Date: January 29, 2010

California Regional Water Quality Control Board
Central Coast Region
Attn: Monitoring and Reporting Review Section
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

Dear Mr. Briggs:

Facility Name: Morro Bay Power Plant
Dynegy Morro Bay, LLC

Address: 1290 Embarcadero Rd.
Morro Bay, CA 93442

Contact Person: Steve Goschke
Job Title: Plant Manager
Phone Number: (805) 595-4214

WDR/NPDES Order Number: 95-28 CA0003743
WDID Number 3 402003002

Type of Report (circle one): Monthly Quarterly Semi-Annual (Annual)

Month(s) (circle applicable months*): (JAN) FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

*Annual Reports (circle the first month of the reporting period)

Year: 2009

Violation(s) (Place an X by the appropriate choice): X No (there are no violations to report) ___ Yes

If Yes is marked (complete a-g):

a) Parameter(s) in Violation:

b) Section(s) of WDR/NPDES Violated:

c) Reported Value(s)

d) WDR/NPDES Limit/Condition:

e) Dates of Violation(s)
(reference page of report/data sheet):

f) Explanation of Cause(s):
(attach additional information as needed)

g) Corrective Action(s):
(attach additional information as needed)

In accordance with the Standard Provisions and Reporting Requirements, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, 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.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,

1-29-10

Name: ***Steven C. Goschke***
Title: ***Plant Manager***

ANNUAL REPORT
DISCHARGE MONITORING & REPORTING PROGRAM

MORRO BAY POWER PLANT

2009

Dynegy Morro Bay, LLC
Morro Bay Power Plant
1290 Embarcadero Road
Morro Bay, CA 93442

EFFLUENT MONITORING REPORT
2009 Summary

Dynegy Morro Bay, LLC.
Morro Bay Power Plant

1. GENERAL OVERVIEW

During 2009, discharges were made from discharge paths 001A, 001B, 001C, 001E and 001F. Discharge 001D, cooling water for the thermal compression salt water evaporators, was abandoned in June, 1995, after the evaporators were removed from service.

Chemical analyses are performed by Creek Environmental Laboratories in San Luis Obispo, CA and by FGL Environmental located in Santa Paula, CA, both of which are ELAP certified. CRG Marine Laboratories of Canoga Park are used to perform trace metals analysis of the annually collected intake and Discharge 001 seawater samples using EPA 1640. Samples collected for bioassay analysis are analyzed by Aquatic Testing Laboratories of Ventura. All samples are analyzed using approved methods, and are either analyzed immediately in the field or are appropriately preserved and refrigerated until analyzed at one of the above mentioned offsite laboratories. Discharge flows are estimated from flow integrators and pump operating hours. Redundant, co-located temperature measurements are taken at both the intake and outfall using both RTD temperature sensors with wireless transmitters and submersible data loggers set to collect data every 5 minutes.

Following is a summary by calendar quarter of notable NPDES related issues during 2009.

1.1. First Quarter 2009

During the first quarter 2009 monitoring and reporting period, there were no exceedences or violations of any discharge limits.

1.2. Second Quarter 2009

During the second quarter 2009 monitoring and reporting period, there were no exceedences or violations of any discharge limits.

1.3. Third Quarter 2009

During the third quarter 2009 monitoring and reporting period, there were no exceedences or violations of any discharge limits.

1.4. Fourth Quarter 2009

During the fourth quarter 2009 monitoring and reporting period, there were no exceedences or violations of any discharge limits.

There were also several large changes at the Morro Bay Power Plant that began over the course of 2008 and continued into the beginning of 2009. Below are summaries explaining the final closure of the formerly permitted RCRA surface impoundment ponds, the initiation of a two year

Goby Monitoring Study, and of the enrollment of the Morro Bay Power Plant under the Industrial Storm Water General Permit.

Surface Impoundment Closure and Discharges (Discharge 001E)

In Fall 2007, the Morro Bay Power Plant (MBPP) began the process of clean closing their RCRA permitted surface impoundment ponds (Discharge 0001E). All field decontamination and closure activities were completed by the close of the 4th quarter 2007, and a closure report was submitted to the Department of Toxic Substances Control (DTSC) and the Central Coast Regional Water Quality Control Board (RWQCB) on January 29, 2008. DTSC approved the final closure and rescission of the RCRA permit regulating the operation of the surface impoundments in a letter dated August 15, 2008. Prior to the final closure of the Waste Discharge Requirements Order No. R3-2004-105 (WDR R3-2004-105) held with the RWQCB for the use of these ponds as an industrial discharge, the RWQCB Executive Officer issued a letter dated January 20, 2009, granting the rescission of Monitoring and Reporting Program R3-2004-105 (MRP R3-2004-105), thereby absolving the MBPP from all associated monitoring and reporting requirements for the surface impoundments. Final closure of the WDR was later granted during a regularly scheduled RWQCB meeting held on October 23, 2009, thereby eliminating the ponds as a regulated industrial discharge under the oversight of the RWQCB. Consequently all rain water collected in the surface impoundments are now treated and discharged as storm water under the General Industrial Storm Water Permit (WDID 3 40I021953).

On March 19, 2009, the MBPP submitted a letter to the RWQCB notifying them of plans to reroute the pond discharge to the storm water conveyance system, commencing April 1, 2009. Enclosed with the submittal were analytical results confirming that all discharges from the impoundments consisted of uncontaminated storm water and were therefore exempt from provision No. 1 of the facility NPDES permit which prohibits discharges from any location other than that described in the permit. Due to the altered discharge location and operating practices, beginning 2nd Quarter 2009, pond discharges were no longer reported in the quarterly NPDES report and further discussion of the ponds were limited to annual storm water reports.

On February 25, 2009 and March 23, 2009, a combined total of 74,034 gallons of non-hazardous rain water was discharged from the West Surface Impoundment Pond (W-SIP). Prior to discharge, samples were collected and submitted to Creek Environmental Laboratories for analysis. The analytical results, which are presented in Attachment A to Part 2 of this report, confirmed that all concentrations were below permitted discharge limits. Following a letter dated May 8, 2009 by the RWQCB Executive Officer, MRP 95-28 was revised to no longer require the collection of these discharge samples, and allowed that any future discharge analysis be conducted with the annual storm water discharge sampling events pursuant to the General Industrial Storm Water Permit and the facility Storm Water Pollution Prevention Plan (SWPPP). Boiler cleaning wastes are no longer being directed to the impoundments for treatment and disposal. As with the first quarter's discharge events, any future discharges shall consist of rain water collected and consequently discharged from these impoundments to the facility storm water conveyance system.

Goby Monitoring Study

On August 21, 2008, the Morro Bay Power Plant, received a formal notice by the Regional Water Quality Control Board requesting submittal of technical and monitoring reports. Among these requested reports was a Goby Monitoring Study Plan, required if the plant planned to continue once-through cooling (OTC) operation. In order to facilitate permit reissuance by providing a background data set needed in estimating proportional larval loss due to power plant operation, the Morro Bay Power Plant agreed to conduct a monitoring study of adult and juvenile gobies per the 2007 decision by the Technical Working Group (TWG). On behalf of Dynegy Morro Bay, a Goby Monitoring Study Plan was prepared by David Mayer of Tenera Environmental to provide monitoring and reporting services starting in Nov 2008 through 2010. Initial background monitoring was initiated in November 2008, and the MBPP has conducted follow up sampling pursuant to the submitted Goby Monitoring Study Plan in spring 2009.

Industrial Storm Water General Permit (WQ Order No. 97-03-DWQ) (WDID # 3 40I021953)

In their August 21st letter, the RWQCB also mandated that the MBPP submit a Notice of Intent (NOI) for enrollment under the Industrial Storm Water General Permit (WQ Order No. 97-03-DWQ). A facility Storm Water Pollution Prevention Plan (SWPPP) was completed in December 2008 and a NOI was submitted to the State Water Resources Control Board (SWRCB) on December 4, 2008. The MBPP received a NOI receipt notice from the SWRCB dated 12/11/2008, and the MBPP now operates under the Industrial Storm Water General Permit (WDID # 3 40I021953).

Annual Intake & Outfall Samples (Source and Receiving Water Samples)

Samples of Discharge 001 effluent were collected on September 28, 2009 pursuant to the annual monitoring and reporting requirements contained in Monitoring and Reporting Program 95-28 (MRP 95-28). Though not required by MRP 95-28, and not reported in the attached Data Monitoring Report (DMR), samples were also collected at the MBPP Intake Structure in front of the Unit 3 and Unit 4 intake bays to assess source water analyte concentrations. The Intake Structure samples were collected approximately 20 minutes prior to collection of the Discharge 001 effluent samples to assure to the greatest extent practicable sampling of the same water mass. All samples were collected in appropriately preserved containers and transported under chain-of-custody control to ELAP certified laboratories for analysis as follows:

- FGL Laboratories (ELAP Certificate 1573)
    - PCBs
    - Trace Metals
    - Ammonia as N
- Aquatic Testing Laboratories (ELAP Certificate 1775)
    - Chronic Toxicity (EPA 600/R-95/136)
- CRG Marine Laboratories (ELAP Certificate 2261)
    - Trace metals (EPA Method 1640)

As a result of past difficulties accurately determining copper and other target metals at background levels in seawater samples collected at MBPP's intake and discharge, and the prolifically documented matrix interference problems reported in the literature involving the analysis of marine and estuarine samples using various traditional analytical methods, duplicate

split samples were collected and submitted to CRG Marine Laboratories for analysis by EPA Method 1640: *Determination of Trace Elements in Ambient Water by On-line Chelation Pre-concentration and Inductively Coupled Plasma-Mass Spectrometry*. MBPP has now submitted duplicate split samples of intake and discharge seawater samples to CRG for trace metals analysis by EPA 1640 since 2003.

EPA Method 1640 is a relatively new, state-of-the-art analytical method developed specifically by EPA for the determination of various metals at or below the very low EPA Water Quality Criteria (WQC) concentrations and is particularly suited for analysis of estuarine and marine samples. EPA method 1640 employs a pre-concentration step in the sample preparation process that selectively retains the analytes of interest while reducing the saline (high dissolved solids) seawater matrix effect. EPA Region IX has been approving the use of EPA 1640 as an alternate test procedure for the analysis of compliance related marine samples for some time now. Based on the known difficulties analyzing seawater samples for some of the trace metals using traditional methods, and CRG's extensive experience with marine samples and the extremely robust QA/QC package they reported along with the MBPP intake and discharge sample results, the CRG trace metal results are reported in the following data monitoring report forms enclosed with this report.

In addition to the samples collected for chemical analysis discussed above, Intake and Discharge 001 seawater samples were submitted to Aquatic Testing Laboratories for chronic toxicity determination. The bioassay specified in MRP 95-28 involves observing groups of juvenile red abalone (*haliotis rufescens*) for abnormal shell development following three days of being subjected to sample water. Different groups of juvenile abalone are subjected to different dilutions of the sample water with reagent water, including a group subjected to pure sample water (no sample dilution). ATL reported no observable effects in either the undiluted Intake or Discharge 001 samples resulting in a TUc for both of 1. This result is consistent with past results which have never shown any observable chronic toxicity associated with the MBPP discharge.

The following table presents a summary of the results for both the Intake and Discharge 001 samples. As part of their QA/QC regiment, CRG analyzed the Intake sample in replicate providing information relative to the precision of their analysis. To be conservative, the lowest result of CRG's replicate intake analysis is reported here. Comparing the results of the Intake and Discharge 001 samples, it is evident that the two samples are essentially indistinguishable with only one of the thirteen tested parameters higher in the Discharge 001 sample than the Intake sample.

Parameter	Method	Units	Reporting Limit	Discharge 001	Intake
Chronic Toxicity	—	TUc		1	1
Ammonia-N	4500NH3H	mg/L	0.1	ND	ND
PCB	8082	mg/L	0.0005	ND	ND
Arsenic	1640m	mg/L	0.000015	0.00166	0.0015
Cadmium	1640m	mg/L	0.00001	0.000045	0.000074
Chromium	1640m	mg/L	0.00005	0.000566	0.000647
Copper	1640m	mg/L	0.00002	0.00084	0.0013

Lead	1640m	mg/L	0.00001	0.000085	0.000206
Mercury	245.7m	mg/L	0.00002	ND	ND
Nickel	1640m	mg/L	0.00001	0.001144	0.000941
Selenium	1640m	mg/L	0.000015	ND	ND
Silver	1640m	mg/L	0.00004	ND	0.00002
Zinc	1640m	mg/L	0.00001	0.003343	0.004943

Bottom Sediment Monitoring & Reporting

On September 24, 2009, Tenera Environmental collected two replicate sediment samples from each of three discharge (A2, A4, and A5) and three reference sampling locations (A6, A7, and A8). Discharge locations A2, A4, and A5 are all located within the near-shore waters of Estero Bay in the general vicinity of MBPP Discharge 001. Reference location A8 on the other hand is located within Morro Bay near the MBPP Intake Structure (reflective of source water conditions) while reference locations A6 and A7 are located within Estero Bay but at considerable distance south and north of Discharge 001 respectively and outside of the identified area potentially influenced by Discharge 001. The samples were collected in appropriately preserved containers and submitted to Creek Environmental Laboratories in San Luis Obispo for PCB, sulfide, and trace metals analysis. The samples for metals analysis were extracted using the weak acid leachate (WAL) method prescribed in MPR 95-28. Replicate samples from each monitoring location were also submitted to Earth Systems Environmental in San Luis Obispo for particle size distribution analysis.

