City of
FRESNO

_ Department of Public Utilities

Wastewater Management Division
5607 West Jensen Avenue
Fresno, California 93706-9458
559-621-5100 – FAX 559-498-1700
www.fresno.gov

DPU
WATER COMMUNITY SANITATION SOLID WASTE MANAGEMENT
WASTEWATER MANAGEMENT SEWER MAINTENANCE
Providing Life's Essential Services

February 26, 2008

Stephanie Trotter
State Water Resources Control Board
DWQ- 15th Floor
1001 I Street
Sacramento CA 95814

Dear Ms. Trotter:

SUBJECT: CITY OF FRESNO 2008 ANNUAL PRETREATMENT REPORT

Enclosed please find one copy of the 2008 Annual Pretreatment Report for your review. If you have any questions regarding this report, please do not hesitate to call me at (559) 621-5100.

Sincerely,

Stephen A. Hogg
Assistant Director of Public Utilities, Wastewater

Enclosures

c: Lonnie Wass, California Regional Water Quality Control Board
Linh Tran, U.S. Environmental Protection Agency
Lisa Koehn, Public Utilities Department, City of Clovis
Department of Public Utilities, City of Fresno
Rosa Lau-Staggs, Chief of Environmental Services
Tom Adams, Supervising ECO
Library

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Providing Life's Essential Services

February 26, 2008

Lonnie Wass
California Regional Water Quality Control Board
Central Valley Region
1685 E Street
Fresno, CA 93706

Dear Mr. Wass:

SUBJECT: CITY OF FRESNO 2008 ANNUAL PRETREATMENT REPORT

Enclosed please find one copy of the 2008 Annual Pretreatment Report for your review. If you have any questions regarding this report, please do not hesitate to call me at (559) 621-5100.

Sincerely,

Stephen A. Hogg
Assistant Director of Public Utilities, Wastewater

Enclosures

c: Stephanie Trotter, State Water Resources Control Board, Division of Water Quality
Linh Tran, U.S. Environmental Protection Agency
Lisa Koehn, Public Utilities Department, City of Clovis
Department of Public Utilities, City of Fresno
Rosa Lau-Staggs, Chief of Environmental Services
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February 26, 2008

Linh Tran
Regional Administrator
U.S. Environmental Protection Agency
Regional IX-Attention W-5
75 Hawthorne Street
San Francisco CA 94105

Dear Ms. Tran:

SUBJECT: CITY OF FRESNO 2008 ANNUAL PRETREATMENT REPORT

Enclosed please find one copy of the 2008 Annual Pretreatment Report for your review. If you have any questions regarding this report, please do not hesitate to call me at (559) 621-5100.

Sincerely,

Stephen A. Hogg
Assistant Director of Public Utilities, Wastewater

Enclosures

c: Stephanie Trotter, State Water Resources Control Board, Division of Water Quality
Lonnie Wass, California Regional Water Quality Control Board
Lisa Koehn, Public Utilities Department, City of Clovis
Department of Public Utilities, City of Fresno
Rosa Lau-Staggs, Chief of Environmental Services
Tom Adams, Supervising ECO
Library

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CITY OF FRESNO
WASTEWATER MANAGEMENT DIVISION
PRETREATMENT ANNUAL REPORT
2008

NPDES Permit Holder or Sewer Authority Name:	City of Fresno
Report Date:	February 28, 2009
Period Covered by this Report:	January 1, 2008 to December 31, 2008

Name of Wastewater Treatment Plants	Reporting Program Number
Fresno-Clovis Regional Wastewater Reclamation Facility	5-01-254

Person to contact concerning information contained in this report:

Name:	Rosa Lau-Staggs
Title:	Chief of Wastewater Environmental Services
Mailing Address:	5607 West Jensen Avenue Fresno, CA 93706-9458
Telephone Number:	(559) 621-5100

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete.

SUBMITTED BY:

Rosa Lau-Staggs — Feb 26, 2009

Rosa Lau-Staggs
Chief of Environmental Services

Date

APPROVED BY:

S. A. Hogg — 2-26-09

Stephen A. Hogg
Wastewater Division Manager

Date

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City of FRESNO

Wastewater Management Division

Pretreatment Annual Report 2008

Prepared by:

Chief of Environmental Services
Rosa Lau-Staggs

Supervising Environmental Control Officer
Thomas L. Adams

Environmental Control Officers
Mari Barrett
Raul Campos
Jeff Engelman
Robert Hanford
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Tom Krenz
Janelle Parker

Reclamation Coordinator
Mohammad Moaddab

Support Staff
Wendy Parker

2008 Annual Pretreatment Report

Narrative Summary

Definitions

Results of POTW Sampling & Analysis

Incidents of Upset, Interference or Pass-Through

Compiance & Enforcement Status

Summary of Significant Changes

Annual Pretreatment Budget

Public Participation Activities

Summary of Biosolids Sampling & Management

Effectiveness of the Pretreatment Program

Local Limits Evaluation

Future Changes

Description of Facilities

NARRATIVE SUMMARY

This summary will give a synopsis of the 2008 Pretreatment Annual Report. The sections following this summary will be presented in the same order as they are covered below.

Definitions
This section will serve as a key to the usage of words or phrases within the Pretreatment Annual Report.

Results of Publicly Owned Treatment Works (POTW) Sampling and Analysis
Annual Inplant Pretreatment Sampling was performed for the influent, final effluent and biosolids; the samples were analyzed for heavy metals, cyanide, total toxic organics and oil and grease. Influent, effluent, and biosolids samples were collected monthly, quarterly, or semiannually, and analyzed for general minerals, heavy metals and/or organics. This section discusses the sampling protocol and summarizes the results.

Upsets, Interferences, or Pass-Through
When reported to Environmental Services Section (ESS) staff, unusual influent conditions are investigated as thoroughly as possible, considering the distance the majority of the industrial discharges are from the treatment facility. In 2008, there were ten (10) incidents which resulted in violations of the Waste Discharge Requirements monthly EC limit.

Compliance and Enforcement Status
Chapter 5 details the monitoring, inspections, enforcement actions and compliance status of the Significant Industrial Users (SIU). Each SIU is listed alphabetically. The report is divided into three sections, one detailing monitoring and inspection activities, one detailing compliance and/or enforcement action taken against the SIU by the City of Fresno to return the violating industry into compliance, and one containing a compliance status summary of each SIU.

Summary of Significant Changes
This section lists the events which have occurred during 2008 which effect the administration of the Pretreatment Program.

Annual Pretreatment Budget
Chapter 7 summarizes the amount of money allocated for the Pretreatment Program, the source of revenue to fund the Program and the costs incurred during 2008.

Public Participation Activities
This section includes information about activities in 2008 to inform the public about wastewater treatment and reclamation. The Wastewater Management Division participated in various public events and school presentations to increase awareness in wastewater-related issues. As part of the public participation requirement, the Environmental Services Section of the Wastewater Management Division annually publishes a list of all Significant Industrial Users (SIUs) that are in Significant Noncompliance (SNC). There were no SIUs in SNC for calendar year 2007 which would have required publication in 2008. There was one (1) SIU in SNC during 2008. That SIU will be published in 2009.

Summary of Sludge Sampling and Management
In accordance with 40 CFR 503, the biosolids monitoring program is summarized annually. This section recreates that report.

Effectiveness of the Pretreatment Program in 2008

The effectiveness of the Pretreatment Program is evaluated by using any reported incidents of interference or pass-through violations as benchmarks. Also, the general trend in metals is noted for 1991 through 2008 and also compared to 1981 levels as a base reference.

Local Limits Evaluation

In order to effectively protect the POTW from interference or pass-through violations and to improve opportunities to recycle and reclaim wastewater and biosolids, technically-based local limits need to be evaluated on a regular basis. Chapter 11 reviews the data for the period of 2005 to 2007 and recalculates local limits based on this summary.

Future Changes

This section describes the planned refinements and changes the City of Fresno intends to make in the Pretreatment Program in 2009.

Description of Facilities

This final section provides a history of the existing facilities and collection system. It includes information on the origin of the facilities and continues through completion of all phases of the expansion project.

DEFINITIONS
2008

COMPLIANCE CRITERIA

Technical Review Criteria (TRC) Violation

Thirty-three percent (33%) or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC. TRC violations are calculated on the basis of rolling quarters. Determinations are made at the end of each quarter based on the data of the previous six months. In general, the TRC for BOD, TSS, fats, oil, and grease is 1.4 (currently, only oil and grease is applicable); the TRC for all other pollutants, except pH, is 1.2.

The following is a list of the Technical Review Criteria limits:

TRC Limits (mg/L)			
Parameter	Local	40 CFR 413	40 CFR 433.17(a)
Oil and grease	980	N/A	N/A
Cadmium	0.14	1.44	0.13
Chromium, Total	8.0	8.4	3.32
Copper	3.0	5.4	4.06
Lead	1.4	0.72	0.83
Nickel	1.6	4.92	4.78
Silver	1.3	N/A	0.52
Zinc	2.5	5.04	3.13
Total Metals	N/A	12.6	N/A
Cyanide	0.9	2.28	1.44
Total Toxic Organics (TTO)	N/A	2.56	2.56

Chronic Violation

Sixty-six percent (66%) or more of all of the measurements taken during a six-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter. Any discharge with a pH outside the local limits of 6.0-12.4 shall be monitored for chronic violation criteria. As with TRC violations, chronic violation criteria are also calculated on the basis of rolling quarters.

COMPLIANCE SCHEDULE

A plan of the steps needed to achieve compliance and the dates by which each increment will be completed. The schedule is submitted by the industry and reports are required 14 days after

each step has been accomplished. If delays have occurred an extension must be requested and approved by the WMD. Also included in the schedule is the date by which compliance will be achieved.

Compliance schedules may be reviewed by the ERC to assure that they are technologically sound and that time frames are reasonable.

COMPLIANCE STATUS

Consistently Achieving Compliance

This is a compliance status in which there is 100% compliance during a given quarter.

Inconsistently Achieving Compliance

This is a compliance status in which an Industrial User (IU) was not in compliance 100% of the time during a given quarter but does not meet the criteria of Significant Noncompliance.

Significant Noncompliance

This is a compliance status in which the IU meets any of the following criteria:

1) Violations of Wastewater Discharge Limits
    i) Chronic Violations
    ii) Technical Review Criteria (TRC) Violations
    iii) Any other violation or violations of an effluent limit (average or daily maximum) that the Control Authority believes has caused, alone or in combination with other discharges, interference or pass through, or endangered the health of the POTW personnel or the general public.
    iv) Any discharge of a pollutant that has caused imminent endangerment to human health/welfare or to the environment and resulted in the POTW's exercise of its emergency authority to halt or prevent such a discharge.
2) Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a local order for starting construction, completing construction, or attaining final compliance.
3) Failure to provide reports within 45 days from the due date.
4) Failure to accurately report noncompliance.
5) Any other violation or group of violations that the Control Authority considers to be significant.

Those IUs meeting these criteria shall be published in the local newspaper in accordance with 40 CFR 403.8(f)(2)(vii).

DISCHARGE CATEGORY

Class I Discharger

An industrial or commercial user requiring an individual permit. Individual permits will be issued to industries meeting the criteria of a Significant Industrial User. A Significant Industrial User is defined as follows:

1) All categorical industrial users; or
2) Any non-categorical industrial user that:
    i) Discharges 25,000 GPD or more of process wastewater
    ii) Contributes a process wastestream which makes up 5% or more of the average dry weather hydraulic or organic (BOD, SS, etc.) capacity of the treatment plant, or
    iii) Has a reasonable potential, in the opinion of the Control Authority, to adversely affect the POTW treatment plant

Utilizing the above criteria, industrial users in this class are broken down into the following subclasses:

a) Industries that are subject to National Categorical Pretreatment Standards.
b) Non-categorical industries having an effluent discharge greater than or equal to 25,000 GPD, but less than 50,000 GPD.
c) Non-categorical industries having an effluent discharge greater than or equal to 50,000 GPD, but less than 100,000 GPD
d) Non-categorical industries having an effluent discharge greater than or equal to 100,000 GPD, but less than 500,000 GPD.
e) Non-categorical industries having an effluent greater than or equal to 500,000 GPD.
f) Non-categorical industries having an effluent less than 25,000 GPD that contains priority pollutants in a concentration that may have a potential impact on the collection system or the POTW.

Class II Discharger

Industries who discharge process wastewater to the public sewer in amounts, on a routine basis, that have little or no singular impact on the wastewater collection system, wastewater treatment plant, the quality of sludge or the quality of the effluent. Industries in this class have an effluent discharge less than 25,000 GPD, BOD concentration greater than 265 mg/L and/or suspended solids greater than 300 mg/L, and do not have a well characterized waste stream. Routine sampling and analysis of their wastewater will be required for revenue determination purposes. Class II permits may be issued for periods greater than one year but not longer than five years. Industrial users in this class are broken down into the following subclasses:

a) Non-significant industries having an effluent discharge less than 10,000 GPD.
b) Non-significant industries having an effluent discharge between 10,000 GPD and 25,000 GPD.

Class III Discharger

Commercial users having a potential impact on the POTW. These industries may require some type of pretreatment, but scheduled monitoring is not required. These industries may be required to install a grease interceptor or other pretreatment system. Because of the nature of their business activity and a well-characterized waste stream, routine sampling will not be required. Class III permits may be issued for periods of up to five years.

Class IV Discharger

Those users requiring special permits for one time discharges (batch discharges) of wastewater into the collection system or for discharging wastewater for a specific short-term period of time (interim discharge). Sampling and analysis of their wastewater is required prior to approving and issuing a permit. Class IV permits will be issued for either specified volumes or specified time periods.

Class V Discharger

Industrial or commercial users having no process wastewater discharge, but may have product or hazardous materials stored on site, which may require spill prevention measures. Permits are not required for Class V dischargers.

Class VI Dischargers

This class consists of residential users. No permit is required.

ENFORCEMENT

Warning Notice

An enforcement document that is issued to an IU that violates local or federal limits if all of the following conditions are met:

1) The violation does not exceed the TRC values of 1.4 for oil and grease or 1.2 for all other parameters (excluding pH).
2) The violation for pH is not less than 5.0 or greater than 12.4.
3) The IU does not show a pattern of recurring violations. The existence of a pattern shall be determined by the Control Authority.
4) The IU shows no seasonal violation pattern.
5) The IU is not on a current Compliance Schedule for the violated parameter.
6) The IU has had no more than one (1) Warning Notice in a three (3) month period and no more than three (3) in twelve (12) consecutive months.
7) The IU has not had a failure to maintain or operate monitoring or pretreatment equipment for six (6) consecutive months.

Warning Notices may also be issued under certain circumstances at the discretion of the Enforcement Review Committee.

Notice of Violation

An enforcement document that is issued when an IU incurs a violation which does not meet the criteria of a Warning Notice, and the IU is not currently on a compliance schedule.

In responding to a Notice of Violation, the IU must submit a compliance schedule listing measures to be taken along with completion dates to correct the violation. The ECO responsible for the IU will review the Compliance Schedule and determine if it is adequate. If necessary, the Compliance Schedule will be reviewed by the Enforcement Review Committee (ERC). After reviewing the Compliance Schedule, an enforcement inspection will be conducted.

Consent Order

An enforcement document that is issued if the permittee fails to pass the compliance check from a Notice of Violation, or if both of the following conditions are met:

1) The permittee has passed the compliance check but incurs a violation for the same parameter that the NOV was issued for within six (6) consecutive months following completion of the Compliance Schedule.
2) The situation does not meet the criteria for issuing a Warning Notice.

The Consent Order is an agreement that is arrived at following a meeting between the permittee and representatives of the City of Fresno. At that meeting, a Compliance Schedule will be designed with specific dates for acquisition, construction, and installation of pretreatment equipment that will enable the permittee to achieve and maintain compliance for at least six (6) consecutive months. Time frames for the Compliance Schedule will vary with the need of consultants, permits, and construction. Extensions for any of the milestones must be requested in writing and approved by the Control Authority prior to the scheduled milestone.

Refusal to sign the Consent Order, or failure to meet its milestones or reporting requirements without approved extensions, will impose additional Administrative fees and/or escalate directly to a Show Cause Hearing.

After completion of the Consent Order, an enforcement inspection will be conducted.

Successfully staying in compliance for a period of six (6) consecutive months after submitting a compliance completion report, will place the Industry back on the CCM schedule as a compliant Industry.

Compliance Order

An enforcement document issued if the permittee fails to pass the compliance check from a Consent Order, or if all of the following conditions are met:

1) The permittee has completed the Consent Order in good faith, has passed the compliance check but incurs a violation for the same parameter that the Consent Order was issued for within six (6) consecutive months following completion of the Compliance Schedule.
2) The permittee does not qualify to receive a Warning Notice.
3) Future compliance is possible because of ongoing efforts by the permittee.

The Compliance Order documents the history of noncompliance and mandates installation of additional pretreatment equipment according to a strict construction schedule similar to the Consent Order. The Control Authority will mandate specific dates to install a complete pretreatment system, including interim and final reporting requirements.

Refusal to sign and/or comply with the terms and conditions of the Compliance Order shall result in a Show Cause Hearing and/or Cease and Desist Order.

Failure to meet milestones or reporting requirements in this order will impose additional Administrative fees and/or escalate to a Show Cause Hearing.

Administrative Order-Discharge

An Administrative Order for Failure to Maintain or Operate Monitoring or Pretreatment Equipment will be issued if the IU is unable to maintain compliance for six (6) Consecutive Months After the Issuance of A Notice of Violation to Maintain or Failure to Operate Monitoring or Pretreatment Equipment.

ESS will meet with the noncompliant industry to ascertain the source of the problem and to find an agreeable solution for the noncompliance. The permittee is required to provide a strong case why they should not be kept from hiring a consultant to maintain or operate the monitoring or pretreatment equipment. If unable to maintain compliance for six (6) consecutive months since the agreed upon solution, ESS may require that an independent consultant be hired to maintain and/or operate the Monitoring or pretreatment equipment for one (1) year.

Failure to comply with the Administrative Order- Discharge may result in a Show Cause Order.

Show Cause Order

If the permittee fails to comply with the Consent Order or Compliance Order, notice will be served specifying the time and place of a Show Cause Hearing to be held by the City Manager or designated hearing officer regarding the violation. The offending party will be required to show cause why an order should not be made directing the termination of water service and/or severance of sewer connection. The notice of the hearing shall be served personally or by certified mail at least ten (10) days before the hearing.

Service of notice will be to an authorized representative of the industry.

If the problems causing the noncompliance appear to be resolvable or nearly resolved at the hearing's conclusion, a Show Cause Order will be issued which will include a Compliance Schedule to correct the violation along with increasing penalties based on economic benefit or the cost of pretreatment systems capable of treating the violating parameter.

In conjunction with the above-mentioned levels of enforcement, the following actions may be employed:

Notice of Noncompliance

This is issued when a violation has occurred and the IU is on a Compliance Schedule for the violated parameter. Notices of Noncompliance may also be issued under certain circumstances at the discretion of the Enforcement Review Committee.

Cease and Desist Order

This order may be issued to a user to immediately halt or terminate its discharge to the collection system for any of the following reasons:

- Illegal or unauthorized discharge
- Interference or pass-through at the POTW
- Health hazards for personnel servicing the collections system or to the general public
- Results of a Show Cause Hearing

The order may be issued immediately upon discovery of the problem, or following a Show Cause Hearing. In an emergency, the order may be given verbally, either in person or over the phone, and followed up with a written notice. In non-emergency situations, the Cease and Desist Order may be used to suspend or permanently revoke the User's permit. If the User fails to comply with the Order, the City of Fresno will go to a Show Cause Hearing to terminate water service and/or block the User's sewer connection point.

In addition to the enforcement procedures listed above, the City of Fresno may also pursue civil or criminal action against an industry if so warranted.

ENFORCEMENT REVIEW COMMITTEE

The Enforcement Review Committee (ERC) consists of members of the Environmental Services staff. The ERC discusses violations and enforcement issues relating to Industrial Users. Compliance measures are evaluated for effectiveness along with any suggestions offered by the committee. If necessary, the ERC will meet with the IU to discuss the situation and any extenuating circumstances. The purpose for this approach is to use the best professional judgment of a collective thought to apply the options listed in the Enforcement Review Plan.

INSPECTIONS

Pretreatment equipment is visually inspected. Dye checks are used to verify connections, and grab samples are taken if deemed necessary by the officer. A major inspection is done annually during which the industry's process water usage and wastestream characteristics, pretreatment, chemicals on site and industrial files are reviewed. A standardized report form has been developed also addressing the areas of slug control response plan, other wastes generated, record keeping, industrial sampling and testing information, POTW sampling and testing and enforcement. Other routine inspections may be done throughout the year to verify data, meet and confer with industry to prevent violations or clarify requirements or to verify that the operation has not changed. Enforcement inspections occur when an industry has violated and the officers spend time aiding the industry in achieving compliance or verifying that pretreatment equipment was installed or other measures have been implemented.

QUALITY ASSURANCE

Replicate samples are collected no less than every tenth sample collected for heavy metals, BOD, suspended solids, oil and grease, organics, cyanide, and ground water analysis. The POTW laboratory is required to run spiked samples on at least 10% of the heavy metal samples analyzed. Any outside laboratory, under contract with the City of Fresno to conduct analyses not performed by the POTW laboratory, will follow spiking guidelines as specified in each EPA

method for the respective parameter. All parameters analyzed by the laboratory have primary standards and/or external standard reference material analyzed in conjunction with the samples collected to assure acceptable data. The laboratories are State Certified.

SAMPLING

Procedures in the most recently approved edition of *Standard Methods for the Examination of Water and Wastewater* are followed.

Cyanide Sampling

Grab samples are collected over the course of an operating day. Samples are collected in bottles with sodium hydroxide (NaOH) added as a preservative and taken to an outside laboratory for analysis.

Metal Sampling

Composite sampler collection bottles and pump tubing are washed and acid-rinsed and a disposable bag is placed inside the collection bottle. A composite sample is collected for all or most of an operating day. Once an adequate volume is obtained, an aliquot is transferred to a sample bottle with nitric acid ($HN0_3$) added as a preservative and taken to the laboratory for analysis.

Grab samples are collected in sample bottles containing nitric acid ($HN0_3$) as a preservative and taken to the laboratory for analysis.

Oil and Grease Sampling

Grab samples are collected over the course of an operating day. Samples are collected in amber glass bottles and are refrigerated or iced while in transit and transferred to the custody of the laboratory for preservation and analysis.

pH Sampling

A grab sample of the process discharge is collected. The pH of the grab sample is tested immediately with a portable pH meter which is calibrated at the beginning of the inspector's shift. The pH meter is also recalibrated if a sample is in violation.

When electroplaters are sampled for metals, a single sample is checked for pH each day they are monitored. During cyanide sampling, a pH sample is collected each time a cyanide sample is collected each day they are monitored.

If an industry is monitored for oil and grease, a pH sample is also collected at the same time each oil and grease sample is collected. When an industry is sampled for revenue purposes (BOD and Suspended Solids), pH is also monitored at that time.

Besides the aforementioned sampling events, every industry is placed on a pH sampling schedule in which grab samples are monitored over the course of an operating day. As an alternative to grab samples, continuous monitoring may be conducted through the use of data loggers.

SAMPLING SCHEDULE

Industries that have had no violations are placed on the Continued Compliance Monitoring schedule in which the applicable parameters are sampled in accordance with the aforementioned procedures on an annual, semiannual or quarterly basis. Industries that are in violation are placed on the Enforcement Sampling schedule. Monitoring frequencies are set at the discretion of the ERC depending on the level of enforcement, with a minimum sampling frequency of quarterly. The Enforcement Response Plan (ERP) defines monitoring frequencies which increase as the industry's level of enforcement rises. This increase in frequency is done to obtain the necessary data to determine the appropriate remedy. If an officer feels that a deviation should be made from monitoring levels prescribed in the ERP, the officer must bring a proposal to the ERC for approval.

RESULTS OF POTW SAMPLING AND ANALYSIS

Wastewater Management Division (WMD) is required to perform annual monitoring and analysis of the treatment plant's influent, effluent, and biosolids in accordance with Standard Provisions and Monitoring and Reporting Program of Waste Discharge Requirements Order No 5-01-254, issued by the California Regional Water Quality Control Board (CRWQCB).

Monitoring the quality of the influent to the treatment plant helps determine the effectiveness of the Pretreatment Program. Effluent and biosolids monitoring provides pollutants removal and/or pass through information.

WMD conducted weekly monitoring of secondary effluent for total dissolved solids, total volatile dissolved solids, alkalinity, chlorides, ammonia nitrogen, total kjeldahl nitrogen, nitrate nitrogen, nitrite nitrogen and total nitrogen. Additional daily analysis for ammonia nitrogen and four times weekly analysis for total dissolved solids is also performed. Monthly monitoring for pollutants, including heavy metals, was performed for the final effluent (AB canal). Quarterly monitoring for pollutants, including heavy metals, was performed for the influent (Plant I Headworks), Influent/Recycle, and Primary Effluent. Semiannual monitoring for priority toxic pollutants was performed on the final effluent. Biosolids were collected monthly at the belt filter press. All samples were analyzed by State Certified laboratories.

Annual pretreatment sampling was performed in September 2008 on composites of the influent, final effluent and biosolids and tested for heavy metals, cyanide, total toxic organics and oil and grease.

In addition, industrial, commercial and residential sampling has continued for local limits review and as part of the Loading Source Control Plan to determine industrial and residential contribution of conventional pollutants to the treatment plant.

SAMPLING PROTOCOL

Influent samples were collected at the headworks using a flow paced composite sampler. Effluent samples were collected from the AB effluent canal using a flow paced composite sampler. Effluent samples for priority toxic pollutants were collected as grab samples in conjunction with the composited sample at the same location. Samples for total toxic organics were composited by hand. Biosolids were collected as a grab sample composed of a composite of all the belt filter presses running at that time.

Residential sampling for development of local limits was performed using a time paced portable composite sample.

Collection, preservation, and analysis were performed in accordance with 40CFR 136. Metals and biosolids data are also detailed in Chapter 10 "Effectiveness of the Pretreatment Program."

MOORE TWINING ASSOCIATES, INC.

EST. 1896

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8D08006
PAGE _____ **OF** _____

REPORT TO:

ATTENTION: MIKE MCCOLM
NAME: CITY OF FRESNO, WMD
ADDRESS: 5607 W. JENSEN
FRESNO CA 93706
PHONE: 621-5169
FAX: 498-1700

☐ **INVOICE TO:**

ATTENTION:
NAME: EFFLUENT PRIORITY POLLUTANT SAMPLING
ADDRESS:
PHONE:
FAX:

☐ **REPORT COPY TO:**

REPORTING:

☐ STANDARD PRINTED REPORT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS: _____
☐ Environmental Health Agency: _____
☐ OTHER: _____

SAMPLE INFORMATION

SAMPLED BY (PRINT): J. ENGELMAN
SIGNATURE: J Engelman

☐ PUBLIC SYSTEM ☒ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON: _____
☒ STANDARD

SAMPLE TYPES:

SOLID:
BS - BIOSOLID
CR - CERAMIC
SL - SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW - WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION
15.6 °C

ANALYSIS REQUESTED

CLIENT SAMPLE ID	DATE	TIME	TYPE	8260	8270	8081	CN - METHOD SM 4500	Cr 6 - EPA 218.6	TCDD (8280)	ASBESTOS				LAB USE
0027 PP	4-8-08	0900	WW	X	X	X	X	X	X	X				3X1LAG THIO
														1CP6
														500P6
														250 VNaOH
														3X VOA HCl

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
J Engelman	City of Fresno	4-8-08	0945	V. Conway	MTA

MOORE TWINING ASSOCIATES, INC.
EST. 1994
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
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EFFL. PRI. POLLUTANTS 4/8/08

May 05, 2008

Work Order #: 8D08006

Mike McColm
Fresno City Waste Water Treatment Plant
5607 West Jensen Avenue
Fresno, CA 93706

RE: Analytical Services 2007/2008

Enclosed are the analytical results for samples received by our laboratory on 04/08/08 . For your reference, these analyses have been assigned laboratory work order number 8D08006.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Ronald J. Boquist
Director of Analytical Chemistry

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0027 PP	8D08006-01	Waste Water	04/08/08 09:00	04/08/08 09:45

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8D1411	04/10/08	04/15/08	SM4500CN-E	
Semi-Volatile Organics									
4,4′-DDD	ND	0.050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
4,4′-DDE	ND	0.050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
4,4′-DDT	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Aldrin	ND	0.0050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
alpha-BHC	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
alpha-Chlordane	ND	0.10	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
beta-BHC	ND	0.0050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Chlordane (n.o.s.)	ND	0.10	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
delta-BHC	ND	0.0050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Dieldrin	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Endosulfan I	ND	0.020	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Trifluralin	ND	0.050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Endosulfan II	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Endosulfan sulfate	ND	0.050	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Endrin	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Endrin aldehyde	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Endrin ketone	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
gamma-BHC (Lindane)	ND	0.020	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
gamma-Chlordane	ND	0.10	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Heptachlor	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Heptachlor epoxide	ND	0.010	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Methoxychlor	ND	0.10	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Toxaphene	ND	0.50	µg/L	1	T8D1518	04/09/08	04/17/08	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)		*102 %*	*43-154*		*T8D1518*	*04/09/08*	*04/17/08*	*EPA 8081A*	
Surrogate: Tetrachloro-meta-xylene (TMX)		*82.0 %*	*34.4-113*		*T8D1518*	*04/09/08*	*04/17/08*	*EPA 8081A*	
1,2,4-Trichlorobenzene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
1,2-Dichlorobenzene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
1,2-Diphenylhydrazine	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
1,3-Dichlorobenzene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
1,4-Dichlorobenzene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,4,5-Trichlorophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
2,4,6-Trichlorophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,4-Dichlorophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,4-Dimethylphenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,4-Dinitrophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,4-Dinitrotoluene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,6-Dichlorophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2,6-Dinitrotoluene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2-Chloronaphthalene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2-Chlorophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2-Methylnaphthalene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2-Methylphenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2-Nitroaniline	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
2-Nitrophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
3,3′-Dichlorobenzidine	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
3-Nitroaniline	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Bromophenyl phenyl ether	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Chloro-3-methylphenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Chloroaniline	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Methylphenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Nitroaniline	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
4-Nitrophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Acenaphthene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Acenaphthylene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Aldrin	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
alpha-BHC	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Aniline	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Anthracene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzidine	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzo (a) anthracene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzo (b) fluoranthene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Benzo (g,h,i) perylene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzo (k) fluoranthene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzo(a)pyrene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzoic acid	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Benzyl alcohol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
beta-BHC	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Bis(2-chloroethyl)ether	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Bis(2-ethylhexyl) phthalate	ND	5.0	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Butyl benzyl phthalate	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Chrysene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
DDD	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
DDE	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
DDT	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
delta-BHC	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Dibenz (a,h) anthracene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Dibenzofuran	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Dieldrin	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Diethyl phthalate	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Dimethyl phthalate	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Di-n-butyl phthalate	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Di-n-octyl phthalate	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Endosulfan I	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Endosulfan II	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Endosulfan sulfate	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Endrin	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Endrin aldehyde	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Endrin ketone	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Fluoranthene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Fluorene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
gamma-BHC (Lindane)	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Heptachlor	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Heptachlor epoxide	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Hexachlorobenzene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Hexachlorobutadiene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Hexachlorocyclopentadiene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Hexachloroethane	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Isophorone	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Naphthalene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Nitrobenzene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
N-Nitrosodimethylamine	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
N-Nitrosodiphenylamine	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Pentachlorophenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Phenanthrene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Phenol	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Pyrene	ND	10	µg/L	1	T8D1402	04/14/08	05/01/08	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol		*86.9 %*	*10-200*		*T8D1402*	*04/14/08*	*05/01/08*	*EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*75.0 %*	*10-200*		*T8D1402*	*04/14/08*	*05/01/08*	*EPA 8270C*	
Surrogate: 2-Fluorophenol		*53.0 %*	*10-200*		*T8D1402*	*04/14/08*	*05/01/08*	*EPA 8270C*	
Surrogate: d14-Terphenyl		*60.5 %*	*10-200*		*T8D1402*	*04/14/08*	*05/01/08*	*EPA 8270C*	
Surrogate: Nitrobenzene-d5		*70.5 %*	*10-200*		*T8D1402*	*04/14/08*	*05/01/08*	*EPA 8270C*	
Surrogate: Phenol-d5		*45.2 %*	*10-200*		*T8D1402*	*04/14/08*	*05/01/08*	*EPA 8270C*	
Volatile Organics									
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,1-Dichloropropene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,4-Dichlorobenzene	**0.90**	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
2,2-Dichloropropane	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
2-Butanone (MEK)	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
2-Hexanone	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Acetone	ND	10	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Acrolein	ND	10	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Acrylonitrile	ND	5.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Benzene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Bromochloromethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Bromodichloromethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Bromoform	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Bromomethane	ND	2.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Carbon disulfide	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Carbon tetrachloride	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Chlorobenzene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Chloroethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Chloroform	**0.60**	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Chloromethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Dibromochloromethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Dibromomethane	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Dichlorodifluoromethane (CFC-12)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Ethanol	ND	50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Ethyl methacrylate	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Ethylbenzene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Hexachlorobutadiene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Hexachloroethane	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Iodomethane	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Isobutyl alcohol	ND	20	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Isopropylbenzene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
m,p-Xylene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Methacrylonitrile	ND	5.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Methyl Methacrylate	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Methylene chloride	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Naphthalene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
n-Propylbenzene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
o-Xylene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
p-Isopropyltoluene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Propionitrile	ND	10	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Styrene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	20	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
tert-Butylbenzene	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Toluene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	1.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Vinyl acetate	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Vinyl chloride	ND	0.50	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	
Xylenes	ND	2.0	µg/L	1	T8D1416	04/14/08	04/14/08	EPA 8260B	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

0027 PP

8D08006-01 (Waste Water) Sampled:04/08/08 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Surrogate: 4-Bromofluorobenzene		*103 %*	*91.6-117*		*T8D1416*	*04/14/08*	*04/14/08*	*EPA 8260B*	
Surrogate: Dibromofluoromethane		*96.2 %*	*85-125*		*T8D1416*	*04/14/08*	*04/14/08*	*EPA 8260B*	
Surrogate: Toluene-d8		*112 %*	*79.7-112*		*T8D1416*	*04/14/08*	*04/14/08*	*EPA 8260B*	

Notes and Definitions

TW	Tap water used for batch QC MS/MSD analyses.
ug/L	micrograms per liter (parts per billion concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
mg/L	milligrams per Liter (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

Forensic Analytical Laboratories

ANALYSIS REPORT
ASBESTOS IN POTABLE WATER
Transmission Electron Microscopy*

Client:	Moore Twining Associates Inc	Page:	1 of 1
Contact:	Andrea Seruntine	Client Number:	2444
Street:	2527 Fresno Street	Report Number:	T014505
City/state/zip:	Fresno CA 93721	Date Received:	4/9/08 0954

Site:		Analyst(s):	RE
Job ID:	8D08006	Date Analyzed:	4/15/08
P.O. #:	4211	Date Reported:	4/15/08
Date/time collected:	4/8/08 0900		
Date/time filtered:	4/9/08 1040		
Hold time, hrs	<48		
Filter type:	MCE		
Pore size, μm	0.22		

ANALYTICAL RESULTS	
Client Sample Number	0027 PP
MTA Sample ID	8D08006-01
System-Source Number	
Lab Sample Number	20055514
Volume filtered, mL	1.0
Filter area, mm2	190
Grid Opening Area, mm2	0.0086
Number of G.O.s Analyzed	10
Area analyzed, mm2	0.086
# Asbestos Fibers ≥10um	0
Analytical sensitivity, MFL	2.2
Asbestos Concentration, ≥10um in length, MFL	**<2.2**
Asbestos Type(s) Detected**	**ND**
95% Upper Conf. Limit, MFL	8.2
95% Lower Conf. Limit, MFL	0

Mark S. Floyd, Analytical Microscopy Supervisor

* Method EPA 100.2. Results are reported in Millions of Fibers >10μm in length per Liter (MFL).

