance in the singular shall include the plural and the plural the singular. Use of masculine shall also mean feminine and use of feminine shall also mean masculine. Shall is mandatory; may is permissive or discretionary.

#### ARTICLE 3

### GENERAL SEWER USE REQUIREMENTS

# 3.1 PROHIBITED DISCHARGE STANDARDS

## A. <u>General Prohibitions</u>

No User shall introduce or cause to be introduced into the POTW any Pollutant or Wastewater, which, alone or in conjunction with other substances, causes Interference or Pass Through. These general prohibitions apply to all Users whether or not they are subject to Categorical Pretreatment Standards or any other Federal, State or local Pretreatment Standards or Pretreatment Requirements.

## B. Specific Prohibitions

No User shall introduce or cause to be introduced into the POTW includes the sanitary sewer collection system) the following Pollutants, substances or Wastewater:

- 1. Pollutants which create a fire or explosive hazard in the POTW including, but not limited to Wastewater with a closed-cup flashpoint of less than
  - 140" F (60° C) using the test methods specified in 40 CFR 261.21;
- 2. Wastewater having a pH less than 5.0 or more than 11.0 or otherwise causing corrosive structural damage to the POTW;
- 3. Solid or viscous substances in amounts which will cause obstruction of the flow in the POTW resulting in blockage or interference, but in no case solids greater than 3/8 inches In any dimension; (e.g. construction debris, corn meal, dirt, sand, gravel, oil, grease, etc.)
- 4. Pollutants, including oxygen-demanding Pollutants (BOD, etc.), released in a discharge at a flow rate and/or Pollutant concentration which, either singly or by interaction with other Pollutants, will cause Interference with the POTW:

- 5. Wastewater having a temperature greater than 140" F {60° C}, or which will inhibit biological activity in the RWRF resulting in Interference, but in no case Wastewater which causes the temperature at the introduction into the RWRF to exceed 104° F {40° C);
- 6. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause Interference or Pass Through;
- 7. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

- 8. Noxious or malodorous liquids, gases, solids, or other Wastewater which, either singly or by interaction with other wastes, are sufficient to create a Public Nuisance or a hazard to life or to prevent entry into the sewers for maintenance or repair;
- 9. Wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the RWRF's effluent:
- 10. Wastewater containing any radioactive wastes or isotopes except in compliance with applicable State or Federal regulations;
- 11. Sludge's, screening, or other residues from the Pretreatment of industrial wastes;
- 12. Detergents, surface-active agents, or other substances which may cause excessive foaming in the POTW;
- 13. Wastewater required to be manifested under RCRA.
- 14. Infectious agents as defined in the California Health and Safety Code.

### C. Other Prohibitions

- 1. Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, deionized water, Single Pass Cooling Water and Wastewater free of Pollutants, unless specifically authorized by the General Manager.
- 2. Pollutants, substances, or Wastewater prohibited by this section shall not be processed or stored in such a manner that they could be discharged to the POTW.
- 3. Trucked or hauled Pollutants except at discharge points designated by the General Manager; provided, however, RV wastes may be discharged to User-owned sewer facilities.
- 4. Any procedure, chemical addition, or physical modification that will result in bypass or pass-through of required pretreatment equipment.

## 3.2 CATEGORICAL PRETREATMENT STANDARDS

- A. The Categorical Pretreatment Standards found at 40 CFR Chapter I, SubchapterN, Parts 405-471 are hereby incorporated.
- Where a Categorical Pretreatment Standard is expressed only in terms of either the mass or the concentration of a Pollutant in Wastewater, the General Manager may impose equivalent concentration or mass limits in accordance with 40 CFR 403.6.

- C. When Wastewater subject to a Categorical Pretreatment Standard is mixed with Wastewater not regulated by the same standard, the General Manager shall impose an alternate limit using the combined waste stream formula, and requirements in 40 CFR 403.6.
- D. A User may obtain a variance from a Categorical Pretreatment Standard if the User can prove, pursuant to the procedural and substantive provisions in 40 CFR 403.13, that factors relating to its discharge are fundamentally different from the factors considered by EPA when developing the Categorical Pretreatment Standard
- E. A User may obtain a net gross adjustment to a Categorical Pretreatment Standard in accordance with 40 CFR 403.15.

### 3.3 LOCAL LIMITS

- A. No Permitted User shall discharge or cause to be introduced directly or indirectly into the District's or contributing agency's collection system, a quantity or quality of Wastewater which exceeds the Local Limits on discharges to the POTW established by the District. Once Local Limits are established, they will be set forth by Resolution as amended.
- B. Local Limits apply at the point where the Wastewater is discharged to the POTW, except for BMPs, which are applied at the end of the process and any subsequent treatment. The General Manager may impose limitations based on concentrations of Pollutants in milligrams per liter or as an amount of Pollutants in pounds per day.

#### 3.4 BEST MANAGEMENT PRACTICES

No User shall discharge wastewater to the POTW contrary to the BMPs established by the District.

#### 3.5 POLICIES AND STANDARDS

No User shall discharge Wastewater to the POTW contrary to the policies and standards established by the District.

#### 3.6 LIMITATIONS OF TOTAL DISSOLVED SOLIDS (TDS)

- A. The General Manager may limit the total loading of TDS to preserve the beneficial use of recycled water or to comply with environmental or regulatory requirements issued to the District by:
  - 1. Prohibiting Users from discharging the regeneration cycle from any water-conditioning appliance, including but not limited to water softeners or conditioners, to the POTW;
  - 2. Regulating the residential use of water softeners or water conditioners in accordance with California law, including California Health and Safety Code sections 116775-116795; and

3. Issuing permits, applying BMPs, or implementing policies and standards for any Wastewater discharges regulated by this Ordinance.

### 3.7 RIGHT OF REVISION

The District reserves the right to establish, by ordinance or in Waste Discharge Permits, Waste Discharge Authorizations, and Special Agreements, more stringent requirements on discharges to the POTW.

#### 3.8 DILUTION

No User shall ever increase the use of process water or, in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Pretreatment Requirement. The General Manager may impose mass limitations on the amount, in pounds per day, of pollutants discharged by Users who are using dilution to meet applicable Pretreatment Standards or Pretreatment Requirements, or in other cases when the imposition of mass limitations is appropriate.

#### 3.9 CESSPOOL, SEPTIC TANK, HOLDING TANK AND, HAULED WASTES

- A. Hauled waste from Cesspools, Septic Tanks, portable toilets, and holding tanks (excluding RV's containing only domestic and/or sanitary wastes) will be accepted only at District-designated locations.
- B. The General Manager may accept other hauled waste at District-designated locations.
- C. No Liquid Waste Hauler discharging septic waste or sanitary waste shall discharge constituents in excess of the limits specified in the respective Waste Discharge Permit based on the limits for Liquid Waste Haulers discharging domestic waste as set forth in local, state and/or federal rules or regulations as amended.

### 3.10 ACCESS TO DISTRICT FACILITIES

No Person shall access, enter, break, damage, destroy, uncover, deface, tamper with, or discharge to any temporary or permanent structure, equipment, or appurtenance, which is part of the POTW without prior approval by the General Manager.

#### ARTICLE4

#### WASTE DISCHARGE PERMIT AND PERMIT REPORTING REQUIREMENTS

#### 4.1 GENERAL REQUIREMENTS

#### A. Wastewater Analysis

When requested by the General Manager, a User shall submit information on the nature and characteristics of its Wastewater and other associated and pertinent information within sixty (60) days of the request. The General Manager is authorized to require Users to update this information periodically.

#### B. Waste Discharge Permit Requirements

- 1. No Significant Industrial User (SIU) shall discharge Wastewater into the POTW without first obtaining a Waste Discharge Permit.
- 2. A Significant Industrial User that has filed a timely application pursuant to Section 4.1.D of this Ordinance may continue to discharge for the time period specified therein.
- 3. The General Manager may require other Users to obtain a Waste Discharge Permit as necessary to carry out the purposes of this Ordinance.
- 4. Any violation of the terms and conditions of a Waste Discharge Permit shall be deemed a violation of this Ordinance and subject the User to the sanctions set out in Article 6 of this Ordinance. Obtaining a Waste Discharge Permit does not relieve the User of its obligation to comply with all Federal and State Pretreatment Standards or Pretreatment Requirements or with any other requirements of Federal, State and local law.
- 5. The District may determine that a User subject to Categorical Pretreatment Standards is a Non-Significant Categorical Industrial User (NSCIU) rather than a Significant Industrial User on a finding that the User never discharges more than 100 gpd of total Categorical Wastewater (excluding sanitary, non-contact cooling and boiler blow

down, unless specifically included in the Pretreatment Standards) and the following conditions are met:

- a. The User, prior to POTW finding, has consistently complied with allapplicable Categorical Pretreatment Standards and Pretreatment Requirements; and
- b. The User annually submits the certification statement required in Section 4.3.J together with any additional information necessary to support the certification statement; and

- c. The User never discharges any untreated concentrated Wastewater.
- 6. Upon a finding that a User meeting the criteria above has no reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Pretreatment Requirement, the District may at any time, on its own initiative or in response to a petition received from a User, and in accordance with procedures in 40 CFR 403.8, determine that such User should not be considered a Significant Industrial User.

### C. Issuing Waste Discharge Permits: New Connections

Users who propose to begin or restart a discharge to the POTW must apply for a Waste Discharge Permit at least sixty (60) days prior to any discharge.

#### D. <u>Issuing Waste Discharge Permits: Existing Connections</u>

Any User required to obtain a Waste Discharge Permit due to requirements in this Ordinance who was discharging Wastewater into the POTW prior to the effective date of the requirements and who wishes to continue such discharges in the future, shall, within ninety (90) days after said date, apply for a Waste Discharge Permit in accordance with Section 4.1.E of this Ordinance, and shall not cause or allow discharges to the POTW to continue after one hundred twenty (120) days of the effective date of the Ordinance except in accordance with a Waste Discharge Permit issued by the General Manager.

## E. Waste Discharge Application Contents

- 1. All Users required to obtain a Waste Discharge Permit must submit a Waste Discharge Application. The General Manager may require any User to submit as a part of an application the following information:
  - a. All information required in Section 4.3.A.2 of this Ordinance:
  - b. Physical, chemical, bacteriological, radiological analysis of Wastewater;
  - Description of activities, facilities, and plant processes on the premises, including a list of all raw materials and chemicals used or stored at the facility which are or could accidentally or intentionally be discharged to the POTW;

- d. Number and type of employees, hours of operation, and proposed or actual hours of operation;
- e. Each product produced by type, amount, process or processes, and rate of production;
- f. (1) Type and amount of raw materials processed (average and maximum per day); (2) quantity, disposition, and method of disposal of specific liquid, sludge, oil, solvent, or other material;

- g. (1) Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation, and all points of discharge; (2) details of Wastewater; (3) details of Pretreatment Facilities and their operation and maintenance; (4) details of systems to prevent and control the losses of materials through spills to the POTW;
- h. (1) Time and duration of discharges; (2) detailed plumbing plans indicating all sources discharging to the on or off-site Sewer Lateral;
- i. Any other information as may be deemed necessary by the General Manager to evaluate the Waste Discharge Application.
- 2. Incomplete or inaccurate applications will not be processed and will be returned to the User for revision.

### F. <u>Signatories and Certification</u>

All Waste Discharge Applications, BMP's, NSCIU Reports, and Categorical Standard Compliance Deadline Reports must be signed by an Authorized Representative of the User and contain the following certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

### G. Waste Discharge Permit Decisions

The General Manager will evaluate the data furnished by the User and may require additional information. Within thirty (30) days of receipt of a complete Waste Discharge Application, the General Manager will determine whether or not to issue a Waste Discharge Permit. The General Manager may deny any application for a Waste Discharge Permit.

#### 4.2 WASTE DISCHARGE PERMIT ISSUANCE PROCESS

# A. Waste Discharge Permit Duration

A Waste Discharge Permit shall be issued for a specified time period, not to exceed five (5) years from the effective date of the Waste Discharge Permit. A Waste Discharge Permit may be issued for a period less than five (5) years, at the discretion of the General Manager. Each Waste Discharge Permit will indicate a specific date upon which it will expire.