Each sample was individually analyzed for ten target analytes; eight metals (arsenic, cadmium, hexavalent chromium, copper, lead, mercury, nickel, and zinc), PCB's, and total sulfides. The mean concentration for each replicate pair was then calculated. Both grouped and individual discharge monitoring station results were then statistically compared to the reference station results. Overall, the trends and observations from the 2009 Bottom Sediment monitoring effort were similar to past monitoring events. Following are the main summarized findings as reported by Tenera:

- No Cadmium, hexavalent chromium, or PCBs was detected at any of the sampling stations.
- Mercury was detected in five of the six discharge samples and one of the six reference samples, but was found at such low levels (just at the detection limit-0.01 mg/kg) that it was considered essentially absent and was not statistically analyzed. Zinc was detected in four of the six discharge samples and only one of the six reference samples, but was found at such low levels (just at or slightly over the detection limit-8 mg/kg) that it was considered essentially absent and was not statistically analyzed. A low level of Arsenic was detected in one of the two replicate samples collected at discharge station A4, and was below the detection limit in all other samples, hence data was not statistically analyzed.
- Replicates collected from reference station A8, located within Morro Bay near the Intake Structure, had the highest concentrations of copper, lead, and sulfides.
- No significant difference was observed between the discharge and reference monitoring stations for copper, lead, and nickel overall.

The final 2009 NPDES Sediment Monitoring Report was previously submitted to the RWQCB under a separate cover letter date January 19, 2010. Please refer to this document for greater detail and in depth discussions of the sample collection methods, statistical analysis employed, and report findings.

Hydrographic Survey

Tenera Environmental performed a hydrographic survey of the area in front of, and adjacent to, the MBPP Intake Structure on July 16, 2009 between 1036 and 1311 PST. The area included the entire 240 ft width of the Intake Structure and adjacent areas, 100 feet to the southeast, 200 feet to the northwest and 300 feet offshore. The bottom surface of the bay in the survey area was mapped using a Biosonics DTX digital echo sounder mounted in a 13 foot skiff equipped with a differential global positioning system (DGPS). The skiff was piloted at 2 and 3 knots along predetermined tracks spaced approximately 15-20 feet apart first in a criss-crossing east-west to north-south trending pattern.

The results of the survey indicate that "[i]n general, the near-intake bottom depths were similar to those measured in years past." Water depths directly in front of the intake bays and out to a distance of 150 feet ranged between -10.4 ft and -19.8 ft MLLW with an average of -16.8 ft MLLW. On average, the 2009 results were -0.3 feet deeper than the previous survey performed August 26, 2008. The results of the hydrographic survey were previously submitted to the Central Coast Regional Water Quality Control Board under a separate cover letter dated January 19, 2010. Please refer to this report for further detail and discussion.

Intake Approach Velocity Monitoring

Tenera Environmental performed intake approach velocity monitoring in front of the MBPP cooling water intake structure on July 30, 2009 between 0831 and 1041 PST. Velocities were measured in slack water with little tidal movement in front of the Unit 3 and Unit 4 in take bays using a 1 MHz Sontek Acoustic Doppler Profiler (ADP) from 0831to 1041 PST. Each of Unit 3 and Unit 4's circulating water pumps were in operation at the time of measurement. Duke Energy, a previous owner of the MBPP, previously received RWQCB approval in 2004 to forego approach velocity testing of Unit 1 and Unit 2 since neither unit had seen operational service since the fall of 2003. Since neither Unit 1 nor Unit 2 operated during the 2009 monitoring and reporting period, approach velocity testing was again not performed. Should either unit be returned to service, approach velocity testing will be resumed and the RWQCB notified.

The results of the 2009 intake approach velocity monitoring indicate that the spatial average during the study was 0.66 fps with maximum and minimum speeds of 0.76 and 0.55 fps measured by the Sontek ADP. As in previous years, the average of Unit 3 speeds exceeded the Unit 4 average. The Sontek ADP measured its highest bay average speed at Unit Bay 3-2, as was the case in 2008. The results of the Intake Approach Velocity Monitoring were previously submitted to the Central Coast Regional Water Quality Control Board under a separate cover letter dated January 19, 2010.

2. OPERATOR CERTIFICATION

Morro Bay Power Plant is a private treatment facility that treats only industrial waste. Operators of this facility are not required to be certified under Title 23 CCR. The NPDES discharge program is administered and monitored by the following staff members:

Steven C. Goschke	Plant Manager
Thomas A. Lott	Plant Engineer
Ninah Rhodes Hartley	Environmental Compliance Specialist

Dissolved oxygen (DO), pH, and residual chlorine are measured in the field by trained field technicians from Creek Environmental Laboratories. During 2009, samples collected pursuant to the requirements of Monitoring & Reporting Program 95-28 were analyzed by the following ELAP certified laboratories using approved and industry standard analytical methods:

- Creek Environmental Laboratories (ELAP Certification 1958)
- FGL Laboratories (ELAP Certification 1573),
- CRG Marine Laboratories (ELAP Certification 2261)
- Aquatic Testing Laboratories (ELAP Certification 1775)

3. FACILITY OPERATING AND MAINTENANCE MANUALS

The primary operating, maintenance, and contingency instructions and plans for Morro Bay Power Plant are contained in the documents listed below. These manuals are complete and valid for this facility.

Manual	Date of Last Review
Morro Bay O&M Procedures	Last Revised 1st Quarter 2010
Morro Bay Power Plant Operating Orders	Last Revised 1st Quarter 2010
Facility Emergency Plan, Morro Bay Power Plant	Last Revised May 2009

4. SLUDGE MONITORING

Sludge is produced as a result of solids settling in the boiler wash, waterside rinse, and chemical cleaning holding ponds. Since the pond clean closure in fall 2007, no discharges have been made to the ponds, hence no annual cleaning or sludge removal has occurred in 2009. The only material collected in the ponds during 2009 has been rain water which has been tested and discharged under the MBPP's NPDES permit (NPDES CA0003743, Order 95-28) for the months of January through March and under the General Industrial Storm Water Permit (WDID 3 40I021953) for the remainder of the year. As of December 2008, the MBPP began operating under the Industrial Storm Water General Permit (WQ Order No. 97-03-DWQ) and was granted permission by the RWQCB in a letter dated January 20, 2009 to treat all discharges from the surface impoundments as storm water discharges. The MBPP does not foresee future hazardous waste production from the surface impoundment ponds. No chemical boiler cleanings or stack washes were conducted during the 2009 reporting period, nor shall any occur from this point onward.

SUMMARY OF MONITORING PROGRAM AND REQUIRED REPORTS

MONITORING OF PLANT INFLUENT AND EFFLUENT

PART 1: Descriptions of intake and discharge paths

PART 2: 2009 Discharge Tabular Summary

PART 3: 2009 Discharge Trend Charts

PART 4: Certification for Ocean Plan Constituent Monitoring

PART 1

INTAKE AND DISCHARGE FLOW PATH DESCRIPTIONS

DYNEGY MORRO BAY, LLC.
MORRO BAY POWER PLANT
EFFLUENT MONITORING REPORT
ORDER NO. 95-28

INTAKE

Temperature readings are taken at the intake structure before the bar racks by both RTD temperature sensors with wireless transmitters and submersible data loggers set to collect data every 5 minutes. Grab samples for pH determination are collected using a 5-gallon plastic bucket cast from the shore. Sample is analyzed in the field by trained and qualified Creek Environmental Laboratories personnel.

DISCHARGE 001A

Flow of once-through cooling water is estimated from pump operating hours and pump efficiency on a daily basis.

Grab samples for pH and residual chlorine analysis are collected in plastic sample bottles at the outfall channel, beyond the point dividing units 1 & 2 and units 3 & 4 discharge tunnels. To ensure to the greatest extent practical that the same water mass is sampled; discharge samples are collected 15-20 minutes after sampling the intake. Total dissolved oxygen, pH and residual chlorine are measured immediately in the field using field portable instruments by trained and qualified Creek Environmental Laboratories personnel.

Table 1: Discharge 001A

Parameter	Container	Preservative	Analytical Method	Frequency
Residual Chlorine	Not Applicable	Not Applicable	SM 4500G (field measurement)	Weekly when chlorinating
pH	Not Applicable	Not Applicable	EPA 150.1 (field measurement)	Weekly when discharging
CAM Metals	500 ml plastic	HNO_3	EPA 6010 or EPA 200.8 (ICPMS) and EPA 1640(ICPMS) and for mercury: EPA 7470, EPA 245.1, or EPA 245.7m	Annually
Chronic Toxicity	5L Plastic	None	*Short Term Methods for Measuring Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine Organisms* (EPA/R-95/136)	Annually
Ammonia	500 ml plastic	H_2SO_4	EPA 350.1 or EPA 4500NH3H	Annually

Temperature readings are taken in the outfall canal approximately 60 feet down stream of the concrete discharge headwork by submersible data loggers set to collect data every 5 minutes.

Back-up temperature readings are also taken immediately in front of the discharge headwork by RTD temperature sensors with wireless transmitters also set to collect data every 5 minutes.

DISCHARGE 001B

Screen wash flow is estimated from scheduled daily operation cycles.

DISCHARGE 001C

Brine discharge from the vapor compression evaporator is estimated by subtracting the volume of product produced from the volume of feed water supplied to the evaporator. The effluent stream is composed of both evaporator brine and overflow sea water from the feed water stilling tank. Grab samples of evaporator brine are collected in both 1 liter glass bottles containing HCl preservative and 500 ml plastic bottles for analysis of oil & grease and total suspended solids respectively. The samples are transported to Creek Environmental Laboratories under chain-of-custody and analyzed within applicable holding times. Concurrent evaporator make-up (influent) samples are collected to assess influent loading.

Table 2: Discharge 001C

Parameter	Container	Preservative	Analytical Method	Frequency
Total Suspended Solids	250-500 ml plastic	None	EPA 160.2 or SM 2540D	Weekly when discharging
Oil & Grease	1 L glass	H2SO4	EPA 1664	Weekly when discharging

DISCHARGE 001D

Discharge 001D, cooling water flow to the thermal compression evaporators, is no longer in use. The thermal compression evaporators have been replaced with an evaporator that does not require cooling water. Accordingly, the attached influent and effluent monitoring report does not include data for discharge 001D.

DISCHARGE 001E

On October 23, 2009, at their regularly scheduled hearing, the RWQCB rescinded WDR R3-2004-105, which required management of the surface impoundments as an industrial discharge. Furthermore, in a letter dated May 8, 2009 from the RWQCB Executive Officer, MRP 95-28 was revised to no longer require the collection of impoundment discharge samples, and allowed that any future discharge analysis be conducted with the annual storm water discharge sampling events pursuant to the General Industrial Storm Water Permit and the facility Storm Water Pollution Prevention Plan (SWPPP). Therefore, previously required sampling and analysis of pond discharges for oil & grease, pH, total suspended solids, and CAM metals are no longer conducted and all discharges are now directed to the facility storm water conveyance system.

However, in order to obtain exclusion from previous MRP 95-28 testing requirements and permitted discharge flow paths, the following procedures were conducted during the February and March discharges to ensure pond discharges were indeed "uncontaminated storm water" and no longer subject to testing requirements.

Prior to discharge, the holding pond water was circulated through a closed loop, taking suction from one end of the impoundment and discharging to the opposite end of that same impoundment. Samples of the holding pond water were then collected and analyzed as shown in the following table by Creek Environmental Laboratories. Once the sample results were determined to be below NPDES limits, the holding pond water was valved to discharge 001A.

Table 3: Discharge 001E

Parameter	Container	Preservative	Analytical Method	Frequency	Effluent Limitation
Total Suspended Solids	250-500 ml plastic	None	EPA 160.2 or SM 2540D	Weekly when discharging	Yes
Oil & Grease	1 L glass	H2SO4	EPA 1664	Weekly when discharging	Yes
CAM Metals	500 ml plastic	HNO3	EPA 200.8, EPA 6010, or EPA 6020 Mercury by EPA 245.1 or EPA 7470	At least one sample per discharge event per impoundment	No
pH	NA	NA	EPA 150.1 (field measurement) or SM 4500-H B	At least one sample per discharge event per impoundment	Yes

Flow meter integrators on the pump discharge were used for estimating the flow of each discharge from the holding ponds.

DISCHARGE 001F

Flow from the oil-water separator system is estimated from daily integrator readings. Grab samples of the system effluent are collected for total suspended solids and oil & grease analysis from a sample tap on the discharge header using the containers and preservatives shown in Table 4. The samples are submitted under chain-of-custody to Creek Environmental Laboratories for chemical analysis.