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; AC=actinolite; TR=tremolite; AN=anthophyllite; ND=none detected.

3777 Depot Road, Suite 409, Hayward, California 94545 Telephone: 510-887-8828 Fax: 510-887-4218 www.forensica.com

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www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DETERMINATION OF 2,3,7,8-TCDD

Prepared for:
The Twining Laboratories, Inc.
Attn: Andrea Seruntine
2527 Fresno Street
Fresno, CA 93721

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: TCDD Analysis

Pace Project ID: 1071268

Client Project Number: 8D08006

Client Purchase Order Number: 4218

REPORT OF LABORATORY ANALYSIS

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nelac

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REPORT OF: TCDD ANALYSES

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

PROJECT: TCDD ANALYSES

DATE: April 24, 2008

ISSUED TO: The Twining Laboratories, Inc.
Attn: Andrea Seruntine
2527 Fresno Street
Fresno, CA 93721

REPORT NO: 08-1071268

INTRODUCTION

This report presents the results from the analyses performed on one sample submitted by a representative of The Twining Laboratories, Inc. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorinated dibenzo-p-dioxin (TCDD) using USEPA Method 8280.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	Pace ID
8D0800601 0027PP	Water	04/10/08	1071268001

DISCUSSION

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 73%. All of the labeled standard recoveries obtained for this project were within the Method 8280 target ranges. Also, since the internal standards were added prior to extraction, the data were corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of 2,3,7,8-TCDD to the reporting limit. This indicates that the sample preparation procedures did not significantly impact the results of the field sample determinations.

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Fax: 612.607.6444

PROJECT: TCDD ANALYSES

DATE: April 24, 2008

REPORT NO: 08-1071268

DISCUSSION continued

Laboratory spike samples were also prepared with the sample batch by extracting laboratory water fortified with native standard. The native TCDD in the spiked samples was recovered at 91-105% with a relative percent difference of 14.3%. A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. These results indicate a high degree of accuracy for these determinations.

REMARKS

The sample extract will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Norman Hoffa

Norman Hoffa
Project Manager, Dioxins
(919) 596-1935

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nelac

Sample Condition Upon Receipt

Pace Analytical

Client Name: Moore Twining Project # 16712608

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8613 5453 2930

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 230194010, ~~72310129~~ Type of Ice: Wet (Blue) None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.5 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 4/10/08 K

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 04/10/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.3, 11September2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Blank Analysis Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	BLANK 041108	Matrix	Water
Filename	041608_4160808	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	04/11/2008
ICAL Date	02/28/2008	Analyzed	04/16/2008 15:58
CCal Filename(s)	041608_4160802 & 041608_4160819	Injected By	JLJ

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	50.00	63
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	82

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Reporting Limit
LOD = Limit of Detection
P = Recovery outside of target range

E = PCDE Interference
I = Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1071268

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Analysis Results

Client - The Twining Laboratories, Inc.

Client's Sample ID	8D0800601 0027PP		
Lab Sample ID	1071268001		
Filename	041608_4160816		
Injected By	JLJ	Matrix	WATER
Total Amount Extracted	890 mL	Dilution	NA
% Moisture	NA	Collected	04/08/2008
ICAL Date	02/28/2008	Received	04/10/2008
CCal Filename(s)	041608_4160802 & 041608_4160819	Extracted	04/11/2008
Method Blank ID	BLANK 041108	Analyzed	04/16/2008 21:17

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	11	2,3,7,8-TCDD-13C	50.00	73
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	80

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
A =PRL based on signal to noise
J = Concentration detected is below the calibration range
* = See discussion

PRL = Pace Reporting Limit
LOD = Limit of Detection
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1071268

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Method 8280 Laboratory Control Spike Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	LCS 041108			
Filename	041608_4160803	Matrix	WATER	
Total Amount Extracted	1000 mL	Dilution	NA	
ICAL Date	02/28/2008	Extracted	04/11/2008	
CCal Filename(s)	041608_4160802 & 041608_4160819	Analyzed	04/16/2008	12:40
Method Blank ID	BLANK 041108	Injected By	JLJ	

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	25.00	22.81	91	2,3,7,8-TCDD-13C	50.00	75
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	81

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the target recovery range of the method
X = Background subtracted value
NA = Not Applicable
NC = Not Calculated
I = Interference

Report No.....1071268

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Laboratory Control Spike Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	LCSD 041108		
Filename	041608_4160804	Matrix	WATER
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	02/28/2008	Extracted	04/11/2008
CCal Filename(s)	041608_4160802 & 041608_4160819	Analyzed	04/16/2008 13:20
Method Blank ID	BLANK 041108	Injected By	JLJ

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	25.00	26.24	105	2,3,7,8-TCDD-13C	50.00	74
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	79

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the target recovery range of the method
X = Background subtracted value
NA = Not Applicable
NC = Not Calculated
I = Interference

Report No.....1071268

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client	The Twining Laboratories, Inc.
Client Sample ID's	8D0800601 0027PP
Spike 1 ID	LCS 041108
Spike 1 Filename	041608_4160803
Spike 2 ID	LCSD 041108
Spike 2 Filename	041608_4160804

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	91	105	14.3

REC = Percent Recovered
RPD = The difference between the two values divided by the average

Report No.....1071268

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MWH Laboratories
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Moore Twining Associates
2627 Fresno Street

Fresno , CA 93721

Attention: Andy Seruntine
Fax: (559) 268-0740

DATE OF ISSUE
APR 22 2008
MWH LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

MAG Matthew Allen Glover
Project Manager

Report#: 236832
Project: SUBCONTRACT
PO#: 4212

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 4 page[s].

MWH Laboratories
750 Royal Oaks Drive, Monrovia, CA 91016
PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Moore Twining Associates
2627 Fresno Street
Fresno, CA 93721
Attn: Andy Seruntine
Phone: (559) 268-7021

Customer Code: TWINING
PO#: 4212
Group#: 236832
Project#: SUBCONTRACT
Proj Mgr: Allen Glover
Phone: (916) 374-8030

The following samples were received from you on **04/09/08**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Matrix	Sample Date
	Tests Scheduled		
2804100040	0027 PP	Water	08-apr-2008 09:00:00
	CRVI-LOW		

Test Acronym Description

Test Acronym	Description
CRVI-LOW	Hexavalent chromium(Dissolved)

MWH Laboratories
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
Hits Report
#236832

Moore Twining Associates
Andy Seruntine
2627 Fresno Street
Fresno , CA 93721

Samples Received
09-apr-2008 08:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2804100040	0027 PP				

SUMMARY OF POSITIVE DATA ONLY.

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Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
Data Report
#236832

Moore Twining Associates
Andy Seruntine
2627 Fresno Street
Fresno , CA 93721

Samples Received
04/09/08

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
0027 PP (2804100040)				Sampled on 04/08/08 09:00				
	04/09/08 09:21	420916	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/l	0.20	2

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Laboratory
QC Summary
#236832

Moore Twining Associates

QC Ref #420916 - Hexavalent chromium(Dissolved)Analysis Date: 04/09/2008

2804100040 0027 PP Analyzed by: tlh

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Laboratory
QC Report
#236832

Moore Twining Associates

QC Ref #420916 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	04100040	UGL		(0-0)	
LCS1	Hexavalent chromium(Dissolved)	2.0	2.00	UGL	100.0	(90-110)	
LCS2	Hexavalent chromium(Dissolved)	2.0	1.99	UGL	99.5	(90-110)	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.094	UGL	94.0	(50-150)	
MS	Hexavalent chromium(Dissolved)	2.0	2.05	UGL	102.5	(90-110)	
MSD	Hexavalent chromium(Dissolved)	2.0	1.96	UGL	98.0	(90-110)	
RPD_LCS	Hexavalent chromium(Dissolved)	100.000	99.500	UGL	0.5	(0-20)	
RPD_MS	Hexavalent chromium(Dissolved)	102.500	98.000	UGL	4.5	(0-20)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1411										
Blank (T8D1411-BLK1)				Prepared: 04/11/08	Analyzed: 04/15/08					
Cyanide (total)	ND	5.0	µg/L							
LCS (T8D1411-BS1)				Prepared: 04/11/08	Analyzed: 04/15/08					
Cyanide (total)	45.6	5.0	µg/L	50.0		91.2	80-120		20	
LCS Dup (T8D1411-BSD1)				Prepared: 04/11/08	Analyzed: 04/15/08					
Cyanide (total)	47.2	5.0	µg/L	50.0		94.4	80-120	3.45	20	
Matrix Spike (T8D1411-MS1)		**Source: 8D08025-01**		Prepared: 04/11/08	Analyzed: 04/15/08					
Cyanide (total)	49.7	5.0	µg/L	50.0	ND	99.4	80-120		20	
Matrix Spike Dup (T8D1411-MSD1)		**Source: 8D08025-01**		Prepared: 04/11/08	Analyzed: 04/15/08					
Cyanide (total)	46.6	5.0	µg/L	50.0	ND	93.2	80-120	6.44	20	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1402										
Blank (T8D1402-BLK1)				Prepared: 04/14/08 Analyzed: 05/01/08						
Surrogate: 2,4,6-Tribromophenol	*74.5*		*µg/L*	*100*		*74.5*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*32.8*		*µg/L*	*50.0*		*65.6*	*10-200*			
Surrogate: 2-Fluorophenol	*45.5*		*µg/L*	*100*		*45.5*	*10-200*			
Surrogate: d14-Terphenyl	*23.8*		*µg/L*	*50.0*		*47.6*	*10-200*			
Surrogate: Nitrobenzene-d5	*33.9*		*µg/L*	*50.0*		*67.7*	*10-200*			
Surrogate: Phenol-d5	*38.2*		*µg/L*	*100*		*38.2*	*10-200*			
1,2,4-Trichlorobenzene	ND	10	µg/L							
1,2-Dichlorobenzene	ND	10	µg/L							
1,2-Diphenylhydrazine	ND	10	µg/L							
1,3-Dichlorobenzene	ND	10	µg/L							
1,4-Dichlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dichlorophenol	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
2-Methylnaphthalene	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
3,3'-Dichlorobenzidine	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
4-Bromophenyl phenyl ether	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chlorophenyl phenyl ether	ND	10	µg/L							
4-Methylphenol	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L							
Acenaphthene	ND	10	µg/L							

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch T8D1402

Blank (T8D1402-BLK1) Prepared: 04/14/08 Analyzed: 05/01/08

Acenaphthylene	ND	10	µg/L
Aldrin	ND	10	µg/L
alpha-BHC	ND	10	µg/L
Aniline	ND	10	µg/L
Anthracene	ND	10	µg/L
Benzidine	ND	10	µg/L
Benzo (a) anthracene	ND	10	µg/L
Benzo (b) fluoranthene	ND	10	µg/L
Benzo (g,h,i) perylene	ND	10	µg/L
Benzo (k) fluoranthene	ND	10	µg/L
Benzo(a)pyrene	ND	10	µg/L
Benzoic acid	ND	10	µg/L
Benzyl alcohol	ND	10	µg/L
beta-BHC	ND	10	µg/L
Bis(2-chloroethoxy)methane	ND	10	µg/L
Bis(2-chloroethyl)ether	ND	10	µg/L
Bis(2-chloroisopropyl)ether	ND	10	µg/L
Bis(2-ethylhexyl) phthalate	ND	5.0	µg/L
Butyl benzyl phthalate	ND	10	µg/L
Chrysene	ND	10	µg/L
DDD	ND	10	µg/L
DDE	ND	10	µg/L
DDT	ND	10	µg/L
delta-BHC	ND	10	µg/L
Dibenz (a,h) anthracene	ND	10	µg/L
Dibenzofuran	ND	10	µg/L
Dieldrin	ND	10	µg/L
Diethyl phthalate	ND	10	µg/L
Dimethyl phthalate	ND	10	µg/L
Di-n-butyl phthalate	ND	10	µg/L
Di-n-octyl phthalate	ND	10	µg/L
Endosulfan I	ND	10	µg/L
Endosulfan II	ND	10	µg/L
Endosulfan sulfate	ND	10	µg/L
Endrin	ND	10	µg/L
Endrin aldehyde	ND	10	µg/L
Endrin ketone	ND	10	µg/L

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Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1402										
Blank (T8D1402-BLK1)				Prepared: 04/14/08 Analyzed: 05/01/08						
Fluoranthene	ND	10	µg/L							
Fluorene	ND	10	µg/L							
gamma-BHC (Lindane)	ND	10	µg/L							
Heptachlor	ND	10	µg/L							
Heptachlor epoxide	ND	10	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	10	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	10	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	10	µg/L							
LCS (T8D1402-BS1)				Prepared: 04/14/08 Analyzed: 05/01/08						
Surrogate: 2,4,6-Tribromophenol	*76.5*		*µg/L*	*100*		*76.5*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*40.0*		*µg/L*	*50.0*		*80.0*	*10-200*			
Surrogate: 2-Fluorophenol	*53.5*		*µg/L*	*100*		*53.5*	*10-200*			
Surrogate: d14-Terphenyl	*27.7*		*µg/L*	*50.0*		*55.3*	*10-200*			
Surrogate: Nitrobenzene-d5	*37.2*		*µg/L*	*50.0*		*74.4*	*10-200*			
Surrogate: Phenol-d5	*43.5*		*µg/L*	*100*		*43.5*	*10-200*			
1,2,4-Trichlorobenzene	36.1	10	µg/L	50.0		72.1	10-200		20	
1,4-Dichlorobenzene	33.4	10	µg/L	50.0		66.9	10-200		20	
2,4-Dinitrotoluene	42.0	10	µg/L	50.0		83.9	10-200		20	
2-Chlorophenol	72.4	10	µg/L	100		72.1	10-200		20	
4-Chloro-3-methylphenol	100	10	µg/L	100		99.7	10-200		20	
Acenaphthene	41.6	10	µg/L	50.0		83.2	10-200		20	
N-Nitrosodi-n-propylamine	48.5	10	µg/L	50.0		97.0	10-200		20	
Phenol	42.6	10	µg/L	100		42.4	10-200		20	
Pyrene	40.2	10	µg/L	50.0		80.4	10-200		20	
LCS Dup (T8D1402-BSD1)				Prepared: 04/14/08 Analyzed: 05/01/08						

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1402										
LCS Dup (T8D1402-BSD1)				Prepared: 04/14/08 Analyzed: 05/01/08						
Surrogate: 2,4,6-Tribromophenol	*76.5*		*µg/L*	*100*		*76.5*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*41.3*		*µg/L*	*50.0*		*82.7*	*10-200*			
Surrogate: 2-Fluorophenol	*53.9*		*µg/L*	*100*		*53.9*	*10-200*			
Surrogate: d14-Terphenyl	*27.6*		*µg/L*	*50.0*		*55.3*	*10-200*			
Surrogate: Nitrobenzene-d5	*39.7*		*µg/L*	*50.0*		*79.3*	*10-200*			
Surrogate: Phenol-d5	*47.5*		*µg/L*	*100*		*47.5*	*10-200*			
1,2,4-Trichlorobenzene	37.4	10	µg/L	50.0		74.7	10-200	3.51	20	
1,4-Dichlorobenzene	35.3	10	µg/L	50.0		70.6	10-200	5.41	20	
2,4-Dinitrotoluene	43.8	10	µg/L	50.0		87.5	10-200	4.20	20	
2-Chlorophenol	76.7	10	µg/L	100		76.4	10-200	5.76	20	
4-Chloro-3-methylphenol	103	10	µg/L	100		103	10-200	3.12	20	
Acenaphthene	41.7	10	µg/L	50.0		83.5	10-200	0.360	20	
N-Nitrosodi-n-propylamine	55.5	10	µg/L	50.0		111	10-200	13.4	20	
Phenol	45.8	10	µg/L	100		45.6	10-200	7.24	20	
Pyrene	38.2	10	µg/L	50.0		76.4	10-200	5.13	20	
Batch T8D1518										
Blank (T8D1518-BLK1)				Prepared: 04/09/08 Analyzed: 04/16/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.875*		*µg/L*	*1.00*		*87.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.770*		*µg/L*	*1.00*		*77.0*	*34.4-113*			
4,4'-DDD	ND	0.050	µg/L							
4,4'-DDE	ND	0.050	µg/L							
4,4'-DDT	ND	0.010	µg/L							
Aldrin	ND	0.0050	µg/L							
alpha-BHC	ND	0.010	µg/L							
alpha-Chlordane	ND	0.10	µg/L							
beta-BHC	ND	0.0050	µg/L							
Chlordane (n.o.s.)	ND	0.10	µg/L							
delta-BHC	ND	0.0050	µg/L							
Dieldrin	ND	0.010	µg/L							
Endosulfan I	ND	0.020	µg/L							
Trifluralin	ND	0.050	µg/L							
Endosulfan II	ND	0.010	µg/L							
Endosulfan sulfate	ND	0.050	µg/L							
Endrin	ND	0.010	µg/L							
Endrin aldehyde	ND	0.010	µg/L							
Endrin ketone	ND	0.010	µg/L							

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1518										
Blank (T8D1518-BLK1)				Prepared: 04/09/08 Analyzed: 04/16/08						
gamma-BHC (Lindane)	ND	0.020	µg/L							
gamma-Chlordane	ND	0.10	µg/L							
Heptachlor	ND	0.010	µg/L							
Heptachlor epoxide	ND	0.010	µg/L							
Methoxychlor	ND	0.10	µg/L							
Toxaphene	ND	0.50	µg/L							
Blank (T8D1518-BLK2)				Prepared: 04/13/08 Analyzed: 04/16/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.875*		*µg/L*	*1.00*		*87.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.775*		*µg/L*	*1.00*		*77.5*	*34.4-113*			
4,4'-DDD	ND	0.050	µg/L							
4,4'-DDE	ND	0.050	µg/L							
4,4'-DDT	ND	0.010	µg/L							
Aldrin	ND	0.0050	µg/L							
alpha-BHC	ND	0.010	µg/L							
alpha-Chlordane	ND	0.10	µg/L							
beta-BHC	ND	0.0050	µg/L							
Chlordane (n.o.s.)	ND	0.10	µg/L							
delta-BHC	ND	0.0050	µg/L							
Dieldrin	ND	0.010	µg/L							
Endosulfan I	ND	0.020	µg/L							
Trifluralin	ND	0.050	µg/L							
Endosulfan II	ND	0.010	µg/L							
Endosulfan sulfate	ND	0.050	µg/L							
Endrin	ND	0.010	µg/L							
Endrin aldehyde	ND	0.010	µg/L							
Endrin ketone	ND	0.010	µg/L							
gamma-BHC (Lindane)	ND	0.020	µg/L							
gamma-Chlordane	ND	0.10	µg/L							
Heptachlor	ND	0.010	µg/L							
Heptachlor epoxide	ND	0.010	µg/L							
Methoxychlor	ND	0.10	µg/L							
Toxaphene	ND	0.50	µg/L							
LCS (T8D1518-BS1)				Prepared: 04/09/08 Analyzed: 04/16/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.905*		*µg/L*	*1.00*		*90.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.925*		*µg/L*	*1.00*		*92.5*	*34.4-113*			
Dieldrin	1.23	0.010	µg/L	1.25		98.4	70-130		20	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1518										
LCS (T8D1518-BS1)				Prepared: 04/09/08 Analyzed: 04/16/08						
Endrin	1.36	0.010	µg/L	1.25		108	70-186		20	
gamma-BHC (Lindane)	1.24	0.020	µg/L	1.25		99.6	70-130		20	
Heptachlor	1.28	0.010	µg/L	1.25		102	61-130		20	
LCS (T8D1518-BS2)				Prepared: 04/13/08 Analyzed: 04/16/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.885*		*µg/L*	*1.00*		*88.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.920*		*µg/L*	*1.00*		*92.0*	*34.4-113*			
Dieldrin	1.26	0.010	µg/L	1.25		101	70-130		20	
Endrin	1.40	0.010	µg/L	1.25		112	70-186		20	
gamma-BHC (Lindane)	1.27	0.020	µg/L	1.25		102	70-130		20	
Heptachlor	1.32	0.010	µg/L	1.25		105	61-130		20	
LCS Dup (T8D1518-BSD1)				Prepared: 04/09/08 Analyzed: 04/16/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.915*		*µg/L*	*1.00*		*91.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.905*		*µg/L*	*1.00*		*90.5*	*34.4-113*			
Dieldrin	1.24	0.010	µg/L	1.25		99.6	70-130	1.21	20	
Endrin	1.39	0.010	µg/L	1.25		111	70-186	2.55	20	
gamma-BHC (Lindane)	1.25	0.020	µg/L	1.25		100	70-130	0.401	20	
Heptachlor	1.30	0.010	µg/L	1.25		104	61-130	1.56	20	
LCS Dup (T8D1518-BSD2)				Prepared: 04/13/08 Analyzed: 04/16/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.880*		*µg/L*	*1.00*		*88.0*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.920*		*µg/L*	*1.00*		*92.0*	*34.4-113*			
Dieldrin	1.26	0.010	µg/L	1.25		101	70-130	0.00	20	
Endrin	1.40	0.010	µg/L	1.25		112	70-186	0.357	20	
gamma-BHC (Lindane)	1.27	0.020	µg/L	1.25		102	70-130	0.00	20	
Heptachlor	1.32	0.010	µg/L	1.25		105	61-130	0.00	20	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1416										
Blank (T8D1416-BLK1)				Prepared & Analyzed: 04/14/08						
Surrogate: 4-Bromofluorobenzene	*25.4*		*µg/L*	*25.0*		*102*	*91.6-117*			
Surrogate: Dibromofluoromethane	*26.3*		*µg/L*	*25.0*		*105*	*85-125*			
Surrogate: Toluene-d8	*27.6*		*µg/L*	*25.0*		*110*	*79.7-112*			
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethene	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
1,2,3-Trichloropropane (123TCP)	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	1.0	µg/L							
2-Chloroethylvinyl ether	ND	1.0	µg/L							
2-Hexanone	ND	1.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Acetone	ND	10	µg/L							
Acrolein	ND	10	µg/L							
Acrylonitrile	ND	5.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon disulfide	ND	0.50	µg/L							
Carbon tetrachloride	ND	0.50	µg/L							

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1416										
Blank (T8D1416-BLK1)				Prepared & Analyzed: 04/14/08						
Chlorobenzene	ND	0.50	µg/L							
Chlorodifluoromethane	ND	1.0	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
cis-1,2-Dichloroethene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
Dibromochloromethane	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
Dichlorodifluoromethane (CFC-12)	ND	0.50	µg/L							
Dichlorotetrafluoroethane (CFC-114)	ND	1.0	µg/L							
Di-isopropyl ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethyl methacrylate	ND	1.0	µg/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
Hexachloroethane	ND	1.0	µg/L							
Iodomethane	ND	1.0	µg/L							
Isobutyl alcohol	ND	20	µg/L							
Isopropylbenzene	ND	1.0	µg/L							
m,p-Xylene	ND	1.0	µg/L							
Methacrylonitrile	ND	5.0	µg/L							
Methyl Methacrylate	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene chloride	ND	1.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
p-Isopropyltoluene	ND	1.0	µg/L							
Propionitrile	ND	10	µg/L							
Styrene	ND	0.50	µg/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L							
tert-Butyl alcohol (TBA)	ND	20	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Tetrachloroethene (PCE)	ND	1.0	µg/L							
Toluene	ND	0.50	µg/L							

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California ELAP Certificate #1371

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Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1416										
Blank (T8D1416-BLK1)				Prepared & Analyzed: 04/14/08						
trans-1,2-Dichloroethene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L							
Trichloroethene (TCE)	ND	0.50	µg/L							
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L							
Trichlorotrifluoroethane (CFC-113)	ND	1.0	µg/L							
Vinyl acetate	ND	0.50	µg/L							
Vinyl chloride	ND	0.50	µg/L							
Xylenes	ND	2.0	µg/L							
LCS (T8D1416-BS1)				Prepared & Analyzed: 04/14/08						
Surrogate: 4-Bromofluorobenzene	*25.7*		*µg/L*	*25.0*		*103*	*91.6-117*			
Surrogate: Dibromofluoromethane	*25.8*		*µg/L*	*25.0*		*103*	*85-125*			
Surrogate: Toluene-d8	*27.1*		*µg/L*	*25.0*		*108*	*79.7-112*			
1,1-Dichloroethene	18.7	0.50	µg/L	20.0		93.6	70-130		20	
Benzene	16.2	0.50	µg/L	20.0		80.8	70-130		20	
Chlorobenzene	21.0	0.50	µg/L	20.0		105	70-130		20	
Toluene	17.1	0.50	µg/L	20.0		85.4	70-130		20	
Trichloroethene (TCE)	18.0	0.50	µg/L	20.0		89.8	70-130		20	
LCS Dup (T8D1416-BSD1)				Prepared & Analyzed: 04/14/08						
Surrogate: 4-Bromofluorobenzene	*25.6*		*µg/L*	*25.0*		*103*	*91.6-117*			
Surrogate: Dibromofluoromethane	*25.9*		*µg/L*	*25.0*		*104*	*85-125*			
Surrogate: Toluene-d8	*26.8*		*µg/L*	*25.0*		*107*	*79.7-112*			
1,1-Dichloroethene	18.4	0.50	µg/L	20.0		91.8	70-130	1.94	20	
Benzene	15.8	0.50	µg/L	20.0		79.0	70-130	2.32	20	
Chlorobenzene	20.7	0.50	µg/L	20.0		103	70-130	1.39	20	
Toluene	17.1	0.50	µg/L	20.0		85.4	70-130	0.00	20	
Trichloroethene (TCE)	17.4	0.50	µg/L	20.0		87.2	70-130	3.00	20	
Matrix Spike (T8D1416-MS1)				Prepared & Analyzed: 04/14/08						
Surrogate: 4-Bromofluorobenzene	*25.5*		*µg/L*	*25.0*		*102*	*91.6-117*			*TW*
Surrogate: Dibromofluoromethane	*23.8*		*µg/L*	*25.0*		*95.1*	*85-125*			*TW*
Surrogate: Toluene-d8	*26.6*		*µg/L*	*25.0*		*106*	*79.7-112*			*TW*
1,1-Dichloroethene	16.1	0.50	µg/L	20.0		80.3	70-130		20	TW
Benzene	17.4	0.50	µg/L	20.0		87.2	70-130		20	TW
Chlorobenzene	21.2	0.50	µg/L	20.0		106	70-130		20	TW
Toluene	17.7	0.50	µg/L	20.0		88.4	70-130		20	TW
Trichloroethene (TCE)	16.0	0.50	µg/L	20.0		80.1	70-130		20	TW

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	05/05/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8D1416										
Matrix Spike Dup (T8D1416-MSD1)				Prepared & Analyzed: 04/14/08						
Surrogate: 4-Bromofluorobenzene	*25.2*		*µg/L*	*25.0*		*101*	*91.6-117*			*TW*
Surrogate: Dibromofluoromethane	*23.9*		*µg/L*	*25.0*		*95.4*	*85-125*			*TW*
Surrogate: Toluene-d8	*26.9*		*µg/L*	*25.0*		*107*	*79.7-112*			*TW*
1,1-Dichloroethene	16.0	0.50	µg/L	20.0		80.0	70-130		20	TW
Benzene	16.1	0.50	µg/L	20.0		80.5	70-130		20	TW
Chlorobenzene	21.0	0.50	µg/L	20.0		105	70-130		20	TW
Toluene	16.5	0.50	µg/L	20.0		82.4	70-130		20	TW
Trichloroethene (TCE)	16.2	0.50	µg/L	20.0		81.1	70-130		20	TW

MOORE TWINING ASSOCIATES, INC.
ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8J01003
PAGE 1 OF 3

REPORT TO:
ATTENTION: Mike McColm
NAME: City of Fresno WMD
ADDRESS: 5607 W. Jensen
Fresno, CA 93706
PHONE: 621-5100
FAX: 498-1700

☐ INVOICE TO: ☐ REPORT COPY TO:
ATTENTION:
NAME: INFLUENT ANNUAL SAMPLING
ADDRESS:
PHONE:
FAX:

REPORTING:
☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Agency
☐ OTHER:

SAMPLE INFORMATION
SAMPLED BY (PRINT): City of Fresno WMD staff
SIGNATURE:
☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT
TURN AROUND TIME: ☐ RUSH, DUE ON:
☒ STANDARD

SAMPLE TYPES:
SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID
LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION
CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

LAB USE
NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION
19.4

ANALYSIS REQUESTED

CLIENT SAMPLE ID	DATE	TIME	TYPE	EPA 8280 (Dioxin)										
09308501	9-30-08	0005 0600 1200 1800	WW	X										1LAGTH10 (sub)

COMMENTS/ADDITIONAL INSTRUCTIONS:
W.O. # 0015 - Influent
Dioxin - 2,3,7,8-TCDD only per TomA JHB 10/1/08
A composite of 4 grabs. (0005, 0600, 1200, 1800 hrs.)