# B. <u>Waste Discharge Permit Contents</u>

- 1. Waste Discharge Permits shall contain:
  - a. A statement that indicates Waste Discharge Permit duration, which in no event shall exceed five (5) years;
  - A statement that the Waste Discharge Permit is non-transferable without prior notification to the District in accordance with Section
     4.2.E of this Ordinance, and provisions for furnishing the new owner or operator with a copy of the existing Waste Discharge

Permit;

- c. Effluent limits, including BMPs, based on applicable general Pretreatment Standards in 40 CFR 403, Categorical Pretreatment Standards, Local Limits, and State and local law;
- d. Self-monitoring, sampling, reporting, notification, record keeping requirements, an identification of the Pollutants to be monitored (including the process for seeking a waiver for a Pollutant neither present nor expected to be present In the discharge in accordance with 40 CFR 403.12, or a specified waived Pollutant in the case of an individual waste Discharge Permit), sampling location, sampling frequency, and sample type, based on the applicable general Pretreatment Standards in 40 CFR 403, Categorical Pretreatment Standards, Local Limits, and State and local law:
- e. A statement of applicable civil and criminal penalties for Violations of Pretreatment Standards and Pretreatment Requirements, and any applicable Compliance Schedule. Such Compliance Schedule may not extend the time for compliance beyond that required by applicable Federal, State, or local law;
- f. Requirements to control Slugs.

- 2. Waste Discharge Permits may contain, but need not be limited to, the following conditions:
  - a. Limits on the average and/or maximum rate of discharge, time of discharge, and/or requirements for flow regulation and equalization;
  - b. Requirements for the Installation and maintenance of pretreatment technology, pollution control, or construction of appropriate containment devices designed to reduce, eliminate or prevent the introduction of Pollutants into the POTW:
  - c. Requirements for the development and implementation of spill control plans or other special conditions including management

practices necessary to adequately prevent accidental, unanticipated, or routine discharges;

- d. Development and implementation of waste minimization plans to reduce the amount of Pollutants discharged to the POTW;
- e. Requirements for installation and maintenance of inspection and monitoring facilities and equipment;
- f. A statement that compliance with the Waste Discharge Permit does not relieve the permittee of responsibility for compliance with all applicable Federal and State Pretreatment Standards, including those which become effective during the term of the Waste Discharge Permit; and
- g. Other conditions as deemed appropriate by the General Manager to ensure compliance with this Ordinance and Federal, State, and local laws, rules and regulations.

# C. Waste Discharge Permit Appeals

- 1. Any Person, including the User, may petition the General Manager to reconsider the provisions of a Waste Discharge Permit within thirty (30) days of notice of its issuance.
  - a. In its petition, the appealing party shall indicate the Waste Discharge Permit provisions objected to, the reasons for objection, and the alternative provisions, if any, it seeks to place in the Waste Discharge Permit.
  - b. The effectiveness of the Waste Discharge Permit shall not be stayed pending the appeal.
- 2. Failure to submit a timely petition for reconsideration shall be deemed to be a waiver of the administrative appeal.
- 3. If the General Manager fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied.

- 4. Any person, including the User, may petition the Board of Directors to reconsider the decision of the General Manager.
- 5. If the Board of Directors fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied. Decisions not to issue a Waste Discharge Permit, not to reconsider the provisions of a Waste Discharge Permit, or not to modify the provisions of a Waste Discharge Permit shall be considered final administrative actions for the purposes of judicial review.

6. Any party aggrieved by a final Waste Discharge Permit action may obtain review of the action by filing in court a petition for writ of mandate within ninety (90) days following the effective date of the action. If no aggrieved party petitions for writ of mandate within the time provided by this section, a final Waste Discharge Permit administrative action shall not be subject to review by any court or agency. The evidence before the court shall consist of the record before the General Manager, and any other relevant evidence, which in the judgment of the court, should be considered to effectuate and implement the policies of this Ordinance. Except as otherwise provided in this section, subdivisions (e) and (f) of Code of Civil Procedure section 1094.5 shall govern proceedings pursuant to this section.

## D. <u>Waste Discharge Permit Modification</u>

- 1. The General Manager may modify a Waste Discharge Permit for good cause including, but not limited to, the following reasons:
  - a. To incorporate any new or revised Federal, State or local Pretreatment Standards or Pretreatment Requirements;
  - b. To address significant alterations or additions to the User's operation processes, or Wastewater volume or character since the time of Waste Discharge Permit issuance;
  - c. A change in the POTW that requires either a temporary or permanent reduction or elimination of the permitted discharge;
  - d. Information indicating that the permitted discharge poses a threat to the POTW, POTW personnel, the receiving water, or the public;
  - e. Violation of any terms or conditions of the Waste Discharge Permit:
  - f. Misrepresentation or failure to fully disclose all relevant facts in the
     Waste Discharge Application or in any required reporting;
  - g. Revision of or a grant of variance from such Categorical Pretreatment Standards pursuant to 40 CFR 403.13;

- h. Correction of typographical or other errors in the Waste Discharge Permit; or
- i. To reflect a transfer of the facility ownership or operation to a new owner or operator.

# E. <u>Waste Discharge Permit Transfer</u>

1. Waste Discharge Permits may be transferred to a new owner or operator only if the permittee gives at least thirty (30) days advance notice to the General Manager and the General Manager approves the Waste

Discharge Permit transfer. The notice to the General Manager must include a written certification by the new owner or operator which:

- a. States that the new owner and/or operator has no immediate intent to change the facility's operations and processes;
- b. Identifies the specific date on which the transfer is to occur;
- c. Acknowledges full responsibility for complying with the existing Waste Discharge Permit; and
- d. States that the new owner and/or operator has obtained a copy of the existing Waste Discharge Permit.
- Failure to provide advance notice of a transfer renders the Waste
   Discharge Permit void as of the date of facility transfer.

# F. Waste Discharge Permit Revocation

- 1. A Waste Discharge Permit may be revoked for good cause including, but not limited to the following reasons:
  - Failure to notify the General Manager of significant changes to the
     Wastewater prior to the changed discharge;
  - b. Failure to provide prior notification to the General Manager of changed conditions pursuant to Section 4.3.E of this Ordinance;
  - Misrepresentation or failure to fully disclose all relevant facts in the
     Waste Discharge Application;
  - d. Falsifying self-monitoring reports:
  - e. Tampering with monitoring equipment;

- f. Refusing to allow the General Manager timely access to the facility premises and records;
- g. Failure to meet effluent limitations;
- h. Failure to pay penalties;
- i. Failure to pay sewer charges;
- j. Failure to meet Compliance Schedules;
- k. Failure to complete a Wastewater survey or the Waste DischargeApplication;
- I. Failure to provide advance notice of the transfer of business ownership of a permitted facility; or

- m. Violation of any Pretreatment Standard or Pretreatment Requirement, or any terms of the Waste Discharge Permit or this Ordinance.
- 2. Waste Discharge Permits shall be voidable upon cessation of operations.
- 3. A Waste Discharge Permit issued to a particular User is void when the new Waste Discharge Permit to that User becomes effective.
- 4. Waste Discharge Permit revocation is subject to appeal as set forth in Section 6.4.

### G. Waste Discharge Permit Reissuance

A User with an expiring Waste Discharge Permit shall apply for Waste Discharge Permit re-issuance by submitting a complete Waste Discharge Application (or a statement signed by the Authorized Representative that there are no changes to the application previously submitted), in accordance with Section 4.1.E of this Ordinance, at least sixty (60) days prior to the expiration of the User's existing Waste Discharge Permit.

#### 4.3 REPORTING REQUIREMENTS

#### A. <u>Baseline Monitoring Reports</u>

- 1. Baseline Monitoring Requirements
  - a. Within the later of (1) one hundred eighty (180) days after the effective date of a Categorical Pretreatment Standard, or (2) the final administrative decision on a category determination under 40

CFR 403.6, existing Categorical Users currently discharging to or scheduled to discharge to the POTW shall submit to the General Manager a report which contains the information listed in Section 4.3.A.2. At least ninety (90) days prior to commencement of their discharge, New Sources, and sources that become Categorical Users subsequent to the promulgation of an applicable Categorical Pretreatment Standard, shall submit to the General Manager a report, which contains the information listed in Section 4.3.A.2. A New Source shall report the method of Pretreatment it intends to use to meet applicable Categorical Pretreatment

- Standards. A New Source shall also give estimates of its anticipated flow and quantity of Pollutants to be discharged.
- b. The Baseline Monitoring Report shall indicate the time, date, and place of sampling and the methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected Pollutant discharges to the POTW.
- The General Manager may allow the submission of a Baseline
   Monitoring Report, which utilizes only historical data so long as

the data provides information sufficient to determine the need for industrial pretreatment measures.

- Users described above shall submit the information set forth below.
  - a. Identifying information The name and address of the facility, including the name of the operator and owner.
  - b. Environmental Permits A list of any environmental control permits held by or for the facility.
  - c. Description of Operations A brief description of the nature, average rate of production, and SIC numbers or NAICS numbers of the operation(s) carried out by such User. This description should include a schematic process diagram which indicates points of discharge to the POTW from the regulated processes.
  - d. Flow Measurement Information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from regulated process streams and other streams, as necessary, to allow use of the combined waste stream formula set out in 40

CFR403.6

- e. Measurement of Pollutants
  - 1. The Categorical Pretreatment Standards applicable to each regulated process.
  - 2. The results of sampling and analysis identifying the nature and concentration, and/or mass, where required by the Categorical Pretreatment Standard or by the General Manager, of the regulated Pollutants in the discharge from each regulated process. Instantaneous, daily maximum, and long-term average concentrations, or mass, where required, shall be reported. The sample shall be representative of daily operations and shall be analyzed in accordance with procedures set out in Section 4.3.0 of this Ordinance.
  - 3. Sampling shall be performed in accordance with procedures set out in Section 4.3.0 of this Ordinance.

f. Certification - A statement, reviewed by the User's Authorized Representative and certified by a qualified professional, indicating whether Categorical Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O&M) and/or additional Pretreatment is required to meet the Pretreatment Standards and Pretreatment Requirements.

- g. Compliance Schedule If additional Pretreatment and/or O&M will be required to meet the Pretreatment Standards, the Compliance Schedule is the shortest schedule by which the User will provide such additional Pretreatment and/or O&M. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard. A Compliance Schedule pursuant to this section must meet the requirements set out in Section 4.3.B of this Ordinance.
- h. Signature and Certification- All Baseline Monitoring Reports must be signed and certified in accordance with Section 4.1.F of this Ordinance.

## B. <u>Compliance Schedule Progress Reports</u>

The following conditions shall apply to the Compliance Schedule required by Section 4.3.A.2.g of this Ordinance:

- 1. The Compliance Schedule shall contain progress increments in the form of dates for the commencement and completion of major events leading to the construction and operation of additional Pretreatment required for the User to meet the applicable Pretreatment Standards (such events include, but are not limited to, hiring an engineer, completing preliminary and final plans, executing contracts for major components, commencing and completing construction, and beginning and conducting routine operation);
- 2. No increment referred to above shall exceed nine (9) months;
- 3. The User shall submit a progress report to the General Manager no later than fourteen (14) days following each date in the Compliance Schedule and the final date of compliance including, as a minimum, whether or not it complied with the increment of progress, the reason for any delay, and, if appropriate, the steps being taken by the User to return to the established Compliance Schedule; and in no event shall more than nine (9) months elapse between such progress reports to the General Manager.