Table 4: Discharge 001F

Parameter	Container	Preservative	Analytical Method	NPDES WDR Limit
Total Suspended Solids	250-500 ml plastic	None	EPA 160.2 or SM 2540D	Weekly when discharging
Oil & Grease	1 L glass	H2SO4	EPA 1664	Weekly when discharging

PART 2

2009 DISCHARGE
TABULAR SUMMARY

DISCHARGE SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
895 AEROVISTA PLACE, SUITE 101
SAN LUIS OBISPO, CA 93401

DYNEGY MORRO BAY, LLC.
MORRO BAY POWER PLANT
1290 EMBARCADERO
MORRO BAY, CA 93442

FACILITY I.D.	BEGINNING YEAR/MO/DAY	ENDING YEAR/MO/DAY	ST. CODE	NPDES PERMIT #
3 402003002	09/01/01	09/12/31	06	CA0003743

STATION	DISCH 001A			INTAKE			DISCH 001			INTAKE			DISCH 001			DISCH 001			INTAKES			DISCH 001		
ANALYSIS	FLOW			TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE			RES CHLOR			PH			PH		
UNITS	MGD			DEGREES F			DEGREES F			DEGREES F			DEGREES F			MG/L			PH UNITS			PH UNITS		
SMPL TYPE	RECORDED			-------			-------			-------			-------			GRAB			GRAB			GRAB		
FREQ	DAILY			DAILY			DAILY			@HEAT TRMT			@HEAT TRMT			WEEKLY			WKLY@CHLOR			WKLY@CHLOR		
	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO
JAN	30.4	220.4	2.0	53.8	56.0	51.4	55.2	61.2	53.1	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
FEB	4.3	19.9	2.0	54.6	56.1	52.8	55.0	55.9	53.9	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
MAR	9.5	138.5	2.0	53.3	55.6	51.5	54.4	56.2	52.4	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
APR	11.7	178.0	2.0	52.9	55.4	50.6	54.6	61.6	52.7	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
MAY	19.8	196.3	2.0	54.3	56.8	52.1	56.2	63.6	53.4	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
JUN	28.8	379.0	2.0	58.7	61.7	56.3	60.2	66.2	57.0	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
JUL	216.5	405.2	2.0	58.0	59.4	56.3	64.2	72.6	57.4	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
AUG	103.9	405.2	2.0	58.0	59.4	56.3	62.2	73.0	57.0	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
SEP	139.6	405.2	2.0	58.2	59.4	57.3	63.9	73.9	57.8	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
OCT	4.2	20.9	2.0	57.7	61.2	54.1	58.2	60.8	55.0	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
NOV	4.1	17.8	2.0	55.2	56.8	53.8	55.7	56.8	54.8	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
DEC	31.4	405.2	2.0	55.0	56.3	53.5	55.9	62.4	53.7	no	heat	trmt	no	heat	trmt	no	chlorination		no	chlorination		no	chlorination	
YEARLY	50.4	405.2	2.0	55.8	61.7	50.6	58.0	73.9	52.4	NO	HEAT	TRMT	NO	HEAT	TRMT		no chlorination			no chlorination			no chlorination	
TIMES EXCEEDED	MAX: 725 = 0						MAX: INTAKE + 30 = 0						MAX: INTAKE + 35 = 0									pH < 7.0 = 0		
TIMES EXCEEDED																						pH >8.3 = 0		
TIMES EXCEEDED																						pH Diff. <0.2 = 0		

REMARKS: (1) Flow data in March and November were normalized to 24 hour period to reflect changes due to Daylight Savings Time

0

(2) ND = "Not Detected" at or above specified laboratory reporting limit (ex. <0.01).

(3) No chlorination occurred in 2009.

PRINCIPAL EXECUTIVE OFFICER
STEVEN C. GOSCHKE

SIGNATURE OF AUTHORIZED AGENT	DATE
Steven Goschke	JAN 29 2010

DISCHARGE SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
895 AEROVISTA PLACE, SUITE 101
SAN LUIS OBISPO, CA 93401

DYNEGY MORRO BAY, LLC.
MORRO BAY POWER PLANT
1290 EMBARCADERO
MORRO BAY, CA 93442

	FACILITY I.D.	BEGINNING YEAR/MO/DAY	ENDING YEAR/MO/DAY	ST. CODE	NPDES PERMIT #
Q2	3 402003002	09/01/01	09/12/31	06	CA0003743

STATION	DISCH 001B			DISCHG 001C			DISCH 001C			DISCHG 001C						DISCHG 001E			DISCHG 001E					
ANALYSIS	FLOW			FLOW			T. SUS SOLIDS			OIL & GREASE						FLOW			T SUS SOLIDS					
UNITS	1000 GPD			1000 GPD			MG/L			MG/L						1000 GPD			MG/L					
SMPL TYPE	ESTIMATED			ESTIMATED			GRAB			GRAB						ESTIMATED			GRAB					
FREQ	DAILY			DAILY			WEEKLY			WEEKLY						DAILY			@ DISCHG					
	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO				AVG	HI	LO	AVG	HI	LO			
JAN	1200	1200	1200	41.9	263.1	0.0	3.0	9.0	ND (<5)	ND (<5)	ND (<5)	ND (<5)					no discharge			no discharge				
FEB	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge					2.4	72.8	0.0	8.0	8.0	8.0			
MAR	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge					0.0	1.3	0.0	20.0	20.0	20.0			
APR	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge						no discharge			no discharge				
MAY	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge						no discharge			no discharge				
JUN	1200	1200	1200	30.6	274.5	0.0	10.0	10.0	10.0	ND (<5)	ND (<5)	ND (<5)					no discharge			no discharge				
JUL	1200	1200	1200	35.1	266.1	0.0	12.0	12.0	12.0	ND (<5)	ND (<5)	ND (<5)					no discharge			no discharge				
AUG	1200	1200	1200	15.0	255.3	0.0	7.0	7.0	7.0	ND (<5)	ND (<5)	ND (<5)					no discharge			no discharge				
SEP	1200	1200	1200	56.0	403.2	0.0	9.0	9.0	9.0	ND (<5)	ND (<5)	ND (<5)					no discharge			no discharge				
OCT	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge						no discharge			no discharge				
NOV	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge						no discharge			no discharge				
DEC	1200	1200	1200	0.0	0.0	0.0		no discharge			no discharge						no discharge			no discharge				
YEARLY	1200	1200	1200	14.9	403.2	0.0	8.2	12.0	7.0	ND (<5)	ND (<5)	ND (<5)				1.2	72.8	0.0	14.0	20.0	ND (<5)			
TIMES EXCEEDED							30-D AV 30=0			30-D AV 15=0									30-D AV 30=0					
TIMES EXCEEDED							D MAX 100=0			D MAX 20=0									D MAX 100=0					
TIMES EXCEEDED																								

REMARKS: (1) ND = "Not Detected" at or above specified laboratory reporting limit (ex. <0.01).

PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF AUTHORIZED AGENT	DATE
STEVEN C. GOSCHKE	Steven Goschke	JAN 29, 2010

DISCHARGE SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
895 AEROVISTA PLACE, SUITE 101
SAN LUIS OBISPO, CA 93401

DYNEGY MORRO BAY, LLC.
MORRO BAY POWER PLANT
1290 EMBARCADERO
MORRO BAY, CA 93442

	FACILITY I.D.	BEGINNING YEAR/MO/DAY	ENDING YEAR/MO/DAY	ST. CODE	NPDES PERMIT #
Q2	3 402003002	09/01/01	09/12/31	06	CA0003743

STATION	DISCH 001E			DISCHG 001E			DISCHG 001E			DISCHG 001F			DISCHG 001F			DISCHG 001F			INTAKES			DISCH 001		
ANALYSIS	OIL & GREASE			COPPER			IRON			FLOW			T SUS SOLIDS			OIL & GREASE			PH			PH		
UNITS	MG/L			MG/L			MG/L			1000 GPD			MG/L			MG/L			PH UNITS			PH UNITS		
SMPL TYPE	GRAB			GRAB			GRAB			ESTIMATED			GRAB			GRAB			GRAB			GRAB		
FREQ	WEEKLY			@CHMWST DIS			@CHMWST DIS			DAILY			WEEKLY			WEEKLY			@CHMWST DIS			@CHMWST DIS		
	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO
JAN		no discharge			no discharge			no discharge		11.6	33.2	1.5	3.8	15.0	ND (<5)	4.4	9.8	ND (<5)		no discharge			no discharge	
FEB	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge		7.5	19.2	2.6	2.0	8.0	ND (<5)	2.4	9.7	ND (<5)		no discharge			no discharge	
MAR	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge		5.8	50.5	1.8	1.2	6.0	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
APR		no discharge			no discharge			no discharge		5.3	40.0	1.3	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
MAY		no discharge			no discharge			no discharge		6.3	27.0	1.0	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
JUN		no discharge			no discharge			no discharge		9.7	35.4	2.6	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
JUL		no discharge			no discharge			no discharge		12.4	30.5	2.4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
AUG		no discharge			no discharge			no discharge		10.3	57.9	2.2	ND (<5)	ND (<5)	ND (<5)	1.1	5.3	ND (<5)		no discharge			no discharge	
SEP		no discharge			no discharge			no discharge		14.0	38.4	3.7	5.8	23.0	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
OCT		no discharge			no discharge			no discharge		6.1	19.8	1.1	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
NOV		no discharge			no discharge			no discharge		5.0	9.5	1.9	3.3	7.0	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
DEC		no discharge			no discharge			no discharge		7.4	32.7	2.1	2.6	13.0	ND (<5)	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge	
YEARLY	ND (<5)	ND (<5)	ND (<5)		no discharge			no discharge		8.4	57.9	1.0	1.5	23.0	ND (<5)	0.7	9.8	ND (<5)		no discharge			no discharge	
TIMES EXCEEDED	30-D AV 15=0			30-D AVG 1=0			30-D AV 1=0						30-D AV 30=0			30-D AV 15=0								
TIMES EXCEEDED	D MAX 20=0			D MAX 1=0			D MAX1=0						D MAX 100=0			D MAX 20=0								
TIMES EXCEEDED																								

REMARKS: (1) ND = "Not Detected" at or above specified laboratory reporting limit (ex. <0.01).

PRINCIPAL EXECUTIVE OFFICER
STEVEN C. GOSCHKE

SIGNATURE OF AUTHORIZED AGENT	DATE
Steven Goschke	JAN 29, 2010

DISCHARGE SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
895 AEROVISTA PLACE, SUITE 101
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DYNEGY MORRO BAY, LLC.
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	FACILITY I.D.	BEGINNING YEAR/MO/DAY	ENDING YEAR/MO/DAY	ST. CODE	NPDES PERMIT #
Q2	3 402003002	09/01/01	09/12/31	06	CA0003743

STATION	DISCH 001			DISCH 001			DISCH 001			DISCH 001			DISCH 001			DISCH 001			DISCH 001			DISCH 001		
ANALYSIS	ARSENIC			CADMIUM			LEAD			SILVER			HEX CHROM			SELENIUM			MERCURY			PCB'S		
UNITS	MG/L			MG/L			MG/L			MG/L			MG/L			MG/L			MG/L			MG/L		
SMPL TYPE	GRAB			GRAB			GRAB			GRAB			GRAB			GRAB			GRAB			GRAB		
FREQ	ANNUALLY			ANNUALLY			ANNUALLY			ANNUALLY			ANNUALLY			ANNUALLY			ANNUALLY			ANNUALLY		
	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO
JAN																								
FEB																								
MAR																								
APR																								
MAY																								
JUN																								
JUL																								
AUG																								
SEP	0.00166	0.00166	0.00166	0.00005	0.00005	0.00005	0.00009	0.00009	0.00009	ND	ND	ND	0.00057	0.00057	0.00057	ND	ND	ND	ND	ND	ND	ND	ND	ND
OCT																								
NOV																								
DEC																								
YEARLY	0.00166	0.00166	0.00166	0.00005	0.00005	0.00005	0.00009	0.00009	0.00009	ND <0.00004	ND <0.00004	ND <0.00004	0.00057	0.00057	0.00057	ND <0.000015	ND <0.000015	ND <0.000015	ND <0.00002	ND <0.00002	ND <0.00002	ND <0.0005	ND <0.0005	ND <0.0005
TIMES EXCEEDED	6-M MED 0.06=0			6-M MED 0.01=0			6-M MED 0.02=0			6-M MED 0.0063=0			6-M MED 0.02=0			6-M MED 0.17=0			6-M MED 0.0005=0					
TIMES EXCEEDED	D MAX 0.33=0			D MAX 0.05=0			D MAX 0.09=0			D MAX 0.0303=0			D MAX 0.09=0			D MAX 0.68=0			D MAX 0.0018=0					
TIMES EXCEEDED	I MAX 0.88=0			I MAX 0.11=0			I MAX 0.23=0			I MAX 0.0781=0			I MAX 0.23=0			I MAX 1.71=0			I MAX 0.046=0					

REMARKS: (1) ND = "Not Detected" at or above the laboratory reporting limit specified in parenthasis "( )".

(2) Though analyzed by both EPA 3010/200.8 and EPA 1640, reporting limit for metals presented above is based on EPA 1640 analysis. Laboratory reported matrix interference problems using EPA 3010/2008 and therefore reported elevated reporting limits above six-month discharge limit for several analytes.