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
JC	City of Fresno	10-1-08	0850	ar	MTA

RECEIVED

NOV 18 2008

Wastewater Management

MOORE TWINING ASSOCIATES, INC.
EST. 1898
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
Office: (559) 268-7021
Fax: (559) 268-0740

Analytical Chemistry Division

November 7, 2008

RECEIVED NOV 2008 WASTEWATER LAB

entered into LIMS 10-6-08

Work Order #: 8J01003

Mike McColm
Fresno City Waste Water Treatment Plant
5607 West Jensen Ave.
Fresno, CA 93706

RE: Bid File #8846

Enclosed are the analytical results for samples received by our laboratory on 10/01/08. For your reference, these analyses have been assigned laboratory work order number 8J01003.

Please find enclosed the official letter of documentation for the Dioxin analysis from the subcontracted laboratory, which was received at our laboratory on 11/06/08.

All analyses have been performed according to our subcontractor laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results only apply to samples analyzed.

If you have any questions, Please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Ronald J. Boquist
Director of Analytical Chemistry

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Blank Analysis Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	BLANK 101308	Matrix	Water
Filename	101708_10170810	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	10/13/2008
ICAL Date	10/17/2008	Analyzed	10/18/2008 00:06
CCal Filename(s)	101708_10170804 & 101708_10170819	Injected By	JLJ

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	50.00	108
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	78

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Reporting Limit
LOD = Limit of Detection
P = Recovery outside of target range

E = PCDE Interference
I = Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1081989

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Analysis Results

Client - The Twining Laboratories, Inc.

Client's Sample ID	8J01003-01		
Lab Sample ID	1081989001		
Filename	101708_10170811		
Injected By	JLJ	Matrix	WATER
Total Amount Extracted	995 mL	Dilution	NA
% Moisture	NA	Collected	09/30/2008
ICAL Date	10/17/2008	Received	10/03/2008
CCal Filename(s)	101708_10170804 & 101708_10170819	Extracted	10/13/2008
Method Blank ID	BLANK 101308	Analyzed	10/18/2008 00:45

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	50.00	89
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	76

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
A =PRL based on signal to noise
J = Concentration detected is below the calibration range
* = See discussion

PRL = Pace Reporting Limit
LOD = Limit of Detection
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1081989

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Laboratory Control Spike Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	LCS 101308		
Filename	101708_10170808	Matrix	WATER
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	10/17/2008	Extracted	10/13/2008
CCal Filename(s)	101708_10170804 & 101708_10170819	Analyzed	10/17/2008 22:47
Method Blank ID	BLANK 101308	Injected By	JLJ

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	25.00	22.43	90	2,3,7,8-TCDD-13C	50.00	93
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	85

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the target recovery range of the method
X = Background subtracted value
NA = Not Applicable
NC = Not Calculated
I = Interference

Report No.....1081989

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Laboratory Control Spike Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	LCSD 101308		
Filename	101708_10170809	Matrix	WATER
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	10/17/2008	Extracted	10/13/2008
CCal Filename(s)	101708_10170804 & 101708_10170819	Analyzed	10/17/2008 23:27
Method Blank ID	BLANK 101308	Injected By	JLJ

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	25.00	25.23	101	2,3,7,8-TCDD-13C	50.00	87
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	80

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the target recovery range of the method
X = Background subtracted value
NA = Not Applicable
NC = Not Calculated
I = Interference

Report No.....1081989

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client	The Twining Laboratories, Inc.
Client Sample ID's	8J01003-01
Spike 1 ID	LCS 101308
Spike 1 Filename	101708_10170808
Spike 2 ID	LCSD 101308
Spike 2 Filename	101708_10170809

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	90	101	11.5

REC = Percent Recovered
RPD = The difference between the two values divided by the average

Report No.....1081989

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ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

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WORK ORDER #: 8J01003
PAGE 2 **OF** 3

REPORT TO:

ATTENTION: Mike McColm
NAME: City of Fresno WMD
ADDRESS: 5607 W. Jensen
Fresno, CA 93706
PHONE: 621-5100
FAX: 498-1700

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NAME:
ADDRESS:
PHONE:
FAX:

REPORTING:

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Agency
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): City of Fresno WMD staff
SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☒ STANDARD ☐ RUSH, DUE ON:

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

CLIENT SAMPLE ID	DATE	TIME	TYPE	EPA 608	EPA 625	EPA 624	Cyanide							
09308502	9-30-08	0005 0600 1200 1800	WW	X										1LAGB
09308503		0005 0600 1200 1800			X									1LAGTHB
09308504		0005				X								3XVOA HCL
09308505		0600				X								
09308506		1200				X								
09308507		1800				X								
0930851		0005					X							250P NaOH
0930852		0600					X							
09308 53		1200					X							
0930854		1800					X							

COMMENTS/ADDITIONAL INSTRUCTIONS:
W.O. # 0015 - Influent
09308502, 09308503 are composites of four grabs (0005, 0600, 1200, 1800 hrs)

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
JC	City of Fresno	10-1-08	0850	AP	MTA

MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8J01003
PAGE 3 OF 3

REPORT TO:

ATTENTION: Mike McCalm
NAME: City of Fresno WMD
ADDRESS: 5607 W. Jensen
Fresno, CA 93706
PHONE: 621-5100
FAX: 498-1700

☐ **INVOICE TO:** ☐ **REPORT COPY TO:**

ATTENTION:
NAME:
ADDRESS:
PHONE:
FAX:

REPORTING:

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Agency
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): City of Fresno WMD staff
SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
☒ STANDARD

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

CLIENT SAMPLE ID	DATE	TIME	TYPE	EPA 1664A
09308101	9-30-08	0005	WW	X
09308102	↓	0600	↓	X
09308103	↓	1200	↓	X
09308104	↓	1800	↓	X

LAGHCL

COMMENTS/ADDITIONAL INSTRUCTIONS: W.O. # 0015 · Influent

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
[illegible]	City of Fresno	10-1-08	0858	[illegible]	MTA

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

October 16, 2008

Work Order #: 8J01003

Mike McColm
Fresno City Waste Water Treatment Plant
5607 West Jensen Avenue
Fresno, CA 93706

RE: Analytical Services 2007/2008

Enclosed are the analytical results for samples received by our laboratory on 10/01/08 . For your reference, these analyses have been assigned laboratory work order number 8J01003.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Ronald J. Boquist
Director of Analytical Chemistry

RECEIVED
OCT 23 2008
Wastewater Managemen

10-23-08
DATA ENTERED

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
09308502	8J01003-02	Waste Water	09/30/08 18:00	10/01/08 08:50
09308503	8J01003-03	Waste Water	09/30/08 18:00	10/01/08 08:50
09308504	8J01003-04	Waste Water	09/30/08 00:05	10/01/08 08:50
09308505	8J01003-05	Waste Water	09/30/08 06:00	10/01/08 08:50
09308506	8J01003-06	Waste Water	09/30/08 12:00	10/01/08 08:50
09308507	8J01003-07	Waste Water	09/30/08 18:00	10/01/08 08:50
0930851	8J01003-08	Waste Water	09/30/08 00:05	10/01/08 08:50
0930852	8J01003-09	Waste Water	09/30/08 06:00	10/01/08 08:50
0930853	8J01003-10	Waste Water	09/30/08 12:00	10/01/08 08:50
0930854	8J01003-11	Waste Water	09/30/08 18:00	10/01/08 08:50
09308101	8J01003-12	Waste Water	09/30/08 00:05	10/01/08 08:50
09308102	8J01003-13	Waste Water	09/30/08 06:00	10/01/08 08:50
09308103	8J01003-14	Waste Water	09/30/08 12:00	10/01/08 08:50
09308104	8J01003-15	Waste Water	09/30/08 18:00	10/01/08 08:50

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California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308502

8J01003-02 (Waste Water) Sampled:09/30/08 18:00

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics										
4,4´-DDD		ND	0.0500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
4,4´-DDE		**0.180**	0.0500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
4,4´-DDT		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aldrin		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
alpha-BHC		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
alpha-Chlordane		ND	2.00	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1016		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1221		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1232		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1242		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1248		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1254		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1260		ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
beta-BHC		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
delta-BHC		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Dieldrin		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan I		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan II		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan sulfate		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin aldehyde		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin ketone		ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
gamma-BHC (Lindane)		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
gamma-Chlordane		ND	2.00	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Heptachlor		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Heptachlor epoxide		ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Toxaphene		ND	0.200	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Surrogate: Decachlorobiphenyl (DCB)			*78.5 %*	*70-130*		*T8J0220*	*10/02/08*	*10/03/08*	*EPA 608*	
Surrogate: Tetrachloro-meta-xylene (TMX)	SI		*170 %*	*70-130*		*T8J0220*	*10/02/08*	*10/03/08*	*EPA 608*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308503

8J01003-03 (Waste Water) Sampled:09/30/08 18:00

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics										
1,2,4-Trichlorobenzene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
1,2-Dichlorobenzene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
1,2-Diphenylhydrazine	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
1,3-Dichlorobenzene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
1,4-Dichlorobenzene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,4,5-Trichlorophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,4,6-Trichlorophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dichlorophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dimethylphenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dinitrophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dinitrotoluene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,6-Dichlorophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2,6-Dinitrotoluene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2-Chloronaphthalene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2-Chlorophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2-Methylnaphthalene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2-Methylphenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2-Nitroaniline	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
2-Nitrophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
3,3′-Dichlorobenzidine	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
3-Nitroaniline	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4,6-Dinitro-2-methylphenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Bromophenyl phenyl ether	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chloro-3-methylphenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chloroaniline	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chlorophenyl phenyl ether	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Methylphenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Nitroaniline	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
4-Nitrophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
7,12-Dimethylbenz(a)anthracene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Acenaphthene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Acenaphthylene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Aldrin	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	

MOORE TWINING ASSOCIATES, INC.
EST. 1894
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308503

8J01003-03 (Waste Water) Sampled:09/30/08 18:00

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics										
alpha-BHC	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Aniline	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Anthracene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzidine	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (a) anthracene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (b) fluoranthene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (g,h,i) perylene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (k) fluoranthene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo(a)pyrene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzoic acid	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Benzyl alcohol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
beta-BHC	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroethoxy)methane	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroethyl)ether	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroisopropyl)ether	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-ethylhexyl) phthalate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Butyl benzyl phthalate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Chrysene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
DDD	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
DDE	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
DDT	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
delta-BHC	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Dibenz (a,h) anthracene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Dibenzofuran	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Dieldrin	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Diethyl phthalate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Dimethyl phthalate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Di-n-butyl phthalate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Di-n-octyl phthalate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan I	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan II	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan sulfate	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Endrin	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308503

8J01003-03 (Waste Water) Sampled:09/30/08 18:00

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics										
Endrin aldehyde	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Endrin ketone	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Fluoranthene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Fluorene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
gamma-BHC (Lindane)	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Heptachlor	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Heptachlor epoxide	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorobenzene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorobutadiene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorocyclopentadiene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachloroethane	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Indeno(1,2,3-cd)pyrene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Isophorone	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Naphthalene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Nitrobenzene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodimethylamine	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodi-n-propylamine	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodiphenylamine	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Pentachlorophenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Phenanthrene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Phenol	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Pyrene	D3	ND	500	µg/L	5	T8J0601	10/06/08	10/08/08	EPA 625	
Surrogate: 2,4,6-Tribromophenol			*83.8 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl			*72.8 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: 2-Fluorophenol			*42.4 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: d14-Terphenyl			*107 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: Nitrobenzene-d5			*66.5 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: Phenol-d5			*32.4 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308504

8J01003-04 (Waste Water) Sampled:09/30/08 00:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	**0.56**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon Tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**4.3**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	**1.6**	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	**2.7**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
EST. 1894
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308504

8J01003-04 (Waste Water) Sampled:09/30/08 00:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*93.4 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*97.2 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*103 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308505

8J01003-05 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon Tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**5.6**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	**2.8**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308505

8J01003-05 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*98.0 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*103 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

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California ELAP Certificate #1371

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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308506

8J01003-06 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	**0.69**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon Tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**4.1**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	**0.59**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	**3.7**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308506

8J01003-06 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Xylenes	**1.0**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*100 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*104 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

MOORE TWINING ASSOCIATES, INC.
EST. 1898
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308507

8J01003-07 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	**0.60**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon Tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**4.1**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	**0.98**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	**4.8**	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	**0.64**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	**2.9**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308507

8J01003-07 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Xylenes	**1.6**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*98.1 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*103 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930851

8J01003-08 (Waste Water) Sampled:09/30/08 00:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930852

8J01003-09 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

0930853

8J01003-10 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930854

8J01003-11 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308101

8J01003-12 (Waste Water) Sampled:09/30/08 00:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	**56**	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308102

8J01003-13 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	**45**	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308103

8J01003-14 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	**50**	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308104

8J01003-15 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	**56**	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

Notes and Definitions

SI	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
D3	Sample was diluted due to the dark and viscous nature of this sample's extract.
ug/L	micrograms per liter (parts per billion concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
mg/L	milligrams per Liter (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0214										
Blank (T8J0214-BLK1)				Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	ND	5.0	µg/L							
LCS (T8J0214-BS1)				Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	48.1	5.0	µg/L	50.0		96.2	80-120		20	
LCS Dup (T8J0214-BSD1)				Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	49.3	5.0	µg/L	50.0		98.6	80-120	2.46	20	
Matrix Spike (T8J0214-MS1)		**Source: 8I26005-02**		Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	42.9	5.0	µg/L	50.0	ND	85.8	80-120		20	
Matrix Spike Dup (T8J0214-MSD1)		**Source: 8I26005-02**		Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	46.3	5.0	µg/L	50.0	ND	92.6	80-120	7.62	20	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0220										
Blank (T8J0220-BLK1)				Prepared & Analyzed: 10/02/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.940*		*µg/L*	*1.00*		*94.0*	*70-130*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.835*		*µg/L*	*1.00*		*83.5*	*70-130*			
4,4′-DDD	ND	0.0500	µg/L							
4,4′-DDE	ND	0.0500	µg/L							
4,4′-DDT	ND	0.0100	µg/L							
Aldrin	ND	0.100	µg/L							
alpha-BHC	ND	0.100	µg/L							
alpha-Chlordane	ND	2.00	µg/L							
Aroclor-1016	ND	0.500	µg/L							
Aroclor-1221	ND	0.500	µg/L							
Aroclor-1232	ND	0.500	µg/L							
Aroclor-1242	ND	0.500	µg/L							
Aroclor-1248	ND	0.500	µg/L							
Aroclor-1254	ND	0.500	µg/L							
Aroclor-1260	ND	0.500	µg/L							
beta-BHC	ND	0.100	µg/L							
delta-BHC	ND	0.100	µg/L							
Dieldrin	ND	0.0100	µg/L							
Endosulfan I	ND	0.100	µg/L							
Endosulfan II	ND	0.0100	µg/L							
Endosulfan sulfate	ND	0.0100	µg/L							
Endrin	ND	0.0100	µg/L							
Endrin aldehyde	ND	0.0100	µg/L							
Endrin ketone	ND	0.0100	µg/L							
gamma-BHC (Lindane)	ND	0.100	µg/L							
gamma-Chlordane	ND	2.00	µg/L							
Heptachlor	ND	0.100	µg/L							
Heptachlor epoxide	ND	0.100	µg/L							
Toxaphene	ND	0.200	µg/L							
LCS (T8J0220-BS1)				Prepared: 10/02/08 Analyzed: 10/03/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.925*		*µg/L*	*1.00*		*92.5*	*70-130*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.905*		*µg/L*	*1.00*		*90.5*	*70-130*			
Dieldrin	1.16	0.0100	µg/L	1.25		92.4	70-130		20	
Endrin	1.28	0.0100	µg/L	1.25		102	70-130		20	
gamma-BHC (Lindane)	1.14	0.100	µg/L	1.25		91.2	70-130		20	
Heptachlor	1.18	0.100	µg/L	1.25		94.0	70-130		20	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0220										
LCS Dup (T8J0220-BSD1)				Prepared: 10/02/08 Analyzed: 10/03/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.985*		*µg/L*	*1.00*		*98.5*	*70-130*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.910*		*µg/L*	*1.00*		*91.0*	*70-130*			
Dieldrin	1.18	0.0100	µg/L	1.25		94.8	70-130	2.56	20	
Endrin	1.34	0.0100	µg/L	1.25		107	70-130	4.58	20	
gamma-BHC (Lindane)	1.17	0.100	µg/L	1.25		93.6	70-130	2.60	20	
Heptachlor	1.20	0.100	µg/L	1.25		96.0	70-130	2.11	20	
Batch T8J0601										
Blank (T8J0601-BLK1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Surrogate: 2,4,6-Tribromophenol	*92.2*		*µg/L*	*100*		*92.2*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*37.9*		*µg/L*	*50.0*		*75.9*	*10-200*			
Surrogate: 2-Fluorophenol	*66.1*		*µg/L*	*100*		*66.1*	*10-200*			
Surrogate: d14-Terphenyl	*54.3*		*µg/L*	*50.0*		*109*	*10-200*			
Surrogate: Nitrobenzene-d5	*38.8*		*µg/L*	*50.0*		*77.6*	*10-200*			
Surrogate: Phenol-d5	*51.6*		*µg/L*	*100*		*51.6*	*10-200*			
1,2,4-Trichlorobenzene	ND	10	µg/L							
1,2-Dichlorobenzene	ND	10	µg/L							
1,2-Diphenylhydrazine	ND	10	µg/L							
1,3-Dichlorobenzene	ND	10	µg/L							
1,4-Dichlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dichlorophenol	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
2-Methylnaphthalene	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
3,3'-Dichlorobenzidine	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0601										
Blank (T8J0601-BLK1)				Prepared: 10/06/08 Analyzed: 10/08/08						
4-Bromophenyl phenyl ether	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chlorophenyl phenyl ether	ND	10	µg/L							
4-Methylphenol	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L							
Acenaphthene	ND	10	µg/L							
Acenaphthylene	ND	10	µg/L							
Aldrin	ND	10	µg/L							
alpha-BHC	ND	10	µg/L							
Aniline	ND	10	µg/L							
Anthracene	ND	10	µg/L							
Benzidine	ND	10	µg/L							
Benzo (a) anthracene	ND	10	µg/L							
Benzo (b) fluoranthene	ND	10	µg/L							
Benzo (g,h,i) perylene	ND	10	µg/L							
Benzo (k) fluoranthene	ND	10	µg/L							
Benzo(a)pyrene	ND	10	µg/L							
Benzoic acid	ND	10	µg/L							
Benzyl alcohol	ND	10	µg/L							
beta-BHC	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-ethylhexyl) phthalate	ND	10	µg/L							
Butyl benzyl phthalate	ND	10	µg/L							
Chrysene	ND	10	µg/L							
DDD	ND	10	µg/L							
DDE	ND	10	µg/L							
DDT	ND	10	µg/L							
delta-BHC	ND	10	µg/L							
Dibenz (a,h) anthracene	ND	10	µg/L							
Dibenzofuran	ND	10	µg/L							
Dieldrin	ND	10	µg/L							
Diethyl phthalate	ND	10	µg/L							

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0601										
Blank (T8J0601-BLK1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Dimethyl phthalate	ND	10	µg/L							
Di-n-butyl phthalate	ND	10	µg/L							
Di-n-octyl phthalate	ND	10	µg/L							
Endosulfan I	ND	10	µg/L							
Endosulfan II	ND	10	µg/L							
Endosulfan sulfate	ND	10	µg/L							
Endrin	ND	10	µg/L							
Endrin aldehyde	ND	10	µg/L							
Endrin ketone	ND	10	µg/L							
Fluoranthene	ND	10	µg/L							
Fluorene	ND	10	µg/L							
gamma-BHC (Lindane)	ND	10	µg/L							
Heptachlor	ND	10	µg/L							
Heptachlor epoxide	ND	10	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	10	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	10	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	10	µg/L							
LCS (T8J0601-BS1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Surrogate: 2,4,6-Tribromophenol	*97.7*		*µg/L*	*100*		*97.7*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*36.5*		*µg/L*	*50.0*		*73.1*	*10-200*			
Surrogate: 2-Fluorophenol	*70.4*		*µg/L*	*100*		*70.4*	*10-200*			
Surrogate: d14-Terphenyl	*52.0*		*µg/L*	*50.0*		*104*	*10-200*			
Surrogate: Nitrobenzene-d5	*38.5*		*µg/L*	*50.0*		*77.0*	*10-200*			
Surrogate: Phenol-d5	*55.8*		*µg/L*	*100*		*55.8*	*10-200*			
1,2,4-Trichlorobenzene	30.5	10	µg/L	50.0		61.1	10-200		20	

MOORE TWINING ASSOCIATES, INC.
EST. 1898
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0601										
LCS (T8J0601-BS1)				Prepared: 10/06/08 Analyzed: 10/08/08						
1,4-Dichlorobenzene	27.1	10	µg/L	50.0		54.2	10-200		20	
2,4-Dinitrotoluene	41.1	10	µg/L	50.0		82.3	10-200		20	
2-Chlorophenol	82.7	10	µg/L	100		82.3	10-200		20	
4-Chloro-3-methylphenol	95.3	10	µg/L	100		94.8	10-200		20	
Acenaphthene	38.9	10	µg/L	50.0		77.9	10-200		20	
N-Nitrosodi-n-propylamine	35.2	10	µg/L	50.0		70.3	10-200		20	
Phenol	52.0	10	µg/L	100		51.8	10-200		20	
Pyrene	42.9	10	µg/L	50.0		85.8	10-200		20	
LCS Dup (T8J0601-BSD1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Surrogate: 2,4,6-Tribromophenol	*91.4*		*µg/L*	*100*		*91.4*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*41.2*		*µg/L*	*50.0*		*82.5*	*10-200*			
Surrogate: 2-Fluorophenol	*69.0*		*µg/L*	*100*		*69.0*	*10-200*			
Surrogate: d14-Terphenyl	*53.4*		*µg/L*	*50.0*		*107*	*10-200*			
Surrogate: Nitrobenzene-d5	*44.4*		*µg/L*	*50.0*		*88.7*	*10-200*			
Surrogate: Phenol-d5	*55.2*		*µg/L*	*100*		*55.2*	*10-200*			
1,2,4-Trichlorobenzene	34.7	10	µg/L	50.0		69.3	10-200	12.7	20	
1,4-Dichlorobenzene	32.7	10	µg/L	50.0		65.4	10-200	18.8	20	
2,4-Dinitrotoluene	44.8	10	µg/L	50.0		89.7	10-200	8.58	20	
2-Chlorophenol	80.8	10	µg/L	100		80.4	10-200	2.40	20	
4-Chloro-3-methylphenol	89.1	10	µg/L	100		88.7	10-200	6.68	20	
Acenaphthene	45.0	10	µg/L	50.0		90.0	10-200	14.4	20	
N-Nitrosodi-n-propylamine	39.2	10	µg/L	50.0		78.4	10-200	10.9	20	
Phenol	50.9	10	µg/L	100		50.6	10-200	2.24	20	
Pyrene	46.5	10	µg/L	50.0		93.0	10-200	8.01	20	
Batch T8J0909										
Blank (T8J0909-BLK1)				Prepared: 10/09/08 Analyzed: 10/14/08						
Total Oil & Grease (HEM)	ND	10	mg/L							
LCS (T8J0909-BS1)				Prepared: 10/09/08 Analyzed: 10/14/08						
Total Oil & Grease (HEM)	36.4	10	mg/L	40.8		89.3	70-130		20	
LCS Dup (T8J0909-BSD1)				Prepared: 10/09/08 Analyzed: 10/14/08						
Total Oil & Grease (HEM)	37.8	10	mg/L	40.8		92.8	70-130	3.77	20	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0610										
Blank (T8J0610-BLK1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Surrogate: 4-Bromofluorobenzene	*23.8*		*µg/L*	*25.0*		*95.4*	*70-130*			
Surrogate: Dibromofluoromethane	*25.9*		*µg/L*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*25.3*		*µg/L*	*25.0*		*101*	*70-130*			
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethene	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Acrolein	ND	10	µg/L							
Benzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
Dibromochloromethane	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
m,p-Xylene	ND	0.50	µg/L							
Methylene chloride	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Tetrachloroethene (PCE)	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
trans-1,2-Dichloroethene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Trichloroethene (TCE)	ND	0.50	µg/L							
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L							

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0610										
Blank (T8J0610-BLK1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Vinyl chloride	ND	0.50	µg/L							
Xylenes	ND	0.50	µg/L							
LCS (T8J0610-BS1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Surrogate: 4-Bromofluorobenzene	*23.9*		*µg/L*	*25.0*		*95.5*	*70-130*			
Surrogate: Dibromofluoromethane	*26.0*		*µg/L*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*25.1*		*µg/L*	*25.0*		*101*	*70-130*			
1,1-Dichloroethene	19.3	0.50	µg/L	20.0		96.7	70-130		20	
Benzene	18.0	0.50	µg/L	20.0		90.0	70-130		20	
Chlorobenzene	19.8	0.50	µg/L	20.0		99.0	70-130		20	
Toluene	17.9	0.50	µg/L	20.0		89.3	70-130		20	
Trichloroethene (TCE)	18.0	0.50	µg/L	20.0		89.8	70-130		20	
LCS Dup (T8J0610-BSD1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Surrogate: 4-Bromofluorobenzene	*23.1*		*µg/L*	*25.0*		*92.3*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		*µg/L*	*25.0*		*96.9*	*70-130*			
Surrogate: Toluene-d8	*25.6*		*µg/L*	*25.0*		*103*	*70-130*			
1,1-Dichloroethene	17.8	0.50	µg/L	20.0		89.0	70-130	8.29	20	
Benzene	18.1	0.50	µg/L	20.0		90.4	70-130	0.443	20	
Chlorobenzene	20.1	0.50	µg/L	20.0		101	70-130	1.65	20	
Toluene	18.0	0.50	µg/L	20.0		89.8	70-130	0.614	20	
Trichloroethene (TCE)	18.0	0.50	µg/L	20.0		89.8	70-130	0.0557	20	

MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8J01004
PAGE 1 OF 3

REPORT TO:

ATTENTION: Mike McColm
NAME: City of Fresno WMD
ADDRESS: 5607 W. Jensen
Fresno, CA 93706
PHONE: 621-5100
FAX: 498-1700

☐ INVOICE TO: ☐ REPORT COPY TO:

ATTENTION:
NAME: EFFLUENT ANNUAL SAMPLING
ADDRESS:
PHONE:
FAX:

REPORTING:

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Agency
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): City of Fresno WMD staff
SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
☒ STANDARD

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:

☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION
19.4

CLIENT SAMPLE ID	DATE	TIME	TYPE	EPA 8280 (Dioxin)									
09308508 Rep1	9-30-08	0600 1200 1800 2355	WW	X									ILAGTH10
09308508 Rep2	9-30-08	0600 1200 1800 2355	WW	X									

COMMENTS/ADDITIONAL INSTRUCTIONS:
W.O. # 0027 2" AB effluent
A composite of four grabs - (0600, 1200, 1800, 2355 hrs)
Dioxin = 2,3,7,8 - TCDD only per TVm H JHB 10/6/08

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
JC	City of Fresno	10-1-08	0850	ap	MTA

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www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DETERMINATION OF 2,3,7,8-TCDD

Prepared for:
The Twining Laboratories, Inc.
Attn: Andrea Seruntine
2527 Fresno Street
Fresno, CA 93721

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The results relate only to the samples included in this report.

Project: TCDD Analysis

Pace Project ID: 1081898

Client Project Number: 8J01004

Client Purchase Order Number: 5803

REPORT OF LABORATORY ANALYSIS

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nelac

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REPORT OF: TCDD ANALYSES

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

PROJECT: **TCDD ANALYSES**

DATE: October 17, 2008

ISSUED TO: The Twining Laboratories, Inc.
Attn: Andrea Seruntine
2527 Fresno Street
Fresno, CA 93721

REPORT NO: 08-1081898

INTRODUCTION

This report presents the results from the analyses performed on two samples submitted by a representative of The Twining Laboratories, Inc. The samples were analyzed for the presence or absence of 2,3,7,8-tetrachlorinated dibenzo-p-dioxin (TCDD) using USEPA Method 8280.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	Pace ID
09308508 REP 1	Water	10/03/08	1081898001
09308508 REP 2	Water	10/03/08	1081898002

DISCUSSION

The isotopically-labeled TCDD internal standard in the sample extracts was recovered at 84-85%. All of the labeled standard recoveries obtained for this project were within the Method 8280 target ranges. Since the internal standards were added prior to extraction, the data were corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of 2,3,7,8-TCDD to the reporting limit. This indicates that the sample preparation procedures did not significantly impact the results of the field sample determinations.

REPORT OF LABORATORY ANALYSIS
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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

PROJECT: **TCDD ANALYSES**

DATE: October 17, 2008

REPORT NO: 08-1081898

DISCUSSION continued

Laboratory spike samples were also prepared with the sample batch by extracting laboratory water fortified with native standard. The native TCDD in the spiked samples was recovered at 88-102% with a relative percent difference of 14.7%. A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. These results indicate a high degree of accuracy for these determinations.

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Norman Hoffa

Norman Hoffa
Project Manager, Dioxins
(919) 596-1935

REPORT OF LABORATORY ANALYSIS
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nelac

1081898

SUBCONTRACT ORDER - Purchase Order # 5803

MOORE TWINING ASSOCIATES, INC

California ELAP Certification # 1371

MTA Project # 8J01004

Please reference these numbers on all reports and invoices:

We also request QC data be provided with final report. 1147

SENDING LABORATORY:

Moore Twining Associates, Inc.
2527 Fresno Street
Fresno, CA 93721
Phone: (559) 268-7021
Fax: (559) 268-0740
Project Manager: Andrea Seruntine

RECEIVING LABORATORY:

Pace Analytical - Minneapolis
1700 Elm Street #200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Sample Comments

Client Sample ID#: 09308508 Rep 1

MTA Sample ID: 8J01004-01 Matrix: Water Sampled: 09/30/08 23:55 Report Due to Client: 10/15/08

Requested Analysis: Dioxin (WW-Low Res) by 8280 (Sub) Holding time expires: 10/30/08 23:55

Containers Supplied:

1L Amber Glass w/ Thio
(A)

001

Client Sample ID#: 09308508 Rep 2

MTA Sample ID: 8J01004-02 Matrix: Water Sampled: 09/30/08 23:55 Report Due to Client: 10/15/08

Requested Analysis: Dioxin (WW-Low Res) by 8280 (Sub) Holding time expires: 10/30/08 23:55

Containers Supplied:

1L Amber Glass w/ Thio
(A)

002

Released By	Date	Received By	Date
Cinda Perry	10-2-08	Michelle Kruse Pace	10/3/08 0930

Temp = 4.5

Please fax copy of receipt with your assigned sample ID number to (559) 268-0740

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mare Twining Project # 1081898

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8613 9453 3103

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [X] no

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other _____ Temp Blank: Yes ____ No ✓

Thermometer Used 80344042, 179425 Type of Ice: Wet (Blue) None [ ] Samples on ice, cooling process has begun

Cooler Temperature 4.5 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MC 10/3/08

		Comments:
Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[ ] Yes [X] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[ ] Yes [X] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: Water		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	[ ] Yes [ ] No [X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	[ ] Yes [ ] No	Initial when completed MC 10/3/08 Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [ ] No [X] N/A	15.
Trip Blank Present:	[ ] Yes [ ] No [X] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Jim Brownfield Date/Time: ~~10/3/08 @~~ 10/6/08 @ 10:40 A.M.