### C. Reports on Compliance with Categorical Pretreatment Standard Deadline

Within ninety (90) days following the date for final compliance with applicable Categorical Pretreatment Standards, or in case of a New Source following commencement of the introduction of Wastewater into the POTW, any User

subject to such Pretreatment Standards and Pretreatment Requirements shall submit to the General Manager a report containing the information described in Section 4.3.A.2 of this Ordinance. For Users subject to equivalent mass or concentration limits established in accordance with the procedures in 40 CFR 403.6, this report shall contain a reasonable measure of the User's long-term production rate. For all other Users subject to Categorical Pretreatment Standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the User's

actual production during the appropriate sampling period. All compliance reports must be signed and certified in accordance with Section 4.1.F of this Ordinance.

## D. <u>Periodic Compliance Reports</u>

1. If a Permitted User monitors any Pollutant using the procedures prescribed in Sections B and C of this Section, the results of this monitoring shall, at a frequency determined by the General Manager but in no case less than every six-months (6), be reported. The report shall indicate the nature and concentration of Pollutants in the discharge, which are limited, by Pretreatment Standards and the measured or estimated average and maximum daily flows for the reporting period. All such reports must be signed and certified in accordance with Section 4.1.F of

this Ordinanca

- 2. All Pollutant analyses, including sampling techniques, to be submitted as part of a Waste Discharge Application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136, unless otherwise specified in an applicable Categorical Pretreatment Standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, an analysis must be performed in accordance with procedures approved by the LIS EPA
- 3. Users must show compliance with Federal, State, and local regulations using appropriate sampling methods, in which data coming from the collection methods are representative of conditions occurring during the reporting period. The User is required to monitor at a frequency allowing assessment and assurance of full compliance with applicable Pretreatment Standards and Pretreatment Requirements. Twenty-four (24) hour composite samples must be obtained through flow-proportional sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the General Manager. Where time-proportional composite sampling or grab sampling is authorized by General Manger, the samples must be representative of the discharge. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be composited prior to the analysis as follows: for cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil & grease the samples may be composites in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by the General Manager

#### F Reports of Changed Conditions

1. Each User must notify the General Manager of any planned significant changes to the User's operations or system, which might alter the nature, quality, or volume of its Wastewater at least thirty (30) days before the

- 2. The General Manager may require the User to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a Waste Discharge Application under Section 4.1.E of this Ordinance.
- 3. The General Manager may issue a Waste Discharge Permit under Section 4.2.8 of this Ordinance or modify an existing Waste Discharge Permit under Section 4.2.D of this Ordinance in response to changed conditions or anticipated changed conditions.
- 4. For purposes of this section, significant changes include, but are not limited to, flow increases of twenty percent (20%) or greater, and the discharge of any previously unreported Pollutants.

## F. Reports of Potential Problems

discharges, discharges of a non-routine, episodic nature, a non-

customary batch discharge, or a Slug, that may cause potential problems for the POTW, the User shall immediately notify the General Manager of the incident. This notification shall include the location of the discharge, type of waste concentration and volume if known and corrective actions

2. Within five (5) days following such discharge, the User shall, unless waived by the General Manger, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability, which may be Incurred as a result of damage to the POTW, natural resources, or any other damage to person or property; nor shall such notification relieve the

## G. Reports from Unpermitted Users

All Users not required to obtain a Waste Discharge Permit shall provide appropriate reports to the General Manager as the General Manager may require.

## H. Maintenance Plan

Any User with an Interceptor discharging to the sewer shall complete an approved maintenance plan, which includes but is not limited to:

- 1. Procedures to adequately maintain the Interceptor using a licensed and permitted waste hauler.
- Determination of User staff responsible for maintenance of the Interceptor.

3. Procedures for spill response.

## I. Reports of Sampling Violations/Repeat Sampling

If sampling performed by a User indicates a Violation, the User shall notify the General Manager within twenty-four (24) hours of becoming aware of the Violation. The User shall also repeat the sampling and analysis and submit the results of the repeat analysis to the General Manager within thirty (30) days after becoming aware of the Violation. The User is not required to resample if the District monitors at the User's facility at least once a month, or if the District samples between the User's initial sampling and when the User receives the results of this sampling.

## J. <u>Certification for Non-Significant Categorical Industrial Users</u>

A facility determined to be a Non-Significant Categorical Industrial User by POTW must submit the following certification statement signed and certified in accordance with the signatory requirements in Section 4.1.F as required by 40

CFR403;

for Star my	managing compliance with the Categorical Pretreatment and ards under 40 CFR, I certify that, to the best of knowledge and belief that during the period from to [months, days, year]:
1.	The facility described as [facility name] met the definition of a Non-Significant Categorical Industrial User as described in Section 2.1.C.42;
2.	The facility complied with all applicable Pretreatment Standards and requirements during this reporting period; and
3.	The facility never discharged more than 100 gallons of total categorical wastewater on any given day during this reporting period.

This compliance certification is based on the following information:

11

61

## K. Timing

Written reports will be deemed to have been submitted on the date postmarked. For reports, which are not mailed, postage prepaid, into a mall facility serviced by the United States Postal Service, the date of receipt of the report shall govern.

## L. Record Keeping

Users subject to the reporting requirements of this Ordinance shall retain, and make available for inspection and copying, all records of information obtained pursuant to monitoring activities undertaken by the User independent of such requirements. Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or the District, or where the User has been specifically notified of a longer retention period by the General Manager.

## WASTE DISCHARGE AUTHORIZATIONS and SPECIAL AGREEMENTS

#### 5.1 GENERAL REQUIREMENTS

## A. <u>Wastewater Information</u>

When requested by the General Manager, a User shall submit information on the nature and characteristics of its Wastewater and other associated and pertinent information within sixty (60) days of the request. The General Manager is authorized to require Users to update this information periodically.

## B. <u>Authorization/Special Agreement Requirement</u>

- No User shall discharge Wastewater into the POTW without first obtaining a determination of need for an Authorization and/or Special Agreement except that a User that has filed a timely application pursuant to Section 5.1.C of this Ordinance may continue to discharge for the time period specified therein.
- 2. Any violation of the terms and conditions of an Authorization/Special Agreement shall be deemed a Violation of this Ordinance and subject the User to the sanctions set out in Article 6 of this Ordinance. Obtaining an Authorization and/or Special Agreement does not relieve the User of its obligation to comply with all Federal and State Pretreatment Standards or Pretreatment Requirements or with any other requirements of Federal, State, and local law.

## C. Issuing Authorizations/Special Agreement: New Connections

Users who propose to begin or restart a discharge to the POTW must apply for an Authorization and/or Special Agreement at least sixty (60) days prior to any discharge.

D. <u>Issuing Authorizations/Special Agreements: Existing Connections that must meet New Requirements</u>

Any User required to obtain an Authorization and/or Special Agreement due to requirements in this Ordinance who was discharging Wastewater into the POTW prior to the effective date of the requirements and who wishes to continue such discharges in the future, shall, within ninety {90} days after said date, apply for an Authorization and/or Special Agreement in accordance with Section 5.1.E of this Ordinance, and shall not cause or allow discharges to the POTW to continue after one hundred twenty (120) days of the effective date of this Ordinance except in accordance with an Authorization and/or Special Agreement issued by the General Manager.

## E. Waste Discharge Application Contents

- 1. All Users required to obtain an Authorization and/or Special Agreement shall submit a Waste Discharge Application. The General Manager may require all Users to submit as part of an application the following information:
  - Description of activities, facilities, and plant processes on the premises, including a list of all raw materials and chemicals used or stored at the facility which are or could accidentally or intentionally be discharged to the POTW;
  - b. Number and type of employees, hours of operation, and proposed or actual hours of operation;
  - c. Each product produced by type, amount, process or processes, and rate of production;
  - d. Type and amount of raw materials processed (average and maximum per day); quantity, disposition, and method of disposal of specific liquid, sludge, oil, solvent, or other material;
  - e. Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation, and all points of discharge; details of Pretreatment Facilities and their operation and maintenance; details of systems to prevent and control the losses of materials through spills to the POTW;
  - f. Time and duration of discharges; detailed plumbing plans indicating all sources discharging to the on-site or off-site Sewer Lateral;
  - g. Any other information as may be deemed necessary by the General Manager to evaluate the Waste Discharge Application.
- 2. Incomplete or inaccurate applications will not be processed and will be returned to the User for revision.

## F. <u>Signatories and Certification</u>

All Waste Discharge Applications and Reports must be signed by an Authorized Representative of the User and contain the following certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting

false information, including the possibility of fine and imprisonment for knowing violations."

## G. <u>Authorization/Special Agreement Decisions</u>

The General Manager will evaluate the data furnished by the User and may require additional information. Within thirty (30) days of receipt of a complete Waste Discharge Application, the General Manager will determine whether or not to issue an Authorization and/or Special Agreement. The General Manager may deny any application for an Authorization and/or Special Agreement.

## 5.2 AUTHORIZATION/SPECIAL AGREEMENT ISSUANCE PROCESS

## A. <u>Authorization/Special Agreement Duration</u>

- 1. A Waste Discharge Authorization shall be issued for an indefinite time period, subject to review and reconsideration at the discretion of the General Manager.
- 2. A Special Agreement shall be issued for a specified time period, set forth in the terms of the Special Agreement.

#### B. Authorization/Special Agreement Contents

1. Waste Discharge Authorizations/Special Agreements shall include such conditions as are deemed reasonably necessary by the General Manager to prevent Pass Through or Interference or damage to the POTW, protect the quality of the water body receiving the POTW's effluent, protect public and worker health and safety, facilitate sludge management and disposal as required in 40 CFR 403.8, and protect against damage to the POTW.

Waste Discharge Authorizations/Special Agreements may contain:

- a. Notification and record-keeping requirements;
- Requirements for the development and implementation of plans or other special conditions including management practices necessary to adequately prevent accidental, unanticipated, or routine discharges;

- c. Requirements for the development and implementation of waste minimization plans to reduce the amount of Pollutants discharged to the POTW:
- d. A statement that compliance with the Waste Discharge Authorization/Special Agreement does not relieve the User of responsibility for compliance with all applicable Federal and State Pretreatment Standards.
- e. Other conditions as deemed appropriate by the General Manager to ensure compliance with this Ordinance, and State and Federal laws, rules, and regulations;

## C. <u>Waste Discharge Authorization/Special Agreement Appeals</u>

- 1. Any Person, including the User, may petition the General Manager to reconsider the provisions of a Waste Discharge Authorization/Special Agreement within thirty (30) days of notice of its issuance.
  - a. In its petition, the appealing party shall indicate the Waste Discharge Authorization/Special Agreement provisions objected to, the reasons for objection, and the alternative provisions, if any, it seeks to place in the Waste Discharge Authorization/Special Agreement.
  - b. The effectiveness of the Waste Discharge Authorization/Special Agreement shall not be stayed pending the appeal.
- 2. Failure to submit timely a petition for reconsideration shall be deemed to be a waiver of the administrative appeal.
- 3. If the General Manager fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied.
- 4. Any person, including the User, may petition the Board of Directors to reconsider the decision of the General Manager.

- 5. If the Board of Directors fails to act within thirty (30) days of the filing of a petition for reconsideration, the petition for reconsideration shall be deemed denied. Decisions not to issue a Waste Discharge Authorization/Special Agreements, not to reconsider the provisions of a Waste Discharge Authorization/Special Agreements, or not to modify the provisions of a Waste Discharge Authorization/Special Agreements shall be considered final administrative actions for the purposes of judicial review.
- 6. Any party aggrieved by a final Waste Discharge Authorization/Special Agreement administrative action may obtain review of the action in the superior court by filing in the court a petition for writ of mandate within ninety (90) days following the effective date of the action. If no aggrieved party petitions for writ of mandate within the time provided by this section, a final Waste Discharge Authorization/Special Agreement administrative action shall not be subject to review by any court or agency. The evidence before the court shall consist of the record before the General Manager, and any other relevant evidence which, in the judgment of the court, should be considered to effectuate and implement the policies of this Ordinance. Except as otherwise provided in this section, subdivisions (e) and (f) of Code of Civil Procedure section 1094.5 shall govern proceedings pursuant to this section.