PRINCIPAL EXECUTIVE OFFICER
STEVEN C. GOSCHKE

SIGNATURE OF AUTHORIZED AGENT	DATE
Steven Goschke	JAN 29, 2010

DISCHARGE SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
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DYNEGY MORRO BAY, LLC.
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MORRO BAY, CA 93442

	FACILITY I.D.	BEGINNING YEAR/MO/DAY	ENDING YEAR/MO/DAY	ST. CODE	NPDES PERMIT #
Q2	3 402003002	09/01/01	09/12/31	06	CA0003743

STATION	DISCH 001						DISCH 001			DISCH 001			DISCH 001			DISCH 001						DISCH 001		
ANALYSIS	DISS OXYGEN						COPPER			NICKEL			ZINC			AMMONIA (N)						CHRON TOX		
UNITS	MG/L						MG/L			MG/L			MG/L			MG/L						TUc		
SMPL TYPE	GRAB						GRAB			GRAB			GRAB			GRAB						GRAB		
FREQ	QUARTERLY						ANNUALLY			ANNUALLY			ANNUALLY			ANNUALLY						ANNUALLY		
	AVG	HI	LO				AVG	HI	LO	AVG	HI	LO	AVG	HI	LO	AVG	HI	LO				AVG	HI	LO
JAN																								
FEB																								
MAR	8.5	8.5	8.5																					
APR																								
MAY																								
JUN	8.9	8.9	8.9																					
JUL																								
AUG																								
SEP	10.6	10.6	10.6				0.00084	0.00084	0.00084	0.00114	0.00114	0.00114	0.00334	0.00334	0.00334	ND	ND	ND				1.0	1.0	1.0
OCT																								
NOV																								
DEC	9.2	9.2	9.2																					
YEARLY	9.3	10.6	8.5				0.00084	0.00084	0.00084	0.00114	0.00114	0.00114	0.00334	0.00334	0.00334	ND <0.1	ND <0.1	ND <0.1				1.0	1.0	1.0
TIMES EXCEEDED							6-M MED 0.01=0			6-M MED 0.06=0			6-M MED 0.14=0			6-M MED 6.84=0								
TIMES EXCEEDED							D MAX 0.12=0			D MAX 0.23=0			D MAX 0.83=0			D MAX 27.36=0						D MAX 11.4=0		
TIMES EXCEEDED	I MIN <5 = 0						I MAX 0.32=0			I MAX 0.57=0			I MAX 2.20=0			I MAX 68.40=0								

REMARKS: (1) ND = "Not Detected" at or above specified laboratory reporting limit (ex. <0.01).

(2) Copper anzlyed by CRG Environmental Laboratories (ELAP Certified) using EPA method 1640 (ICP-MS-Chelation Preconcentration) to address known matrix interference due to high sodium (Na) levels in sea water.

PRINCIPAL EXECUTIVE OFFICER
STEVEN C. GOSCHKE

SIGNATURE OF AUTHORIZED AGENT	DATE
Steven Goschke	JAN 29 2010

2009 Annual Intake and Outfall Sampling Results

Morro Bay Power Plant

Parameter	Date Sampled	RL (mg/L)	Result		Discharge Limits		
			Intake (mg/L)	Outfall (mg/L)	6-Mnth Av (mg/L)	Daily Max (mg/L)	Inst. Max (mg/L)
Arsenic	28-Sep-09	0.000015	0.0015	0.00166	0.06	0.33	0.88
Cadmium	28-Sep-09	0.00001	0.000074	0.000045	0.01	0.05	0.11
Chromium (total)	28-Sep-09	0.00005	0.000647	0.000566	0.02	0.09	0.23
Copper	28-Sep-09	0.00002	0.0013	0.00084	0.01	0.12	0.32
Lead	28-Sep-09	0.00001	0.000206	0.000085	0.02	0.09	0.23
Mercury	28-Sep-09	0.00002	ND	ND	0.0005	0.0018	0.046
Nickel	28-Sep-09	0.00001	0.000941	0.001144	0.06	0.23	0.57
Selenium	28-Sep-09	0.000015	ND	ND	0.17	0.68	1.71
Silver	28-Sep-09	0.00004	0.00002	ND	0.0063	0.0303	0.0781
Zinc	28-Sep-09	0.00001	0.004943	0.003343	0.14	0.83	2.2
Ammonia	28-Sep-09	0.1	ND	ND	6.84	27.36	68.4
PCB's	28-Sep-09	0.0005	ND	ND			
Chronic Toxicity	28-Sep-09		1.0 TUc	1.0 TUc	- -	11.4	- -

Notes: Metals analyzed by CRG Marine Laboratories using EPA 1640.

PART 2
ATTACHMENT A

DISCHARGE 001E
ANALYTICAL RESULTS
SUMMARY

DISCHARGES FROM WASTE SURFACE IMPOUNDMENT

(DISCHARGE 001E)

Surface Impoundment Discharge Summary (OO1E)
Morro Bay Power Plant

Date of Discharge:	March 23, 2009
Impoundment:	West Impoundment
Volume Discharged:	1254
Sample ID:	MB 7081-W-SIP Collected: March 17, 2009 8:15

Parameter	Result (mg/L)	DLR (mg/L)	Analytical Method
Oil & Grease	ND	5	EPA 1664-A
Suspended Solids	20	5	SM 2540-D
pH	N/A	±0.1 pH Units	SM 4500-H B
Antimony	ND	0.008	EPA 6020
Arsenic	ND	0.008	EPA 6020
Barium	0.011	0.008	EPA 6020
Beryllium	ND	0.008	EPA 6020
Cadmium	ND	0.008	EPA 6020
Chromium	ND	0.02	EPA 6020
Cobalt	ND	0.008	EPA 6020
Copper	0.019	0.008	EPA 6020
Lead	ND	0.008	EPA 6020
Mercury	ND	0.0005	EPA 7470
Molybdenum	ND	0.008	EPA 6020
Nickel	0.015	0.008	EPA 6020
Selenium	ND	0.02	EPA 6020
Silver	ND	0.008	EPA 6020
Thallium	ND	0.008	EPA 6020
Vanadium	0.009	0.008	EPA 6020
Zinc	ND	0.08	EPA 6020

Notes:

(1) ND = Not Detected at or above the Detection Limit for Reporting (DLR)

(2) DLR = Detection Limit for Reporting

DISCHARGES FROM WASTE SURFACE IMPOUNDMENT

(DISCHARGE 001E)

Surface Impoundment Discharge Summary (OO1E)
Morro Bay Power Plant

Date of Discharge:	February 25, 2009
Impoundment:	West Impoundment
Volume Discharged:	72780
Sample ID:	MB7075-W-SIP Collected: February 18, 2009 08:45

Parameter	Result (mg/L)	DLR (mg/L)	Analytical Method
Oil & Grease	ND	5	EPA 1664-A
Suspended Solids	8	5	SM 2540-D
pH	7.4	±0.1 pH Units	SM 4500-H B
Antimony	ND	0.008	EPA 6020
Arsenic	ND	0.008	EPA 6020
Barium	0.015	0.008	EPA 6020
Beryllium	ND	0.008	EPA 6020
Cadmium	ND	0.008	EPA 6020
Chromium	ND	0.008	EPA 6020
Cobalt	ND	0.008	EPA 6020
Copper	0.012	0.008	EPA 6020
Lead	ND	0.008	EPA 6020
Mercury	ND	0.0005	EPA 7470
Molybdenum	0.011	0.008	EPA 6020
Nickel	ND	0.008	EPA 6020
Selenium	0.018	0.008	EPA 6020
Silver	ND	0.008	EPA 6020
Thallium	ND	0.008	EPA 6020
Vanadium	ND	0.008	EPA 6020
Zinc	ND	0.08	EPA 6020

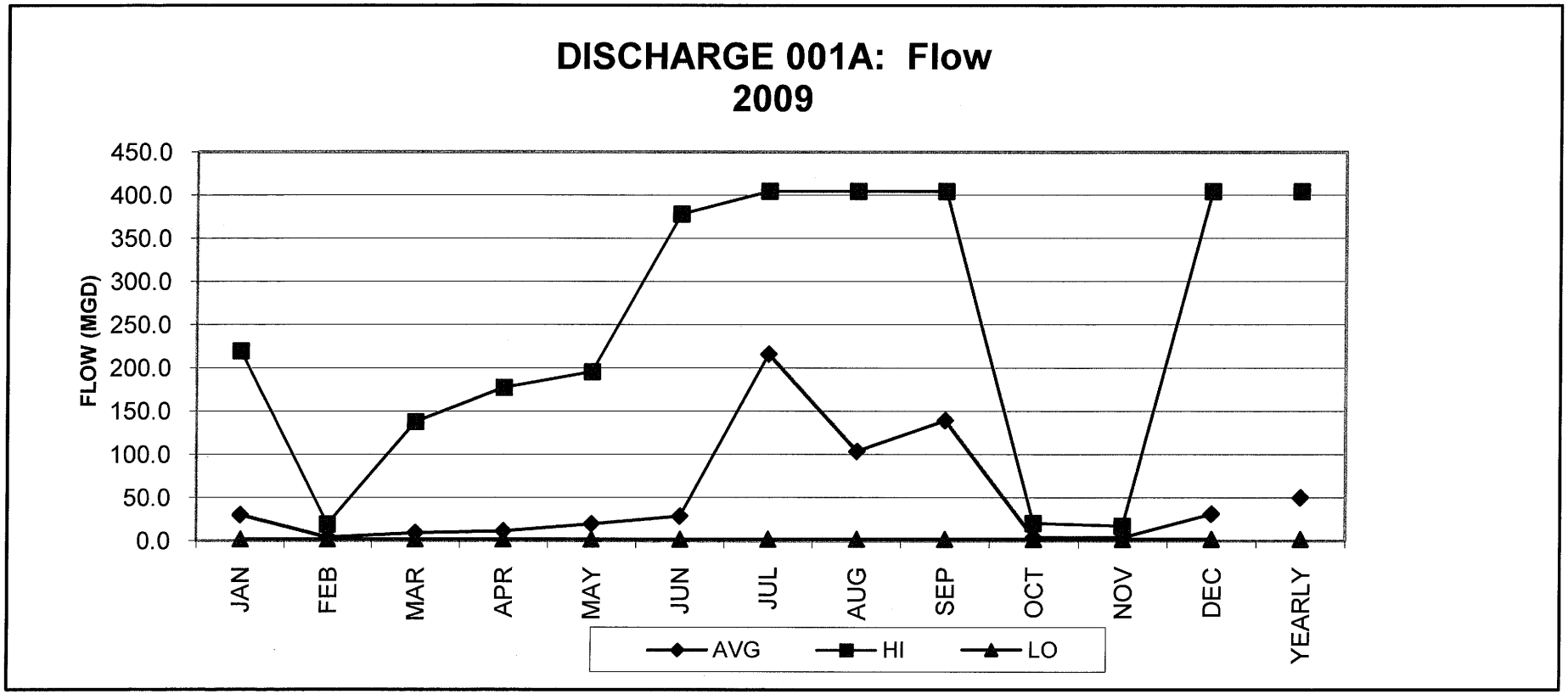
Notes:

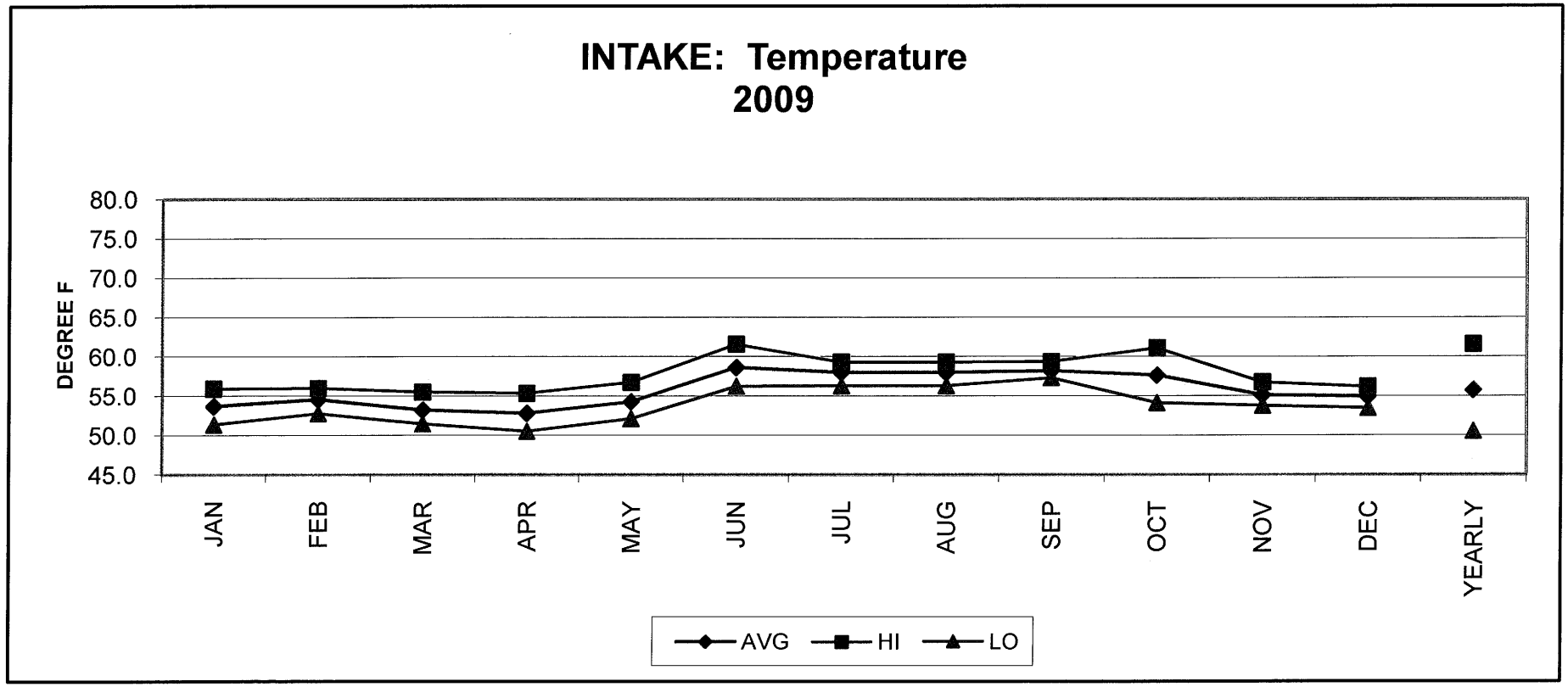
(1) ND = Not Detected at or above the Detection Limit for Reporting (DLR)