Comments/ Resolution: ICDD only

Project Manager Review: NAH Date: 10/3/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.5, 5Aug2008

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Blank Analysis Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	BLANK 100308	Matrix	Water
Filename	100708_10070809	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	10/03/2008
ICAL Date	09/28/2008	Analyzed	10/07/2008 20:24
CCal Filename(s)	100708_10070803 & 100708_10070820	Injected By	JLJ

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	50.00	95
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	87

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Reporting Limit
LOD = Limit of Detection
P = Recovery outside of target range

E = PCDE Interference
I = Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1081898

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Analysis Results

Client - The Twining Laboratories, Inc.

Client's Sample ID	8J01004-01		
Lab Sample ID	1081898001		
Filename	100708_10070815		
Injected By	JLJ	Matrix	WATER
Total Amount Extracted	970 mL	Dilution	NA
% Moisture	NA	Collected	09/30/2008
ICAL Date	09/28/2008	Received	10/03/2008
CCal Filename(s)	100708_10070803 & 100708_10070820	Extracted	10/03/2008
Method Blank ID	BLANK 100308	Analyzed	10/08/2008 00:19

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	50.00	84
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	84

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
A =PRL based on signal to noise
J = Concentration detected is below the calibration range
* = See discussion

PRL = Pace Reporting Limit
LOD = Limit of Detection
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1081898

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Analysis Results

Client - The Twining Laboratories, Inc.

Client's Sample ID	8J01004-02		
Lab Sample ID	1081898002		
Filename	100708_10070816		
Injected By	JLJ	Matrix	WATER
Total Amount Extracted	990 mL	Dilution	NA
% Moisture	NA	Collected	09/30/2008
ICAL Date	09/28/2008	Received	10/03/2008
CCal Filename(s)	100708_10070803 & 100708_10070820	Extracted	10/03/2008
Method Blank ID	BLANK 100308	Analyzed	10/08/2008 00:59

Native Isomers	Conc ng/L	EMPC ng/L	PRL ng/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	50.00	85
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	83

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
A =PRL based on signal to noise
J = Concentration detected is below the calibration range
* = See discussion

PRL = Pace Reporting Limit
LOD = Limit of Detection
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Report No.....1081898

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Laboratory Control Spike Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	LCS 100308		
Filename	100708_10070807	Matrix	WATER
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	09/28/2008	Extracted	10/03/2008
CCal Filename(s)	100708_10070803 & 100708_10070820	Analyzed	10/07/2008 19:05
Method Blank ID	BLANK 100308	Injected By	JLJ

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	25.00	21.92	88	2,3,7,8-TCDD-13C	50.00	93
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	87

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the target recovery range of the method
X = Background subtracted value
NA = Not Applicable
NC = Not Calculated
I = Interference

Report No.....1081898

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8280 Laboratory Control Spike Results

Client - The Twining Laboratories, Inc.

Lab Sample ID	LCSD 100308		
Filename	100708_10070808	Matrix	WATER
Total Amount Extracted	1000 mL	Dilution	NA
ICAL Date	09/28/2008	Extracted	10/03/2008
CCal Filename(s)	100708_10070803 & 100708_10070820	Analyzed	10/07/2008 19:44
Method Blank ID	BLANK 100308	Injected By	JLJ

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	25.00	25.47	102	2,3,7,8-TCDD-13C	50.00	102
				Recovery Standard 1,2,3,4-TCDD-13C	50.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	25.00	96

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Outside the target recovery range of the method
X = Background subtracted value
NA = Not Applicable
NC = Not Calculated
I = Interference

Report No.....1081898

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client	The Twining Laboratories, Inc.
Client Sample ID's	8J01004-01, 8J01004-02
Spike 1 ID	LCS 100308
Spike 1 Filename	100708_10070807
Spike 2 ID	LCSD 100308
Spike 2 Filename	100708_10070808

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	88	102	14.7

REC = Percent Recovered
RPD = The difference between the two values divided by the average

Report No.....1081898

REPORT OF LABORATORY ANALYSIS

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MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8J01004
PAGE 2 **OF** 3

REPORT TO:

ATTENTION: Mike McCalm
NAME: City of Fresno WMD
ADDRESS: 5607 W. Jensen
Fresno, CA 93706
PHONE: 621-5100
FAX: 498-1700

☐ **INVOICE TO:**

ATTENTION:
NAME:
ADDRESS:
PHONE:
FAX:

☐ **REPORT COPY TO:**

REPORTING:

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Agency
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): City of Fresno WMD staff
SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☒ STANDARD ☐ RUSH, DUE ON:

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

CLIENT SAMPLE ID	DATE	TIME	TYPE	EPA 608	EPA 625	EPA 624	~~EPA~~ HAB Cyanide							
09308509 Rep1	9-30-08	0600 1200 1800 2355	WW	X										1LAG
09308509 Rep2		0600 1200 1800 2355		X										
09308510 Rep1		0600 1200 1800 2355			X									1LAG AMB
09308510 Rep2		0600 1200 1800 2355			X									
09308511 Rep1		0600				X								
09308511 Rep2		0600				X								
09308512		1200				X								3x VOA HCL
09308513		1800				X								
09308514		2355				X								
0930855 Rep1		0600					X							250 NaOH

COMMENTS/ADDITIONAL INSTRUCTIONS: W.O # 0027 2° AB effluent
09308509 Rep1 + Rep2, 09308510 Rep1 + Rep2 composite of four grabs (0600, 1200, 1800, 2355)

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
[illegible]	City of Fresno	10-1-08	0850	[illegible]	MTA

MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8J01004
PAGE 3 **OF** 3

REPORT TO:	☐ INVOICE TO:	☐ REPORT COPY TO:	REPORTING:
ATTENTION: Mike McColm	ATTENTION:		☐ STANDARD FORMAT
NAME: City of Fresno WMD	NAME:		☐ WRITE-ON (STATE FORM)
ADDRESS: 5607 W. Jensen	ADDRESS:		☐ GEOTRACKER/COELT (LUFT)
Fresno, CA 93706			☐ PDF ☐ SPREADSHEET
PHONE: 621-5100	PHONE:		☐ County DHS :
FAX: 498-1700	FAX:		☐ Environmental Health Agency
			☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): City of Fresno WMD staff
SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
☒ STANDARD

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

ANALYSIS REQUESTED

CLIENT SAMPLE ID	DATE	TIME	TYPE	Cyanide	EPA 1664A									
0930855 Rep 2	9-30-08	0600	WW	X										250 mL
09308 56		1200		X										
0930857		1800		X										
0930858		2355		X										
09308105 Rep1		0600			X									1L HCL
09308105 Rep2		0600			X									
09308106		1200			X									
09308107		1800			X									
09308108		2355			X									

COMMENTS/ADDITIONAL INSTRUCTIONS: W.O. # 0027 2°AB effluent

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
[signature]	City of Fresno	10-1-08	0850	[signature]	MTA

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

October 16, 2008

Work Order #: 8J01004

Mike McColm
Fresno City Waste Water Treatment Plant
5607 West Jensen Avenue
Fresno, CA 93706

RE: Analytical Services 2007/2008

Enclosed are the analytical results for samples received by our laboratory on 10/01/08 . For your reference, these analyses have been assigned laboratory work order number 8J01004.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Ronald J. Boquist
Director of Analytical Chemistry

RECEIVED
OCT 23 2008
Wastewater Management

Data Entered
10-23-08

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
09308509 Rep 1	8J01004-03	Waste Water	09/30/08 23:55	10/01/08 08:50
09308509 Rep 2	8J01004-04	Waste Water	09/30/08 23:55	10/01/08 08:50
09308510 Rep 1	8J01004-05	Waste Water	09/30/08 23:55	10/01/08 08:50
09308510 Rep 2	8J01004-06	Waste Water	09/30/08 23:55	10/01/08 08:50
09308511 Rep 1	8J01004-07	Waste Water	09/30/08 06:00	10/01/08 08:50
09308511 Rep 2	8J01004-08	Waste Water	09/30/08 06:00	10/01/08 08:50
09308512	8J01004-09	Waste Water	09/30/08 12:00	10/01/08 08:50
09308513	8J01004-10	Waste Water	09/30/08 18:00	10/01/08 08:50
09308514	8J01004-11	Waste Water	09/30/08 23:55	10/01/08 08:50
0930855 Rep 1	8J01004-12	Waste Water	09/30/08 06:00	10/01/08 08:50
0930855 Rep 2	8J01004-13	Waste Water	09/30/08 06:00	10/01/08 08:50
0930856	8J01004-14	Waste Water	09/30/08 12:00	10/01/08 08:50
0930857	8J01004-15	Waste Water	09/30/08 18:00	10/01/08 08:50
0930858	8J01004-16	Waste Water	09/30/08 23:55	10/01/08 08:50
09308105 Rep 1	8J01004-17	Waste Water	09/30/08 06:00	10/01/08 08:50
09308105 Rep 2	8J01004-18	Waste Water	09/30/08 06:00	10/01/08 08:50
09308106	8J01004-19	Waste Water	09/30/08 12:00	10/01/08 08:50
09308107	8J01004-20	Waste Water	09/30/08 18:00	10/01/08 08:50
09308108	8J01004-21	Waste Water	09/30/08 23:55	10/01/08 08:50

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California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308509 Rep 1

8J01004-03 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
4,4′-DDD	ND	0.0500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
4,4′-DDE	ND	0.0500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
4,4′-DDT	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aldrin	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
alpha-BHC	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
alpha-Chlordane	ND	2.00	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1016	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1221	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1232	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1242	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1248	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1254	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1260	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
beta-BHC	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
delta-BHC	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Dieldrin	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan I	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan II	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan sulfate	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin aldehyde	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin ketone	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
gamma-BHC (Lindane)	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
gamma-Chlordane	ND	2.00	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Heptachlor	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Heptachlor epoxide	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Toxaphene	ND	0.200	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Surrogate: Decachlorobiphenyl (DCB)		*102 %*	*70-130*		*T8J0220*	*10/02/08*	*10/03/08*	*EPA 608*	
Surrogate: Tetrachloro-meta-xylene (TMX)		*102 %*	*70-130*		*T8J0220*	*10/02/08*	*10/03/08*	*EPA 608*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308509 Rep 2

8J01004-04 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
4,4'-DDD	ND	0.0500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
4,4'-DDE	ND	0.0500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
4,4'-DDT	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aldrin	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
alpha-BHC	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
alpha-Chlordane	ND	2.00	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1016	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1221	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1232	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1242	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1248	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1254	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Aroclor-1260	ND	0.500	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
beta-BHC	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
delta-BHC	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Dieldrin	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan I	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan II	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endosulfan sulfate	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin aldehyde	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Endrin ketone	ND	0.0100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
gamma-BHC (Lindane)	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
gamma-Chlordane	ND	2.00	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Heptachlor	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Heptachlor epoxide	ND	0.100	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Toxaphene	ND	0.200	µg/L	1	T8J0220	10/02/08	10/03/08	EPA 608	
Surrogate: Decachlorobiphenyl (DCB)		*95.0 %*	*70-130*		*T8J0220*	*10/02/08*	*10/03/08*	*EPA 608*	
Surrogate: Tetrachloro-meta-xylene (TMX)		*84.5 %*	*70-130*		*T8J0220*	*10/02/08*	*10/03/08*	*EPA 608*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308510 Rep 1

8J01004-05 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
1,2,4-Trichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,2-Dichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,2-Diphenylhydrazine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,3-Dichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,4-Dichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4,5-Trichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4,6-Trichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dimethylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dinitrophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dinitrotoluene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,6-Dichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,6-Dinitrotoluene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Chloronaphthalene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Chlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Methylnaphthalene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Nitroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Nitrophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
3,3′-Dichlorobenzidine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
3-Nitroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Bromophenyl phenyl ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chloro-3-methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chloroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chlorophenyl phenyl ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Nitroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Nitrophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Acenaphthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Acenaphthylene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Aldrin	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308510 Rep 1

8J01004-05 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
alpha-BHC	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Aniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzidine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (a) anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (b) fluoranthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (g,h,i) perylene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (k) fluoranthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo(a)pyrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzoic acid	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzyl alcohol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
beta-BHC	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroethoxy)methane	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroethyl)ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-ethylhexyl) phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Butyl benzyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Chrysene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
DDD	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
DDE	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
DDT	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
delta-BHC	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dibenz (a,h) anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dibenzofuran	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dieldrin	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Diethyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dimethyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Di-n-butyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Di-n-octyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan I	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan II	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan sulfate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endrin	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	

MOORE TWINING ASSOCIATES, INC.
EST. 1898
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308510 Rep 1

8J01004-05 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Endrin aldehyde	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endrin ketone	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Fluoranthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Fluorene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
gamma-BHC (Lindane)	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Heptachlor	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Heptachlor epoxide	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorobutadiene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorocyclopentadiene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachloroethane	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Isophorone	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Naphthalene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Nitrobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodimethylamine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodiphenylamine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Pentachlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Phenanthrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Phenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Pyrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Surrogate: 2,4,6-Tribromophenol		*98.9 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl		*77.6 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: 2-Fluorophenol		*48.8 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: d14-Terphenyl		*97.2 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: Nitrobenzene-d5		*78.3 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: Phenol-d5		*34.9 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308510 Rep 2

8J01004-06 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics									
1,2,4-Trichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,2-Dichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,2-Diphenylhydrazine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,3-Dichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
1,4-Dichlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4,5-Trichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4,6-Trichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dimethylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dinitrophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,4-Dinitrotoluene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,6-Dichlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2,6-Dinitrotoluene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Chloronaphthalene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Chlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Methylnaphthalene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Nitroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
2-Nitrophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
3,3'-Dichlorobenzidine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
3-Nitroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Bromophenyl phenyl ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chloro-3-methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chloroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Chlorophenyl phenyl ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Methylphenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Nitroaniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
4-Nitrophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Acenaphthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Acenaphthylene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Aldrin	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308510 Rep 2

8J01004-06 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
alpha-BHC	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Aniline	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzidine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (a) anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (b) fluoranthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (g,h,i) perylene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo (k) fluoranthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzo(a)pyrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzoic acid	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Benzyl alcohol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
beta-BHC	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroethoxy)methane	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroethyl)ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Bis(2-ethylhexyl) phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Butyl benzyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Chrysene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
DDD	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
DDE	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
DDT	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
delta-BHC	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dibenz (a,h) anthracene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dibenzofuran	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dieldrin	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Diethyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Dimethyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Di-n-butyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Di-n-octyl phthalate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan I	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan II	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endosulfan sulfate	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endrin	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308510 Rep 2

8J01004-06 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Endrin aldehyde	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Endrin ketone	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Fluoranthene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Fluorene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
gamma-BHC (Lindane)	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Heptachlor	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Heptachlor epoxide	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorobutadiene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachlorocyclopentadiene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Hexachloroethane	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Isophorone	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Naphthalene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Nitrobenzene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodimethylamine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
N-Nitrosodiphenylamine	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Pentachlorophenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Phenanthrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Phenol	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Pyrene	ND	10	µg/L	1	T8J0601	10/06/08	10/08/08	EPA 625	
Surrogate: 2,4,6-Tribromophenol		*103 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: 2-Fluorobiphenyl		*88.4 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: 2-Fluorophenol		*55.1 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: d14-Terphenyl		*104 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: Nitrobenzene-d5		*89.5 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	
Surrogate: Phenol-d5		*38.5 %*	*10-200*		*T8J0601*	*10/06/08*	*10/08/08*	*EPA 625*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308511 Rep 1

8J01004-07 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,3-Trichloropropane (123TCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2,2-Dichloropropane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Chloroethylvinyl ether	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Hexanone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrolein	ND	10	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Allyl chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon disulfide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308511 Rep 1

8J01004-07 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Carbon tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**0.51**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroprene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,2-Dichloroethene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromomethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dichlorodifluoromethane (CFC-12)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Hexachlorobutadiene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Isobutyl alcohol	ND	20	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methacrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Ethyl Ketone (MEK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Iodide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Naphthalene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Propionitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Styrene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl acetate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308511 Rep 1

8J01004-07 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics									
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*98.5 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*104 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308511 Rep 2

8J01004-08 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,3-Trichloropropane (123TCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2,2-Dichloropropane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Chloroethylvinyl ether	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Hexanone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrolein	ND	10	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Allyl chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon disulfide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
EST. 1946
California ELAP Certificate #1371

2527 Fresno Street
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308511 Rep 2

8J01004-08 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Carbon tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroprene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,2-Dichloroethene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromomethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dichlorodifluoromethane (CFC-12)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Hexachlorobutadiene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Isobutyl alcohol	ND	20	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methacrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Ethyl Ketone (MEK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Iodide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Naphthalene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Propionitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Styrene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308511 Rep 2

8J01004-08 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Vinyl acetate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*95.9 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*97.2 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*102 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

MOORE TWINING ASSOCIATES, INC.
EST. 1898
California ELAP Certificate #1371

2527 Fresno Street
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(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308512

8J01004-09 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,3-Trichloropropane (123TCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2,2-Dichloropropane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Chloroethylvinyl ether	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Hexanone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrolein	ND	10	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Allyl chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon disulfide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308512

8J01004-09 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Carbon tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroprene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,2-Dichloroethene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromomethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dichlorodifluoromethane (CFC-12)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Hexachlorobutadiene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Isobutyl alcohol	ND	20	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methacrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Ethyl Ketone (MEK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Iodide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Naphthalene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Propionitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Styrene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308512

8J01004-09 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics									
Vinyl acetate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*94.9 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*97.6 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*102 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308513

8J01004-10 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,3-Trichloropropane (123TCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2,2-Dichloropropane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Chloroethylvinyl ether	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Hexanone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrolein	ND	10	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Allyl chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon disulfide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308513

8J01004-10 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Carbon tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**0.54**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroprene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,2-Dichloroethene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromomethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dichlorodifluoromethane (CFC-12)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Hexachlorobutadiene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Isobutyl alcohol	ND	20	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methacrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Ethyl Ketone (MEK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Iodide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Naphthalene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Propionitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Styrene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl acetate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308513

8J01004-10 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*92.3 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*97.4 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*104 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

MOORE TWINING ASSOCIATES, INC.
EST. 1894
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/16/08

09308514

8J01004-11 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,1-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,3-Trichloropropane (123TCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2,2-Dichloropropane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Chloroethylvinyl ether	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
2-Hexanone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetone	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acetonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrolein	ND	10	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Acrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Allyl chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Benzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromodichloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromoform	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Bromomethane	ND	2.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Carbon disulfide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308514

8J01004-11 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Carbon tetrachloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chlorobenzene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroform	**0.54**	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloromethane	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Chloroprene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,2-Dichloroethene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromochloromethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dibromomethane	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Dichlorodifluoromethane (CFC-12)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Ethylbenzene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Hexachlorobutadiene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Isobutyl alcohol	ND	20	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
m,p-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methacrylonitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Ethyl Ketone (MEK)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Iodide	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl Methacrylate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Methylene chloride	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Naphthalene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
o-Xylene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Propionitrile	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Styrene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Toluene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichloroethene (TCE)	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Trichlorofluoromethane (CFC-11)	ND	1.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Vinyl acetate	ND	5.0	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308514

8J01004-11 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Vinyl chloride	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Xylenes	ND	0.50	µg/L	1	T8J0610	10/06/08	10/07/08	EPA 624	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Dibromofluoromethane		*97.2 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	
Surrogate: Toluene-d8		*104 %*	*70-130*		*T8J0610*	*10/06/08*	*10/07/08*	*EPA 624*	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930855 Rep 1

8J01004-12 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930855 Rep 2

8J01004-13 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930856

8J01004-14 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/01/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930857

8J01004-15 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/02/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

0930858

8J01004-16 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0214	10/02/08	10/02/08	SM4500CN-E	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308105 Rep 1

8J01004-17 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	ND	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308105 Rep 2

8J01004-18 (Waste Water) Sampled:09/30/08 06:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	ND	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308106

8J01004-19 (Waste Water) Sampled:09/30/08 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	ND	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308107

8J01004-20 (Waste Water) Sampled:09/30/08 18:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	ND	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

09308108

8J01004-21 (Waste Water) Sampled:09/30/08 23:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Total Oil & Grease (HEM)	ND	10	mg/L	1	T8J0909	10/09/08	10/14/08	EPA 1664A	

Notes and Definitions

ug/L	micrograms per liter (parts per billion concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
mg/L	milligrams per Liter (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0214										
Blank (T8J0214-BLK1)				Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	ND	5.0	µg/L							
LCS (T8J0214-BS1)				Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	48.1	5.0	µg/L	50.0		96.2	80-120		20	
LCS Dup (T8J0214-BSD1)				Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	49.3	5.0	µg/L	50.0		98.6	80-120	2.46	20	
Matrix Spike (T8J0214-MS1)		**Source: 8I26005-02**		Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	42.9	5.0	µg/L	50.0	ND	85.8	80-120		20	
Matrix Spike Dup (T8J0214-MSD1)		**Source: 8I26005-02**		Prepared: 09/30/08	Analyzed: 10/02/08					
Cyanide (total)	46.3	5.0	µg/L	50.0	ND	92.6	80-120	7.62	20	

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0220										
Blank (T8J0220-BLK1)				Prepared & Analyzed: 10/02/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.940*		*µg/L*	*1.00*		*94.0*	*70-130*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.835*		*µg/L*	*1.00*		*83.5*	*70-130*			
4,4'-DDD	ND	0.0500	µg/L							
4,4'-DDE	ND	0.0500	µg/L							
4,4'-DDT	ND	0.0100	µg/L							
Aldrin	ND	0.100	µg/L							
alpha-BHC	ND	0.100	µg/L							
alpha-Chlordane	ND	2.00	µg/L							
Aroclor-1016	ND	0.500	µg/L							
Aroclor-1221	ND	0.500	µg/L							
Aroclor-1232	ND	0.500	µg/L							
Aroclor-1242	ND	0.500	µg/L							
Aroclor-1248	ND	0.500	µg/L							
Aroclor-1254	ND	0.500	µg/L							
Aroclor-1260	ND	0.500	µg/L							
beta-BHC	ND	0.100	µg/L							
delta-BHC	ND	0.100	µg/L							
Dieldrin	ND	0.0100	µg/L							
Endosulfan I	ND	0.100	µg/L							
Endosulfan II	ND	0.0100	µg/L							
Endosulfan sulfate	ND	0.0100	µg/L							
Endrin	ND	0.0100	µg/L							
Endrin aldehyde	ND	0.0100	µg/L							
Endrin ketone	ND	0.0100	µg/L							
gamma-BHC (Lindane)	ND	0.100	µg/L							
gamma-Chlordane	ND	2.00	µg/L							
Heptachlor	ND	0.100	µg/L							
Heptachlor epoxide	ND	0.100	µg/L							
Toxaphene	ND	0.200	µg/L							
LCS (T8J0220-BS1)				Prepared: 10/02/08 Analyzed: 10/03/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.925*		*µg/L*	*1.00*		*92.5*	*70-130*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.905*		*µg/L*	*1.00*		*90.5*	*70-130*			
Dieldrin	1.16	0.0100	µg/L	1.25		92.4	70-130		20	
Endrin	1.28	0.0100	µg/L	1.25		102	70-130		20	
gamma-BHC (Lindane)	1.14	0.100	µg/L	1.25		91.2	70-130		20	
Heptachlor	1.18	0.100	µg/L	1.25		94.0	70-130		20	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0220										
LCS Dup (T8J0220-BSD1)				Prepared: 10/02/08 Analyzed: 10/03/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.985*		*µg/L*	*1.00*		*98.5*	*70-130*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.910*		*µg/L*	*1.00*		*91.0*	*70-130*			
Dieldrin	1.18	0.0100	µg/L	1.25		94.8	70-130	2.56	20	
Endrin	1.34	0.0100	µg/L	1.25		107	70-130	4.58	20	
gamma-BHC (Lindane)	1.17	0.100	µg/L	1.25		93.6	70-130	2.60	20	
Heptachlor	1.20	0.100	µg/L	1.25		96.0	70-130	2.11	20	
Batch T8J0601										
Blank (T8J0601-BLK1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Surrogate: 2,4,6-Tribromophenol	*92.2*		*µg/L*	*100*		*92.2*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*37.9*		*µg/L*	*50.0*		*75.9*	*10-200*			
Surrogate: 2-Fluorophenol	*66.1*		*µg/L*	*100*		*66.1*	*10-200*			
Surrogate: d14-Terphenyl	*54.3*		*µg/L*	*50.0*		*109*	*10-200*			
Surrogate: Nitrobenzene-d5	*38.8*		*µg/L*	*50.0*		*77.6*	*10-200*			
Surrogate: Phenol-d5	*51.6*		*µg/L*	*100*		*51.6*	*10-200*			
1,2,4-Trichlorobenzene	ND	10	µg/L							
1,2-Dichlorobenzene	ND	10	µg/L							
1,2-Diphenylhydrazine	ND	10	µg/L							
1,3-Dichlorobenzene	ND	10	µg/L							
1,4-Dichlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dichlorophenol	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
2-Methylnaphthalene	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
3,3'-Dichlorobenzidine	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0601										
Blank (T8J0601-BLK1)				Prepared: 10/06/08 Analyzed: 10/08/08						
4-Bromophenyl phenyl ether	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chlorophenyl phenyl ether	ND	10	µg/L							
4-Methylphenol	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L							
Acenaphthene	ND	10	µg/L							
Acenaphthylene	ND	10	µg/L							
Aldrin	ND	10	µg/L							
alpha-BHC	ND	10	µg/L							
Aniline	ND	10	µg/L							
Anthracene	ND	10	µg/L							
Benzidine	ND	10	µg/L							
Benzo (a) anthracene	ND	10	µg/L							
Benzo (b) fluoranthene	ND	10	µg/L							
Benzo (g,h,i) perylene	ND	10	µg/L							
Benzo (k) fluoranthene	ND	10	µg/L							
Benzo(a)pyrene	ND	10	µg/L							
Benzoic acid	ND	10	µg/L							
Benzyl alcohol	ND	10	µg/L							
beta-BHC	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-ethylhexyl) phthalate	ND	10	µg/L							
Butyl benzyl phthalate	ND	10	µg/L							
Chrysene	ND	10	µg/L							
DDD	ND	10	µg/L							
DDE	ND	10	µg/L							
DDT	ND	10	µg/L							
delta-BHC	ND	10	µg/L							
Dibenz (a,h) anthracene	ND	10	µg/L							
Dibenzofuran	ND	10	µg/L							
Dieldrin	ND	10	µg/L							
Diethyl phthalate	ND	10	µg/L							

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0601										
Blank (T8J0601-BLK1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Dimethyl phthalate	ND	10	µg/L							
Di-n-butyl phthalate	ND	10	µg/L							
Di-n-octyl phthalate	ND	10	µg/L							
Endosulfan I	ND	10	µg/L							
Endosulfan II	ND	10	µg/L							
Endosulfan sulfate	ND	10	µg/L							
Endrin	ND	10	µg/L							
Endrin aldehyde	ND	10	µg/L							
Endrin ketone	ND	10	µg/L							
Fluoranthene	ND	10	µg/L							
Fluorene	ND	10	µg/L							
gamma-BHC (Lindane)	ND	10	µg/L							
Heptachlor	ND	10	µg/L							
Heptachlor epoxide	ND	10	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	10	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	10	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	10	µg/L							
LCS (T8J0601-BS1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Surrogate: 2,4,6-Tribromophenol	*97.7*		*µg/L*	*100*	*97.7*	*10-200*				
Surrogate: 2-Fluorobiphenyl	*36.5*		*µg/L*	*50.0*	*73.1*	*10-200*				
Surrogate: 2-Fluorophenol	*70.4*		*µg/L*	*100*	*70.4*	*10-200*				
Surrogate: d14-Terphenyl	*52.0*		*µg/L*	*50.0*	*104*	*10-200*				
Surrogate: Nitrobenzene-d5	*38.5*		*µg/L*	*50.0*	*77.0*	*10-200*				
Surrogate: Phenol-d5	*55.8*		*µg/L*	*100*	*55.8*	*10-200*				
1,2,4-Trichlorobenzene	30.5	10	µg/L	50.0	61.1	10-200		20		

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California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0601										
LCS (T8J0601-BS1)				Prepared: 10/06/08 Analyzed: 10/08/08						
1,4-Dichlorobenzene	27.1	10	µg/L	50.0		54.2	10-200		20	
2,4-Dinitrotoluene	41.1	10	µg/L	50.0		82.3	10-200		20	
2-Chlorophenol	82.7	10	µg/L	100		82.3	10-200		20	
4-Chloro-3-methylphenol	95.3	10	µg/L	100		94.8	10-200		20	
Acenaphthene	38.9	10	µg/L	50.0		77.9	10-200		20	
N-Nitrosodi-n-propylamine	35.2	10	µg/L	50.0		70.3	10-200		20	
Phenol	52.0	10	µg/L	100		51.8	10-200		20	
Pyrene	42.9	10	µg/L	50.0		85.8	10-200		20	
LCS Dup (T8J0601-BSD1)				Prepared: 10/06/08 Analyzed: 10/08/08						
Surrogate: 2,4,6-Tribromophenol	*91.4*		*µg/L*	*100*		*91.4*	*10-200*			
Surrogate: 2-Fluorobiphenyl	*41.2*		*µg/L*	*50.0*		*82.5*	*10-200*			
Surrogate: 2-Fluorophenol	*69.0*		*µg/L*	*100*		*69.0*	*10-200*			
Surrogate: d14-Terphenyl	*53.4*		*µg/L*	*50.0*		*107*	*10-200*			
Surrogate: Nitrobenzene-d5	*44.4*		*µg/L*	*50.0*		*88.7*	*10-200*			
Surrogate: Phenol-d5	*55.2*		*µg/L*	*100*		*55.2*	*10-200*			
1,2,4-Trichlorobenzene	34.7	10	µg/L	50.0		69.3	10-200	12.7	20	
1,4-Dichlorobenzene	32.7	10	µg/L	50.0		65.4	10-200	18.8	20	
2,4-Dinitrotoluene	44.8	10	µg/L	50.0		89.7	10-200	8.58	20	
2-Chlorophenol	80.8	10	µg/L	100		80.4	10-200	2.40	20	
4-Chloro-3-methylphenol	89.1	10	µg/L	100		88.7	10-200	6.68	20	
Acenaphthene	45.0	10	µg/L	50.0		90.0	10-200	14.4	20	
N-Nitrosodi-n-propylamine	39.2	10	µg/L	50.0		78.4	10-200	10.9	20	
Phenol	50.9	10	µg/L	100		50.6	10-200	2.24	20	
Pyrene	46.5	10	µg/L	50.0		93.0	10-200	8.01	20	
Batch T8J0909										
Blank (T8J0909-BLK1)				Prepared: 10/09/08 Analyzed: 10/14/08						
Total Oil & Grease (HEM)	ND	10	mg/L							
LCS (T8J0909-BS1)				Prepared: 10/09/08 Analyzed: 10/14/08						
Total Oil & Grease (HEM)	36.4	10	mg/L	40.8		89.3	70-130		20	
LCS Dup (T8J0909-BSD1)				Prepared: 10/09/08 Analyzed: 10/14/08						
Total Oil & Grease (HEM)	37.8	10	mg/L	40.8		92.8	70-130	3.77	20	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0610										
Blank (T8J0610-BLK1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Surrogate: 4-Bromofluorobenzene	*23.8*		*µg/L*	*25.0*		*95.4*	*70-130*			
Surrogate: Dibromofluoromethane	*25.9*		*µg/L*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*25.3*		*µg/L*	*25.0*		*101*	*70-130*			
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethene	ND	0.50	µg/L							
1,1-Dichloropropene	ND	5.0	µg/L							
1,2,3-Trichloropropane (123TCP)	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
2,2-Dichloropropane	ND	5.0	µg/L							
2-Chloroethylvinyl ether	ND	1.0	µg/L							
2-Hexanone	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Acetone	ND	5.0	µg/L							
Acetonitrile	ND	5.0	µg/L							
Acrolein	ND	10	µg/L							
Acrylonitrile	ND	5.0	µg/L							
Allyl chloride	ND	5.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromochloromethane	ND	5.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon disulfide	ND	5.0	µg/L							