## D. <u>Waste Discharge Authorization/Special Agreement Revocation</u>

- 1. A Waste Discharge Authorization/Special Agreement may be revoked for good cause including, but not limited to the following reasons:
  - Failure to notify the General Manager of significant changes to the
     Wastewater prior to the changed discharge;
  - Misrepresentation or failure to fully disclose all relevant facts in the
     Waste Discharge Application;
  - c. Refusing to allow the General Manager timely access to the facility premises and records;
  - d. Failure to pay penalties;
  - e. Failure to pay sewer charges;
  - f. Failure to comply with HVLCSD's policies and standards.
  - g. Violation of any terms of the Waste Discharge Authorization/Special Agreement or this Ordinance.
- 2. Waste Discharge Authorizations and Special Agreements shall be voidable upon cessation of operations.
- 3. A determination may be made to issue a Waste Discharge Permit in the event the Waste Discharge Authorization or Special Agreement is revoked for good cause, including but not limited to all of the above.
- 4. A Waste Discharge Authorization or Special Agreement is void when a new Waste Discharge Permit, Waste Discharge Authorization, or Special Agreement to that User becomes effective.
- 5. Waste Discharge Authorization or Special Agreement revocation is subject to appeal as set forth in Section 6.4.

## 5.3 REPORTING REQUIREMENTS

## A. <u>Plan Requirements</u>

- 1. Any User with an Interceptor discharging to the sewer shall have on file an approved maintenance plan which includes but is not limited to:
  - a. Procedures to adequately maintain the Gravity Interceptor using a licensed and permitted waste hauler;
  - Determination of User staff responsible for maintenance of the
     Gravity Interceptor;
  - c. Procedures for spill response.

2. Users with potential impact to the POTW shall have on file an approved management plan.

## B. Timing

Written reports will be deemed to have been submitted on the date postmarked. For reports, which are not mailed, postage prepaid, into a mail facility serviced by the United States Postal Service, the date of receipt of the report shall govern.

## C. Record Keeping

Users subject to the reporting requirements of this Ordinance shall retain, and make available for inspection and copying, all records of information obtained pursuant to monitoring activities undertaken by the User independent of such requirements. Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or the District, or where the User has been specifically notified of a longer retention period by the General Manager.

#### **ENFORCEMENT**

## 6.1 ENFORCEMENT ACTIONS

Notice of Violations shall be issued by the General Manager or his designee. All other enforcement actions shall be issued by the General Manager or management at a higher level (e.g., Environmental and Regulatory Compliance Department Director). The District, at its discretion, may utilize any one, combination of, or all enforcement remedies provided in Article 6 in response to any Violation.

## A. Notice of Violation

When a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization, or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the Source Control Manager or his designee may issue a written Notice of Violation.

## B. Administrative Orders

## CONSENT ORDERS

The General Manager may enter into Consent Orders, assurances of compliance, or other documents establishing an agreement with any User responsible for noncompliance. Such documents shall include specific action(s) to be taken by the User to correct the noncompliance within a time period specified by the document. Such documents shall have the same force and effect as Compliance Orders and shall be judicially enforceable.

#### COMPLIANCE ORDERS

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the General Manager may issue a Compliance Order to the User responsible for the discharge directing that the User come into compliance within a specified

time. A Compliance Order shall include specific action(s) to be taken by the User to correct the noncompliance within a time period specified by the Compliance Order. A Compliance Order shall be judicially enforceable. If the User does not come into compliance within the time provided, sewer service may be discontinued unless required Pretreatment Facilities, devices, or other related appurtenances are installed and properly operated. A Compliance Order also may contain other requirements to address the noncompliance, including additional self-monitoring and management practices designed to minimize the

amount of Pollutants discharged to the sewer. A Compliance Order may not extend the deadline for compliance established for a Pretreatment Standard or Pretreatment Requirement, nor does a Compliance Order relieve the User of liability for any Violation, including any continuing Violation.

#### SHOW CAUSE ORDERS

The General Manager may issue a Show Cause Order directing a User which has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement to appear before a Hearing Officer and show cause why the proposed enforcement action(s) should not be taken. Notice shall be served on the User specifying the time and place for the hearing, the proposed enforcement action(s), the reasons for the action(s) and an order that the User show cause why the proposed enforcement should not be taken. The notice of the hearing shall be served personally or by registered or certified mail (return receipt requested) at least fifteen (15) days prior to the hearing. Such notice may be served on any Authorized Representative of the User.

## C. <u>Emergency Suspensions</u>

The General Manager may suspend immediately a User's discharge, without prior notice to the User, whenever such suspension is necessary to stop an actual or threatened discharge which reasonably appears to present an imminent or substantial danger to the health or welfare of Persons or to the environment, or which reasonably appears to present an imminent or substantial interference with the POTW, or which reasonably may cause the District to violate any condition of its NPDES permit.

Any User notified of an emergency suspension of its discharge shall immediately stop or eliminate its discharge. In the event of a User's failure to immediately comply voluntarily with the emergency suspension order, the General Manager may take such steps as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW or its collection system, or endangerment to any Persons or to the environment. The General Manager may allow the User to recommence its discharge when the User has demonstrated that the period of endangerment has passed, unless the termination proceedings in Sections 6.1.E or Section 6.1.F of this Ordinance are initiated against the User.

Nothing in this Section shall be interpreted as requiring a hearing prior to any

Emergency Suspension under this Section.

## D. <u>Permit/Authorization/Special Agreement Termination</u>

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste

Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the General Manager may terminate the Waste Discharge Permit, Waste Discharge Authorization, or Special Agreement of said User.

## E. Termination of Wastewater Service

In addition to the provisions for Emergency Suspensions, the General Manager may order any User who has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement to cease immediately discharge of wastewater to the POTW, and may suspend Wastewater disposal and treatment service for such User in order to stop an actual or threatened discharge which presents or may present an imminent or substantial danger to the health or welfare of Persons or to the environment, or which presents or may present an imminent or substantial interference with the POTW, or which causes or may cause the District to violate any condition of its NPDES permit, or if the User has failed to obtain a valid Waste Discharge Permit. If the User fails to comply voluntarily with the termination order, the District will take such steps as deemed necessary, including immediate severance of the Sewer Lateral connection, to give effect to the termination order. All costs for terminating service shall be paid by the User. All costs for reestablishing service shall be paid by the User.

Such User shall be notified of the proposed termination of its discharge service and offered an opportunity to show cause under Section 6.1.8.3 of this Ordinance why the proposed action(s) should not be taken.

## F. <u>Termination of Water Service</u>

When a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, water service to the User may be terminated. Water service shall only recommence after the User has demonstrated satisfactorily its ability to comply. All costs for terminating water service shall be paid by the User. All costs for reestablishing water service shall be paid by the User.

Such User shall be notified of the proposed termination of its water service and offered an opportunity to show cause under Section 6.1.8.3 of this Ordinance why the proposed action(s) should not be taken.

#### G. Administrative Penalties

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, the Source Control Manager may impose an administrative penalty on such

User, as provided in Section 54740.5 of the Government Code, in an amount determined in accordance with Resolution 2963 as amended. Administrative penalties shall be assessed on a per-Violation, per-day basis. In the case of monthly or other long-term average discharge limits, administrative penalties shall be assessed for each day during the period of Violation. Unpaid charges and administrative penalties shall, after 30 calendar days, be assessed an additional penalty in accordance with Resolution 2963 as amended, and interest shall accrue thereafter in accordance with Resolution 1643 as amended. A lien against the User's property may be sought for unpaid charges and administrative penalties.

## H. <u>Injunctive Relief</u>

When the General Manager finds that a User has violated, or continues to violate, any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Requirement, the District may petition the Superior Court of the County of Riverside for the issuance of a temporary restraining order, preliminary injunction, and/or permanent injunction, as appropriate, to enjoin or compel the specific performance of the activities of the User causing such violation. The District may also seek such other action as appropriate for legal and/or equitable relief, including a requirement for the User to conduct environmental remediation.

## I. Civil Liability

The General Manager may utilize the procedures and seek civil penalties, payment of excess costs, and imposition of a lien upon User's real property, as provided in Sections 54739, 54740, 54740.5, and 54740.6 of the Government Code, as may be amended from time to time, for violations of any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement.

## J. Criminal Penalties

Any User who willfully or knowingly violates any provision of this Ordinance, any Waste Discharge Permit, any Waste Discharge Authorization or Special Agreement, any order issued under this Ordinance, or any other Pretreatment Standard or Pretreatment Requirement, shall, upon conviction, be guilty of an infraction punishable by a fine not to exceed fifty dollars (\$50) for a first conviction, one hundred dollars (\$100) for a second conviction within a period of one (1) year, and two hundred fifty dollars (\$250) for a third or any subsequent conviction within a period of one (1) year. Each violation and each day in which a violation occurs shall constitute a separate violation and shall be subject to the penalties contained herein.

## 6.2 PUBLISHED NOTICES FOR SIGNIFICANT NON-COMPLIANCE

In accordance with 40 CFR 403.8, the District shall at least annually cause to be published the names of all Users which, at any time during the previous twelve (12)

months, were in Significant Non-Compliance. Publication shall be made in a newspaper of general circulation that provides meaningful public notice in the District's service area.

## 6.3 REMEDIES NON-EXCLUSIVE

The enforcement remedies for this Ordinance are nonexclusive. The General Manager may take any, all, or any combination of these remedies against a noncompliant User. The General Manager may take more than one (1) enforcement action against any noncompliant User, and no enforcement action shall be deemed a prohibition or a prerequisite for taking any other enforcement action(s) against the User. Enforcement of violations will generally be in accordance with the District's Enforcement Response Plan, however, the Source Control Manager may take alternative actions against a User when the circumstances warrant.

#### 6.4 APPEALS

- A. Either the District or any User affected by and dissatisfied with any decision, order, or enforcement action made by the General Manager or a Hearing Officer interpreting or implementing the provisions of this Ordinance or any Waste Discharge Permit, Waste Discharge Authorization, or Special Agreement may file with the General Manager or Hearing Officer a written appeal requesting reconsideration of such decision, order, or enforcement action within thirty (30) calendar days from the receipt of the notice of such decision, order, or enforcement action. The party requesting reconsideration shall state in detail the facts supporting the request for reconsideration. The General Manager or Hearing Officer shall render a ruling on the request for reconsideration, in writing, within ten (10) calendar days from receipt of the request. Submission of such a request for reconsideration in no way relieves the User of liability for any Violations occurring before or after receipt of the decision, order, or enforcement action, nor stays the requirements of achieving or maintaining compliance.
- B. If the ruling on the request for reconsideration made by the General Manager or Hearing Officer is unsatisfactory to the District or to the User, either party may, within thirty (30) calendar days after receipt of notice of the General Manager's or Hearing Officer's ruling, file a written appeal with the General Manager. The written appeal shall be heard by the General Manager within thirty (30) calendar days from the date of filing. The General Manager shall make a ruling on the appeal within thirty (30) calendar days from the date of the hearing.
- C. If the ruling on the appeal made by the General Manager is unsatisfactory to the District or to the User, either party may, within thirty (30) calendar days after receipt of notice of the General Manager's ruling, file a written appeal with the District's Board, lodging such appeal with the Secretary of the Board. The written appeal shall be heard by the Board within thirty (30) calendar days from the date of filing. The Board shall make a ruling on the appeal within thirty (30) calendar days from the date of the hearing, and shall give notice to the User that the time



D. The Board's final ruling shall be deemed a final decision, order, or enforcement action by the District which any Person adversely affected by such decision, order, or enforcement action may appeal to the appropriate court in the County of Riverside. No Person may obtain judicial review of any decision, order, or enforcement action by the District under this Ordinance without first having exhausted all administrative remedies set forth in this Section.

## SEVERABILITY

## 7.1 SEVERABILITY

If any provision of this Ordinance or the application to any person or circumstances is held invalid, the remainder of the Ordinance or the application of such provision to other persons or other circumstances shall not be affected.