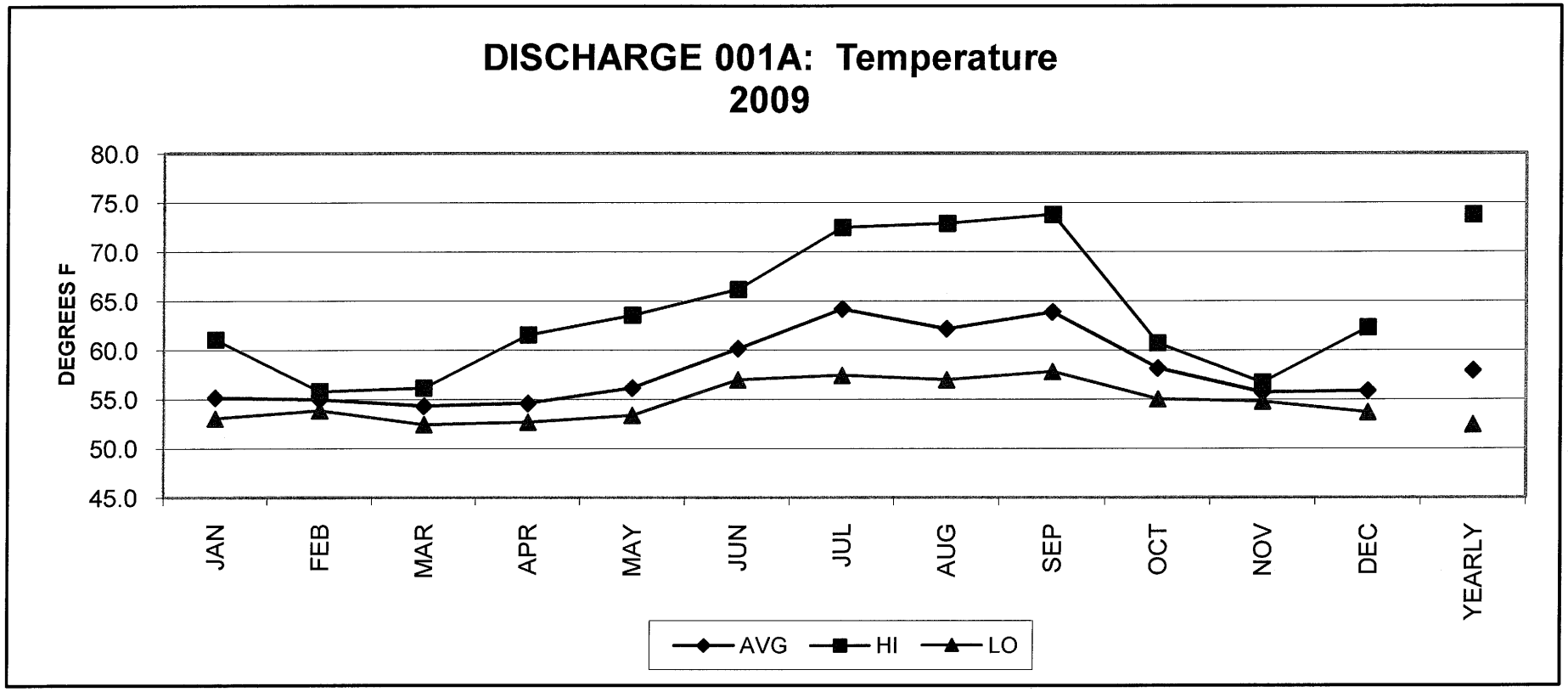
(2) DLR = Detection Limit for Reporting

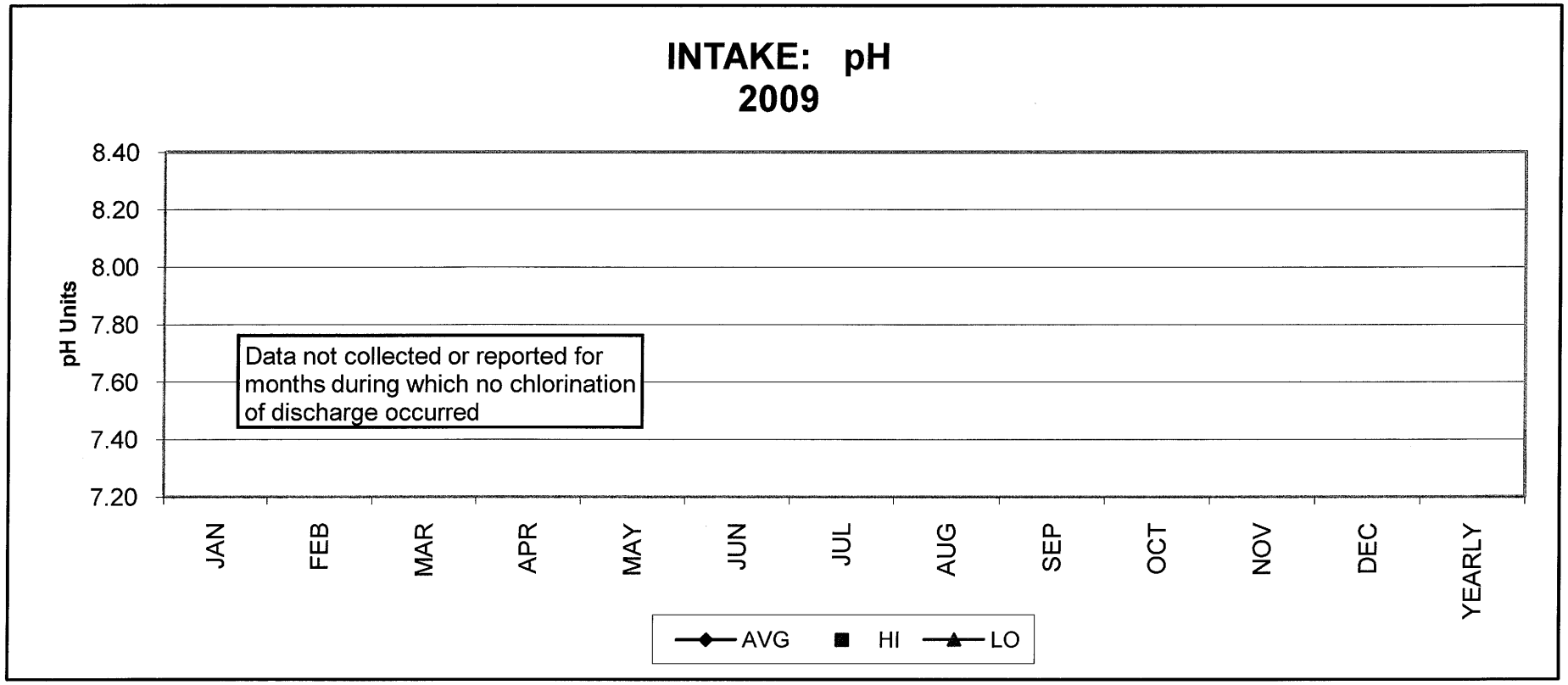
PART 3

2009 DISCHARGE TREND CHARTS

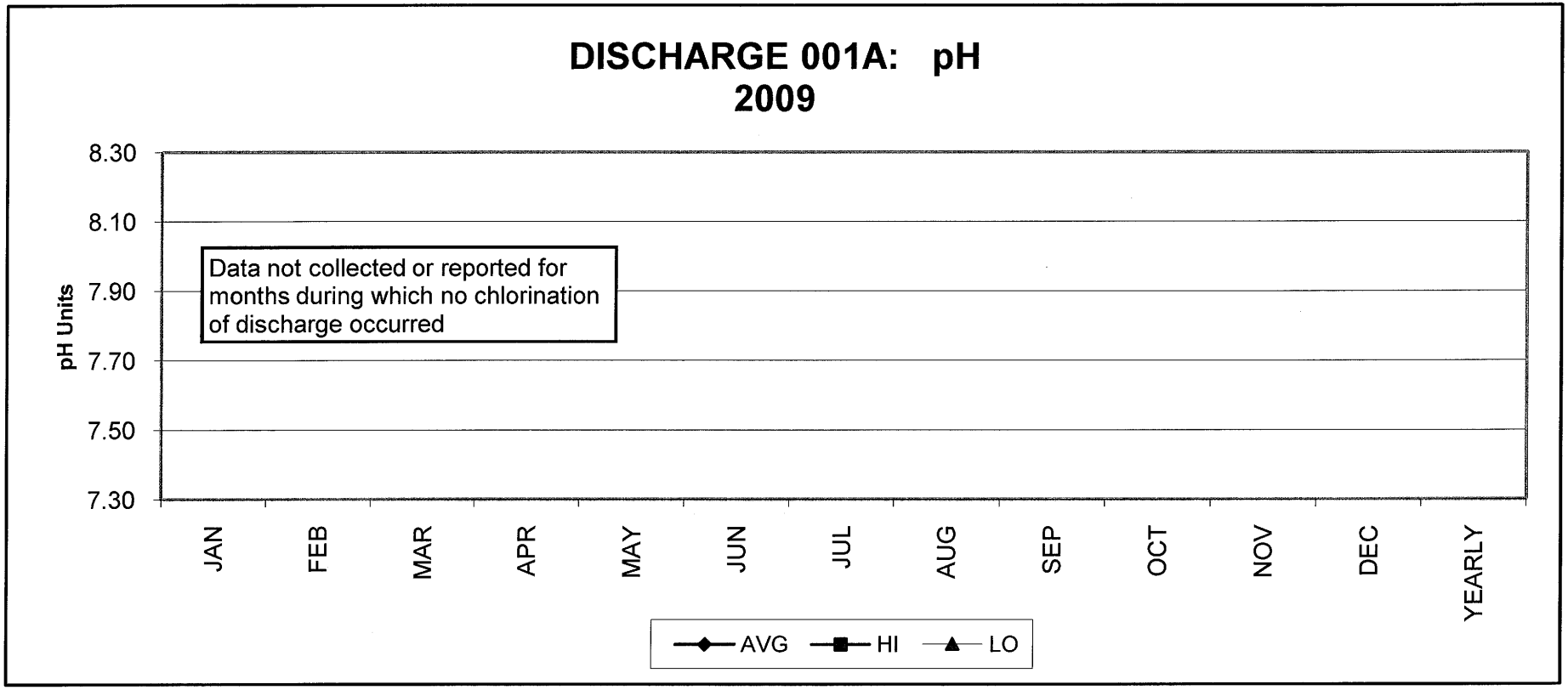

DISCHARGE 001A: Flow
2009
FLOW (MGD)
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO


INTAKE: Temperature
2009
DEGREE F
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

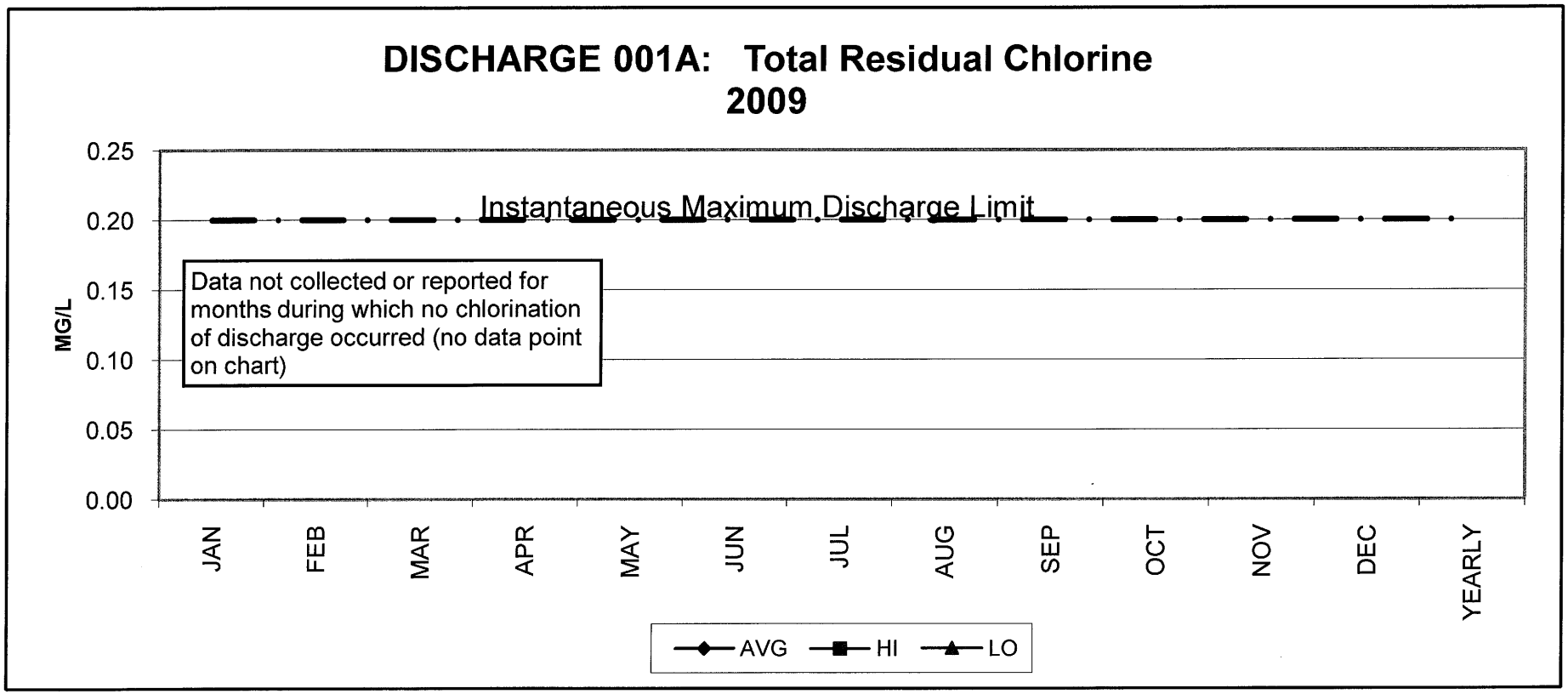

DISCHARGE 001A: Temperature
2009
DEGREES F
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO