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California ELAP Certificate #1371

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0610										
Blank (T8J0610-BLK1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Carbon tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
Chloroprene	ND	5.0	µg/L							
cis-1,2-Dichloroethene	ND	5.0	µg/L							
cis-1,3-Dichloropropene	ND	5.0	µg/L							
Dibromochloromethane	ND	5.0	µg/L							
Dibromomethane	ND	5.0	µg/L							
Dichlorodifluoromethane (CFC-12)	ND	1.0	µg/L							
Ethyl Methacrylate	ND	5.0	µg/L							
Ethylbenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	5.0	µg/L							
Isobutyl alcohol	ND	20	µg/L							
m,p-Xylene	ND	0.50	µg/L							
Methacrylonitrile	ND	5.0	µg/L							
Methyl Ethyl Ketone (MEK)	ND	5.0	µg/L							
Methyl Iodide	ND	5.0	µg/L							
Methyl Methacrylate	ND	5.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L							
Methylene chloride	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Propionitrile	ND	5.0	µg/L							
Styrene	ND	5.0	µg/L							
Tetrachloroethene (PCE)	ND	1.0	µg/L							
Toluene	ND	0.50	µg/L							
trans-1,2-Dichloroethene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L							
Trichloroethene (TCE)	ND	5.0	µg/L							
Trichlorofluoromethane (CFC-11)	ND	1.0	µg/L							
Vinyl acetate	ND	5.0	µg/L							
Vinyl chloride	ND	0.50	µg/L							
Xylenes	ND	0.50	µg/L							
LCS (T8J0610-BS1)				Prepared: 10/06/08 Analyzed: 10/07/08						

MOORE TWINING ASSOCIATES, INC.
EST. 1948
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/16/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0610										
LCS (T8J0610-BS1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Surrogate: 4-Bromofluorobenzene	*23.9*		*µg/L*	*25.0*		*95.5*	*70-130*			
Surrogate: Dibromofluoromethane	*26.0*		*µg/L*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*25.1*		*µg/L*	*25.0*		*101*	*70-130*			
1,1-Dichloroethene	19.3	0.50	µg/L	20.0		96.7	70-130		20	
Benzene	18.0	0.50	µg/L	20.0		90.0	70-130		20	
Chlorobenzene	19.8	0.50	µg/L	20.0		99.0	70-130		20	
Toluene	17.9	0.50	µg/L	20.0		89.3	70-130		20	
Trichloroethene (TCE)	18.0	5.0	µg/L	20.0		89.8	70-130		20	
LCS Dup (T8J0610-BSD1)				Prepared: 10/06/08 Analyzed: 10/07/08						
Surrogate: 4-Bromofluorobenzene	*23.1*		*µg/L*	*25.0*		*92.3*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		*µg/L*	*25.0*		*96.9*	*70-130*			
Surrogate: Toluene-d8	*25.6*		*µg/L*	*25.0*		*103*	*70-130*			
1,1-Dichloroethene	17.8	0.50	µg/L	20.0		89.0	70-130	8.29	20	
Benzene	18.1	0.50	µg/L	20.0		90.4	70-130	0.443	20	
Chlorobenzene	20.1	0.50	µg/L	20.0		101	70-130	1.65	20	
Toluene	18.0	0.50	µg/L	20.0		89.8	70-130	0.614	20	
Trichloroethene (TCE)	18.0	5.0	µg/L	20.0		89.8	70-130	0.0557	20	

MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 8J07007
PAGE ____ **OF** ____

REPORT TO:

ATTENTION: Mike McColm
NAME: City of Fresno, WMD
ADDRESS: 5607 W. Jensen Ave
Fresno, CA. 93706
PHONE: 621-5169
FAX: 498-1700

☐ **INVOICE TO:** ☐ **REPORT COPY TO:**

ATTENTION:
NAME: EFFLUENT PRIORITY POLLUTANT SAMPLING
ADDRESS:
PHONE:
FAX:

REPORTING:

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Agency
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT):
SIGNATURE:

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
☐ STANDARD

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID
LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.:
PROJECT:
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION
25.2°C

CLIENT SAMPLE ID	DATE	TIME	TYPE	8260	8270	8081	CN-	Cr6 (EPA 218.6)	TCDD (8280)	Asbestos				
0027PP	10-07-08	1040hr	WW											3X VOA HCl
														2X 1 AGE
														250 NaOH
														500 PE
														1 AG FH10
														1 AGBO

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
[signature]		10-7-08	11:45	[signature]	MTA

9.324

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

October 21, 2008

Work Order #: 8J07007

Mike McColm
Fresno City Waste Water Treatment Plant
5607 West Jensen Avenue
Fresno, CA 93706

RE: Analytical Services 2007/2008

Enclosed are the analytical results for samples received by our laboratory on 10/07/08 . For your reference, these analyses have been assigned laboratory work order number 8J07007.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Ronald J. Boquist
Director of Analytical Chemistry

Forensic Analytical Laboratories

ANALYSIS REPORT
ASBESTOS IN POTABLE WATER
Transmission Electron Microscopy*

Client:	Moore Twining Associates Inc	Page:	1 of 1
Contact:	Andrea Seruntine	Client Number:	2444
Street:	2527 Fresno Street	Report Number:	T015778
City/state/zip:	Fresno CA 93721	Date Received:	10/8/08

Site:	City of Fresno, AB Eff	Analyst(s):	RE
Job ID:	8J07007	Date Analyzed:	10/20/08
P.O. #:	5821	Date Reported:	10/20/08
Date/time collected:	10/7/08 1040		
Date/time filtered:	10/8/08 1750		
Hold time, hrs	<48		
Filter type:	MCE		
Pore size, μm	0.22		

ANALYTICAL RESULTS	
Client Sample Number	0027PP
MTA Sample ID	8J07007-01
System-Source Number	
Lab Sample Number	20061138
Volume filtered, mL	1.0
Filter area, mm2	190
Grid Opening Area, mm2	0.0086
Number of G.O.s Analyzed	10
Area analyzed, mm2	0.086
# Asbestos Fibers ≥10um	0
Analytical sensitivity, MFL	2.2
Asbestos Concentration, ≥10um in length, MFL	**<2.2**
Asbestos Type(s) Detected**	**ND**
95% Upper Conf. Limit, MFL	8.2
95% Lower Conf. Limit, MFL	0

Mark S. Floyd, Analytical Microscopy Supervisor

* Method EPA 100.2. Results are reported in Millions of Fibers >10μm in length per Liter (MFL).

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; AC=actinolite; TR=tremolite; AN=anthophyllite; ND=none detected.

3777 Depot Road, Suite 409, Hayward, California 94545 Telephone: 510-887-8828 Fax: 510-887-4218 www.forensica.com

Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

Report Date: Tuesday, October 21, 2008
Received Date: Wednesday, October 8, 2008
Received Time: 8:00 am

Turnaround Time: Normal

Client: Moore Twining Associates, Inc.
2527 Fresno Street
Fresno, CA. 93721

Phone: (559) 268-7021
FAX: (559) 268-0740

Attn: Andrea Seruntine

Project: 8J07007

P.O.#:

Certificate of Analysis

Work Order: 8100804-01 **Sample ID: 0027PP** **Matrix: Water**

Sampled by: Client **Sampled: 10/07/08 10:40** **Sample Note: 8J07007-01**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Chromium 6+	ND		ug/l	0.30	1	EPA 218.6	10/09/08	10/09/08hmc	W8J0881

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Certificate of Analysis

Weck Laboratories, Inc

Hexavalent Chromium by IC - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8J0881 - EPA 218.6									
Blank (W8J0881-BLK1)					Prepared & Analyzed: 10/09/08				
Chromium 6+		ND		ug/l					
LCS (W8J0881-BS1)					Prepared & Analyzed: 10/09/08				
Chromium 6+		5.24		ug/l	5.00	105	90-110		
Matrix Spike (W8J0881-MS1)			Source: 8100653-01		Prepared & Analyzed: 10/09/08				
Chromium 6+	1.26	6.32		ug/l	5.00	101	88-112		
Matrix Spike (W8J0881-MS2)			Source: 8100845-03		Prepared & Analyzed: 10/09/08				
Chromium 6+	0.285	5.48		ug/l	5.00	104	88-112		
Matrix Spike Dup (W8J0881-MSD1)			Source: 8100653-01		Prepared & Analyzed: 10/09/08				
Chromium 6+	1.26	6.73		ug/l	5.00	109	88-112	6	10
Matrix Spike Dup (W8J0881-MSD2)			Source: 8100845-03		Prepared & Analyzed: 10/09/08				
Chromium 6+	0.285	5.46		ug/l	5.00	103	88-112	0.4	10

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND = NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub = Subcontracted analysis, original report enclosed.
Dil = Dilution Factor
MDL = Method Detection Limit
MDA = Minimum Detectable Activity

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

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MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/21/08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0027PP	8J07007-01	Waste Water	10/07/08 10:40	10/07/08 11:45

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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/21/08

0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Inorganics									
Cyanide (total)	ND	5.0	µg/L	1	T8J0808	10/08/08	10/09/08	SM4500CN-E	
Semi-Volatile Organics									
4,4'-DDD	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
4,4'-DDE	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
4,4'-DDT	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Aldrin	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
alpha-BHC	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
alpha-Chlordane	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
beta-BHC	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Chlordane (n.o.s.)	ND	0.10	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
delta-BHC	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Dieldrin	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Endosulfan I	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Trifluralin	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Endosulfan II	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Endosulfan sulfate	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Endrin	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Endrin aldehyde	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Endrin ketone	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
gamma-BHC (Lindane)	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
gamma-Chlordane	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Heptachlor	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Heptachlor epoxide	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Methoxychlor	ND	0.25	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Toxaphene	ND	0.50	µg/L	1	T8J0818	10/07/08	10/09/08	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)		*80.5 %*	*43-154*		*T8J0818*	*10/07/08*	*10/09/08*	*EPA 8081A*	
Surrogate: Tetrachloro-meta-xylene (TMX)		*91.0 %*	*34.4-113*		*T8J0818*	*10/07/08*	*10/09/08*	*EPA 8081A*	
1,2,4-Trichlorobenzene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
1,2-Dichlorobenzene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
1,2-Diphenylhydrazine	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
1,3-Dichlorobenzene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
1,4-Dichlorobenzene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,4,5-Trichlorophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
2,4,6-Trichlorophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,4-Dichlorophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,4-Dimethylphenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,4-Dinitrophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,4-Dinitrotoluene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,6-Dichlorophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2,6-Dinitrotoluene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2-Chloronaphthalene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2-Chlorophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2-Methylnaphthalene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2-Methylphenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2-Nitroaniline	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
2-Nitrophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
3,3′-Dichlorobenzidine	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
3-Nitroaniline	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Bromophenyl phenyl ether	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Chloro-3-methylphenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Chloroaniline	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Methylphenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Nitroaniline	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
4-Nitrophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Acenaphthene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Acenaphthylene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Aldrin	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
alpha-BHC	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Aniline	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Anthracene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzidine	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzo (a) anthracene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzo (b) fluoranthene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	

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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/21/08

0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Benzo (g,h,i) perylene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzo (k) fluoranthene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzo(a)pyrene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzoic acid	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Benzyl alcohol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
beta-BHC	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Bis(2-chloroethyl)ether	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Bis(2-ethylhexyl) phthalate	ND	5.0	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Butyl benzyl phthalate	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Chrysene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
DDD	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
DDE	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
DDT	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
delta-BHC	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Dibenz (a,h) anthracene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Dibenzofuran	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Dieldrin	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Diethyl phthalate	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Dimethyl phthalate	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Di-n-butyl phthalate	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Di-n-octyl phthalate	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Endosulfan I	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Endosulfan II	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Endosulfan sulfate	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Endrin	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Endrin aldehyde	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Endrin ketone	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Fluoranthene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Fluorene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
gamma-BHC (Lindane)	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Heptachlor	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	

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0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Semi-Volatile Organics									
Heptachlor epoxide	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Hexachlorobenzene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Hexachlorobutadiene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Hexachlorocyclopentadiene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Hexachloroethane	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Isophorone	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Naphthalene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Nitrobenzene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
N-Nitrosodimethylamine	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
N-Nitrosodiphenylamine	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Pentachlorophenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Phenanthrene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Phenol	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Pyrene	ND	10	µg/L	1	T8J0901	10/09/08	10/10/08	EPA 8270C	
Surrogate: 2,4,6-Tribromophenol		*96.8 %*	*56.8-132*		*T8J0901*	*10/09/08*	*10/10/08*	*EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*84.5 %*	*38.3-115*		*T8J0901*	*10/09/08*	*10/10/08*	*EPA 8270C*	
Surrogate: 2-Fluorophenol		*62.3 %*	*25.7-71.6*		*T8J0901*	*10/09/08*	*10/10/08*	*EPA 8270C*	
Surrogate: d14-Terphenyl		*103 %*	*48.2-131*		*T8J0901*	*10/09/08*	*10/10/08*	*EPA 8270C*	
Surrogate: Nitrobenzene-d5		*85.7 %*	*40.3-96*		*T8J0901*	*10/09/08*	*10/10/08*	*EPA 8270C*	
Surrogate: Phenol-d5		*48.7 %*	*14.1-51.8*		*T8J0901*	*10/09/08*	*10/10/08*	*EPA 8270C*	
Volatile Organics									
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,1-Dichloroethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,1-Dichloroethene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,1-Dichloropropene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
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Fresno City Waste Water Treatment Plant 5607 West Jensen Avenue Fresno CA, 93706	Project: Analytical Services 2007/2008 Project Number: Bid File #8846, Exp. 10/31/08 Project Manager: Mike McColm	**Reported:** 10/21/08

0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,2-Dichloropropane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,3-Dichloropropane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
2,2-Dichloropropane	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
2-Butanone (MEK)	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
2-Hexanone	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Acetone	ND	10	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Acrolein	ND	10	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Acrylonitrile	ND	5.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Benzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Bromochloromethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Bromodichloromethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Bromoform	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Bromomethane	ND	2.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Carbon disulfide	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Carbon tetrachloride	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Chlorobenzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Chloroethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Chloroform	**0.61**	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Chloromethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Dibromochloromethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Dibromomethane	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Dichlorodifluoromethane (CFC-12)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Ethanol	ND	50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Ethyl methacrylate	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Ethylbenzene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Hexachlorobutadiene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Hexachloroethane	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Iodomethane	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Isobutyl alcohol	ND	20	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Isopropylbenzene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
m,p-Xylene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Methacrylonitrile	ND	5.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Methyl Methacrylate	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Methylene chloride	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Naphthalene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
n-Propylbenzene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
o-Xylene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
p-Isopropyltoluene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Propionitrile	ND	10	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Styrene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	20	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
tert-Butylbenzene	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Toluene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	1.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Vinyl acetate	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Vinyl chloride	ND	0.50	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	
Xylenes	ND	2.0	µg/L	1	T8J1508	10/15/08	10/15/08	EPA 8260B	

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

0027PP

8J07007-01 (Waste Water) Sampled:10/07/08 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes.
Volatile Organics									
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*84.1-118*		*T8J1508*	*10/15/08*	*10/15/08*	*EPA 8260B*	
Surrogate: Dibromofluoromethane		*96.8 %*	*85-125*		*T8J1508*	*10/15/08*	*10/15/08*	*EPA 8260B*	
Surrogate: Toluene-d8		*106 %*	*79.7-112*		*T8J1508*	*10/15/08*	*10/15/08*	*EPA 8260B*	

Notes and Definitions

ug/L	micrograms per liter (parts per billion concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
mg/L	milligrams per Liter (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0808										
Blank (T8J0808-BLK1)				Prepared: 10/08/08	Analyzed: 10/09/08					
Cyanide (total)	ND	5.0	µg/L							
LCS (T8J0808-BS1)				Prepared: 10/08/08	Analyzed: 10/09/08					
Cyanide (total)	46.4	5.0	µg/L	50.0		92.8	80-120		20	
LCS Dup (T8J0808-BSD1)				Prepared: 10/08/08	Analyzed: 10/09/08					
Cyanide (total)	47.6	5.0	µg/L	50.0		95.2	80-120	2.55	20	
Matrix Spike (T8J0808-MS1)		**Source: 8J07040-01**		Prepared: 10/08/08	Analyzed: 10/09/08					
Cyanide (total)	43.7	5.0	µg/L	50.0	ND	87.4	80-120		20	
Matrix Spike Dup (T8J0808-MSD1)		**Source: 8J07040-01**		Prepared: 10/08/08	Analyzed: 10/09/08					
Cyanide (total)	46.4	5.0	µg/L	50.0	ND	92.8	80-120	5.99	20	

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	Reported:
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0818										
Blank (T8J0818-BLK1)				Prepared: 10/07/08 Analyzed: 10/09/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.855*		*µg/L*	*1.00*		*85.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.895*		*µg/L*	*1.00*		*89.5*	*34.4-113*			
4,4′-DDD	ND	0.25	µg/L							
4,4′-DDE	ND	0.25	µg/L							
4,4′-DDT	ND	0.25	µg/L							
Aldrin	ND	0.25	µg/L							
alpha-BHC	ND	0.25	µg/L							
alpha-Chlordane	ND	0.25	µg/L							
beta-BHC	ND	0.25	µg/L							
Chlordane (n.o.s.)	ND	0.10	µg/L							
delta-BHC	ND	0.25	µg/L							
Dieldrin	ND	0.25	µg/L							
Trifluralin	ND	0.25	µg/L							
Endosulfan I	ND	0.25	µg/L							
Endosulfan II	ND	0.25	µg/L							
Endosulfan sulfate	ND	0.25	µg/L							
Endrin	ND	0.25	µg/L							
Endrin aldehyde	ND	0.25	µg/L							
Endrin ketone	ND	0.25	µg/L							
gamma-BHC (Lindane)	ND	0.25	µg/L							
gamma-Chlordane	ND	0.25	µg/L							
Heptachlor	ND	0.25	µg/L							
Heptachlor epoxide	ND	0.25	µg/L							
Methoxychlor	ND	0.25	µg/L							
Toxaphene	ND	0.50	µg/L							
LCS (T8J0818-BS1)				Prepared: 10/07/08 Analyzed: 10/09/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.810*		*µg/L*	*1.00*		*81.0*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.895*		*µg/L*	*1.00*		*89.5*	*34.4-113*			
Dieldrin	1.22	0.25	µg/L	1.25		97.6	70-130		20	
Endrin	1.35	0.25	µg/L	1.25		108	70-186		20	
gamma-BHC (Lindane)	1.16	0.25	µg/L	1.25		92.8	70-130		20	
Heptachlor	1.26	0.25	µg/L	1.25		100	61-130		20	
LCS Dup (T8J0818-BSD1)				Prepared: 10/07/08 Analyzed: 10/09/08						
Surrogate: Decachlorobiphenyl (DCB)	*0.825*		*µg/L*	*1.00*		*82.5*	*43-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.900*		*µg/L*	*1.00*		*90.0*	*34.4-113*			
Dieldrin	1.22	0.25	µg/L	1.25		97.2	70-130	0.411	20	

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0818										
LCS Dup (T8J0818-BSD1)				Prepared: 10/07/08 Analyzed: 10/09/08						
Endrin	1.34	0.25	µg/L	1.25		107	70-186	0.743	20	
gamma-BHC (Lindane)	1.16	0.25	µg/L	1.25		92.4	70-130	0.432	20	
Heptachlor	1.24	0.25	µg/L	1.25		99.6	61-130	0.800	20	
Batch T8J0901										
Blank (T8J0901-BLK1)				Prepared: 10/09/08 Analyzed: 10/10/08						
Surrogate: 2,4,6-Tribromophenol	*91.8*		*µg/L*	*100*		*91.8*	*56.8-132*			
Surrogate: 2-Fluorobiphenyl	*40.0*		*µg/L*	*50.0*		*80.0*	*38.3-115*			
Surrogate: 2-Fluorophenol	*66.7*		*µg/L*	*100*		*66.7*	*25.7-71.6*			
Surrogate: d14-Terphenyl	*52.2*		*µg/L*	*50.0*		*104*	*48.2-131*			
Surrogate: Nitrobenzene-d5	*43.9*		*µg/L*	*50.0*		*87.7*	*40.3-96*			
Surrogate: Phenol-d5	*51.7*		*µg/L*	*100*		*51.7*	*14.1-51.8*			
1,2,4-Trichlorobenzene	ND	10	µg/L							
1,2-Dichlorobenzene	ND	10	µg/L							
1,2-Diphenylhydrazine	ND	10	µg/L							
1,3-Dichlorobenzene	ND	10	µg/L							
1,4-Dichlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dichlorophenol	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
2-Methylnaphthalene	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
3,3'-Dichlorobenzidine	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
4-Bromophenyl phenyl ether	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0901										
Blank (T8J0901-BLK1)				Prepared: 10/09/08 Analyzed: 10/10/08						
4-Chlorophenyl phenyl ether	ND	10	µg/L							
4-Methylphenol	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
7,12-Dimethylbenz(a)anthracene	ND	10	µg/L							
Acenaphthene	ND	10	µg/L							
Acenaphthylene	ND	10	µg/L							
Aldrin	ND	10	µg/L							
alpha-BHC	ND	10	µg/L							
Aniline	ND	10	µg/L							
Anthracene	ND	10	µg/L							
Benzidine	ND	10	µg/L							
Benzo (a) anthracene	ND	10	µg/L							
Benzo (b) fluoranthene	ND	10	µg/L							
Benzo (g,h,i) perylene	ND	10	µg/L							
Benzo (k) fluoranthene	ND	10	µg/L							
Benzo(a)pyrene	ND	10	µg/L							
Benzoic acid	ND	10	µg/L							
Benzyl alcohol	ND	10	µg/L							
beta-BHC	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-ethylhexyl) phthalate	ND	5.0	µg/L							
Butyl benzyl phthalate	ND	10	µg/L							
Chrysene	ND	10	µg/L							
DDD	ND	10	µg/L							
DDE	ND	10	µg/L							
DDT	ND	10	µg/L							
delta-BHC	ND	10	µg/L							
Dibenz (a,h) anthracene	ND	10	µg/L							
Dibenzofuran	ND	10	µg/L							
Dieldrin	ND	10	µg/L							
Diethyl phthalate	ND	10	µg/L							
Dimethyl phthalate	ND	10	µg/L							
Di-n-butyl phthalate	ND	10	µg/L							
Di-n-octyl phthalate	ND	10	µg/L							

MOORE TWINING ASSOCIATES, INC.
California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0901										
Blank (T8J0901-BLK1)				Prepared: 10/09/08 Analyzed: 10/10/08						
Endosulfan I	ND	10	µg/L							
Endosulfan II	ND	10	µg/L							
Endosulfan sulfate	ND	10	µg/L							
Endrin	ND	10	µg/L							
Endrin aldehyde	ND	10	µg/L							
Endrin ketone	ND	10	µg/L							
Fluoranthene	ND	10	µg/L							
Fluorene	ND	10	µg/L							
gamma-BHC (Lindane)	ND	10	µg/L							
Heptachlor	ND	10	µg/L							
Heptachlor epoxide	ND	10	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	10	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	10	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	10	µg/L							
LCS (T8J0901-BS1)				Prepared: 10/09/08 Analyzed: 10/10/08						
Surrogate: 2,4,6-Tribromophenol	*90.8*		*µg/L*	*100*		*90.8*	*56.8-132*			
Surrogate: 2-Fluorobiphenyl	*42.5*		*µg/L*	*50.0*		*85.0*	*38.3-115*			
Surrogate: 2-Fluorophenol	*69.0*		*µg/L*	*100*		*69.0*	*25.7-71.6*			
Surrogate: d14-Terphenyl	*53.0*		*µg/L*	*50.0*		*106*	*48.2-131*			
Surrogate: Nitrobenzene-d5	*45.3*		*µg/L*	*50.0*		*90.6*	*40.3-96*			
Surrogate: Phenol-d5	*55.7*		*µg/L*	*100*		*55.7*	*14.1-94*			
1,2,4-Trichlorobenzene	37.4	10	µg/L	50.0		74.8	31.2-102		20	
1,4-Dichlorobenzene	33.0	10	µg/L	50.0		65.9	27.8-97.1		20	
2,4-Dinitrotoluene	37.7	10	µg/L	50.0		75.4	28.9-143		20	
2-Chlorophenol	82.8	10	µg/L	100		82.4	46.1-102		20	

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J0901										
LCS (T8J0901-BS1)				Prepared: 10/09/08 Analyzed: 10/10/08						
4-Chloro-3-methylphenol	92.0	10	µg/L	100		91.6	41.5-122		20	
Acenaphthene	42.2	10	µg/L	50.0		84.4	59-105		20	
N-Nitrosodi-n-propylamine	40.2	10	µg/L	50.0		80.5	35.9-115		20	
Phenol	51.8	10	µg/L	100		51.6	23.6-55.6		20	
Pyrene	41.5	10	µg/L	50.0		83.0	59.9-119		20	
LCS Dup (T8J0901-BSD1)				Prepared: 10/09/08 Analyzed: 10/10/08						
Surrogate: 2,4,6-Tribromophenol	*93.0*		*µg/L*	*100*		*93.0*	*56.8-132*			
Surrogate: 2-Fluorobiphenyl	*41.3*		*µg/L*	*50.0*		*82.6*	*38.3-115*			
Surrogate: 2-Fluorophenol	*68.6*		*µg/L*	*100*		*68.6*	*25.7-71.6*			
Surrogate: d14-Terphenyl	*52.9*		*µg/L*	*50.0*		*106*	*48.2-131*			
Surrogate: Nitrobenzene-d5	*45.2*		*µg/L*	*50.0*		*90.5*	*40.3-96*			
Surrogate: Phenol-d5	*53.9*		*µg/L*	*100*		*53.9*	*14.1-94*			
1,2,4-Trichlorobenzene	40.5	10	µg/L	50.0		81.0	31.2-102	8.04	20	
1,4-Dichlorobenzene	35.5	10	µg/L	50.0		70.9	27.8-97.1	7.34	20	
2,4-Dinitrotoluene	39.3	10	µg/L	50.0		78.6	28.9-143	4.16	20	
2-Chlorophenol	79.8	10	µg/L	100		79.4	46.1-102	3.75	20	
4-Chloro-3-methylphenol	93.5	10	µg/L	100		93.1	41.5-122	1.62	20	
Acenaphthene	43.3	10	µg/L	50.0		86.6	59-105	2.55	20	
N-Nitrosodi-n-propylamine	42.3	10	µg/L	50.0		84.6	35.9-115	4.97	20	
Phenol	52.3	10	µg/L	100		52.0	23.6-55.6	0.903	20	
Pyrene	42.0	10	µg/L	50.0		84.0	59.9-119	1.29	20	

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5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J1508										
Blank (T8J1508-BLK1)				Prepared & Analyzed: 10/15/08						
Surrogate: 4-Bromofluorobenzene	*24.3*		*µg/L*	*25.0*		*97.0*	*84.1-118*			
Surrogate: Dibromofluoromethane	*25.4*		*µg/L*	*25.0*		*102*	*85-125*			
Surrogate: Toluene-d8	*26.0*		*µg/L*	*25.0*		*104*	*79.7-112*			
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethene	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
1,2,3-Trichloropropane (123TCP)	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,2-Dichloroethane (1,2-DCA)	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	1.0	µg/L							
2-Chloroethylvinyl ether	ND	1.0	µg/L							
2-Hexanone	ND	1.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Acetone	ND	10	µg/L							
Acrolein	ND	10	µg/L							
Acrylonitrile	ND	5.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
Carbon disulfide	ND	0.50	µg/L							
Carbon tetrachloride	ND	0.50	µg/L							

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J1508										
Blank (T8J1508-BLK1)				Prepared & Analyzed: 10/15/08						
Chlorobenzene	ND	0.50	µg/L							
Chlorodifluoromethane	ND	1.0	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
cis-1,2-Dichloroethene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
Dibromochloromethane	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
Dichlorodifluoromethane (CFC-12)	ND	0.50	µg/L							
Dichlorotetrafluoroethane (CFC-114)	ND	1.0	µg/L							
Di-isopropyl ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethyl methacrylate	ND	1.0	µg/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
Hexachloroethane	ND	1.0	µg/L							
Iodomethane	ND	1.0	µg/L							
Isobutyl alcohol	ND	20	µg/L							
Isopropylbenzene	ND	1.0	µg/L							
m,p-Xylene	ND	1.0	µg/L							
Methacrylonitrile	ND	5.0	µg/L							
Methyl Methacrylate	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene chloride	ND	1.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
p-Isopropyltoluene	ND	1.0	µg/L							
Propionitrile	ND	10	µg/L							
Styrene	ND	0.50	µg/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L							
tert-Butyl alcohol (TBA)	ND	20	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Tetrachloroethene (PCE)	ND	1.0	µg/L							
Toluene	ND	0.50	µg/L							

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Fresno City Waste Water Treatment Plant	Project: Analytical Services 2007/2008	
5607 West Jensen Avenue	Project Number: Bid File #8846, Exp. 10/31/08	**Reported:**
Fresno CA, 93706	Project Manager: Mike McColm	10/21/08

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T8J1508										
Blank (T8J1508-BLK1)				Prepared & Analyzed: 10/15/08						
trans-1,2-Dichloroethene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L							
Trichloroethene (TCE)	ND	0.50	µg/L							
Trichlorofluoromethane (CFC-11)	ND	0.50	µg/L							
Trichlorotrifluoroethane (CFC-113)	ND	1.0	µg/L							
Vinyl acetate	ND	0.50	µg/L							
Vinyl chloride	ND	0.50	µg/L							
Xylenes	ND	2.0	µg/L							
LCS (T8J1508-BS1)				Prepared & Analyzed: 10/15/08						
Surrogate: 4-Bromofluorobenzene	*23.9*		*µg/L*	*25.0*		*95.4*	*84.1-118*			
Surrogate: Dibromofluoromethane	*24.8*		*µg/L*	*25.0*		*99.0*	*85-125*			
Surrogate: Toluene-d8	*25.5*		*µg/L*	*25.0*		*102*	*79.7-112*			
1,1-Dichloroethene	18.2	0.50	µg/L	20.0		91.0	70-130		20	
Benzene	17.1	0.50	µg/L	20.0		85.5	70-130		20	
Chlorobenzene	21.4	0.50	µg/L	20.0		107	70-130		20	
Toluene	18.0	0.50	µg/L	20.0		90.0	70-130		20	
Trichloroethene (TCE)	17.9	0.50	µg/L	20.0		89.6	70-130		20	
LCS Dup (T8J1508-BSD1)				Prepared & Analyzed: 10/15/08						
Surrogate: 4-Bromofluorobenzene	*23.3*		*µg/L*	*25.0*		*93.2*	*84.1-118*			
Surrogate: Dibromofluoromethane	*23.8*		*µg/L*	*25.0*		*95.1*	*85-125*			
Surrogate: Toluene-d8	*26.2*		*µg/L*	*25.0*		*105*	*79.7-112*			
1,1-Dichloroethene	16.7	0.50	µg/L	20.0		83.6	70-130	8.54	20	
Benzene	16.6	0.50	µg/L	20.0		82.8	70-130	3.15	20	
Chlorobenzene	20.7	0.50	µg/L	20.0		104	70-130	3.46	20	
Toluene	17.2	0.50	µg/L	20.0		86.2	70-130	4.32	20	
Trichloroethene (TCE)	17.7	0.50	µg/L	20.0		88.6	70-130	1.23	20	

INCIDENTS OF UPSET, INTERFERENCE, OR PASS-THROUGH

The Fresno-Clovis Regional Wastewater Reclamation Facilities reported ten (10) incidents of noncompliance that violated Wastewater Discharge Requirements limitations. There were ten (10) violations of the Monthly Electrical Conductivity (EC) limit. There were no violations of the Daily BOD limit, Monthly BOD limit, Daily Settleable Solids limit, Monthly Settleable Solid limit, Daily Total Suspended Solids (TSS) limit, or the Monthly TSS limit in 2008.