## REPEAL

## 8.1 REPEAL

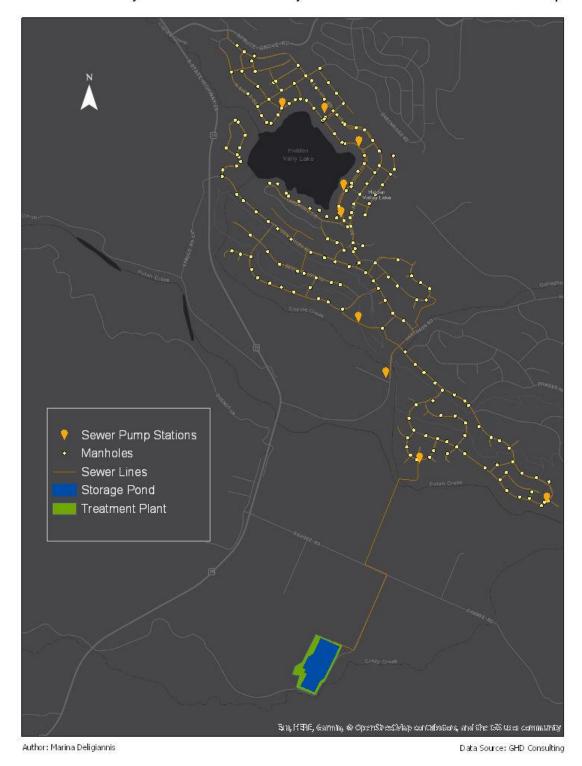
The Ordinance No. 57 is hereby repealed on the effective date hereof and all Ordinances or parts of Ordinances inconsistent with this Ordinance are hereby repealed to the extent that they are inconsistent with the provisions of this Ordinance.

## **EFFECTIVE DATE**

## 9.1 <u>EFFECTIVE DATE</u>

The effective date of this Ordinance shall be April 17<sup>th</sup>, 2018.

## **APPENDIX D: DISTRICT MAP**



# APPENDIX E: SANITARY SEWER SYSTEM OVERFLOW STANDARD OPERATING PROCEDURE

**PURPOSE:** To provide guidance to maintenance crew personnel when servicing an overflow of the collection system.

**SCOPE:** This procedure is applicable to all overflows of the sewage collection system.

**DEFINITIONS:** Overflow or spill: Any condition of sewage emitted or discharged from the collection system to the surrounding environment that is caused by a problem in the District's main lines.

A Category 1 overflow is a spill of any volume that reaches surface waters, a drainage channel tributary to a surface water, or to a municipal separate storm sewer system (MS4) and is not fully captured.

A Category 2 overflow is a spill of 1,000 gallons or greater that does not reach surface waters, a drainage channel, or a MS4 unless the entire spill discharged to the storm drain system is fully recovered and disposed of properly.

A Category 3 overflow is a spill that does not reach surface waters, a drainage channel, or a MS4, however appropriate clean-up and investigation procedures shall be undertaken.

**RESPONSIBILITY:** The Lead Wastewater Operator is responsible for carrying out this procedure. When the Supervisor is not available, a Lead Water Operator shall assume the responsibility to carry out this procedure and to direct the efforts of the maintenance crew. One of these individuals (Lead Operators) is responsible for reporting to regulatory agencies.

**PROCEDURE:** This procedure is to be followed by District field maintenance personnel when servicing an overflow of the collection system.

#### STAFF PHONE NUMBERS:

Kirk Cloyd - 707-987-9201

Dennis White - 707-533-3498

Alyssa Gordon – 707-987-9201

## **NECESSARY EQUIPMENT:**

- Truck
- Cell phone
- PPE, including safety/reflective vest
- Sewer snake

- Hydroflusher
- Bleach (Chlorine)
- Traffic cones & other safety/traffic notification signs
- Trash bags
- Rake & shovel

#### I. NOTIFICATION

- A. For any Category 1 spill of 1,000 gallons or greater, complete the following:
  - 1. Contact California Office of Emergency Services (Cal OES) at 1-800-852-7550, within TWO HOURS, once the following is possible:
  - the enrollee has knowledge of the discharge
  - notification can be achieved safely by emergency response staff
  - notification can be provided without substantially impeding cleanup or other emergency measures

Provide the following information to Cal OES in order to obtain a notification control number:

- Name of person notifying Cal OES and direct return phone number.
- Estimated SSO volume discharged (gallons).
- If ongoing, estimated SSO discharge rate (gallons per minute).
- SSO Incident Description:
  - Brief narrative.
  - On-scene point of contact for additional information (name and cell phone number).
  - Date and time enrollee became aware of the SSO.
  - Name of sanitary sewer system agency causing the SSO.
  - SSO cause (if known).
- Indication of whether the SSO has been contained.
- Indication of whether surface water is impacted.
- Name of surface water impacted by the SSO, if applicable.
- Indication of whether a drinking water supply is or may be impacted by the SSO.
- Any other known SSO impacts.
- SSO incident location (address, city, state, and zip code).
- 2. After phone call to Cal OES, contact the following agencies and provide the notification control number:
  - Regional Water Quality Control Board: (916) 464-4648
  - California Fish and Wildlife: (800) 358-2104

An "SSO Report" form (sample form included in Appendix E) shall be completed and provided to the Supervisor after field response to a spill is completed. The Supervisor will then follow the Overflow Response Actions Procedures described herein.

#### II. REPORTING

A. Overflows shall be reported in accordance with the requirements of the State of California State Water Resources Control Board, Order No. 2006-003 DWQ and Order No. WQ 20130058-EXEC (included in Appendix B).

- 1. Emergency Reporting: If the overflow is a Category 1 and equal to or greater than 1,000 gallons that has discharged to surface water, a drainage channel or MS4 and has not been fully captured or is located in an area that it will probably be discharged to surface waters, the California Office of Emergency Services (Cal OES) shall be notified within at 1-800-852-7550 and a notification control number shall be obtained. The OES shall be notified as soon as possible, but no later than 2 hours after the District has been notified of or notices the overflow, notification is possible and the notification can be provided without substantially impacting the cleanup or emergency measures.
- <u>2. Internal Reporting:</u> The Lead Wastewater Operator, or any Operator I/II if the Lead Operator is not present, is responsible for reporting any major overflows immediately to the Lead Water Operator. They in turn will make the appropriate reports.

An "SSO Report" form (sample form included in Appendix F) shall be completed and provided to the Supervisor after field response to a spill is completed. The Supervisor will then follow the Overflow Response Actions Procedures described herein.

3. Regulatory Reporting: Category 1 and 2 overflows shall be reported to the State CIWQS (California Integrated Water Quality System) database within 3 business days of the District becoming aware of the SSO and shall be certified within 15 calendar days of the end of the SSO. A Category 3 overflow shall be reported and certified within 30 calendar days of the end of the month in which the SSO occurred. A SSO technical report (see MRP for report requirements) shall be prepared and submitted within 45 calendar days of the end date of any Category 1 SSO with 50,000 or more gallons spilled to surface waters. No-spill certifications shall be submitted within 30 calendar days of the end of the month in which no SSOs occurred (or if quarterly, within 30 days of the end of the quarter).

## III. RESPONSE

## 1. Major Overflows

- a. Clean Up Response and Warning Sign Posting Dry Weather Conditions:
- b. Identify yourself to the property owner who called for service, if applicable, and briefly explain what you will be doing.
- c. Identify problem (take digital photos and/or video to document flow) and restore flow (if this takes longer than 30 minutes, call for assistance).
- d. Report spill to the Lead Wastewater Operator or Lead Water Operator (they will notify appropriate agencies).
- e. Contain spill (call for assistance if needed):
- f. Build dike with hay bales or sandbags and plastic sheeting;
- g. Build earthen berm;
- h. Use pipe plug to plug storm drain/use plastic sheet over inlet to stop flow.

- i. Take digital photos to document conditions for follow-up investigation.
- j. Report back to property owner and deal with their concerns (possibility of property damage).
- 1. Warning Signs: Signs warning the public of a sewage release should be posted in the affected area where there is the potential for public contact. Signs shall be posted when there is a 10,000 gallon or larger spill that is not contained or there is a discharge directly to a creek. Signs should include, at a minimum, the wording: "raw sewage". In critical areas such as creeks and parks, warning signs should remain posted until Lake County Public Health Department or Regional Board staff authorizes their removal, or until receiving water sample results indicating background levels have been attained.
- 2. <u>Cleanup Flushing:</u> The affected area shall be flushed with clean water. All flush water shall be contained and subsequently pumped to the nearest sanitary sewer or removed by vactor truck. Cleanup flushing shall be done only with clean, dechlorinated water. Disinfectants shall NOT be used due to their toxicity to fish and wildlife.
- 3. Receiving Water Sampling: If a Category 1 spill of 50,000 gallons or more occurs, sampling is required within 48 hours of notification of the SSO. However, the District will sample Category 1 spills of 10,000 gallons or more. At a minimum, sampling shall be done for ammonia, a bacterial indicator (such as enterococci) along with temperature and pH. Sampling should be done at a minimum near the sewage discharge point, 100 feet downstream and 100 feet upstream of the discharge point (to establish background levels).
  - a. The sampling services are currently contracted with Alpha Analytical Laboratories. The office contact number for Alpha Analytical Laboratories is 707-468-0401.
- 4. Return spilled sewage to collection system for treatment, when possible.
- 5. Clean up affected area:

- i. Remove all signs of gross pollution (solids, toilet paper, grease, etc.);
- 6. 2) Flush areas with dechlorinated potable water (use three times volume of overflow); all flush water shall be contained and subsequently pumped to the nearest sanitary sewer or removed by vactor truck;
  3) Apply deodorizer after flushing and only in incidents where this material will not cause further pollution. Disinfectants shall NOT be used due to their toxicity to fish and wildlife.
- 1. I. Follow up:
  - 1) Investigate cause of spill and check lines downstream of the spill to ensure lines are free of debris or blockages;
  - 2) Add line segment to cleaning schedule, change frequency, or change cleaning method;
  - 3) Add notes as needed to cleaning schedule;
  - 4) Inspect by video camera and re-run as needed;
  - 5) Report on the need for any correction measures;
  - 6) Repair or replace line segment;
  - 7) Reinstate the line to normal maintenance.
- 2. m. Complete follow-up contacts and service to property owner(s).
- 3. n. Conduct debriefs to evaluate response.
- 4. o. Implement needed changes and improvements.

- 5. Wet Weather Conditions: The response cleanup and warning sign posting procedures given above for Dry Weather Conditions should be followed, except that steps i and j (Flushing and Sampling) may be omitted if storm waters are high and sampling is impractical or unsafe.
- 6. B. Minor Overflows: (Overflow at manhole/lateral less than 1,000 gallons, no environmental impact, limited potential for human contact)
- 7. 1. Identify yourself to property owner who called for service, if applicable, and briefly explain what you will be doing. 2. Identify problem (take digital photos and/or videos to document flow) and restore service (if this takes longer than 30 minutes, call for assistance).
- 8. If the problem is in the private lateral, inform property owner and respond to their questions.
- 9. Contain spill and return contained flow to collection system for treatment, when possible.
- 10. Clean up affected area:
  - 1) Remove all signs of gross pollution (solids, toilet paper, grease, etc.);
  - 2) Flush areas with dechlorinated potable water (use approximately three times volume of overflow); all flush water should be contained and subsequently pumped to the nearest sewer or removed by vactor truck.
  - 3) Apply deodorizer after flushing and only in incidents where this material will not cause further pollution. Disinfectants should NOT be used due to their toxicity to fish and wildlife.
- 11. Advise property owner of claim procedure for backup related repair or cleaning cost, if from District main.
- 12. Follow up to prevent recurrence:
  - 1) Investigate cause of spill and check lines downstream of the spill to ensure lines are free of debris or blockages;
  - 2) Add line segment to cleaning schedule, change frequency, or change cleaning method;
  - 3) Add notes as needed to cleaning schedule;
  - 4) Inspect by video camera and re-run as needed;
  - 5) Report on the need for any correction measures;
  - 6) Repair or replace line segment:
  - 7) Reinstate the line to normal maintenance.
- 13. C. Property Damage: (Overflow inside residence/building that causes damage to private property)
  - 1. Identify yourself to property owner who called for service, if applicable, and briefly explain what you will be doing.
  - 2. Stop or reduce flow entering building (remove or break cleanout cap, plus lateral).
  - 3. Identify problem, take digital photos and/or video to document situation and restore service (if this takes longer than 30 minutes, call for assistance).
  - 4. If the problem is in the private lateral, inform property owner and respond to their questions.
  - 5. Report spill to Lead Wastewater Operator, or Operator I/II.
  - 6. Contain spill and return spilled sewage to collection system for treatment.
- 14. Report progress to property owner and deal with their concerns (damage to property).