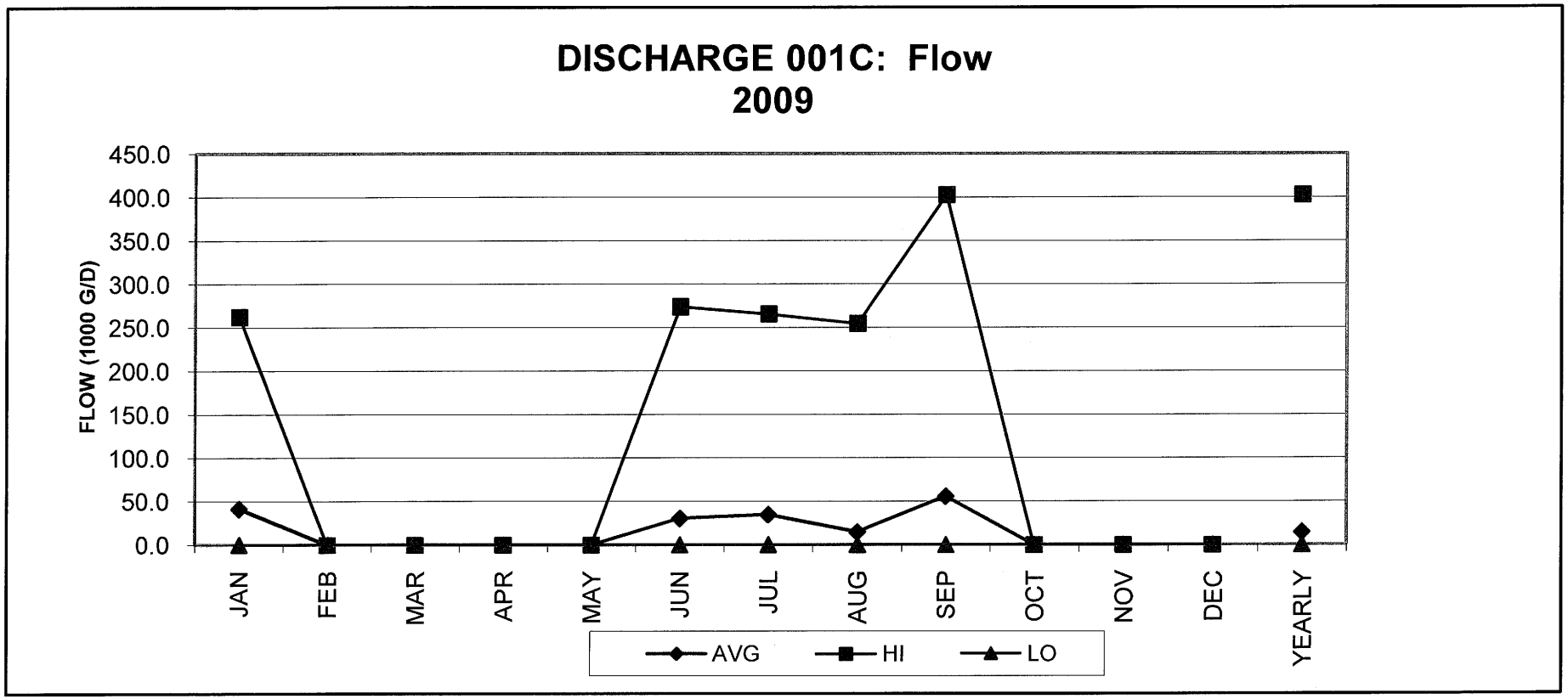
* No chlorination occurred during 2009. Biofouling system out of service.

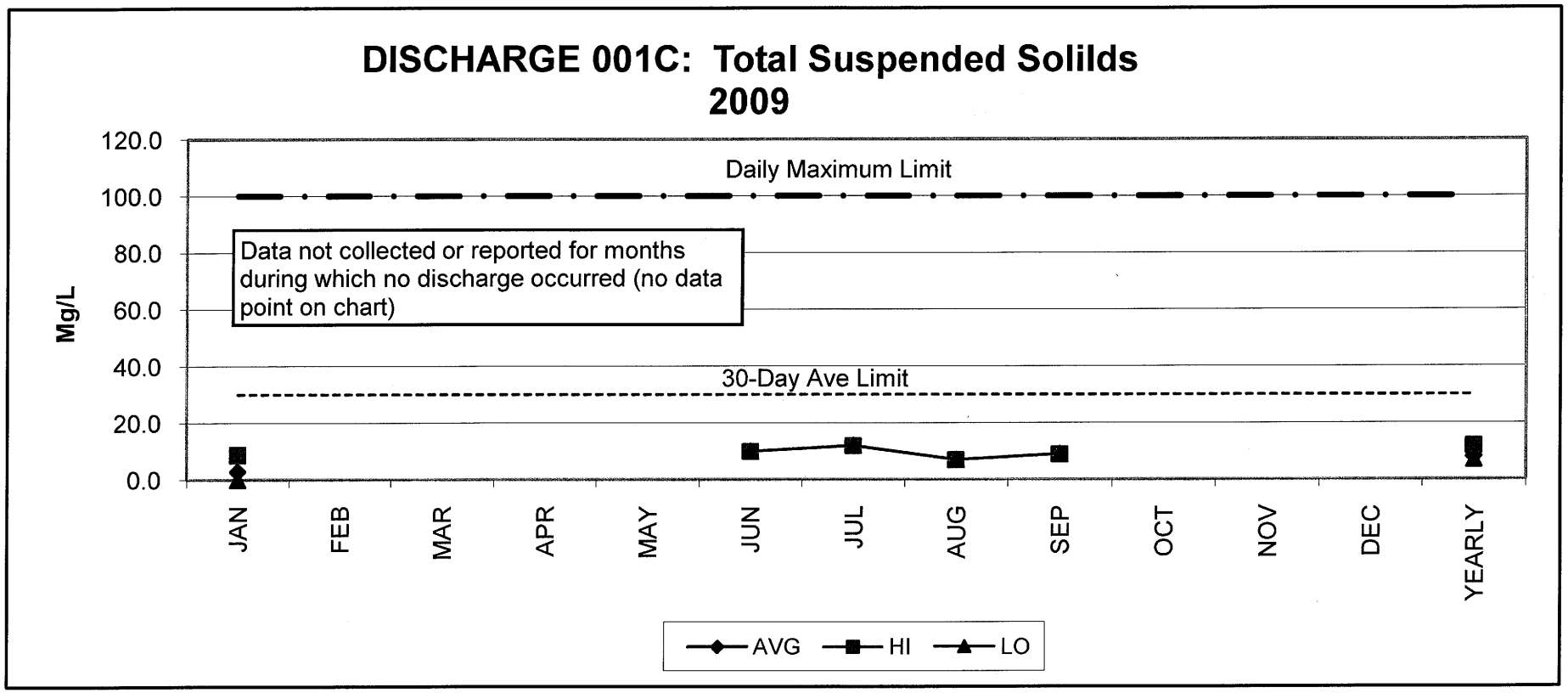


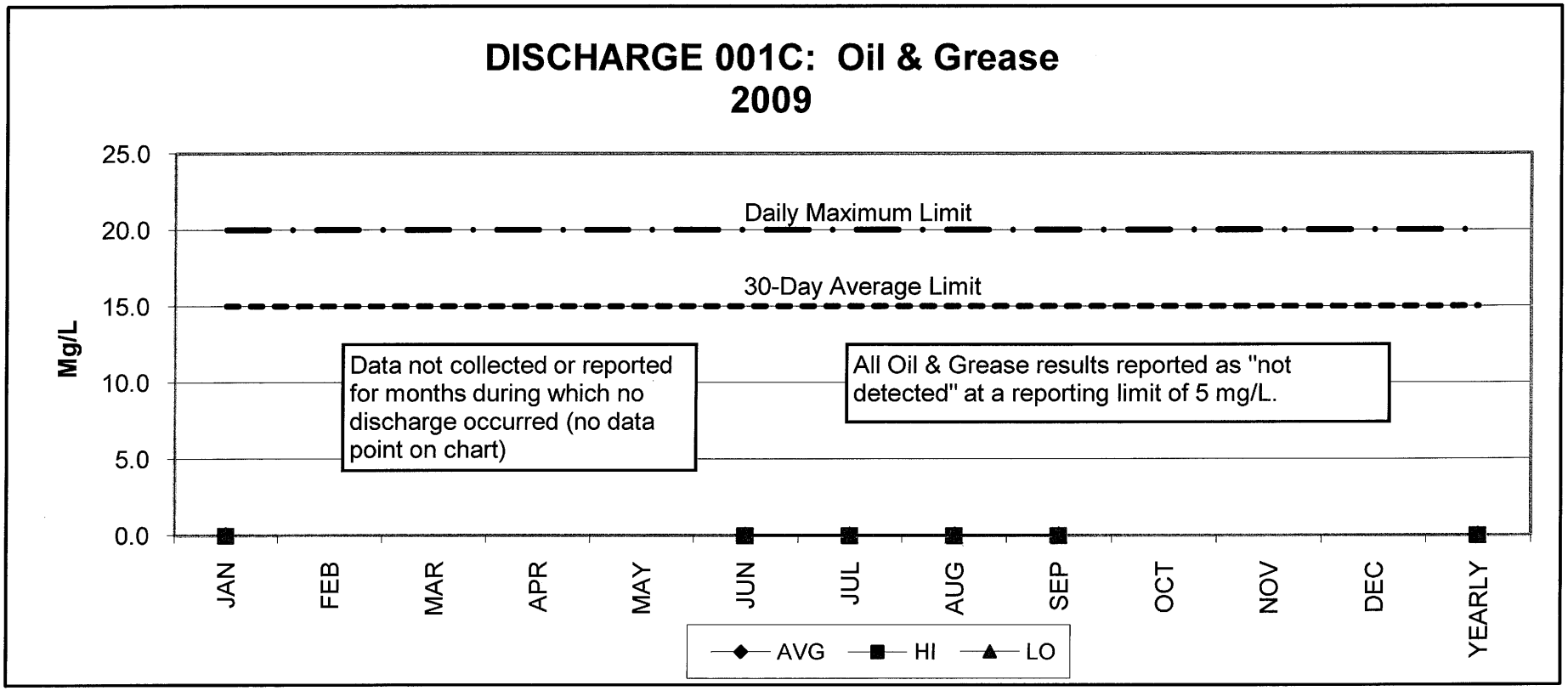
* No chlorination occurred during 2009. Biofouling system out of service.