INCIDENTS OF UNUSUAL INFLUENT

Operations staff will periodically report incidents of unusual influent. The descriptions will vary, such as low pH, unusual color, particles of grease, etc.. When these reports are formally documented, staff will begin investigating and backtracking, to attempt to identify the source, beginning at the point of entrance to the facility. Initial profiling of the observable characteristics of the wastewater is also noted to determine a possible source.

There were no reportable incidents of unusual influent for 2008.

INCIDENTS OF PASS-THROUGH

Increases of organic loading from industrial and commercial sources resulted in the development of an Organic Loading Source Control Program in 2004. The intent of this program is to control pass through and interference due to BOD and TSS that may affect the optimal operation of the treatment plant. For 2008, there were no daily or monthly violations for BOD or TSS.

Following implementation of the updated EC Source Control Plan in 2004, pass-through violations totaled ten (10) occurrences in 2008.

The City continues public education programs to educate the general public on conductivity and organic loading issues. The City added endocrine disrupting compounds as a topic for public education in 2008. These programs educate the public on water softeners, household products, FOG (Fats, Oils, and Grease), pharmaceuticals, and pollution prevention. In addition to the public education program, the City continued its inspections of FSEs (Food Service Establishments) to reduce FOG from entering the sewer system.

COMPLIANCE AND ENFORCEMENT STATUS

Compliance status, monitoring and inspection activities, and enforcement actions are detailed in this report. Each Significant Industrial User (SIU) is listed alphabetically. The report is divided into three sections summarizing 1) the monitoring and inspection activities, 2) the compliance and/or enforcement actions taken against the SIU by the City of Fresno to return the violating industry back to compliance, and 3) the compliance status of each SIU for each quarter of 2008.

INSPECTIONS

Planned Inspections

A major inspection of each SIU is performed annually, usually prior to the expiration of the current Wastewater Discharge Permit. Plant processes are reviewed to ensure that no major changes have been made since the last inspection. This inspection also includes examination of the pretreatment system, hazardous material containers, chemical storage areas, self-monitoring techniques, verification of hazardous waste disposal methods and quantities, storm water discharge, slug risk determination, verification of billing information, and the review of pertinent files.

Compliance Inspections

A permitting inspection or other non-enforcement inspection is performed either during or upon completion of the scheduled installation of a pretreatment system or modification of an existing pretreatment system, or as a result of any process change that has occurred at a facility. Compliance inspections are also conducted to verify the industrial user is properly maintaining its pretreatment system. These inspections are not performed as a result of any enforcement action.

Enforcement Inspections

An enforcement inspection is performed either during or at the completion of required construction of a pretreatment system or process modification resulting from a discharge violation. These violations include a failure of the pretreatment system, a report of an illegal discharge, a slug discharge by the industry, or failure to maintain monitoring equipment.

SAMPLING

Total Planned Samples

Significant Industrial Users are monitored for parameters applicable to the type of industry. The list of parameters monitored by the POTW include heavy metals (cadmium, total chromium, copper, lead, nickel, silver, and zinc), total cyanide, oil and grease (as hexane extractable material, or HEM), organic compounds, total toxic organics, and pH.

Significant Industrial Users that have maintained compliance are monitored quarterly, semiannually, or annually, depending on the parameter. Those users found to be in violation of any of the discharge parameters monitored are transferred to the enforcement sampling list which results in an increased monitoring frequency.

Compliance Samples

Samples are collected from Significant Industrial Users that are not in violation of either local or federal standards to verify that the industrial user is maintaining compliance, or for checking parameters other than those in violation.

Enforcement Samples

Samples are collected from Significant Industrial Users that have violated either local and/or federal standards. Enforcement samples are collected at an increased frequency in accordance with the enforcement levels established in the Enforcement Response Plan (ERP). These samples are subject to cost recovery. After a violating industry completes all planned corrective actions, as outlined in its compliance schedule, and has passed a compliance check by the POTW, enforcement sampling will continue as appropriate to the level of enforcement and in accordance with the ERP. An industrial user that has maintained compliance for six (6) consecutive months following a successful compliance check is transferred back to the continued compliance monitoring schedule.

The sampling columns – Planned, Compliance, and Enforcement – indicate the total number of sampling events that occurred in a particular quarter.

TOTALS

A comparison of inspection and monitoring activities from 2002 to 2008 is shown in the table below.

ACTIVITY	2002	2003	2004	2005	2006	2007	2008
Number of SIUs (beginning the first quarter)	54	52	52	49	43	41	42
Number of SIUs (ending fourth quarter)	52	52	49	43	41	43	43
Planned Inspections	55	52	49	46	44	43	44
Compliance Inspections	163	160	148	125	130	130	150
Enforcement Inspections	37	12	20	38	50	25	28
Total Inspections	200	172	168	163	180	155	178
Planned Samples	1888	1696	1748	1655	1451	1575	1172
Compliance Samples	2018	1816	1848	1655	1490	1644	1183
Enforcement Samples	54	43	36	49	48	77	57
Total Samples Collected	2072	1859	1884	1704	1538	1721	1240

COMPLIANCE/ENFORCEMENT

The center section of this report summarizes the actions taken by the City of Fresno for notification and enforcement of violations for each quarter. These actions include Warning Notices, Notices of Noncompliance, Violation Notices, Administrative Orders, and penalties. Samples that violated either the federal standards or the local limit are indicated in the appropriate column. An explanation of the violation is summarized in the remarks section. Industries not previously in violation and not sampled in that quarter are assumed to have maintained compliance.

Enforcement action was undertaken for discharge violations of any of the parameters that the POTW monitors, as well as administrative violations. Administrative violations include failure to submit various types of reports or compliance schedules. Violation Notices may not have been issued in the quarter in which the violation occurred. In some cases, data was received late in the quarter, making the issuance of Violation Notices in that quarter impossible; in these instances, they were issued the following quarter.

A summary of compliance actions for 2002 through 2008 is shown below.

ACTIVITY	2002	2003	2004	2005	2006	2007	2008
Warning Notices	26	19	10	15	13	13	18
Violation Notices	6	5	14	13	9	26	8
Administrative Orders	0	1	2	3	2	4	3
Penalties and Cost Recovery	$4,232	$4,289	$2,922	$2,861	$4,324	$6,504	$11,361

Industrial User Status

At the end of the fourth quarter, there were forty-three (43) industries regulated as Significant Industrial Users. During the year, the operational activity of some users changed in a manner that affected their reporting status. These are listed below.

Industry	Action	Quarter
American Tank Wash, Inc.	Reclassed to a Class II	First
Cottonwood Creek	Ceased Operation	Fourth
Fruit Fillings, Inc.	Startup Class I	Second
La Tapatia Tortilleria, Inc.	Startup Class I	Second

Ten industries regulated under the Metal Finishing Category Point Source Category discharge to the POTW.

Ano-Tech Metal Finishing	Pacific Coast Anodizing
Clovis Specialty Plating	PELCO
Commercial Electro Plating	Sunrise Medical
Keiser Corporation	Valley Metal Finishing

In addition, there are five metal finishers that are classified as Zero Dischargers.

King Industrial Hard Chrome	Valley Chrome Plating
Meclec, Inc.	Western Chrome
New Age Metal Finishing	

DISCHARGE COMPLIANCE SUMMARY	2008
Number of SIUs out of Compliance.	9
Number of SIUs out of Compliance at the end of the fourth quarter.	3
Number of SIUs Inconsistently Achieving Compliance.	9
Number of SIUs Inconsistently Achieving Compliance at the end of the fourth quarter.	3
Number of SIUs in Significant Noncompliance.	0
Number of SIUs in Significant Noncompliance at the end of the fourth quarter.	0

ADMINISTRATIVE COMPLIANCE SUMMARY	2008
Number of SIUs out of Compliance.	4
Number of SIUs out of Compliance at the end of the fourth quarter.	1
Number of SIUs Inconsistently Achieving Compliance.	4
Number of SIUs Inconsistently Achieving Compliance at the end of the fourth quarter.	2
Number of SIUs in Significant Noncompliance.	1
Number of SIUs in Significant Noncompliance at the end of the fourth quarter.	1

DISCHARGE COMPLIANCE RATE	2008
First Quarter	90.2%
Second Quarter	90.7%
Third Quarter	93.1%
Fourth Quarter	93.0%

Significant Industrial User List

Industry	Industry Type
American Tank Wash	Tank Wash
Ameripride Uniform Services	Industrial Laundry
Angelica Textile Services	Industrial Linen
Ano-Tech Metal Finishing	Metal Finisher
Aramark Uniform Service	Industrial Laundry
Beef Packers, Inc.	Slaughter House
California Dairies, Inc.	Dairy
California State University, Fresno	State University
Clovis Specialty Plating	Metal Finisher
Commercial Electro Plating	Metal Finisher
Community Medical Center – Clovis	Hospital
ConAgra Foods	Food Processor
Cornnuts	Food Processor
Cottonwood Creek Venture #1	Animal Feed Manufacturer
Darling International, Inc.	Rendering
E.& J. Gallo Winery	Winery
Foster Farms, Belgravia	Poultry Processor
Foster Farms Dairy	Dairy Products Processor
Foster Farms Poultry	Poultry Processor
Fruit Fillings Inc.	Food Processor
Gusmer Enterprises, Inc. (Cellulo)	Filter Manufacturer
Keiser Corporation	Metal Finisher
Kraft Foods, Fresno	Fruit Beverage Processor
La Tapatia Tortilleria, Inc.	Food Processor
LiDestri Foods, Inc.	Food Processor
Lyons Magnus #1	Fruit Processor
Mission Linen Service	Industrial Linen
Pacific Choice Brands, Inc.	Food Processor
Pacific Coast Anodizing	Metal Finisher
Pelco	Metal Finisher
Pepsi Cola West	Beverage Processor
Producers Dairy Foods, Inc.	Dairy
Prudential Overall Supply	Industrial Laundry
Rich Products Corporation	Food Processor
San Joaquin Valley Concentrates	Grape Concentrate Processor
Sunrise Medical/Mobility Products, Fresno	Metal Finisher
Valley Fig Growers	Fig Processor
Valley Metal Finishing	Metal Finisher
Wawona Frozen Foods – Clovis	Food Processor
Wawona Frozen Foods – Fresno	Food Processor
WCR Inc.	Heat Exchanger Repair
Yergat Packing Co., Inc.	Food Processor
Yosemite Linen Supply, Inc.	Industrial Linen
Zacky Farms Packing	Poultry Processor
Zacky Farms Turkey	Poultry Processor

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
American Tank Wash, Inc. **2788 S. Orange Ave.** **Fresno, CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-44649**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st						
2nd						
3rd						
4th						
TOTAL						

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st					
2nd					
3rd					
4th					
TOTAL					

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st			This IU was reclassified to a category II
2nd			
3rd			
4th			

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Ameripride Uniform Service **1050 W. Whitesbridge Ave.** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-43499**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	9	9	0
2nd	1	1	0	9	9	0
3rd	0	1	0	8	8	0
4th	0	1	0	8	8	0
TOTAL	1	4	0	34	34	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

AmeriPride Uniform Service

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
Phenolic Compounds	300	mg/l
Trichoroethene	0.12	mg/l
Tetrachlooethene	0.77	mg/l
Benzene Ethylbenzene Toluene Xylene BETX	20	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Angelica Textile Services **422 S. Fruit** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-12293**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	6	6	0
2nd	0	0	0	8	8	0
3rd	0	0	0	6	6	0
4th	0	0	0	6	6	0
TOTAL	1	1	0	26	26	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	1(L)	0	0	0	WN
TOTAL	1	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	IAC	This IU failed to maintain their composite sampler

Angelica Textile Services

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Ano-Tech Metal Finishing **807 Lincoln Ave.** **Clovis CA 93612**	**Metal Finishing PSNS** **General Pretreatment Standards**	**CI(a)-131261**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	1	12	12	4
2nd	1	1	0	12	12	0
3rd	0	1	0	14	14	0
4th	0	1	0	11	11	0
TOTAL	1	3	1	49	49	4

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	$281.00	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Ano-Tech Metal Finishing

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO mg/l	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4 ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Aramark Services, Inc. **333 N. Sabre Dr.** **Fresno CA 93727**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-118201**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	9	9	0
2nd	1	1	0	9	9	0
3rd	0	1	0	8	8	0
4th	0	1	0	7	7	0
TOTAL	1	4	0	33	33	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Aramark Uniform Service
DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
Phenolic Compounds	300	mg/l
Trichoroethene	0.12	mg/l
Tetrachlooethene	0.77	mg/l
Benzene Ethylbenzene Toluene Xylene BETX	20	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Beef Packers, Inc. **3115 S. Fig Ave.** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-111419**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	2	0	9	9	0
2nd	0	1	0	6	6	0
3rd	0	1	0	9	9	0
4th	0	1	0	9	9	0
TOTAL	1	5	0	33	33	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	1(L)	0	0	$250.00	WN
TOTAL	0	0	0	$250.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	IAC	This IU failed to maintain their composite sampler.

Beef Packers, Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
California Dairies, Inc. **755 "F" street** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(a)-215873**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	2	0	8	8	0
2nd	0	1	0	8	8	0
3rd	1	2	0	8	8	0
4th	0	1	0	8	8	0
TOTAL	1	6	0	32	32	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

California Dairies

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
CSU Fresno **2351 E. Barstow** **Fresno CA 93740-0088**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-181571**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	14	14	0
2nd	0	0	0	12	12	0
3rd	0	0	0	12	12	0
4th	0	0	0	12	12	0
TOTAL	1	1	0	50	50	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

California State University Fresno

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium (T)	0.12	mg/l
Chromium (T)	6.7	mg/l
Copper (T)	2.5	mg/l
Lead (T)	1.2	mg/l
Nickel (T)	1.3	mg/l
Silver (T)	1.1	mg/l
Zinc (T)	2.1	mg/l
Oil & Grease	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Clovis Specialty Plating **1366 N. Sierra vista Ave.** **Fresno CA 93726**	**Metal Finishing PSNS** **General Pretreatment Standards**	**FI(a)-57035**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	1	2	2	2
2nd	0	1	0	2	2	2
3rd	1	1	0	5	7	0
4th	0	1	0	2	4	0
TOTAL	1	3	1	11	15	4

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	$177.00	
2nd	0	0	0	$132.00	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Clovis Specialty Plating

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO mg/l	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Community Medical Center-Clovis **2755 E. Herndon Ave.** **Clovis CA 93611**	**Non-Categorical** **General Pretreatment Standards**	**CI(b)-581-209945**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	7	7	0
2nd	0	0	0	6	6	0
3rd	0	0	0	6	6	0
4th	1	1	0	6	6	0
TOTAL	1	1	0	25	25	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Clovis Community Hospital

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium (T)	0.12	mg/l
Chromium (T)	6.7	mg/l
Copper (T)	2.5	mg/l
Lead (T)	1.2	mg/l
Nickel (T)	1.3	mg/l
Silver (T)	1.1	mg/l
Zinc (T)	2.1	mg/l
Oil & Grease	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Commercial Electroplating **1935 S. Cherry Ave.** **Fresno CA 93721**	**Metal Finishing PSNS** **General Pretreatment Standards**	**FI(a)-79321**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	3	4	4	4
2nd	1	1	3	4	4	2
3rd	0	0	1	5	7	4
4th	0	0	1	2	2	2
TOTAL	1	1	8	15	17	12

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	1(B)	3(B)	1(B)	$514.00	CDO and VND-Cr, Cu and Ni
2nd	0	1(B)	0	$295.00	VND-Zn
3rd	0	1(L)	0	$826.00	VNT-SMR
4th	0	0	0	$163.00	
TOTAL	1	5	1	$1,798.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	IAC	IAC	This IU violated the local and federal limits for Cu, Ni and Cr. The IU submitted a compliance schedule to prevent further actions.
2nd	IAC	IAC	This IU violated the local limits and federal limits for Zn. The IU submitted a compliance schedule to prevent further actions.
3rd	IAC	IAC	This IU failed to submit a SMR for EPA 624 & 625 by the due date.
4th	CAC	CAC	

Commercial Electro Plating

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO mg/l	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Con Agra Foods **5626 E. Shields Ave.** **Fresno CA 93727**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-188789**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	7	7	0
2nd	0	0	0	6	7	0
3rd	0	0	0	6	7	0
4th	1	1	0	7	7	0
TOTAL	1	1	0	26	28	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Con Agra Foods

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Cornnuts, Inc.-Kraft Foods Global Inc. **4343 E. Florence Ave.** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-149003**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	6	6	0
2nd	0	1	0	6	6	0
3rd	0	1	0	8	8	0
4th	1	1	0	6	6	0
TOTAL	1	4	0	26	26	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Cornnuts, Inc.
Kraft Foods Global Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Cottonwood Creek Venture 1 **670 W. Church Ave.** **Fresno, CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(c)-188473**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	2	1	6	0	0
2nd	0	4	0	6	2	1
3rd	0	3	0	6	0	0
4th	1	-	-	-	-	-
TOTAL	1	9	1	18	2	1

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	-	-	-	$45.00	
2nd	0	0	0	$90.00	
3rd	0	0	0	0	
4th	-	-	-	-	
TOTAL	-	-	-	$135.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	This IU was not discharging.
2nd	CAC	CAC	
3rd	CAC	CAC	This IU was not discharging.
4th	-	-	This IU Conditional Use Permit was revoked

Cottonwood Creek Venture 1

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Darling International, Inc. **2354 S. Fruit Ave.** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(c)-90611**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	8	8	0
2nd	1	2	0	8	8	0
3rd	0	1	0	8	9	0
4th	0	1	0	8	8	0
TOTAL	1	5	0	36	37	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Darling International, Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
E&J Gallo **5610 E. Olive Ave.** **Fresno CA 93727**	**Non-Categorical** **General Pretreatment Standards**	**FI(e)-188507**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	2	0	7	7	0
2nd	0	1	0	6	6	0
3rd	0	1	1	9	9	0
4th	0	1	0	15	15	0
TOTAL	1	5	1	37	37	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	1(L)	0	0	0	WN-Slug discharge
3rd	0	0	0	$45.00	
4th	0	0	0	0	
TOTAL	1	0	0	$45.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	IAC	This IU violated the local limits discharging a slug to the collection system. They submitted a Plan of Action to prevent future violations.
3rd	CAC	CAC	
4th	CAC	CAC	

E & J Gallo Winery

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Gusmer Enterprises Inc. (Cellulo Co.) **124 "M" Street** **Fresno CA 93721**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-2819**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	7	7	0
2nd	0	0	0	6	6	0
3rd	0	0	0	6	6	0
4th	1	1	0	6	6	0
TOTAL	1	1	0	25	25	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Gusmer Enterprises Inc. (Cellulo Co.)

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium (T)	0.12	mg/l
Chromium (T)	6.7	mg/l
Copper (T)	2.5	mg/l
Lead (T)	1.2	mg/l
Nickel (T)	1.3	mg/l
Silver (T)	1.1	mg/l
Zinc (T)	2.1	mg/l
Oil & Grease	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Foster Farms **900 West Belgravia Ave.** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(e)-271141**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	16	16	0
2nd	1	2	0	14	14	0
3rd	0	1	0	14	14	0
4th	0	1	0	14	14	0
TOTAL	1	5	0	58	58	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Foster Farms

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Foster Farms Dairy **3380 W. Ashlan Ave.** **Fresno CA 93722**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-217123**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	8	8	0
2nd	0	0	1	9	9	1
3rd	0	1	0	9	9	0
4th	1	1	0	7	7	0
TOTAL	1	3	1	33	33	1

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	1(L)	0	0	$855.00	WN-O&G
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	1	0	0	$855.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	IAC	This IU violated the local limit for oil and grease. They submitted a Plan of Action to prevent future violations.
3rd	CAC	CAC	
4th	CAC	CAC	

Foster Farms Dairy

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Foster Farms Poultry **2960 S. Cherry Ave.** **Fresno CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**FI(e)-106849**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	8	8	0
2nd	0	1	0	10	10	0
3rd	0	1	0	9	9	0
4th	1	1	0	9	9	0
TOTAL	1	4	0	36	36	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Foster Farms Poultry

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Fruit Fillings Inc. **2531 E. Edgar** **Fresno, CA 93706**	**Non-Categorical** **General Pretreatment Standards**	**F(b)-96177**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	-	-	-	-	-	-
2nd	-	-	-	5	5	0
3rd	1	1	0	6	6	2
4th	0	0	1	7	7	1
TOTAL	1	1	1	18	18	3

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	-	-	--	-	
2nd	0	0	0	0	
3rd	2(B)	1(B)	0	$770.00	NON and VND-pH
4th	0	0	0	$202.50	
TOTAL	2	1	0	$972.50	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	-	-	
2nd	CAC	CAC	
3rd	IAC	IAC	This IU violated the local and federal limit for pH. They submitted a compliance schedule that was inadequate to resolve their pH violations. They modified and resubmitted a compliance schedule that will bring them into compliance.
4th	CAC	CAC	

Fruit Fillings, Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Keiser Corporation **2470 S. Cherry Ave.** **Fresno CA 93706**	**Metal Finishing PSNS** **General Pretreatment Standards**	**FI(a)-218887**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	3	3	0
2nd	1	2	0	2	2	0
3rd	0	1	0	3	3	0
4th	0	1	0	2	2	0
TOTAL	1	5	0	10	10	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	o	o	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Keiser Corporation

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO mg/l	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Kraft Foods-Fresno **2494 S. Orange Ave.** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-94701**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	1	6	6	1
2nd	0	1	1	7	7	0
3rd	1	1	0	7	7	0
4th	0	0	1	8	8	0
TOTAL	1	3	3	28	28	1

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	$135.00	
2nd	0	0	0	$135.00	
3rd	0	0	0	0	
4th	0	0	0	$135.00	
TOTAL	0	0	0	$405.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	This IU was given an extension until the fourth quarter of 2008 to submit a completed compliance schedule for a pH violation that occurred in the fourth quarter of 2007.
3rd	CAC	CAC	
4th	CAC	CAC	

Kraft Foods - Fresno

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
La Tapatia Tortilleria, Inc. **104 E. Belmont Ave.** **Fresno, CA 93701**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-1713A**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	-	-	-	-	-	-
2nd	1	1	0	-	-	-
3rd	0	1	0	7	7	0
4th	0	0	0	7	7	0
TOTAL	1	2	0	14	14	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	-	-	-	-	
2nd	-	-	-	-	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	-	-	
2nd	CAC	CAC	This IU was reclassified to a category I
3rd	CAC	CAC	
4th	CAC	CAC	

La Tapatia Tortilleria, Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Li Destri Foods. Inc. **568 S. Temperance Ave.** **Fresno, CA 93727**	**Non-Categorical** **General Pretreatment Standards**	**FI(c)-357037**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	8	8	2
2nd	0	0	1	6	6	1
3rd	0	0	1	6	6	6
4th	0	0	1	7	7	4
TOTAL	1	1	3	27	27	13

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	$472.00	
2nd	0	0	1(L)	$180.00	CNO-O&G
3rd	0	1(B)	0	$1,310.00	VND-pH
4th	6(L) 2(B)	0	0	$2,358.00	WN-failure to submit required reports NON-O&G
TOTAL	8	1	1	$4,320.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	IAC	This IU violated the local limits for oil and grease.
2nd	CAC	IAC	This IU was issued a Consent Order.
3rd	CAC	IAC	This IU requested an extension to their Consent Order and it was granted.
4th	SNC	SNC	This IU failed to submit required reports and violated the local limits for oil and grease. This IU is on the second tier of their Consent Order.

Li Destri Foods, Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Lyons Magnus **1636 S. Second St.** **Fresno CA 93702**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-70019**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	7	7	0
2nd	0	1	0	8	8	0
3rd	0	1	0	8	8	0
4th	1	1	0	8	8	0
TOTAL	1	4	0	31	31	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Lyons Magnus

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Mission Linen Service **2555 S. Orange Ave.** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(c)-97343**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	9	9	0
2nd	0	1	0	8	8	0
3rd	1	1	0	9	9	0
4th	0	1	0	8	8	0
TOTAL	1	4	0	34	34	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Mission Linen Service

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium (T)	0.12	mg/l
Chromium (T)	6.7	mg/l
Copper (T)	2.5	mg/l
Lead (T)	1.2	mg/l
Nickel (T)	1.3	mg/l
Silver (T)	1.1	mg/l
Zinc (T)	2.1	mg/l
Oil & Grease	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Pacific Choice Brands, Inc. **4667 E. Date Ave.** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-162587**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	7	7	0
2nd	0	1	1	6	6	0
3rd	0	1	0	7	7	1
4th	0	1	0	6	6	0
TOTAL	1	4	1	26	26	1

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	1(L)	0	0	0	WN-pH
3rd	0	0	0	$250.00	
4th	0	0	0	0	
TOTAL	1	0	0	$250.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	IAC	This IU violated the local limit for pH. They submitted a Plan of Action to prevent further violations.
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Pacific Choice Brands
DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Pacific Coast Anodizing **1616 W. Pine Ave.** **Fresno CA 93728**	**Metal Finishing PSNS** **General Pretreatment Standards**	**FI(a)-235101**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	4	4	0
2nd	1	1	0	6	6	0
3rd	0	1	0	7	7	0
4th	0	1	0	4	4	0
TOTAL	1	4	0	21	21	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Pacific Coast Anodizing

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
PELCO **300 w. Pontiac Way** **Clovis CA 93612**	**Metal Finisher PSNS** **General Pretreatment Standards**	**CI(a)-201324-0**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	2	2	1
2nd	0	1	0	1	0	1
3rd	0	0	1	1	0	1
4th	1	2	0	4	4	0
TOTAL	1	4	1	8	6	3

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	$59.00	
3rd	0	1(B)	0	$104.00	VND-Cr
4th	0	0	0	$81.50	
TOTAL	0	1	0	$244.50	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	IAC	IAC	This IU violated the local and federal limit for chromium. They submitted a Compliance Schedule to prevent further violations.
3rd	CAC	CAC	
4th	CAC	CAC	

PELCO

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Pepsi Cola Bottling Group **1150 E. North Ave.** **Fresno ca 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-47599**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	7	7	0
2nd	0	1	0	6	6	0
3rd	0	1	0	7	7	0
4th	0	1	0	8	8	0
TOTAL	1	4	0	28	28	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Pepsi Cola Bottling Group

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Producers Dairy Foods, Inc. **250 E. Belmont** **Fresno CA 93701**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-4103**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	8	8	0
2nd	1	2	0	12	12	0
3rd	0	1	0	8	8	0
4th	0	1	0	8	8	0
TOTAL	1	5	0	36	36	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Producers Dairy

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Prudential Overall Supply **1260 E. North Ave.** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(c)-52085**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	8	8	1
2nd	0	1	0	9	9	0
3rd	0	1	0	8	8	0
4th	1	1	0	9	9	0
TOTAL	1	4	0	34	34	1

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Prudential Overall Supply

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
Phenolic Compounds	300	mg/l
Trichoroethene	0.12	mg/l
Tetrachlooethene	0.77	mg/l
Benzene Ethylbenzene Toluene Xylene BETX	20	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Rich Products **320 O Street** **Fresno CA 93721**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-11607**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	7	7	0
2nd	0	0	0	6	6	0
3rd	0	1	0	10	10	0
4th	1	1	0	6	6	0
TOTAL	1	2	0	29	29	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	1(L)	0	0	0	WN
TOTAL	1	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	IAC	This IU failed to maintain their composite sampler.

Rich Products Corporation

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
San Joaquin Valley Concentrates **5631 E. Olive Ave.** **Fresno CA 93727**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-279909**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	1	6	6	0
2nd	1	2	1	6	6	0
3rd	0	1	0	9	9	0
4th	0	1	0	7	7	0
TOTAL	1	4	2	28	28	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	$45.00	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

San Joaquin Valley Concentrates

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Sunrise Medical **2842 Business Park Ave.** **Fresno CA 93727**	**Metal Finishing PSNS** **General Pretreatment Standards**	**FI(a)-104681**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	6	6	0
2nd	1	1	0	4	4	0
3rd	0	1	0	6	6	0
4th	0	1	0	4	2	0
TOTAL	1	4	0	20	18	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Sunrise Medical

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Valley Fig Growers **2028 S. Third Street** **Fresno CA 93702**	**Non-Categorical** **General Pretreatment Standards**	**FI(c)-81893**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	7	7	0
2nd	0	1	0	5	5	0
3rd	0	1	0	7	7	0
4th	0	1	0	6	6	0
TOTAL	1	4	0	25	25	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Valley Fig Growers

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Valley Metal Finishing **733 G Street** **Fresno CA 93706**	**Metal Finishing PSNS** **General Pretreatment Standards**	**FI(a)-30107**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	2	0	4	2	2
2nd	0	1	0	4	4	0
3rd	0	1	0	7	7	0
4th	0	1	0	2	2	2
TOTAL	1	5	0	17	15	4

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	$118.00	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	1(L)	0	0	$340.00	
TOTAL	1	0	0	$458.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Valley Metal Finishing

DISCHARGE LIMITS

Parameter	Local Limit	Federal Maximum for any one day	Federal Monthly Average	Local limit more stringent than Federal	Units
Cadmium Cd	0.12	0.11	0.07	No	mg/l
Chromium Cr	6.7	2.77	1.71	No	mg/l
Copper Cu	2.5	3.38	2.07	Yes	mg/l
Cyanide CN	0.77	1.20	0.65	Yes	mg/l
Lead Pb	1.2	0.69	0.43	No	mg/l
Nickel Ni	1.3	3.98	2.38	Yes	mg/l
Silver Ag	1.1	0.43	0.24	No	mg/l
Zinc Zn	2.1	2.61	1.48	No	mg/l
TTO	NA	2.13	NA	NA	mg/l

The Industrial User shall maintain the pH of any wastewater discharge to the collection system between pH 6.0 and 12.4. ***(FMC Chapter 6, Article 3, Section 6-327(d))***

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Wawona Frozen Foods- Clovis **100 W. Alluvial Avenue** **Clovis CA 93612**	**Non-Categorical** **General Pretreatment Standards**	**CI(d)-203351-0**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	6	6	0
2nd	0	1	0	4	4	0
3rd	1	1	0	6	6	0
4th	0	1	0	6	6	0
TOTAL	1	4	0	22	22	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Wawona Frozen Foods - Clovis

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
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CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Wawona Frozen Foods – Fresno **2202 S. Cedar Avenue** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-253439**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	8	8	0
2nd	0	1	0	2	2	0
3rd	1	1	0	8	8	0
4th	0	1	0	5	5	0
TOTAL	1	3	0	23	23	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Wawona Frozen Foods - Fresno

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
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CMO	Compliance Order	VNA	Violation Notice - Administrative
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FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
WCR, Inc. 4636 E. Drummond Ave. Fresno, CA 93725	**Non-Categorical** **General Pretreatment Standards**	FI(F)-160781

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	1	2	3	3
2nd	1	1	1	2	3	3
3rd	0	1	1	2	2	2
4th	0	0	1	2	2	2
TOTAL	1	3	4	8	10	10

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	1(L)	0	0	$182.50	NON-Pb
2nd	1(L)	0	0	$182.50	NON-Zn
3rd	0	0	0	$125.00	
4th	0	0	1(L)	$868.00	
TOTAL	2	0	1	$993.00	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	IAC	This IU violated the local limits for lead. They are on a compliance schedule.
2nd	CAC	IAC	This IU violated the local limits for zinc. They are on a compliance schedule.
3rd	CAC	CAC	
4th	CAC	IAC	This IU violated the local limit for zinc; they are on a Consent Order.