- 15. Advise property owner of claims procedure for backup related damage or cleaning costs, if appropriate. Provide emergency sewer packet.
- 16. Continue follow-up contacts and service to property owner(s) as needed.
- 17. Follow up:
  - 1) Investigate cause of spill and check lines downstream of the spill to ensure lines are free of debris or blockages;
  - 2) Add line segment to cleaning schedule, change frequency, or change cleaning method;
  - 3) Add notes as needed to cleaning schedule;
  - 4) Inspect by video camera and re-run as needed;
  - 5) Report on the need for overflow device and check valve;
  - 6) Repair or replace line segment;
  - 7) Reinstate the line to normal maintenance.

#### **APPENDIX F: SSO REPORTING FORM**

## HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

#### **SSO Report**

Weather Condition: ☐ Dry	☐ Wet <b>Easement:</b> Yes	No	
Spill Location:			
Street Number:	Street Name:		
Cross Street:			
City: Hidden Valley Lake	State: CA	Zip: 95467	
over 1,000 gallons with di	scharge to surface water	on of, or discovering, the SSO only for Category 2 c, a drainage channel or a storm drain and the sp will probably be discharged to surface waters)	•
Has <b>OES</b> been notified at 1	-800-852-7550? □ Yes □	No	
OES Control Number:			
OES called Date/Time:	<b>/</b> (mm/	dd/yyyy): (military time)	

Spoke to (name of OES staff member):							
GPS							
Latitude: Degrees	Minutes	Seconds					
Longitude: Degrees	Minutes	Seconds					
Estimated spill start date/	time:						
/	(mm/dd/yyyy)	:	_ (military time)				
Date and time sanitary se	Date and time sanitary sewer system agency was notified of or discovered spill:						
	(mm/dd/yyyy)	::	_ (military time)				
Estimated Operator arrival date/time:							
	(mm/dd/yyyy)	::	_ (military time)				
Estimated spill end date/time: (blow down time)							
/	(mm/dd/yyyy)	::	(military time)				
Approximate spill area:							

Length:	(feet) Width:	(feet) Depth:	(inches)
SSO Volume:			
Estimated SSO Rat	e: gallons per n	ninute	
Duration of SSO in	Minutes (from start to bl	ow down): Min.	
Estimated Spill Vol	lume: Rate: x N	linutes: =	gallons
Estimated volume	of spill recovered:	gallons	
Estimated volume drain:		rface water, drainage char	nnel, or not recovered from a storm
Spill appearance p	ooint:   Building or Struct	ure   Manhole  Other Se	ewer System Structure
Overflowing struc	cture ID:	Sub-basin:	
Upstream structu	ure ID:	Downstream structure ID:	:
•	_	re $\square$ Other paved surface $\square$	Storm drain
☐ Street curb/gutte	er 🗆 Surface water 🗆 Unp	aved surface	

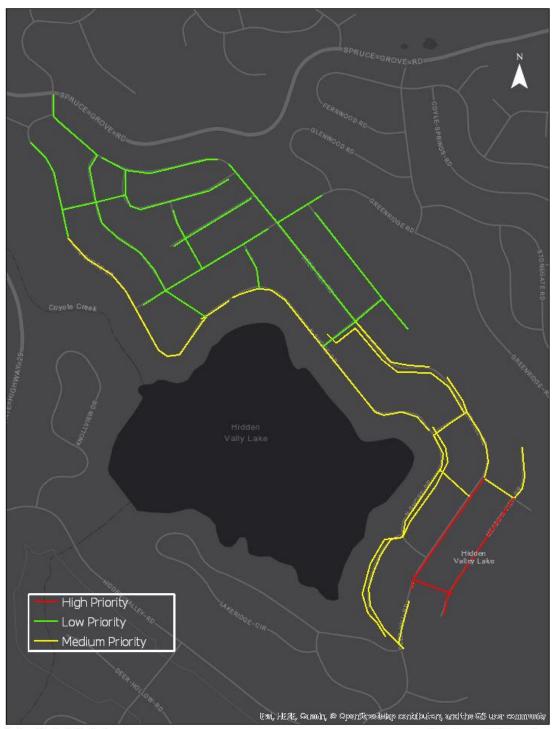
□ Other:
<b>Spill cause:</b> □ Debris-General □ Debris-Rags □ Flow exceeding capacity □ Grease deposition FOG □ Operator error □ Pipe structural problem/failure □ Rainfall exceeded design □ Root intrusion □ Vandalism □ Other:
Where did failure occur? ☐ Upper lateral ☐ Lower lateral ☐ Main ☐ Other:
Spill Response Activities (select all that apply): □ Cleaned-up (mitigated effects of spill) □ Contained all or portion of spill □ Inspected sewer using CCTV to determine cause □ Restored flow □ Returned all or portion of spill to sanitary sewer system □ Other:
Photographs or video taken? ☐ Yes ☐ No
Spill response completion date:/// (mm/dd/yyyy)
Were notification requirements in the SSO SOP followed? ☐ Yes ☐ No
Name of impacted beach(es) or surface water (enter NA if not applicable):
Any On-going Investigation? ☐ Yes ☐ No

Were Water Quality Samples Collected?	□ Yes □ No				
(required per SSMP if Category 1 spill o discovering, the SSO; sampling may be om				-	
The sampling services are currently con number for Alpha Analytical Laboratories			rtical Labo	ratories. T	he office contact
Ву:					_
<b>Date</b> /(mm/da	1/yyyy) <u>.</u>	:	(m	ilitary time)	
<b>Spill corrective actions taken:</b> □ Added se	ewer to preve	entive mainte	nance pro	gram	
☐ Adjusted schedule method of preventiv	e maintenan	ce 🗆 Enforcer	ment actio	n against FC	G
☐ Plan rehabilitation or replacement of se	wer 🗆 Repai	red sewer			
□ Other:					_
Prepared by:	Date <sup>.</sup>	,	/	(mm/dd/s	vvv)



#### **APPENDIX G: "HOT SPOTS" CLEANING MAP**

Hidden Valley Lake Community Services Collection System Priority Line Cleaning



Author: Marina Deligiannis

Data Source: GHD Consulting

#### **APPENDIX H: Infiltration and Inflow Assessment Work Plan**

## Infiltration and Inflow Assessment Work Plan

### Hidden Valley Lake Community Services District

Project No. 11136993

#### Prepared for:

Hidden Valley Lake C.S.D.

19400 Hartmann Rd

Hidden Valley Lake, CA 95467

Prepared by:

Luke Philbert, E.I.T.

**Project Engineer** 

Reviewed by:

Matt Winkelman, P.E.

Senior Project Manager, Associate

2235 Mercury Way, Suite 150

Santa Rosa,

CA 95407

(707)5231010

September 2017



This Infiltration and Inflow Assessment Work Plan ("report") has been prepared by GHD for the Hidden Valley Lake Community Services District (the District) and may only be copied to, used by, or relied on by the District for the purpose agreed upon between GHD and the District.

GHD otherwise expressly disclaims responsibility to any person other than the District arising from or in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered, information reviewed, and assumptions made by GHD at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions, and any recommendations in this report are based on assumptions made by GHD described in this report. GHD expressly disclaims responsibility for any error in, or omission from, this report arising from or in connection with any of the Assumptions being incorrect.

GHD has prepared this report on the basis of information provided by the District and others who provided information to GHD (including Government authorities), which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

GHD has prepared the preliminary opinions of probable project costs using information reasonably available to the GHD.



## **Table of contents**

1.	Intro	duction3
2.	I/I As	sessment Work Plan3
	2.1	Measures to identify and quantify the I/I Sources using information pertaining to the overflows from the collection system4
	2.2	An evaluation of cost effective measures to reduce the I/I5
	2.3	A description of how identified repairs and any sewer line replacements will be implemented and timing for the work5
	2.4	An identification of the types of repairs that should be done in the field without further evaluation6
	2.5	Describe methods (i.e., smoke testing, video surveying, manhole surveying, etc.) that will be used to provide an assessment of those segments of the collection system known to exhibit significant I/I
	2.6	Describe those portions of the collection system that are in need of immediate repair9
	2.7	Include a proposed schedule for completing the necessary repairs and submitting an Infiltration and Inflow Assessment Report that describes results of the I/I evaluation of the collection system
	2.8	Describes the repairs that were completed to reduce I/I

## **Appendices**

Appendix A – Infiltration and Inflow Targets Map

Appendix B – CCTV Records

GHD | Hidden Valley Lake C.S.D Infiltration and Inflow Work Plan | 11136993 | Page i



This page is intentionally left blank



#### 1. Introduction

The following provides an Infiltration and Inflow Assessment Work Plan (I/I Work Plan) in response to events beginning on January 8 and 10, 2017, when the Central Valley Regional Water Quality Control Board (CVRWQCB; Water Board) staff was notified of three raw sewage spills (OES Control Nos. 17-0159, 17-0160, and 17-0297) from the Hidden Valley Lake Community Services District (HVLCSD; District). In follow-up to the notifications, the District submitted a spill response report on January 19, 2017 and an update to the report on March 29, 2017.

The Water Board submitted a **Notice of Violation for Sewage Spills** letter dated April 12, 2017 (April 2017 NOV) for HVLCSD. To comply with requirements set in the April 2017 NOV, the District prepared a report that included an evaluation of the potential expansion of the Equalization (EQ) Basin at the wastewater treatment plant (WWTP) to provide additional capacity that would accommodate the following: WWTP influent flows from the 2016/17 wet weather season; 100-year annual precipitation data; and other contributions such as inflow and infiltration (I/I) from the sewer collection system. This report was submitted on May 31, 2017.

The Water Board submitted a **Review of Response to April 12, 2017 Notice of Violation** letter dated July 11, 2017 for HVLCSD. The Water Board requested specific tasks necessary to evaluate known or suspected I/I issues within the collection system, with eight points of discussion as part of an I/I Work Plan. The purpose of evaluating I/I issues is to characterize the opportunities and challenges within the sewer collection to reduce the quantity of I/I that resulted in the January 2017 raw sewage spills. This document provides a response to these eight points in compliance with requirements set by the April 2017 Review of Response. The eight requirements are discussed in Sections 2.1 - 2.8.

#### 2. I/I Assessment Work Plan



This section provides a summary of the activities associated with addressing the eight points noted in the July 2017 CVRWQCB letter. The section is organized around the presentation of these points, and as such, there is some overlap in I/I Work Plan activities between the different subsections. In general, the focus of the I/I Workplan is to define investigation and renewal and replacement (R&R) activities that would reduce I/I through planned projects during the 2017/18 wet weather season and 2018 construction season. Subsequent to those activities, and dependent on the availability of funding, the District would either conduct post-construction investigation activities during the 2018/19 wet weather season or continue R&R activities into the

2019 construction season and delay the post-construction activities by one year.

Investigation and R&R activities noted in this I/I Workplan are based on information that is currently available and are subject to change depending on the results of the 2017/18 wet weather season investigation activities (i.e., prioritization of projects and funding availability).

## 2.1 Measures to identify and quantify the I/I Sources using information pertaining to the overflows from the collection system.