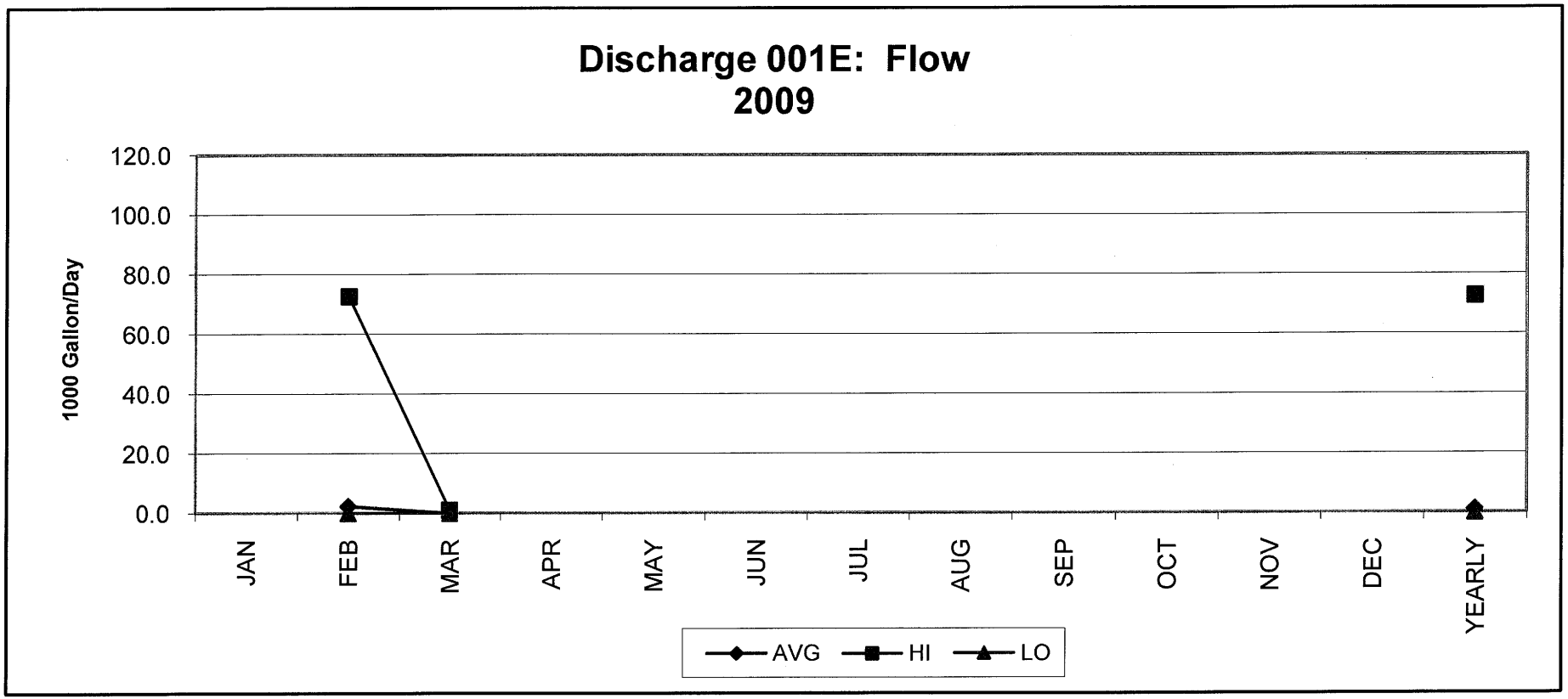


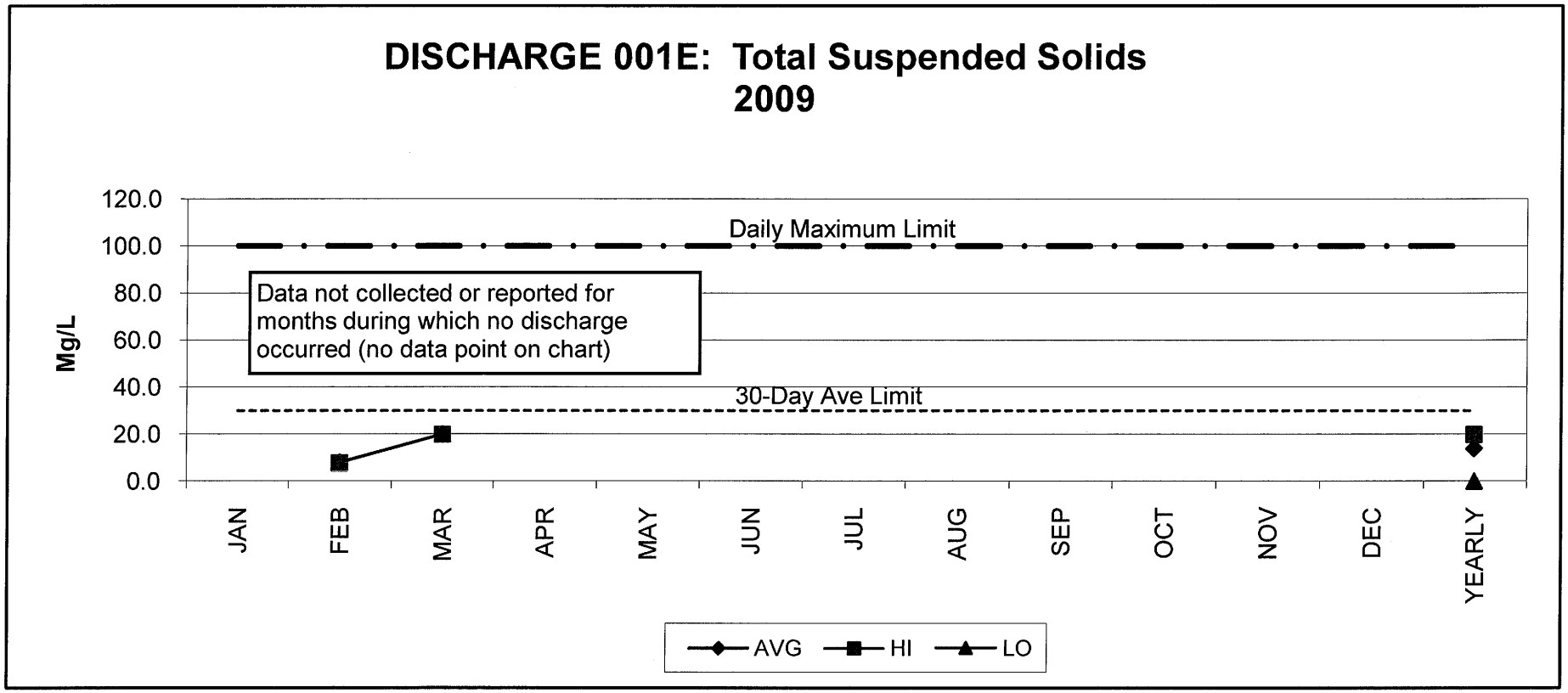
* No chlorination occurred during 2009. Biofouling system out of service.


DISCHARGE 001C: Flow
2009
FLOW (1000 G/D)
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

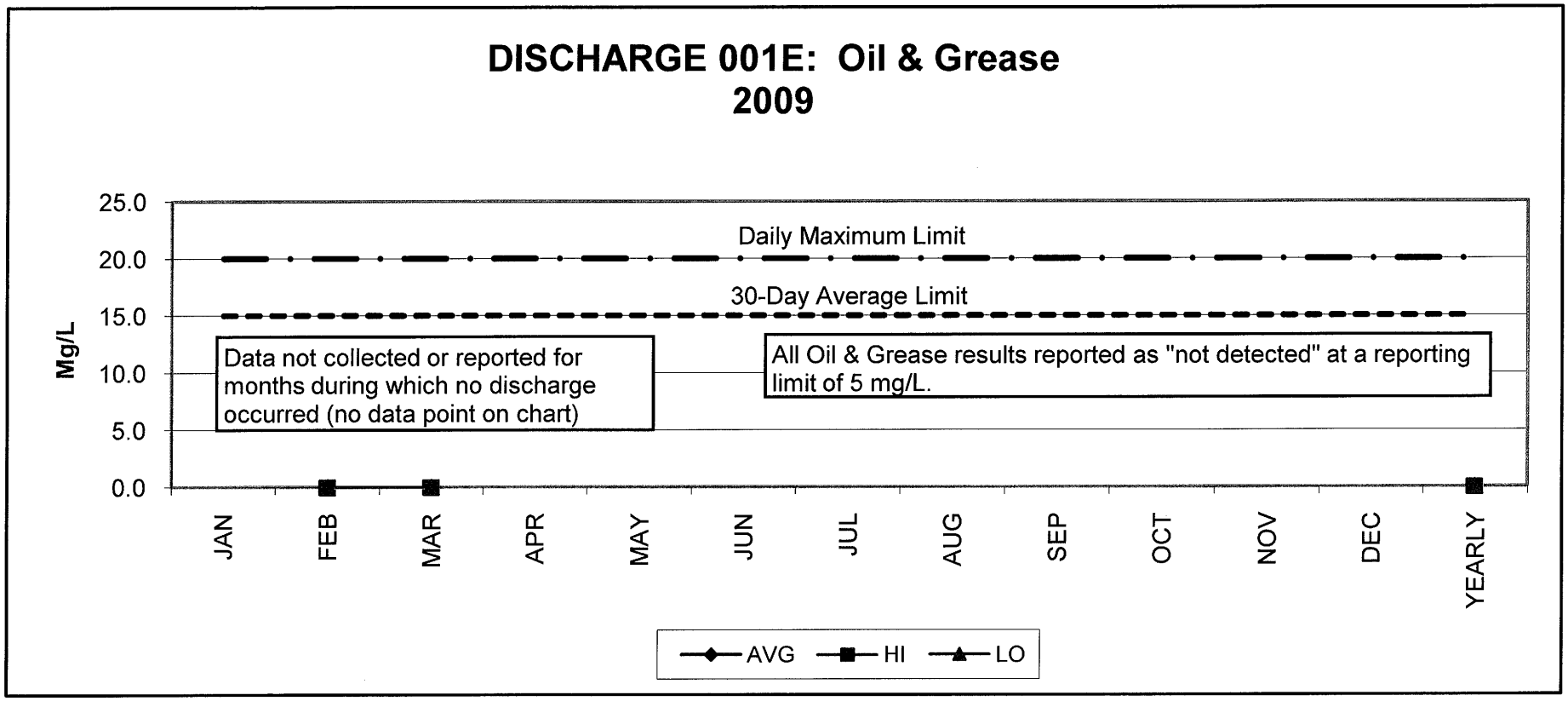

DISCHARGE 001C: Total Suspended Solilds
2009
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Mg/L
Daily Maximum Limit
Data not collected or reported for months during which no discharge occurred (no data point on chart)
30-Day Ave Limit
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

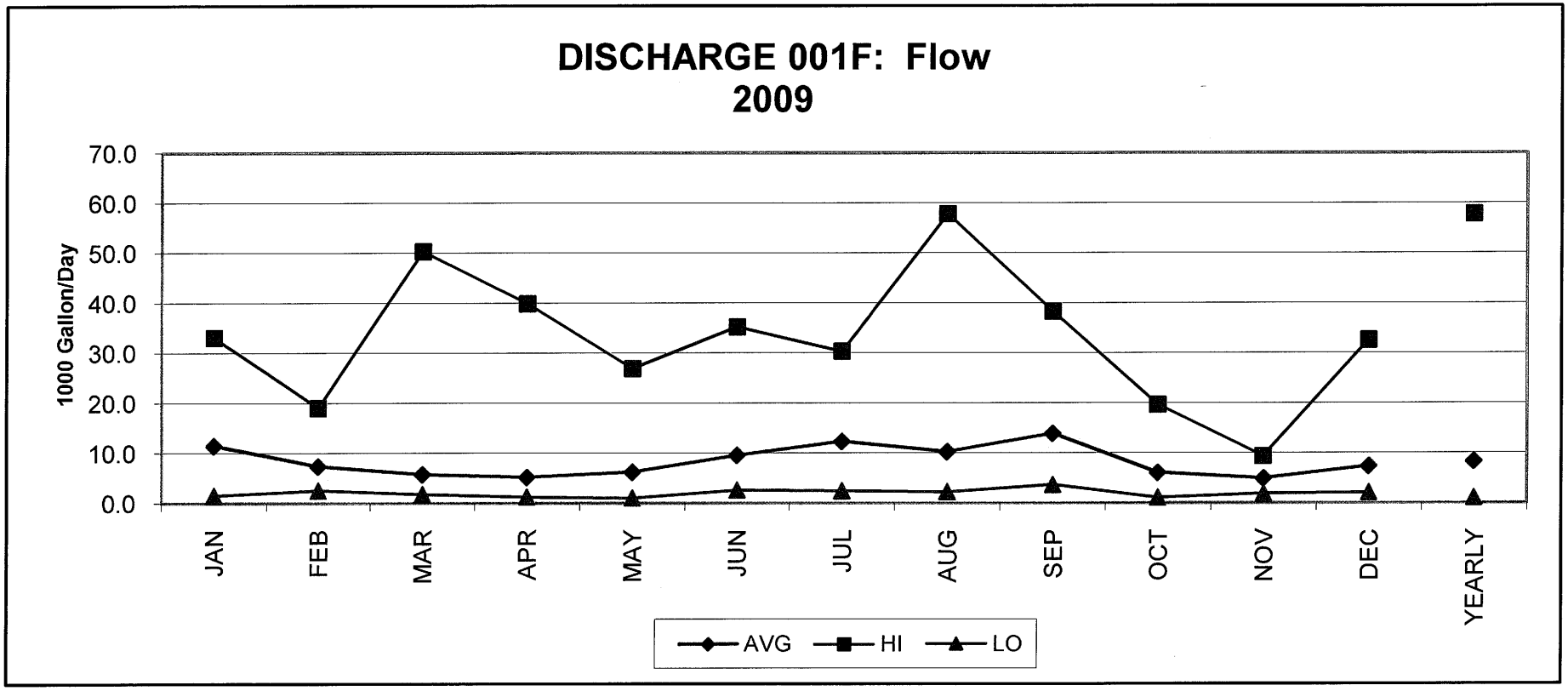

DISCHARGE 001C: Oil & Grease
2009
Mg/L
25.0
20.0
15.0
10.0
5.0
0.0
Daily Maximum Limit
30-Day Average Limit
Data not collected or reported for months during which no discharge occurred (no data point on chart)
All Oil & Grease results reported as "not detected" at a reporting limit of 5 mg/L.
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