WCR Inc.

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium (T)	0.12	mg/l
Chromium (T)	6.7	mg/l
Copper (T)	2.5	mg/l
Lead (T)	1.2	mg/l
Nickel (T)	1.3	mg/l
Silver (T)	1.1	mg/l
Zinc (T)	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

(FMC Chapter 6, Article 3, Section 6-327(d))

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
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CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
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CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Yergat Packing Company, Inc. **5451 W. Mission Avenue** **Fresno CA 93722**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-185615**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	1	0	5	5	0
2nd	0	1	0	6	6	0
3rd	1	1	0	7	7	0
4th	0	1	0	6	6	0
TOTAL	1	4	0	24	24	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Yergat Packing Company, Inc.
DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	Mg/l
Chromium Cr	6.7	Mg/l
Copper Cu	2.5	Mg/l
Lead Pb	1.2	Mg/l
Nickel Ni	1.3	Mg/l
Silver Ag	1.1	Mg/l
Zinc Zn	2.1	Mg/l
Oil & Grease O&G	700	Mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Yosemite Linen Supply **3330 E. Church Avenue** **Fresno CA 93725**	**Non-Categorical** **General Pretreatment Standards**	**FI(b)-117997**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	9	9	0
2nd	1	1	0	8	8	0
3rd	0	0	0	8	8	0
4th	0	0	0	8	8	0
TOTAL	1	1	0	33	33	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Yosemite Linen Supply

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium (T)	0.12	mg/l
Chromium (T)	6.7	mg/l
Copper (T)	2.5	mg/l
Cyanide (T)	0.77	mg/l
Lead (T)	1.2	mg/l
Nickel (T)	1.3	mg/l
Silver (T)	1.1	mg/l
Zinc (T)	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
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BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Zacky Farms Packing **2950 E. California** **Fresno CA 93721**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-109607**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	0	0	0	7	7	0
2nd	1	1	0	8	8	0
3rd	0	0	0	8	8	0
4th	0	0	0	8	8	0
TOTAL	1	1	0	31	31	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Zacky Farms Packing

DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

INDUSTRIAL USER MONITORING AND COMPLIANCE STATUS REPORT – 2008

INDUSTRIAL USER NAME & ADDRESS	APPLICABLE FEDERAL CATEGORY & STANDARDS	PERMIT NUMBER
Zacky Farms Turkey **2222 S. East Avenue** **Fresno CA 93721**	**Non-Categorical** **General Pretreatment Standards**	**FI(d)-85591**

MONITORING STATUS

Quarter	Planned Inspections	Compliance Inspections	Enforcement Inspections	Planned Samples	Compliance Samples	Enforcement Samples
1st	1	1	0	9	9	0
2nd	0	1	0	7	7	0
3rd	0	1	0	8	8	0
4th	0	1	0	8	8	0
TOTAL	1	4	0	32	32	0

COMPLIANCE/ENFORCEMENT

Quarter	Warning Notices	Violation Notices	Administrative Orders	Penalties	Remarks
1st	0	0	0	0	
2nd	0	0	0	0	
3rd	0	0	0	0	
4th	0	0	0	0	
TOTAL	0	0	0	0	

COMPLIANCE STATUS

Quarter	Federal	Local	Summary
1st	CAC	CAC	
2nd	CAC	CAC	
3rd	CAC	CAC	
4th	CAC	CAC	

Zacky Farms Turkey
DISCHARGE LIMITS

Parameter	Local Limit	Units
Cadmium Cd	0.12	mg/l
Chromium Cr	6.7	mg/l
Copper Cu	2.5	mg/l
Lead Pb	1.2	mg/l
Nickel Ni	1.3	mg/l
Silver Ag	1.1	mg/l
Zinc Zn	2.1	mg/l
Oil & Grease O&G	700	mg/l
pH	6.0-12.4	Units

ABBREVIATIONS

(B)	Regarding Local and Federal Standard Violations	PCR	Periodic Compliance Report
(F)	Regarding Federal Standard Violation	PSES	Pretreatment Standards Existing Source
(L)	Regarding Local Standard Violation	PSNS	Pretreatment Standards New Source
BMR	Baseline Monitoring Report	SCO	Show Cause Order
CAC	Consistently Achieving Compliance	SMR	Self-Monitoring Report
CDO	Cease & Desist Order	SNC	Significant Noncompliance
CMO	Compliance Order	VNA	Violation Notice - Administrative
CNO	Consent Order	VND	Violation Notice - Discharge
ESS	Environmental Services Section	VNT	Violation Notice - Telephone
FMR	Flow Monitoring Report	WN	Warning Notice
IAC	Inconsistently Achieving Compliance		
NON	Notice of Compliance		

SUMMARY OF SIGNIFICANT CHANGES

The following changes occurred in 2008.

ELECTRICAL CONDUCTIVITY POLICY DEVELOPMENT

Violations of the monthly discharge requirements for electrical conductivity (EC), as established in Waste Discharge Requirements Order No. 5-01-254, occurred during the year 2008 in the months of January, February, May, June, July, August, September, October, November and December. All industrial users continue to be monitored for EC. Wastewater Management staff will continue to encourage industrial users to take any steps necessary to minimize EC discharge and thereby prevent the need to impose a limit. Requiring continuous monitoring of EC by those industrial users with historically highly electrically conductive effluents is still under consideration by ESS staff. A limit on total dissolved solids (TDS) is still under consideration in lieu of a numeric EC limit.

The "Salt is Serious" campaign, initiated on 10 May 2007, continues. The campaign is designed to educate citizens on the use of products which contain fewer salts, and which will therefore be more amenable to treatment at the POTW. The campaign is in print (brochures) as well as in radio and television ads, and is multi-lingual. The campaign was recognized statewide and nationally in 2008. The City of Fresno was recognized in January of 2008 by the Central San Joaquin Section of the California Water Environment Association at their annual awards banquet. This resulted in a second place award at the statewide CWEA annual conference. In addition, the City of Fresno Department of Public Utilities was notified in March 2008 that it had been selected by the National Association of Clean Water Agencies (NACWA) to receive a 2008 National Environmental Achievement Award in the Public Information & Education – Printed Publication category for its Seriousness of Salt program. The award was given at the NACWA Summer Conference in Anchorage, Alaska.

CITY OF FRESNO PRETREATMENT PROGRAM

The City of Fresno is currently operating under the Pretreatment Program as it was approved by the CRWQCB on 14 January 2004, and later revised to address reference changes to the recently updated Fresno Municipal Code and Joint Powers Agreements with the City of Clovis and the County of Fresno.

The Pretreatment Program document has been updated to include accurate references to changes made to the Fresno Municipal Code Chapter 6, Article 3 (formerly Chapter 9, Article 5). The Fats, Oils, and Grease (FOG) Program and Hauled Waste Program were also incorporated. The updated document will be submitted to the Regional Board once completed.

SIGNIFICANT INDUSTRIAL USERS

At the end of the fourth quarter, the list of Significant Industrial Users (SIUs) discharging to the POTW included 43 industries in the Fresno-Clovis metropolitan area. During the year 2008, one (1) Class I industrial user was reclassified to a Class II, one (1) SIU ceased operations, and two (2) new Class I industrial users came on-line. This represents a net increase of zero (0) SIUs from the year 2007 to 2008.

STAFFING – ENVIRONMENTAL SERVICES SECTION (ESS)

ESS staff currently includes one (1) Chief of Wastewater Environmental Services, one (1) Supervising Environmental Control Officer, seven (7) Environmental Control Officers (ECOs), one (1) Reclamation Coordinator, one (1) Programmer Analyst II, one (1) Senior Account Clerk. One Code Enforcement Specialist has been temporarily added to ESS. These represent a total of thirteen (13) positions. Laboratory Services is also included in the ESS staff. Laboratory staff includes one (1) Laboratory Supervisor, two (2) Senior Laboratory Technicians, one (1) Inorganic Chemist and seven (7) permanent, full-time Laboratory Technicians I/II. This represents a total of eleven (11) positions. These two groups represent a total of twenty-four (24) ESS employees.

WASTE DISCHARGE REQUIREMENTS

The Fresno-Clovis Regional Wastewater Reclamation Facility is currently operating under Waste Discharge Requirements (WDR) Order No. 5-01-254, adopted by the CRWQCB, Central Valley Region, at its regularly scheduled public meeting on 19 October 2001.

ANNUAL PRETREATMENT BUDGET

Total expenditures for 2008 represent all costs related to the execution of the pretreatment program and are grouped in the following areas:

- Total personnel costs associated within the Pretreatment subcategory of the treatment facility budget
- Personnel costs within the Laboratory subcategory for those activities associated with analyses of pretreatment samples
- Membership and activities in various pretreatment-based organizations
- Various supplies and services associated with the Pretreatment Program
- All interdepartmental charges associated with the Pretreatment Program
- Overhead costs, including fuel, vehicle maintenance, energy costs, etc.

The pretreatment program for 2008 incurred expenditures totaling $541,429. Funding for these expenditures are partially offset by pretreatment surcharges and enforcement charges, which total $418,293. The remainder of the funding comes from the Pretreatment section of the City of Fresno Wastewater Management Division annual budget.

PUBLIC PARTICIPATION

The Wastewater Management Division (WMD) of the City of Fresno participated in various events and activities during the year 2008 in an effort to increase public awareness of the important role of wastewater reclamation in society and the specific role of the Fresno-Clovis Regional Wastewater Reclamation Facility (RWRF) in our community. Audiences ranged from elementary school children to adults from various community groups, and included tours and informational displays at public events. WMD's most common outreach activity in 2008 was facility tours. Fresno Audubon Society members recorded numerous visits to the facility's ponds to observe and count migratory birds. Public events such as home and garden shows have the greatest return in numbers of customers contacted. Informational booths provide materials to interested parties and allow for one-on-one contact with the public. Classroom presentations may include a wastewater video, slides of the facility, and various activities and informational handouts. Time for questions and answers is also provided. The goal is to make the program interesting and appealing to students and teachers. *(See Table of Events)*

Compliance with 40 CFR Part 25, concerning public participation in the enforcement of national pretreatment standards, requires that Industrial Users in Significant Noncompliance (SNC) be published in the local newspaper, *The Fresno Bee.* Publication includes the cause of the SNC status and the current compliance status. There were no Significant Industrial Users in SNC for calendar year 2007; therefore no publication occurred in 2008. LiDestri Foods, Inc. was in SNC for calendar year 2008; Public Notice will be published in calendar year 2009.

Table of Events

Date of Event 2008	Type of Activity / Event	Name of Group (Number in Attendance)
January 14	Bird Watching	Fresno Audubon Society (4)
January 18	Bird Watching	Fresno Audubon Society (1)
January 23	RWRF Plant Tour	City of Fresno Fire Dept. Employees (3)
January 26	Bird Watching	Fresno Audubon Society (6)
February 1	Bird Watching	Fresno Audubon Society (1)
February 8	RWRF Plant Tour	ATF (5) & City of Fresno Fire Dept. (1) Employees
February 17	Bird Watching	Fresno Audubon Society (1)
February 27	Bird Watching	Fresno Audubon Society (2)
March 7	Materials Distribution	Fresno Home & Garden Show (100)
March 8	Materials Distribution	Fresno Home & Garden Show (250)
March 9	Materials Distribution	Fresno Home & Garden Show (200)
March 10	RWRF Tour/Interviews	KBTV – Hmong TV (2)
March 11	RWRF Laboratory Tour	CSU, Fresno Students & Staff (5)
March 13	Bird Watching	Fresno Audubon Society (1)
March 19	Bird Watching	Fresno Audubon Society (21)
March 26	RWRF Plant Tour	Fresno High School, FUSD Students & Staff (45)
March 28	Bird Watching	Fresno Audubon Society (1)

Date of Event 2008	Type of Activity / Event	Name of Group (Number in Attendance)
March 29	Bird Watching	Wild Bird Center (21)
March 29	Bird Watching	Fresno Audubon Society (2)
April 2	RWRF Plant Tour	Private Citizens (2)
April 6	RWRF Plant Tour	Private Citizens (5)
April 15	RWRF Plant Tour	Private Citizens (2)
April 15	RWRF Plant Tour	Harvest Elementary, CUSD Students & Staff (35)
April 17	RWRF Plant Tour	Private Citizen (1)
April 18	RWRF Plant Tour	Private Citizens (2)
April 22	RWRF Plant Tour	Private Citizen (1)
April 25	Bird Watching	Fresno Audubon Society (2)
March 29	Bird Watching	Fresno Audubon Society (2)
May 2	Bird Watching	Fresno Audubon Society (1)
May 7	RWRF Plant Tour	Edison High School Staff (19)
May 20	Materials Distribution	APWA Event @ Fresno City Hall (150)
May 21	RWRF Plant Tour	Yokomi Elementary, FUSD Students & Staff (40)
May 24	Bird Watching	Fresno Audubon Society (1)
May 24	RWRF Plant Tour	FPD Employee (1)
May 29	RWRF Plant Tour	Private Citizens (2)
June 1	Bird Watching	Fresno Audubon Society (3)
June 4	RWRF Plant Tour	Private Citizens (5)
June 8	RWRF Plant Tour	Private Citizens (1)
June 18	RWRF Plant Tour	Private Citizens (1)
June 25	RWRF Plant Tour	CSU, Fresno Students (2)
June 26	Bird Watching	Fresno Audubon Society (1)
June 27	Bird Watching	Fresno Audubon Society (2)
June 28	Bird Watching	Fresno Audubon Society (6)
July 8	RWRF Plant Tour	CSU, Fresno Students & Staff (5)
July 10	RWRF Plant Tour	CSU, Fresno Students (4)
July 16	Bird Watching	Fresno Audubon Society (2)
July 25	RWRF Plant Tour	Private Citizen (1)
August 5	Bird Watching	Fresno Audubon Society (2)
August 15	Bird Watching	Fresno Audubon Society (2)
September 3	RWRF Plant Tour	Private Citizens (3)
September 9	Bird Watching	Fresno Audubon Society (1)
September 12	Bird Watching	Fresno Audubon Society (1)
September 13	Bird Watching	Fresno Audubon Society (1)

Date of Event 2008	Type of Activity / Event	Name of Group (Number in Attendance)
September 19	Bird Watching	Fresno Audubon Society (2)
September 20	Bird Watching	Fresno Audubon Society (2)
September 23	Bird Watching	Fresno Audubon Society (7)
September 26	Bird Watching	Fresno Audubon Society (1)
October 5	Bird Watching	Fresno Audubon Society (1)
October 7	Bird Watching	Fresno Audubon Society (1)
October 10	RWRF Tour	Private Citizens (2)
October 13	Materials Distribution	Clean & Green Day @ the Big Fresno Fair (200)
October 21	Bird Watching	Fresno Audubon Society (1)
October 24	Materials Distribution	Fall Home Improvement & Redecorating Show (100)
October 25	Materials Distribution	Fall Home Improvement & Redecorating Show (200)
October 26	Materials Distribution	Fall Home Improvement & Redecorating Show (150)
October 29	RWRF Plant Tour	Fresno High School, FUSD Students & Staff (45)

CITY OF FRESNO
DEPARTMENT OF PUBLIC UTILITIES
FRESNO – CLOVIS REGIONAL WASTEWATER RECLAMATION FACILITY
2008 ANNUAL BIOSOLIDS REPORT
WDR 5-01-254

GENERAL

A. Name of Generator:

Fresno-Clovis Regional Wastewater Reclamation Facility (RWRF)

B. Location of Generator:

5607 West Jensen Ave., Fresno, CA 93706.

C. Sludge Treatment Process:

The RWRF is a wastewater secondary treatment facility with extensive pretreatment program. The RWRF received 25,188 million gallons of wastewater in 2008 (table 1). The primary sludge and thickened secondary sludge is fed to 11 anaerobic digesters for further treatment. The supernatant from these digesters are fed to a 12th digester for holding prior to being dewatered by seven belt filter presses (BFP). The dewatered cake at 15.2-19.5% solids is collected and stored in a sludge silo prior to being transported off-site for final disposal.

SLUDGE QUALITY

A. Sludge Quantity:

Biosolids production during the year 2008 was 15,734 dry metric tons (table 2) with Average of 16.3 percent solids.

B. Ultimate Disposal Site:

Liberty Farms from Corcoran, California and Earthwise Organics from Merced County, California have a contract with the City of Fresno for the disposal and beneficial reuse of Biosolids during the year 2008. Liberty Farms has taken 44,656 wet tons to the San Joaquin composting Facility located in Lost Hills, California in Kern County, for use in its co-composting operation. Earthwise Organics, a subsidiary of Synagro West, has taken 61,988 wet tons to Central Valley Composting Facility in Dos Palos, California at Merced County of which 50,791 wet tons were used for composting and 11,197 wet tons were land applied.

- Liberty Farms received 7,285 dry metric tons of RWRF Biosolids.
- Earthwise Organics received 10,062 dry metric tons of RWRF Biosolids.

C. **Pollutants:**

The belt filter press sludge was sampled monthly utilizing the composite of random grab samples over the conveyor belt or a composite of each operating belt filter cake. All belt filters were fed from a digester which receives the supernatants from all 11 digesters and it is continuously in mix mode. The analytical results are tabulated in Table 3 as a dry weight equivalent which are calculated from the analytical results of wet weights (table 4) and the percent solids.

D. **Pathogens:**

Appendix B to Part 503, pathogen treatment process, defines the processes to significantly reduce pathogens (PSRP). For anaerobic digestion, the values for the mean Cell Residence Time (SRT) are 15 days at 35 to 55 o Celsius and 60 days at 20o Celsius. A straight line interpolation was used when the temperature fell between 20o and 35o Celsius. The City of Fresno during the year 2008 had 11 digesters in operation. The 15-day average SRT for any digester ranged from 22 to 31 days with yearly average of 26 days (table 5). The average monthly temperature for each digester ranged from 36.9 to 37.9 degree Celsius with a yearly average of 37.4 degrees (Table 6). Based on these SRT and temperature regimes, the Biosolids produced in this plant meet class B Biosolids requirement of PSRP.

E. **Vector Attraction Reduction:**
Vector attraction reduction was achieved via 40 CRF 503.33 (b) (1) volatile solids reduction of greater than 38%. The average volatile reduction for digesters ranged between 57 to 65% with a yearly average of 61% (Table 7)

F. **Organic compounds:**

Quarterly organic analysis for methods EPA 8081A and EPA 8270 are enclosed

CERTIFICATION STATEMENT

I certify, under penalty of law, that the Class B pathogen requirements in 40 CFR 503.32(b) (3), and the vector attraction reduction in 40 CFR 503.33 (b) (1) has been met. This determination has made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine the Pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Rick Staggs
Chief of Wastewater Operations

1-23-09
Date

Fresno - Clovis Regional Wastewater Reclamation Facility
Year 2008

Table 1. Daily influent, MGD

Day / Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	61.58	68.21	64.70	67.97	68.77	63.44	70.22	72.15	67.24	72.98	66.33	68.38
2	67.35	64.50	62.41	67.52	68.69	69.01	70.00	67.22	72.98	72.48	69.91	69.38
3	69.51	70.09	67.10	68.01	64.84	70.26	70.35	64.29	73.60	73.05	71.13	70.54
4	76.96	69.22	67.57	68.40	62.40	70.54	65.59	70.63	73.92	69.39	72.41	70.38
5	79.63	69.00	68.11	64.73	67.90	70.48	62.86	71.74	72.78	66.71	71.80	70.38
6	68.84	69.34	68.12	62.37	68.65	70.36	62.08	72.05	71.18	72.05	72.06	66.52
7	70.13	68.90	68.58	67.52	68.88	65.59	69.63	71.33	68.48	72.30	71.27	64.06
8	69.98	68.44	59.38	67.86	68.86	63.12	71.62	71.84	72.88	71.85	66.88	69.66
9	70.28	64.37	67.65	67.66	68.69	68.93	71.44	67.12	74.11	72.35	66.36	69.82
10	70.40	61.93	68.36	68.05	64.34	70.45	73.11	64.12	74.40	72.76	69.46	70.50
11	70.67	67.60	67.63	68.49	61.39	69.88	73.11	71.00	73.72	68.43	72.23	69.51
12	67.90	68.65	67.45	63.51	66.98	69.84	68.90	72.38	73.69	66.81	71.20	69.99
13	65.00	67.83	67.81	60.98	68.32	71.17	64.61	72.19	70.00	72.20	70.71	67.71
14	69.88	67.99	63.33	67.12	69.22	67.34	71.28	72.73	67.16	72.42	70.17	63.73
15	70.31	67.49	60.52	67.22	69.56	62.63	72.59	72.49	72.50	73.28	66.49	73.71
16	70.77	63.62	65.97	68.20	70.30	68.97	72.14	67.58	72.09	73.06	64.70	69.51
17	71.47	60.72	65.97	68.33	67.79	71.22	71.94	65.41	73.35	72.67	69.56	67.56
18	70.57	63.52	66.54	68.94	63.43	70.90	71.91	71.92	73.24	67.71	68.74	68.80
19	69.70	67.63	66.68	63.96	68.89	70.51	66.79	73.45	73.04	66.30	70.57	69.11
20	64.68	72.38	67.16	62.08	69.83	71.33	63.80	73.79	68.79	72.06	69.40	66.21
21	69.60	69.87	66.54	67.88	69.11	66.39	70.55	73.75	66.65	71.28	68.56	63.67
22	66.29	70.87	63.27	68.69	69.57	63.01	72.37	74.68	71.60	71.55	65.58	70.04
23	75.44	64.77	60.41	68.15	69.41	69.30	72.39	70.30	71.98	72.10	63.20	69.10
24	77.17	65.85	67.13	68.20	66.01	71.26	71.94	67.60	72.29	71.86	68.27	68.46
25	69.82	68.42	68.86	69.03	61.75	71.30	72.85	72.96	73.44	67.15	70.13	60.64
26	66.24	68.49	68.52	64.63	62.90	71.58	68.98	73.04	73.34	65.14	76.77	64.07
27	69.37	67.89	69.03	62.50	69.20	72.28	63.50	73.22	68.85	71.11	66.30	63.54
28	72.84	68.41	68.85	68.35	70.83	66.73	69.95	73.50	66.53	71.60	62.72	62.21
29	70.02	68.46	63.91	68.46	70.62	63.49	71.17	73.81	72.53	71.36	63.81	67.01
30	69.15		61.67	69.16	70.30	69.65	71.01	69.42	72.78	71.18	63.31	66.36
31	69.60		68.09		66.10		72.14	64.90		71.39		66.57
Total	**2171**	**1954**	**2047**	**2004**	**2094**	**2061**	**2161**	**2193**	**2149**	**2197**	**2060**	**2097**

Values are in Million Gallons per Day, MGD

TABLE 2. Monthly Biosolids production, year 2008

Month	LBC Wet ton	CVC compost Wet ton	CVC , land applied, Wet ton	Total EWO Wet Tons	% Solids	LBC Dry ton	CVC Dry ton	LBC Dry metric ton	CVC Dry metric ton	Total metric ton
Jan	3,975	4,211	567	4,778	16.0	637	765	577	694	1,272
Feb	4,101	4,204	0	4,204	15.7	644	660	584	599	1,183
Mar	4,500	2,015	2,826	4,841	15.2	684	736	620	667	1,288
Apr	5,066	4,323	807	5,129	15.5	785	795	712	721	1,433
May	5,270	4,738	0	4,738	15.2	801	720	727	653	1,380
Jun	4,947	4,504	0	4,504	19.5	965	878	875	797	1,672
Jul	4,439	4,822	0	4,822	16.4	728	791	660	717	1,377
Aug	3,653	4,422	0	4,422	17.3	632	765	573	694	1,267
Sep	2,954	4,195	1,275	5,471	16.6	490	908	445	824	1,268
Oct	1,962	4,654	2,241	6,895	16.3	320	1,124	290	1,019	1,309
Nov	1,477	3,787	2,250	6,036	15.4	227	930	206	843	1,049
Dec	2,312	4,917	1,231	6,147	16.1	372	990	338	898	1,235
Total	**44,656**	**50,791**	**11,197**	**61,988**	**16.3**	**7,285**	**10,062**	**6,608**	**9,126**	**15,734**

LBC: Liberty Composting, Inc

CVC: Central Valley Composting

Fresno-Clovis Wastewater Reclamation Facility
Biosolid Pollutants Year 2008

Table 3. Biosolids Pollutants , Dry Weight

	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Zinc
Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
01/07/08	8.7	1.9	52.4	276	17	1.2	9.2	21.2	6.2	1118
02/04/08	10.8	1.9	54.1	334	18	1.3	10.3	23.9	6.4	1159
03/03/08	7.9	2.0	44.7	261	18	1.3	8.6	19.0	6.6	921
04/07/08	8.4	1.9	38.7	232	17	1.3	8.5	17.4	5.8	839
05/05/08	15.2	2.0	40.9	220	14	0.7	8.4	19.4	26.4	792
06/02/08	7.2	1.5	31.7	181	11	1.0	7.8	14.3	2.6	691
07/07/08	7.3	1.2	34.8	270	16	1.2	9.3	16.3	4.3	1000
08/12/08	6.4	1.2	40.0	218	17	1.2	10.5	17.1	4.1	840
09/08/08	7.8	1.8	44.6	247	17	1.8	13.6	21.2	4.8	874
10/06/08	8.3	1.2	46.6	232	15	0.9	15.1	17.8	5.2	779
11/03/08	10.4	1.3	48.1	249	17	1.3	13.6	20.8	5.8	877
12/01/08	9.9	1.2	46.0	244	16	1.2	11.8	26.7	5.6	820
Average	**9.0**	**1.6**	**44**	**247**	**16**	**1.2**	**11**	**20**	**7.0**	**892**
Maximum	**15.2**	**2.0**	**54**	**334**	**18**	**1.8**	**15**	**27**	**26.4**	**1159**
Minimum	**6.4**	**1.2**	**32**	**181**	**11**	**0.7**	**7.8**	**14**	**2.6**	**691**
Ceiling (Table 1)	**75**	**85**	**3000**	**4300**	**840**	**57**	**75**	**420**	**100**	**7500**
Monthly (Table 3)	**41**	**39**	**1200**	**1500**	**300**	**17**	**18**	**420**	**36**	**2800**

Ceiling (Table 1)and Monthly(table 3) both refer to 40 CFR 503 biosolids regulations.

Approved by:

Rosa Lau Staggs, Chief of Environmental Services

1/22/09
Date

Fresno-Clovis Regional Wastewater Reclamation Facilities

Year 2008

TABLE 4. Biosolids pollutants monthly average on wet weight basis

	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury*	Molybdenum	Nickel	Selenium	Zinc	%solids
Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
1/7/2008	1.4	0.3	8.4	44.2	2.8	0.2	1.47	3.39	1.0	179	16.0
2/4/2008	1.7	0.3	8.5	52.5	2.9	0.2	1.62	3.76	1.0	182	15.7
3/3/2008	1.2	0.3	6.8	39.7	2.7	0.2	1.3	2.89	1.0	140	15.2
4/7/2008	1.3	0.3	6.0	35.9	2.6	0.2	1.32	2.69	0.9	130	15.5
5/5/2008	2.3	0.3	6.2	33.4	2.1	0.1	1.28	2.94	4.0	120	15.2
6/2/2008	1.4	0.3	6.2	35.4	2.2	0.2	1.53	2.8	0.5	135	19.5
7/7/2008	1.2	0.2	5.7	44.2	2.6	0.2	1.52	2.68	0.7	164	16.4
8/12/2008	1.1	0.2	6.9	37.6	2.9	0.2	1.82	2.95	0.7	145	17.3
9/8/2008	1.3	0.3	7.4	40.9	2.8	0.3	2.25	3.52	0.8	145	16.6
10/6/2008	1.4	0.2	7.6	37.8	2.5	0.15	2.46	2.9	0.85	127	16.3
11/03/08	1.6	0.2	7.4	38.4	2.6	0.2	2.1	3.21	0.9	135	15.4
12/01/08	1.6	0.2	7.4	39.3	2.6	0.20	1.9	4.3	0.9	132	16.1
AVE	**1.45**	**0.26**	**7.04**	**40**	**2.61**	**0.20**	**1.71**	**3.17**	**1.10**	**145**	**16.3**
MAX	**2.30**	**0.30**	**8.50**	**53**	**2.90**	**0.30**	**2.46**	**4.30**	**4.00**	**182**	**19.5**
MIN	**1.10**	**0.20**	**5.70**	**33**	**2.10**	**0.10**	**1.28**	**2.68**	**0.50**	**120**	**15.2**

Biosolids monthly nutrient average on wet weight basis

	Ammonia-N	Nitrate-N	TKN	TN	Phosphrous
Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
01/07/08	1760	<1.0	9751	9751	5740
02/04/08	1711	<1.0	10181	10181	5760
03/03/08	1739	<1.0	9563	9563	5420
04/07/08	1830	<1.0	9853	9853	5265
05/05/08	1719	<1.0	9435	9435	5410
06/02/08	1762	1.36	9407	9408	5700
07/07/08	2231	1.55	9494	9496	6190
08/12/08	1464	1.24	10992	10993	5760
09/08/08	1590	<1.0	10421	10422	5300
10/06/08	1713	<1.0	9470	11183	5020
AVE	**1751.9**	**1.4**	**9857**	**10029**	**5557**
MAX	**2231.0**	**1.6**	**10992**	**11183**	**6190**
MIN	**1464.0**	**1.2**	**9407**	**9408**	**5020**

Approved by:

Rosa Lau Staggs, Chief of Environmental Services

1/22/09
Date

15 -day Average SRT for year 2008

Table 5

Month	Dig. # 1	Dig. # 2	Dig. # 3	Dig. # 4	Dig. # 5	Dig. # 6	Dig. # 7	Dig. # 8	Dig. # 9	Dig. # 10	Dig. # 11	Dig. # 12	Average
Jan	45	33	28	28	33	33	33	33	27	27	27	27	31
Feb		30	28	28	31	34	33	33	24	25	25	25	29
Mar		26	24	25	26	29	28	28	21	19	19	19	24
Apr		33	31	31	33	37	36	36	18	19	18	18	28
May		27		25	26	28	28	28	17	17	17	18	23
Jun		27	29	27	27	29	29	29	18	18	18	18	24
Jul		26	29		25	28	28	28	19	19	19	19	24
Aug	29		27		24	27	27	27	19	20	20	19	24
Sep	26		28		25	28	28	30	22	22	22	22	25
Oct	26		29		25	28	28	28	25	25	25	25	26
Nov	30		33	33	28	32	32	31	26	26	26	26	29
Dec	27		30	29	29	31	30	30	27	27	27	27	28
Average	**31**	**29**	**29**	**28**	**28**	**30**	**30**	**30**	**22**	**22**	**22**	**22**	**26**

Digester # 1 and 2 are used as BFP feed resevoir alternatively during a given month

Monthly Average Temperature °C for year 2008

Table 6

Month	Dig. # 1	Dig. # 2	Dig. # 3	Dig. # 4	Dig. # 5	Dig. # 6	Dig. # 7	Dig. # 8	Dig. # 9	Dig. # 10	Dig. # 11	Dig. # 12	Average
Jan	37.3	37.7	37.0	37.0	34.3	34.6	35.1	35.4	37.1	37.2	37.2	37.1	36.4
Feb		37.5	37.2	37.3	37.2	36.3	36.3	36.8	37.2	37.3	37.3	37.2	37.1
Mar		37.7	37.4	37.5	37.3	37.7	37.1	37.8	37.2	37.4	37.4	37.4	37.4
Apr		37.9	37.7	37.6	37.7	37.8	37.3	37.7	37.5	37.5	37.5	37.5	37.6
May		38.2		37.7	37.6	38.1	37.1	37.7	37.3	37.4	37.4	36.6	37.5
Jun		38.4	37.4	37.6	37.7	38.2	37.5	38.5	37.5	37.0	37.0	35.2	37.5
Jul		38	37.7		38	38	38	38	38	38	38	38	37.8
Aug	37.8		37.6		37.9	38.7	37.6	38.7	37.6	37.6	37.6	37.7	37.9
Sep	37.3		37.3		37.5	37.9	37.1	37.9	37.6	37.6	37.6	37.6	37.5
Oct	37.6		37.7		36.9	37.0	37.2	37.6	37.5	37.5	37.5	37.6	37.4
Nov	37.6		37.6	37.2	37.5	36.5	36.8	37.5	37.5	37.5	37.5	37.5	37.3
Dec	37.1		37.4	37.6	36.3	35.0	35.6	36.6	37.5	37.5	37.5	37.5	36.9
Average	**37.4**	**37.9**	**37.5**	**37.4**	**37.1**	**37.2**	**36.9**	**37.5**	**37.4**	**37.4**	**37.4**	**37.2**	**37.4**

Average Monthly Vector Attraction Reduction for Year 2008

Table 7

Month	Dig. # 1	Dig. # 2	Dig. # 3	Dig. # 4	Dig. # 5	Dig. # 6	Dig. # 7	Dig. # 8	Dig. # 9	Dig. # 10	Dig. # 11	Dig. # 12	Average
Jan	67	59	53	55	50	51	56	57	63	66	66	65	63
Feb		62	54	59	52	52	55	52	60	62	60	61	60
Mar		63	59	62	52	56	56	57	54	55	54	54	57
Apr		67	65	67	60	67	60	68	53	53	53	56	61
May		69	71	70	65	76	67	75	53	55	55	63	65
Jun		65	70	65	64	73	68	72	54	54	55	57	63
Jul		67	71		65	76	69	74	56	55	56	58	65
Aug	70		71		65	74	67	73	57	57	56	57	65
Sep	61		61		60	64	65	63	57	59	58	60	61
Oct	55		53		57	57	62	54	56	57	56	57	56
Nov	62		60	65	63	63	67	60	63	65	65	65	63
Dec	59.3		54.2	59.3	57.0	57.6	63.4	53.5	57.7	58.8	58.4	60.1	58
Average	**62**	**65**	**62**	**63**	**59**	**64**	**63**	**63**	**57**	**58**	**58**	**59**	**61**

EFFECTIVENESS OF THE PRETREATMENT PROGRAM IN 2008

Evaluating the Pretreatment Program is a multi-faceted process, noting how well adverse conditions are avoided or minimized for the POTW. Situations may arise that could interfere with the treatment process or pass through the treatment works thereby causing the municipality to violate its NPDES permit or, in the case of Fresno, its Waste Discharge Requirements. In addition, the opportunity to reclaim and recycle municipal and industrial wastewater and biosolids is also reviewed.