Currently, HVLCSD has run hours for the pump stations, and can generally compare pumped flows in wet years to dry years based on calculating flow from pump curves. To further pinpoint where I/I occurs in the sewer collection system, HVLCSD will measure flow at key locations and times. This is planned to occur using methods described in Section 2.5, including flow monitoring and nighttime I/I reconnaissance activities. Information pertaining to sanitary sewer overflows (SSOs) from the sewer collection system is as follows.

#### 2.1.1 Miksis Exploratory Work

On February 9, 2017, HVLCSD contracted with Miksis Services Inc. (Miksis) to clean, televise (CCTV), and locate multiple runs of various diameter sewer mains and laterals experiencing high levels of I/I (i.e., "hot" areas within the sewer collection system), including: the sewer line between Hawks Hill Road and Kentwood Place, Green Ridge Road, and Deer Hill Road. HVLCSD staff will use the CCTV records during the 2017/18 wet weather season investigation to further pinpoint areas of high I/I.

#### 2.1.2 Hauled Wastewater during the Winter 2016/17 Storm Events

In an effort to prevent a wet weather SSO within the sewer collection system during the January

8 to 10, 2017 storm event, the District utilized pumper trucks to extract water from the sewer collection system and transport it into the WWTP at the EQ Basin. This volume was reported to be approximately 700,000 gallons from vendor costs. The wastewater was pumped out of the sewer collection system at Lift Station 5 and Lift Station 1 and nearby manholes, and hauled to the EQ Basin. HVLCSD does not have documentation regarding the amount taken out at each location.

From January 10 to February 23, 2017, pumper trucks took approximately 2.8 million gallons of wastewater out of the EQ Basin, hauling to a treatment plant in Clear Lake, approximately 20 minutes away.

#### 2.1.3 Information from Waste Discharge Requirements

The following information comes from the HVLCSD spill response report on January 19, 2017. It is important to note that the substantial rains during the 2016/17 wet weather season resulted in the first SSOs within the HVLCSD sewer collection system in several years. Due to proactive operation and maintenance (O&M) activities and existing capacity within the sewer collection system, SSOs are not common for HVLCSD.

From 1/7/17 – 1/11/17, a storm event deposited 13.59" of rain that compounded with runoff from
Valley Fire burn scars at higher elevations. During this time, two manholes and two private
lateral cleanouts overflowed.

Manhole Overflow

- Manhole #1 at 18805 North Shore Drive
- Manhole #2 at corner of 18550 Brookfield Road and North Shore Drive



- Manholes 1 and 2 had an estimated 16,155 gallons of overflow on 1/8/2017. Time of Spill
   7:59 AM. Contained at 2:30 PM. Time of overflow is 4.52 hrs. Calculated overflow is 60 gpm.
- Manhole 1 at 18805 North Shore Drive approximately 1,500 gallons on 1/10/17.

Time of Spill – 5:30 PM. Contained at 6:00 PM. Time of overflow is .5 hrs. Calculated overflow is 50 gpm.

#### Cleanout

#### Overflow

- Cleanout 1 19666 Mountain Meadow South
- Cleanout 2 19683 Mountain Meadow South
- Cleanout 1 & 2 totaled 39,990 gallons on 1/8/2017. Time of Spill 9:45 AM. Contained at 3:30 PM. Time of overflow is 5.75 hrs. Overflow is 116 gpm.

#### 2.1.4 Calculations from Mainline Cleanout Flows

As mentioned in Section 2.4.1, there were two mainline cleanout lids pulled during the 2016/17 rain events. The flow rates can also be calculated by the amount of ponded water that can physically flow through a 6 inch pipe. The District will use ponding depths from the CCTV documentation to calculate flow rates and volumes.

#### 2.2 An evaluation of cost effective measures to reduce the I/I

HVLCSD does not have a capacity-based history of SSOs. HVLCSD conducts grease monitoring and mitigation every week and does routine root monitoring. HVLCSD will especially act on monitoring before predicted storms.

Targeting inflow over infiltration is typically more cost-effective and efficient in reducing peak flows into the sewer collection system. HVLCSD pointed out areas of known inflow due to residents pulling caps to sewer cleanouts in order to drain flooded areas. These specific known areas are discussed in detail in Section 2.4.



If further repairs are needed to reduce infiltration, HVLCSD staff was impressed with work done by Miksis at North Shore Road, and would like to have Miksis conduct additional CCTV inspections and complete repairs in areas of known I/I. Unless there is rehabilitation of pipelines, whether it is cracks, offset joints, etc., there may not be impact on infiltration reduction.

## 2.3 A description of how identified repairs and any sewer line replacements will be implemented and timing for the work.

A schedule is given in Section 2.7.

The following is a priority list that can be used for discussion with the Water Board as the budget is updated during the 2017/18 fiscal year and beyond.

- 1) Inflow Repairs (See Section 2.4.1) will be implemented as soon as possible.
- 2) Infiltration Repairs in known areas (See Section 2.4.2) will occur after inflow repairs and depending on information gathered from methods of I/I monitoring (See Section 2.5).
- 3) R&R projects may need to occur if cost effective repairs have been implemented, and there are still I/I issues that need to be addressed. Possible work includes trenchless rehabilitation of mains, laterals (public and/or private), and/or manholes; and/or open cut replacement.

HVLCSD will need to focus the majority of its current sewer budget on the I/I Assessment Report for Fiscal Year 2017/18, and will use the information from the report to justify an increase in funds for R&R projects.

## 2.4 An identification of the types of repairs that should be done in the field without further evaluation.

#### 2.4.1 Inflow

HVLCSD mentioned the following areas where District-owned mainline cleanout lids were opened by residents in order to drain their flooded property:

- 1) Fishook Road 6" mainline cleanout
- 2) Gold Flat Court 6" mainline cleanout

HVLCSD also noted the following areas where residents used their own sewer cleanouts as drains:

- 1) Mountain Meadow South 2 pulled plugs (lateral cleanouts)
- Spyglass Road A resident was pumping flooded water from their basement into the sewer cleanout
- 3) Fishook Road a couple of lateral cleanouts
- 4) Deerhill Road a couple of lateral cleanouts
- 5) Gold Flat Court a few laterals

HVLCSD has expressed that immediate modifications can be made to sewer cleanouts to restrict surface water inflow. They plan to seal the caps immediately. This will have the largest effect on the system at the lowest cost, and an inspection and maintenance schedule is important to insure that they are not removed again. The District may consider an enforcement ordinance to act as a deterrent. Even so, resealing the caps will be at a low cost.

HVLCSD owns the mainline cleanouts and owns laterals up to ten feet from the property line of private property. HVLCSD does not need a right of entry (ROE) for residential cleanouts because of 10-foot utility easements.

If residential cleanouts are sealed off, there are potential drainage issues during the next big storm event. Though Lake County is officially responsible for drainage, the homeowners association have also taken responsibility. Since HVLCSD will be preventing stormwater from entering the sewer, they will need to let the homeowners association know in order to provide solutions to potential drainage issues and prevent further uncapping of sewer cleanouts.



HVLCSD can also disconnect known storm drain connections into the system (i.e., area drains, roof downspouts). This can be found through smoke testing (see Section 2.5.4).

#### 2.4.2 Infiltration

Pipe segments known by HVLCSD to have I/I are as follows:

- Between Meadowview Drive and Deer Hill Road (See Appendix A). HVLCSD estimates wet weather flow through this section at 50 gpm.
- Between Hawks Hill and Kentwood Place (See Appendix A). HVLCSD estimates the wet weather flow at 70-80 gpm.

Further areas will be targeted based on information provided by I/I monitoring methods described in Section 2.5. It is important to note that there may be laterals on homeowner properties with high infiltration. The District may spend money rehabilitating the main, the manhole, and even the connection to the lateral, and still may only get rid of half the I/I because of the segment on the homeowner's property (prediction for I/I reduction based on current industry data and experience).

2.5 Describe methods (i.e., smoke testing, video surveying, manhole surveying, etc.) that will be used to provide an assessment of those segments of the collection system known to exhibit significant I/I.

#### 2.5.1 Closed Circuit Television Inspection (CCTV)

CCTV inspection occurred in the Spring of 2011. HVLCSD is currently in possession of this archive. This work was conducted during the wet weather season when groundwater was high, and the system experienced wet weather effects. The District contracted at that time with Coastland Engineering to develop an inventory of prioritized sections in June 2015. A repair code and legend identifies a number code for each segment, categorizing approximate costs for the following factors.

- 1) Reconstruct line
- 2) Root Cut &/or line
- 3) Point repair
- 4) Manhole repair
- 5) Cleanout repair
- 6) Clean pipe
- 7) Unable to video / re-video
- 8) No repair needed

Street names, upstream and downstream manhole numbers, pipe lengths, number of laterals, location stations, repair lengths, approximate costs, and general notes are included in this inventory (See Appendix B). It is assumed that the segments have experienced further I/I issues since Spring 2011. HVLCSD mentioned they would review the video archive and inventory to identify the segments that could be added to infiltration repairs on the priority list.

#### 2.5.2 Daytime or Nighttime Field Reconnaissance

HVLCSD plans to conduct field reconnaissance to identify clear water flow in the sewer collection system. The time of day of field reconnaissance should be during a low point on the diurnal curve so that base flow is minimal. Nighttime reconnaissance is ideal for this effort; however, District staffing resources will need to be considered to balance this effort compared to other wet weather season activities. This work should be conducted during the wet season following at least a moderate rain event. It is good practice to do the work the following day, in order to view the sustained flows of infiltration rather than the peak flows from inflow.

For field reconnaissance, staff will typically go out when residential and commercial sewer flow is minimal. They will look inside the manholes to visualize not only infiltration at the manholes, but also the pipes where flow is coming through, and with knowledge of the amount of sewer line upstream, HVLCSD can make judgements about unusually high flow coming through sewer sub-basins. Staff can also approximate flow based on how much flow depth there is. If the manholes are too deep for visual depths from the surface, there are companies that will drop into the

manhole and do an instantaneous measurement of depth, either with an inflated plug with a weir or a flow meter. It will be important to correlate field reconnaissance data with the flow meter data monitored after the 2017/18 storm events. Engagement of an outside contractor for confined space

entry and direct measurement of clear water flows is not planned for the 2017/18 wet weather season, but may be incorporated into the 2018/19 wet weather season activities to further characterize the location and quantity of I/I within the sewer collection system.

#### 2.5.3 Flow Monitoring in Known or Suspected Problem Areas

Flow monitoring is planned for the 2017/2018 wet weather season. This effort can also set the performance baseline for I/I removed by improvement projects. Flow monitoring is planned to be conducted after the ground is saturated to provide a better correlation between measured flows and synthesized design storm hydrographs. This effort is intended to quantify the peak flow and total volume of flow from various sub-basins within the collection system associated with a design storm event. For example, flow monitoring will be scheduled to overlap with anticipated rainfall events. The flow meter data will then be evaluated to scale the measured flows to a 10-year, 24- hour duration design storm hydrograph.

Locations for Suspected Problem Areas are as follows, and can be seen on the map (See Appendix A).

- Upstream of Lift Station 3, to compare before and after flows with planned upgrades at Fishhook Road and Spyglass. (See Section 2.4.1)
- Upstream of Lift Station 2, to compare before and after flows with planned upgrades at Mountain Meadow South and Gold Flat Court. (See Section 2.4.1)
- 3) Upstream of Lift Station 6, to compare before and after flows with planned upgrades between Meadowview Drive and Deer Hill Road. (See Section 2.4.2)
- 4) Upstream of Lift Station 5. to compare before and after flows with planned upgrades between Hawks Hill and Kentwood Place. (See Section 2.4.2)

Temporary flow monitoring has become more common than installing permanent meters. Buying the equipment, operating and maintaining can be a burden for the agency. Companies can install flow meters for as little as a week to as long as a few months, monitoring during wet weather conditions to compare rainfall to sewer flow. Results would be compared to a design storm event (likely a 10 year event at 4-5 inches of rain). Flow monitoring for all sub-basins with the District sewer collection system is not cost-practical, so the District plans to target the sub-basins with the highest known or suspected I/I contributions. Evaluation of flow monitoring results will be compared to measured flows at LS 1 to approximate flows from the portions of the sewer collection system that are not

directly measured. Note – the District plans to complete the installation of a Parshall Flume for measuring flows directly upstream of the headworks ahead of the 2017/18 wet weather season.