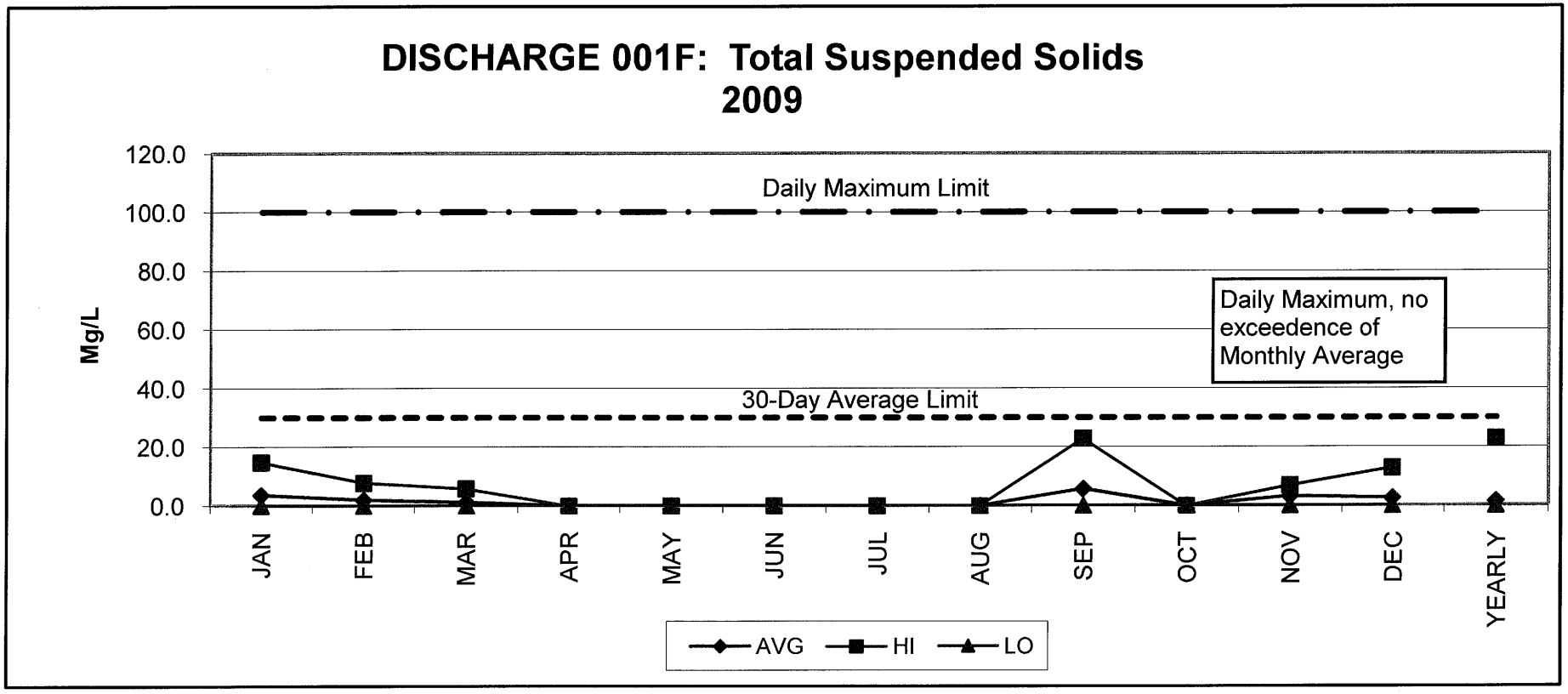

Discharge 001E: Flow
2009
1000 Gallon/Day
120.0
100.0
80.0
60.0
40.0
20.0
0.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

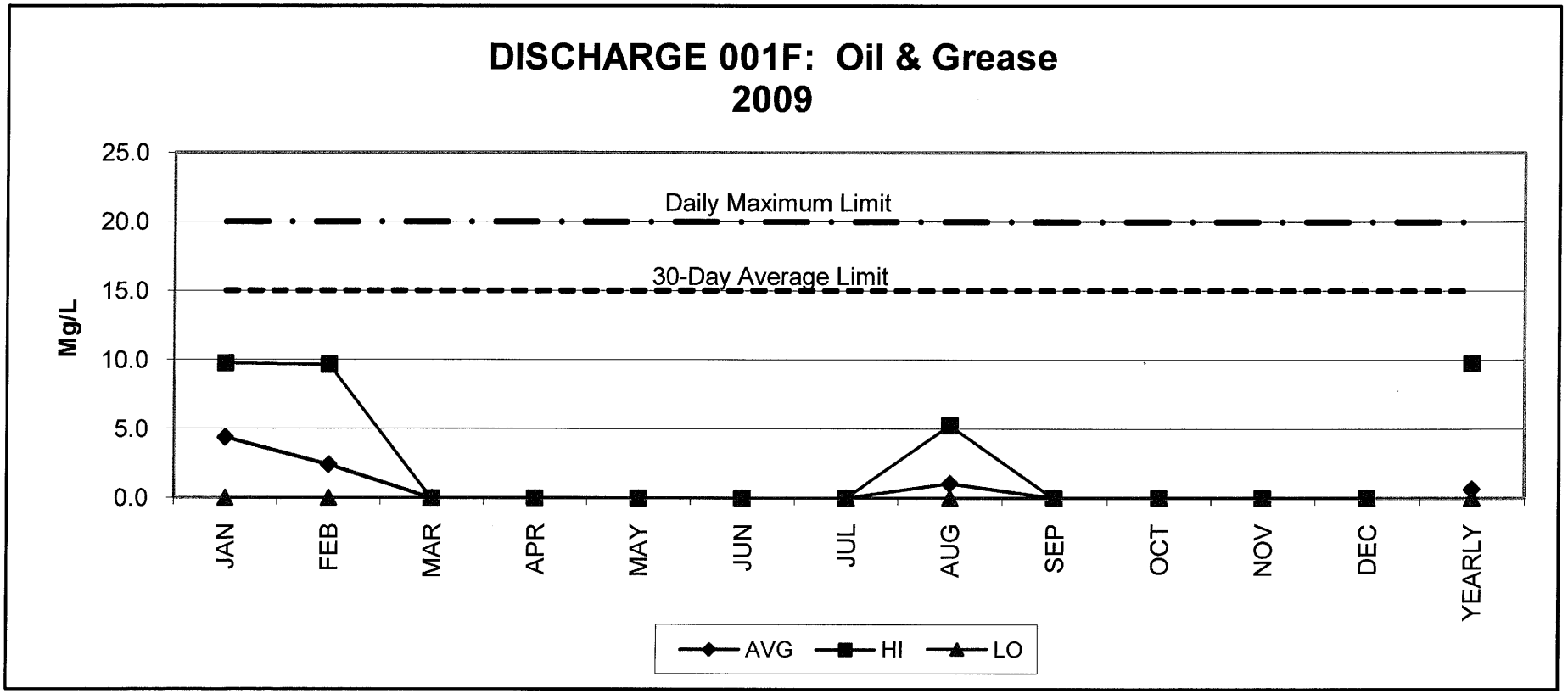

DISCHARGE 001E: Total Suspended Solids
2009
Mg/L
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Daily Maximum Limit
Data not collected or reported for months during which no discharge occurred (no data point on chart)
30-Day Ave Limit
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

DISCHARGE 001E: Oil & Grease
2009




DISCHARGE 001F: Flow
2009
1000 Gallon/Day
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO


DISCHARGE 001F: Total Suspended Solids
2009
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Mg/L
Daily Maximum Limit
30-Day Average Limit
Daily Maximum, no exceedence of Monthly Average
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO


DISCHARGE 001F: Oil & Grease
2009
Mg/L
25.0
20.0
15.0
10.0
5.0
0.0
Daily Maximum Limit
30-Day Average Limit
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
YEARLY
AVG
HI
LO

PART 4

CERTIFICATION FOR OCEAN PLAN CONSTITUENT MONITORING

Ocean Plan Constituent Monitoring

The Monitoring and Reporting provisions for Morro Bay Power Plant's NPDES permit require annual sampling for a long list of pesticides and other organic pollutants. The permit also states:

"In lieu of sampling for these constituents, the Discharger may submit certification that such constituents are not added to the waste stream, and that no change has occurred from activities that could cause such constituents to be present in the waste stream. Such election does not relieve the Discharger from the requirement to meet the limitations set forth in the permit."

A list of the required constituents from the permit is shown in the following two pages. Constituents for which this provision applies are marked with the superscript 6.

Morro Bay certifies that none of these constituents are added to the waste stream, and that no change has occurred from activities that could cause such constituents to be present in the waste stream.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

MONITORING AND REPORTING PROGRAM NO 95-28

REVISED OCTOBER 15, 2004

FOR
DUKE ENERGY MORRO BAY, LLC
MORRO BAY POWER PLANT
SAN LUIS OBISPO COUNTY

Influent and Effluent Monitoring

Representative samples of each waste stream discharged to the Pacific Ocean shall be collected and analyzed in accordance with the following schedule:

Constituent	Units	Discharge	Sample Type	Frequency
Flow	MGD	001A	Pump Operating Data	Daily
Flow	gpd	001B, C, D, E and F	Estimated	Daily when discharging
Temperature	°F	001 & intakes	Grab	Daily & during heat treatment
Total Residual Chlorine	mg/l	001	Grab	Weekly when chlorinating
pH	--	001 & intakes[1]	Grab	Once during discharge of chemical cleaning & weekly when chlorinating
Dissolved Oxygen	mg/l	001	Grab	Quarterly
Suspended Solids[2]	mg/l	001C, E & F	Grab[3]	Weekly when discharging
Oil and Grease	mg/l	001C, E & F	Grab[3]	" "
Copper	mg/l	001E	Grab[3]	Once during each discharge of chemical metal cleaning waste
Iron	mg/l	001E	Grab[3]	" "
Copper	mg/l	001	Grab	Annually
Nickel	mg/l	001	Grab	" "
Zinc	mg/l	001	Grab	" "
Ammonia (as N)	mg/l	001	Grab	" "
Chronic Toxicity[4]	TUc	001	Grab	" "
Arsenic	mg/l	001	Grab	" "
Cadmium	mg/l	001	Grab	" "
Chromium (III)[5]	mg/l	001	Grab	" "
Chromium (Hex)[5]	mg/l	001	Grab	" "
Lead	mg/l	001	Grab	" "
Mercury	mg/l	001	Grab	" "
Selenium	mg/l	001	Grab	" "
Silver	mg/l	001	Grab	" "
[6]Phenolic Compounds (non-chlorinated)	mg/l	001	Grab	" "
[6]Chlorinated Phenolics	mg/l	001	Grab	" "
[6]Radioactivity	pci/l	001	Grab	" "
[6]Acrolein	mg/l	001	Grab	" "
[6]Antimony	mg/l	001	Grab	" "
[6]Bis(2-chloroethoxy) Methane	mg/l	001	Grab	" "

[6]Bis(2-chloroisopropyl) Ether	mg/l	001	Grab	"	"
[6]Chlorobenzene	mg/l	001	Grab	"	"
[6]Di-n-butyl Phthalate	mg/l	001	Grab	"	"
[6]Dichlorobenzenes	mg/l	001	Grab	"	"
[6]1,1-dichloroethylene	mg/l	001	Grab	"	"
[6]Diethyl Phthalate	mg/l	001	Grab	"	"
[6]Dimethyl Phthalate	mg/l	001	Grab	"	"
[6]4,6-dinitro-2-methylphenol	mg/l	001	Grab	"	"
[6]2,4-dinitrophenol	mg/l	001	Grab	"	"
[6]Ethylbenzene	mg/l	001	Grab	"	"
[6]Fluoranthene	mg/l	001	Grab	"	"
[6]Hexachlorocyclopentadiene	mg/l	001	Grab	"	"
[6]Isophorone	g/l	001	Grab	"	"
[6]Nitrobenzene	mg/l	001	Grab	"	"
[6]Thallium	mg/l	001	Grab	"	"
[6]Toluene	g/l	001	Grab	"	"
[6]1,1,2,2-tetrachloroethane	mg/l	001	Grab	"	"
[6]Tributyltin	µg/l	001	Grab	"	"
[6]1,1,1-trichloroethane	g/l	001	Grab	"	"
[6]1,1,2-trichloroethane	mg/l	001	Grab	"	"
[6]Acrylonitrile	µg/l	001	Grab	"	"
[6]Benzene	mg/l	001	Grab	"	"
[6]Benzidine	ng/l	001	Grab	"	"
[6]Beryllium	µg/l	001	Grab	"	"
[6]Bis(2-chloroethyl) Ether	µg/l	001	Grab	"	"
[6]Bis(2-ethylhexyl) Phthalate	mg/l	001	Grab	"	"
[6]Carbon tetrachloride	mg/l	001	Grab	"	"
[6]1,4-dichlorbenzene	mg/l	001	Grab	"	"
[6]3,3-dichlorobenzidine	µg/l	001	Grab	"	"
[6]1,2-dichloroethane	mg/l	001	Grab	"	"
[6]dichloromethane	mg/l	001	Grab	"	"
[6]1,3-dichloropropene	mg/l	001	Grab	"	"
[6]2,4-dinitrotoluene	mg/l	001	Grab	"	"
[6]1,2-diphenylhydrazine	µg/l	001	Grab	"	"
[6]Halomethanes	mg/l	001	Grab	"	"
[6]Hexachlorobenzene	ng/l	001	Grab	"	"
[6]Hexachlorobutadiene	mg/l	001	Grab	"	"
[6]Hexachloroethane	mg/l	001	Grab	"	"
[6]N-nitrosodimethylamine	mg/l	001	Grab	"	"
[6]N-nitrosodiphenylamine	mg/l	001	Grab	"	"
[6]PAHs	µg/l	001	Grab	"	"
PCBs	ng/l	001	Grab	"	"
[6]TCDD equivalents	µg/l	001	Grab	"	"
[6]Tetrachloroethylene	mg/l	001	Grab	"	"
[6]Trichloroethylene	mg/l	001	Grab	"	"
[6]2,4,6-trichlorophenol	µg/l	001	Grab	"	"
[6]Vinyl Chloride	mg/l	001	Grab	"	"

* See Ocean Plan, Appendix I, Definition of Terms.

[1]Intake samples, when required, shall be coordinated so as to sample the same water mass (intake sampling time plus plant and conduit detention time yields discharge sampling time).