#### 2.5.4 Smoke Testing

Smoke testing would be conducted ideally during the dry season (late summer is preferable) to identify sources of inflow. During the 2016/17 winter storms, HVLCSD staff looked through the sewer collection system to see where unusually high flows were occurring. It seemed to HVLCSD staff that there may have been residents tapping into the collection system from rain gutters. Smoke testing may be effective in targeting connections into the sewer system from a storm drain

or a roof leader. Smoke testing will not help target cleanouts drained during flooding. The District will make the determination if smoke testing will be an effective means to identify sources of inflow following field work activities during the 2017/18 wet weather season.

## 2.6 Describe those portions of the collection system that are in need of immediate repair.

Section 2.4 describes inflow repairs that should be complete before the 2016/17 rain season.

Section 2.4 also describes infiltration repairs that can occur when budget allows.

# 2.7 Include a proposed schedule for completing the necessary repairs and submitting an Infiltration and Inflow Assessment Report that describes results of the I/I evaluation of the collection system.

HVLCSD currently has a capital improvement plan for the 2017/18 fiscal year, as well as a repair and replacement program. The following schedule will be used for discussion with the Water Board as the budget is updated during the 2017/18 fiscal year and beyond. HVLCSD will have an organized library of information on services done for I/I, which will be useful in staying on track with their priority list.

#### **Proposed Schedule**



	Wet weather field assessments (See Section 2.5) will be performed during the 2017/2018 wet weather season.
	As soon as practical, HVLCSD will modify or replace cleanouts and manhole lids susceptible to inflow as a high priority. This is an inflow source with anticipated low cost to repair relative to reduction in I/I. HVLCSD will begin at known problem areas.
SSMI	HVLCSD currently has a template of an updated SSMP, and expects the updated
	to be finalized or adopted by Spring 2018.
imple	An I/I Report at the completion of the wet weather field assessment will be mented.
	HVLCSD currently has ArcGIS resources and can update their mapping system to show sewer sub-basins and areas susceptible to I/I. Hydraulic modeling of a portion of the collection system may be appropriate to quantify wet weather impacts on the collection system and to determine R&R strategy. The model could also be used to quantify reduction in I/I resulting from completed projects, with comparison between pre- and post- construction flow monitoring results.
	Based on the I/I Report, design and implementation of the initial sewer collection system's R&R project(s) is anticipated to occur in 2018. Depending on the scope of the project(s), design should commence in early 2018 in order to facilitate summer/fall 2018 construction. This will depend on available funding, and may have to commence in July once the fiscal year begins, or be partially deferred to the 2019 dry weather season.
	Post construction flow monitoring and reporting should occur after construction, and though this will ideally occur during the 2018/19 wet weather season, it is dependent on the timing of projects, which is subject to funding (note: the NOV letter requires the post construction work to be completed in 2017/18, which appears to be in error).

#### 2.8 Describes the repairs that were completed to reduce I/I.

After the January 2017 storm events, HVLCSD staff contracted with Miksis to rehabilitate 404-LF of 6-inch sanitary sewer by fold and form pipe rehabilitation (FFP) for approximately \$41,000. This was located between North Shore Drive and Deer Hill Road (See Appendix A). HVLCSD staff mentioned they saw approximately 200 gpm through the segment before repairs. After repairs, HVLCSD staff saw around 40 gpm. HVLCSD reported that an upstream natural spring drains into the lake through a drainage channel over the sewer line, and speculates that spring water may have fed into the sewer line due to cracks in this channel in conjunction with a separation in the sewer pipe. HVLCSD also mentioned that the lift station run hours diminished after repair work was done. Since this work was completed in 2017, the reduction in I/I cannot be directly measured during the planned flow monitoring effort during the 2017/18 wet weather season.

During the winter storms of 2016/17, the area near Little Beach at Lift Station 5 experienced I/I issues. There was still overland water flow, with a sewer manhole nearby at Deer Hollow, with an open pickhole that experienced inflow. Both the lift station leaks and manhole leaks were repaired by Miksis with gel grout and water plugs. Similar to the FFP repairs noted above, I/I reduction from this work cannot be directly measured since it is already completed.

Other repairs in February 2017 included repairing leaks at Lift Station 8, also known as the Hardesters Lift Station, and repairing leaks at a manhole at 18270 Spyglass, upstream of Lift Station 3. Both the lift station leaks and manhole leaks were repaired by Miksis with gel grout and water plugs.

HVLCSD is also currently installing a Parshall flume upstream of the headworks. This will monitor flow coming through the entire collection system, and will be connected through SCADA. The monitored flow can be compared to results from the 2017/18 field assessments.

## APPENDIX I: SEWER SYSTEM MANAGEMENT PLAN (SSMP) AUDIT FORM

<b>Audit Date:</b>
The purpose of the Annual SSMP Audit is to evaluate the effectiveness of the Hidden Valley Lake Community Services District SSMP and to identify any need for improvement.

**Directions:** Please check **YES** or **No** for each question. If **No** is answer for any question, describe the updates/changes needed and the timeline to complete those changes.

		YES	No
ELI	EMENT I - INTRODUCTION AND GOALS		
A.	Have there been any changes to the system that require updates to the System Overview summary in the Introduction		
В.	Have the boundaries of the District's service are changed since the last Audit? If so, describe the changes.		
C.	Have there been any changes in the regulations that should be identified and described in the Introduction?		
D.	Are the goals stated in the SSMP still appropriate and accurate?		
Dis	scussion:		

ELI	EMENT II – ORGANIZATION		
A.	Is the SSMP up-to-date with the organization and staffing contact information?		
B.	Are the position descriptions an accurate portrayal of staff responsibilities?		
C.	Is the list of LRO officials in the CWIQS System current. Are all legally responsible officials and data submitters identified in the SSMP?		
Dis	cussion:		
ELI	EMENT III - LEGAL AUTHORITY		
	s the SSMP contain current reference to the Hidden Valley Lake Community Services Dist l authority to:	trict Code do	ocumenting
A.	Prevent illicit discharges?		
B.	Require proper design and construction of sewers and connections?		
C.	Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the District?		
D.	Enforce any violation of the sewer ordinance?		
E.	Were any changes or modifications made in the past year to the District Sewer Ordinance, Regulations or Standards?		
F.	Are the sewer service charge provisions current and provide the authority for full funding of the sanitary sewer operations?		
Dis	cussion:		

ELI	EMENT IV - OPERATIONS AND MAINTENANCE	
Coll	ection System Maps	
A.	Are the District's sanitary sewer system maps complete, current and sufficiently detailed? Do they include all system additions since the last Audit?	
В.	Are SSO responders able to determine the locations of storm drainage inlets and pipes for possible discharges to waters of the State? Have all new additions been added to the sewer maps?	
Prev	rentative Maintenance	I
C.	Does the SSMP describe current preventative maintenance activities and the system for prioritizing the cleaning of sewers?	
D.	Based upon information in the Annual SSO Report, are the District's preventative maintenance activities sufficient and effective in minimizing SSOs and blockages?	
Reh	abilitation and Replacement Program	
E.	Is there an ongoing condition assessment program sufficient to develop a capital improvement plan addressing the proper management and protection of infrastructure assets?	
F.	Does the SSMP contain a prioritized capital improvement plan for future rehabilitation and replacement of the sanitary sewer system?	
Equ	ipment and Parts Inventory	 
G.	Does the SSMP contain or reference up-to-date information about equipment and replacement inventories?	
Н.	Are contingency equipment and replacement parts sufficient to respond to emergencies and properly conduct regular maintenance?	
Trai	ning	
I.	Does the SSMP document current training expectations and programs?	

Out	reach to Plumbers and Building Contractors		
J.	Does the SSMP contain or reference up-to-date information about design and construction standards?		
K.	Are design and construction standards, as well as standards for inspection and testing of new and rehabilitated facilities sufficiently comprehensive and up-to-date		
Dis	cussion:		
ELI	EMENT V - DESIGN AND CONTRUCTION STANDARDS		
A.	Does the SSMP reference current design and construction standards for the installation of new sanitary sewer systems, pump stations, and other appurtenances and for the rehabilitation and repair of the existing sanitary sewer systems?		
В.	Does the SSMP document current procedures and standards for inspecting and testing installation of new sewers, pumps, and other appurtenances and the rehabilitation and repair of existing sewer lines?		
Dis	cussion:		
ELI	EMENT VI - OVERFLOW AND EMERGENCY RESPONSE PLAN		
A.	Does the District's Sanitary Sewer Overflow Emergency Response Plan establish procedures for the emergency response, notification, and reporting of SSO's?		
В.	Is District staff and contractor personnel appropriately trained on the procedures of the Sanitary Sewer Overflow Emergency Response Plan? Are all training sessions documented and maintained in District files?	0	
C.	Considering SSO performance data, is the Sanitary Sewer Overflow Emergency Response Plan effective in handling SSOs in order to safeguard public health and the environment?		

Dis	cussion:			
ELEMENT VII - FATS, OILS, AND GREASE (FOG) CONTROL PROGRAMS				
A.	Does the SSMP contain or reference up-to-date information about the FOG control program?			
B.	Based upon information in the SSO Annual Report, is the current FOG program effective in documenting and controlling FOG sources?			
Dis	cussion:			
ELI	EMENT VIII - SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN			
A.	Does the SSMP contain or reference up-to-date information about capacity assessment?			
B.	Has the District completed a capacity assessment and identified and addressed any hydraulic deficiencies in the system?			
Dis	cussion:			
ELI	EMENT IX - MONITORING, MEASUREMENT, AND PROGRAM MODIFICATION	NS		
A.	Does the SSMP contain or reference up-to-date information about capacity assessment?			
В.	Is the District able to sufficiently evaluate the effectiveness of the SSMP elements based on relevant information?			
Discussion:				
ELI	EMENT X - SSMP AUDITS			
A.	Have the annual SSMP Audit been completed, reviewed and filed? Has the report been placed on the City Website?			
В.	Has the plan been updated and approved by District Board of Directors?			

Discussion:				
ELI	ELEMENT XI - COMMUNICATIONS			
A.	Does the District effectively communicate with the public and public agencies about the SSMP and continue to address any feedback?			
B.	Has the agency provided the public the opportunity for input as the program is developed and implemented?			
Audit Team:				
Prepared By:				
Reviewed By:				
Approved for Filing on:				

## ACTION OF HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

**DATE: April 17, 2018 AGENDA ITEM:** Discussion and Possible Approval: Discuss and approve the implementation of CPS HR Consulting's Salary Survey **RECOMMENDATIONS:** Implement CPS HR's Salary Survey findings effective July 1, 2018, excluding the General Manager, with an annual salary reflective of the most recent CPS HR Consulting Salary Survey. Implement the salary for the newly approved Utility Tech. position effective April 18, 2018 with an annual salary reflective of the most recent CPS HR Consulting Salary Survey as follows; Step C: \$ 19.89 Step A: \$18.04 Step B: \$18.94 Step D: \$20.89 Step E: \$ 21.94 FINANCIAL IMPACT: Implementation of annual salaries reflective of the most recent CPS HR Consulting Salary Survey will be an increase to the 2018-19 budget of \$101,209.00. **BACKGROUND**: In May of 2017 the District retained CPS HR Consulting to conduct a salary survey to provide the basis for establishing wages and earnings for staff and to be used in the establishment of water and sewer rates that adequately and equitably fund the District's water and sewer operations, while minimizing rate fluctuations. **APPROVED** OTHER AS RECOMMENDED (SEE BELOW) Modification to recommendation and/or other actions: I, Kirk Cloyd, Secretary to the Board, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular board meeting thereof held on April 17, 2018 by the following vote: Ayes: Noes: Abstain:

Absent

Secretary to the Board