Interference

There are three ways to measure interference in a POTW: 1) hydraulically overloading the treatment facility, 2) physically disrupting or obstructing the flow in the collection system, or 3) inhibiting the treatment process by chemical, physical, or thermal means.

The POTW is aware of the hydraulic loading situation. With an annual average daily flow of 68.82 MGD for 2008, a treatment facility rated at 80 MGD is still able to handle the volume of influent. As a matter of information, the annual average daily flow entering the facility has been steadily decreasing over the past few years. Storm flow is a separate issue; though storm events will stress the process, the facility staff has been diligent in maintaining compliance with its Waste Discharge Requirements.

Physical disruption in the collection system mainly occurs with grease in the sewer lines causing obstruction. To prevent instances of line blockages which might result in a sanitary sewer overflow, a regular maintenance program has been established for the collection system. Although decreasing, blockages still occur as a result of grease and are investigated and addressed when reported.

On 2 May 2006, the statewide General Waste Discharge Requirements for Sanitary Sewer Systems became effective. One aspect of the required Sewer System Management Plan is the development of a Fats, Oils, and Grease (FOG) Program. The City of Fresno implemented its FOG Program in October 2006. The inspection and permitting process was streamlined to be more efficient. When FOG inspections are conducted, Best Management Practices (BMPs) are discussed with the staff present and a poster summarizing those BMPs are left for the Food Service Establishment (FSE). A wastewater discharge permit is then completed and signed; the FSE receives the original and a copy is brought back to the POTW to be filed. In addition, the information is entered into an Excel spreadsheet.

In conjunction with the FOG Program, the City of Fresno developed public education material for the residential sector. These include television and radio commercials, which began in 2005, door hangers and brochures – written in English, Spanish, and Hmong – which contain BMPs for the homeowners, and informational newsletters that are inserted in the bimonthly utility bill. The brochures are available at information booths which are set up at various public events or handed out at a speaking engagement. The door hangers are identical to the brochures and are placed on the doors of neighborhoods that have experienced line blockages due to grease. Effectiveness of the FOG Program will take some time to fully evaluate but based on public response and the number of calls for grease-related sewer blockages, the initial perception indicates a positive impact.

Inhibition of plant processes is the most applicable measure of interference. Physical inhibition occurs if solid objects or grease physically obstruct the various pumps during the treatment process. With the local limits and monitoring program as it is in Fresno, physical inhibition is not an issue. In addition, the vastness of over 1,700 miles of sewer lines discharging to the POTW,

coupled with the remote location of the treatment facility provide an adequate temperature buffer, negating any potential thermal inhibition.

Pass Through

In 2008, the Wastewater Reclamation Facilities experienced ten pass through violations for electrical conductivity (EC). The problems encountered with biochemical oxygen demand (BOD) and total suspended solids (TSS) in the past have steadily decreased from being a concern in 2001 to nonexistent in 2005, which continued as such in 2008. As can be found in the following chart, there were no daily or monthly violations for BOD or TSS in 2008.

	POTW BOD Violations		POTW TSS Violations	
Year	Daily	Monthly	Daily	Monthly
2001	28	5	32	5
2002	7	3	6	2
2003	6	3	7	0
2004	1	0	0	0
2005	0	0	0	0
2006	0	0	0	0
2007	0	0	0	0
2008	0	0	0	0

Similar to FOG reduction, addressing EC issues requires another multi-faceted approach. EC source reduction is encouraged for the industrial sector. The staff in the Operations Section at the POTW also works hard to nitrify and denitrify the wastewater in an attempt to reduce ammonia-based EC. In addition, the Pretreatment Program is targeting the commercial and residential sectors and has developed public information material to address the salinity issue facing the Fresno region as well as the entire Tulare Lake Basin. The public education approach again includes television and radio commercials in English and Spanish, brochures, posters, and utility bill inserts.

Reclamation Opportunities

Data collection is ongoing to improve opportunities to recycle and reclaim POTW by-products. The effluent quality is sufficiently high to create interest in utilizing reclaimed wastewater. A reclamation coordinator has been working with farmers and irrigation districts to encourage additional reclamation opportunities. The main barrier to reclamation activities is the high cost of piping, obtaining easements and right of ways, and addressing water right and water balance issues.

For 2008, biosolids samples were collected quarterly and analyzed for organochlorine pesticides, using EPA Method 8081A, and semivolatile organic compounds, using EPA Method 8270. In addition, biosolids samples were composited in September 2008 as part of the annual pretreatment sampling; besides the organochlorine pesticides and semivolatile organic compounds, the sample was analyzed for volatile organic compounds using EPA Method 8260 and Dioxin using EPA Method 8280.

Since the quarterly sampling program began in 2001, there have been no organochlorine pesticides detected in the biosolids. The results of the analyses for 2008 are summarized in the table below.

Biosolids Organic Analyses
2008

	Date Collected				
Analytical Method	Jan-08	Apr-08	Jul-08	30-Sep-08	Oct-08
EPA 8081A (mg/Kg)	ND	ND	ND	ND	ND
8260 (mg/Kg)					
p-Isopropyltoluene				0.30	
1,2,4-Trimethylbenzene				0.091	
8270C (mg/Kg)	ND	ND	ND		ND
Phenol				12	
8280				ND	

Heavy metal samples are collected monthly from the influent and effluent to trend the metals loading through the plant. Table 10-1 summarizes influent pounds for metals in 1981 and 1991 through 2008 while Table 10-2 summarizes the effluent pounds for the same time period. Table 10-3 summarizes the influent concentration. Table 10-4 graphically represents the pounds and concentration for each influent metal along with the plant annual average flow summary for the same time periods. Table 10-5 summarizes the pounds for each effluent metal.

Interpreting the significance of the metals results is a challenge. The pounds of arsenic, cadmium, copper, mercury, selenium, and silver increased at various rates in the influent from 2007 to 2008. Of all these metals, only cadmium showed an increase in the effluent; the effluent pounds of remainder of this set (arsenic, copper, mercury, selenium, and silver) decreased. Both influent and effluent pounds of chromium, lead, molybdenum, and nickel decreased from 2007 to 2008. The pounds of zinc decreased in the influent from 2007 to 2008 but showed an increase in the effluent.

Biosolids are also monitored monthly for metals. Table 10-6 summarizes the mg/Kg of biosolids on a dry weight basis while Table 10-7 summarizes in pounds per day. Care must be taken to consider the scale of each chart so as to not be deceived by seemingly large spikes. That being done, the pounds per day of arsenic, copper, and zinc increased while the pounds per day of cadmium, chromium, lead, mercury, molybdenum, nickel, selenium, and silver decreased from 2007 to 2008. The increases were nonsignificant such that all metals levels meet the criteria for land spreading as a means of biosolids disposal. This method of disposal has more comprehensive requirements for the disposal options being considered. Based on the 40 CFR 503 Regulations and the California Hazardous Waste Regulations, all biosolids disposal options are viable with our biosolids quality.

Staff has worked diligently to develop Fresno's Pretreatment Program into one that can be a source of pride for the service area. The elements of 40 CFR 403 are being implemented while also making strides to fulfill the objectives of the regulations. With the industrial sector closely monitored, staff can now direct its attention to continuing with its FOG Program and expanding public education activities for FOG, salinity, and endocrine disrupting compounds.

TABLE 10-1
SUMMARY OF INFLUENT POUNDS

Influent Pounds

	1981	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Antimony													0	0.0	2.3	1.47	1.21	1.41
Arsenic	1.0	1.0	1.5	1.4	2.0	2.0	1.1	1.1	1.1	1.1	1.4	1.3	1.5	0.6	0.7	1.01	1.21	3.94
Barium											48.2	46.7	51.7	45.2	45.0	42.89	45.90	42.33
Beryllium												0.0	0.0	1.5	1.5	1.47	1.21	0.09
Cadmium	0.4	0.3	0.7	0.9	0.5	0.4	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.5	0.1	0.29	0.42	0.29
Chromium	40.3	7.1	10.7	10.0	13.0	15.2	5.3	5.6	6.0	5.3	5.0	4.6	5.5	5.5	5.0	4.34	5.44	4.70
Copper	43.6	17.9	21.2	33.3	34.0	26.2	21.2	21.0	21.0	24.3	29.6	29.4	27.9	35.2	30.6	37.24	35.03	24.33
Lead	19.1	7.8	9.2	14.7	8.9	7.0	5.7	4.5	5.8	5.3	4.9	3.8	4.4	5.6	2.1	2.46	3.02	1.78
Mercury	0.3	0.2	0.3			0.2	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.12	0.09
Molybdenum				3.7	4.7	4.4	3.5	3.6	5.4	4.9	4.9	5.0	6.4	10.1	4.5	3.75	9.66	6.00
Nickel	27.4	6.8	6.7	11.4	5.1	16.3	4.4	5.0	6.1	5.6	7.6	4.4	6.1	8.5	5.7	6.24	4.83	2.97
Selenium											1.0	0.3	0.6	0.3	0.9	0.32	1.81	4.36
Silver	2.6	2.0	1.7	3.2	3.1	2.5	3.4	1.9	2.0	2.1	2.6	1.8	2.2	2.0	1.5	1.30	0.85	2.23
Thallium												0.0	0.0	1.4	1.5	1.43	1.21	0.17
Zinc	151.0	75.3	125	141.0	152.0	125.5	96.3	101.0	103.0	88.7	91.4	93.6	93.3	93.1	101.0	101.55	102.06	94.34

	2008																	
Antimony	1.76																	
Arsenic	5.87																	
Barium	41.69																	
Beryllium	0.15																	
Cadmium	0.52																	
Chromium	4.27																	
Copper	25.85																	
Lead	1.47																	
Mercury	0.27																	
Molybdenum	3.82																	
Nickel	2.94																	
Selenium	7.34																	
Silver	2.94																	
Thallium	0.29																	
Zinc	90.73																	

TABLE 10-2
SUMMARY OF EFFLUENT POUNDS

Effluent Pounds

	1981	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Antimony											0.3		0	0	2.0	0.83	1.21	1.05
Arsenic	0.7	0.7		1.1	1.5	1.3	1.6	0.9	0.5	0.8	1.2	0.8	0.7	0.7	0.5	0.70	1.21	3.49
Barium											11.9	12.9	7.4	14.4	14.2	10.10	9.66	9.11
Beryllium											0.0	0.0	0.0	0.0	1.5	0.77	1.21	0.10
Cadmium	0.3	0.4	2.8	0.1	0.2	0.3	0.2	0.3	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.05	0.30	0.11
Chromium	23.5	3.5	4.9	3.9	2.4	2.0	2.3	2.6	1.7	1.5	0.9	0.0	0.0	0.3	1.5	1.17	1.21	0.82
Copper	10.1	2.8	4.1	4.6	3.9	4.3	4.3	3.7	4.0	3.7	3.7	2.9	0.0	2.0	1.7	3.83	4.23	3.27
Lead	3.4	0.9	1.0	1.3	1.5	3.4	2.3	1.3	1.9	1.5	0.8	0.3	0.6	0.4	0.4	0.38	1.21	0.89
Mercury	0.3	0.1		0.0	0.1		0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.1	0.13	0.06	0.43
Molybdenum	0.0	0.0	0.0	3.3	3.6		5.4	2.5	3.9	4.3	4.0	3.6	4.8	5.7	3.8	3.01	2.42	3.87
Nickel	26.8	3.4	3.8	6.5	2.6	5.6	4.5	3.0	4.1	4.3	5.2	1.9	1.7	3.5	2.5	3.35	1.81	2.35
Selenium					1.8		1.1	0.0	0.1	0.4	0.5	0.0	0.0	0.1	0.4	0.51	1.81	4.90
Silver	0.1	0.0		0.9	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.13	0.30	1.63
Thallium											1.1	0.0	0.0	0.0	1.5	0.80	1.21	0.16
Zinc	36.9	24.1	30.0	51.0	26.0	21.0	50.0	27.0	14.0	15.0	18.9	20.0	18.4	22.2	20.2	22.94	21.14	20.80

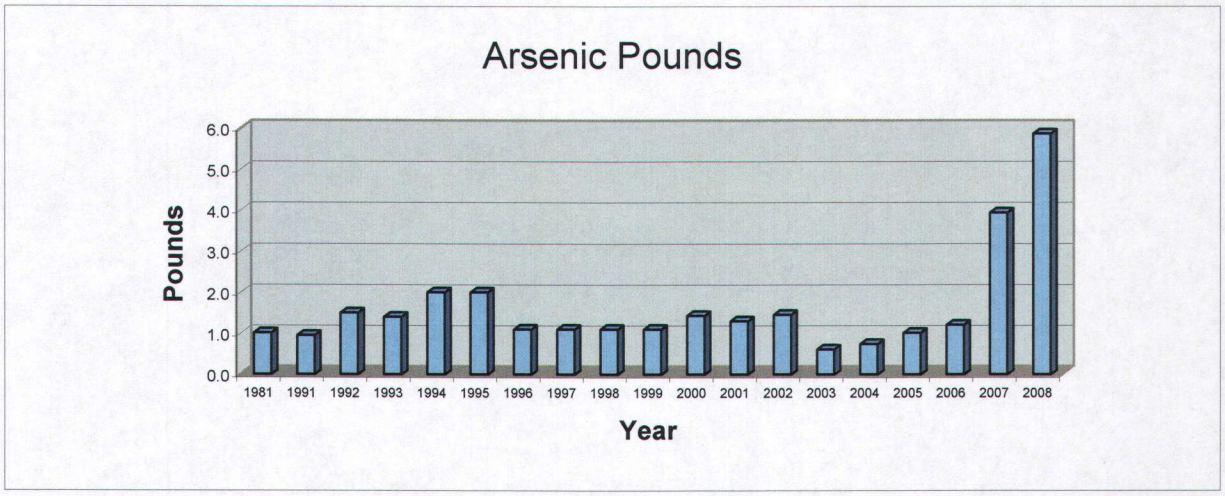
	2008
Antimony	0.68
Arsenic	1.53
Barium	9.80
Beryllium	0.04
Cadmium	0.12
Chromium	0.71
Copper	2.11
Lead	0.51
Mercury	0.05
Molybdenum	2.50
Nickel	1.63
Selenium	3.59
Silver	1.36
Thallium	0.14
Zinc	25.56

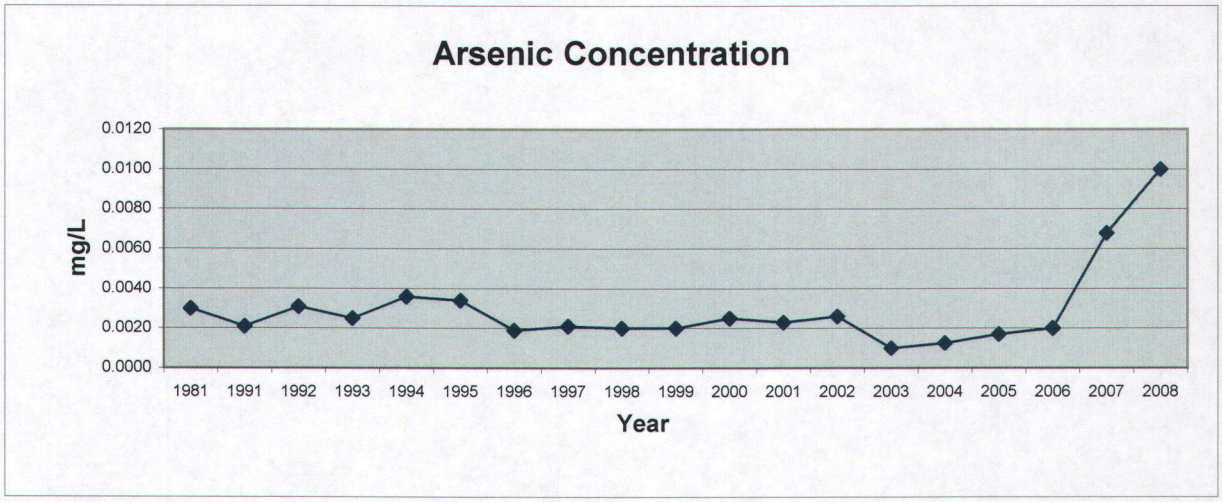
TABLE 10-3
SUMMARY OF INFLUENT CONCENTRATION
(mg/L)

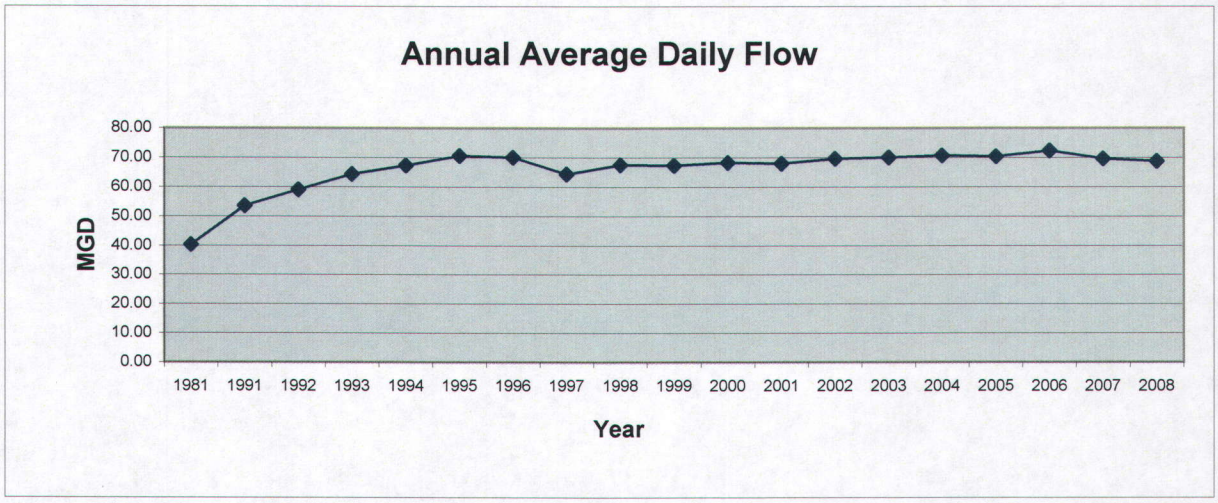
	1981	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Antimony													ND	0.0025	0.0039	0.0025	0.0020	0.0024
Arsenic	0.0030	0.0021	0.0031	0.0025	0.0036	0.0034	0.0019	0.0021	0.0020	0.0020	0.0025	0.0023	0.0026	0.0010	0.0013	0.0017	0.0020	0.0068
Barium											0.0845	0.0823	0.089	0.0760	0.0762	0.0732	0.0760	0.0729
Beryllium												ND	ND	0.0025	0.0025	0.0025	0.0020	0.0002
Cadmium	0.0013	0.0007	0.0015	0.0017	0.0008	0.0025	0.0005	0.0007	0.0007	0.0005	0.0004	0.0004	0.0003	0.0008	0.0002	0.0005	0.0007	0.0005
Chromium	0.1200	0.0157	0.0216	0.0190	0.0230	0.0440	0.0360	0.0390	0.0360	0.0430	0.0088	0.0081	0.0095	0.0093	0.0084	0.0074	0.0090	0.0081
Copper	0.1300	0.0367	0.0431	0.0620	0.0600	0.0440	0.0360	0.0390	0.0360	0.0430	0.0519	0.0518	0.048	0.0590	0.0518	0.0632	0.0580	0.0419
Lead	0.0570	0.0171	0.0186	0.0270	0.0160	0.0120	0.0100	0.0084	0.0073	0.0095	0.0086	0.0067	0.0076	0.0098	0.0036	0.0042	0.0050	0.0031
Mercury	0.0008	0.0005	0.0006	0.0210	ND	ND	ND	0.0003	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002
Molybdenum	ND	ND	ND	ND	0.0084		0.0060	0.0067	0.0096	0.0088	0.0086	0.0088	0.011	0.0175	0.0076	0.0064	0.0160	0.0103
Nickel	0.0810	0.0150	0.0134	0.0210	0.0091	0.0280	0.0075	0.0094	0.0105	0.0100	0.0133	0.0078	0.0105	0.0145	0.0096	0.0106	0.0080	0.0051
Selenium											0.0018	0.0001	0.001	0.0005	0.0015	0.0006	0.0030	0.0075
Silver	0.0078	0.0051	0.0034	0.0060	0.0055	0.0042	0.0058	0.0036	0.0036	0.0038	0.0046	0.0032	0.0038	0.0034	0.0026	0.0022	0.0014	0.0038
Thallium												ND	ND	0.0023	0.0025	0.0025	0.0020	0.0003
Zinc	0.4500	0.1660	0.2530	0.2640	0.2700	0.2120	0.1650	0.1890	0.1890	0.1580	0.1603	0.1649	0.1607	0.1563	0.1712	0.1732	0.1690	0.1624

	2008																	
Antimony	0.0030																	
Arsenic	0.0100																	
Barium	0.0708																	
Beryllium	0.0003																	
Cadmium	0.0009																	
Chromium	0.0073																	
Copper	0.0438																	
Lead	0.0025																	
Mercury	0.0005																	
Molybdenum	0.0065																	
Nickel	0.0050																	
Selenium	0.0125																	
Silver	0.0050																	
Thallium	0.0005																	
Zinc	0.1540																	

TABLE 10-4
Influent Metals







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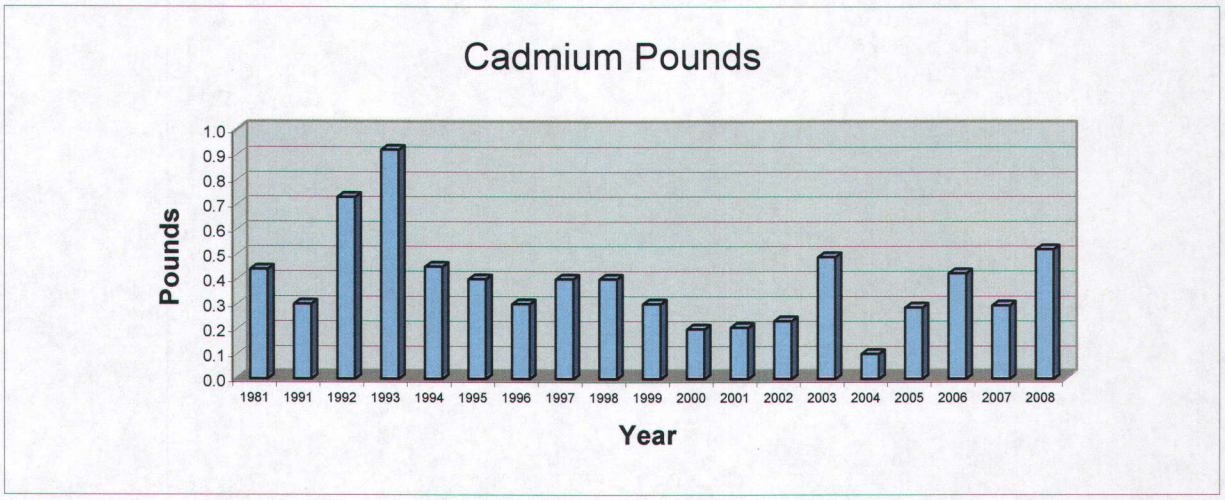
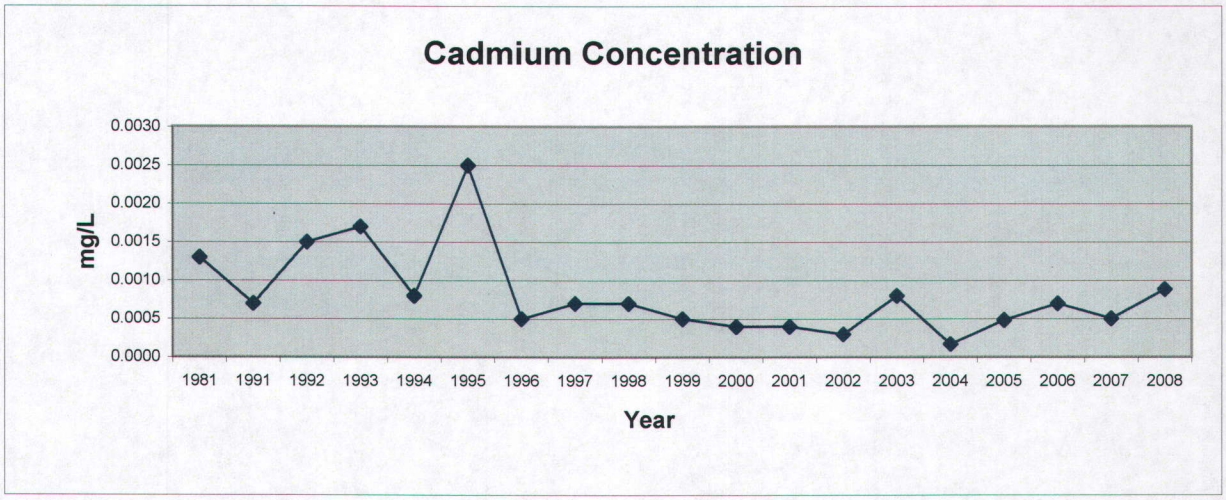
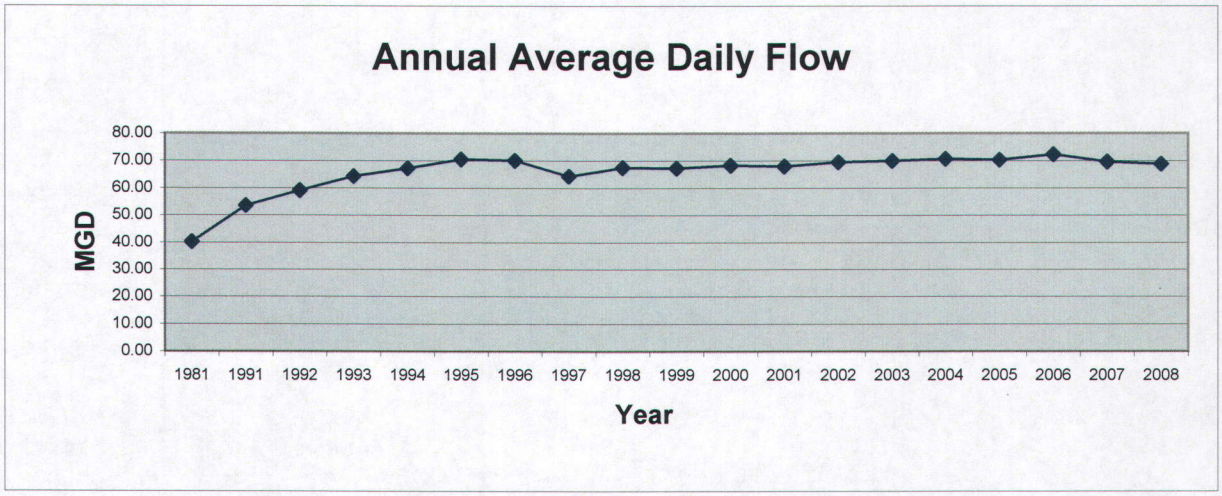
Influent Metals







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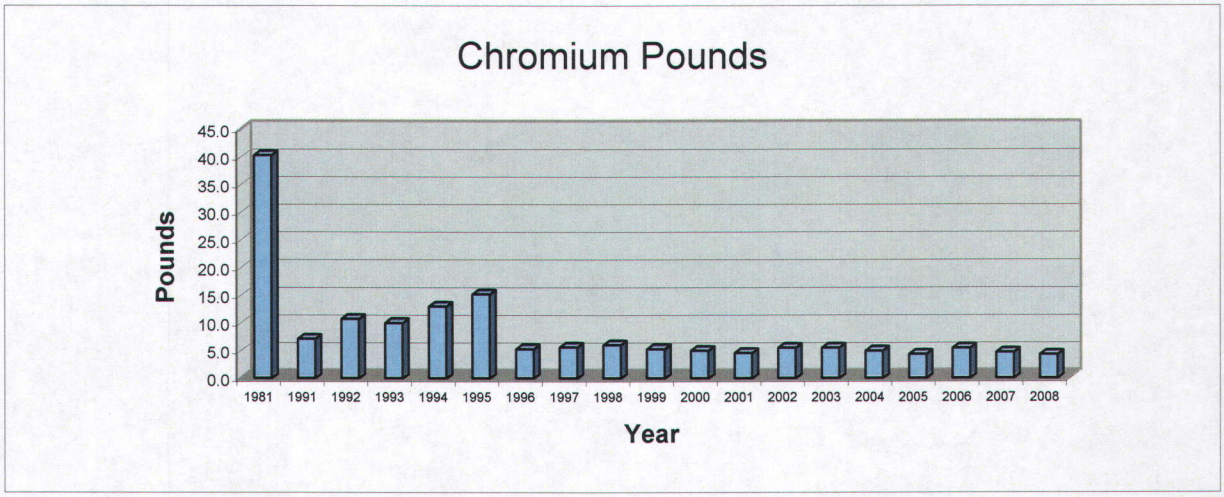
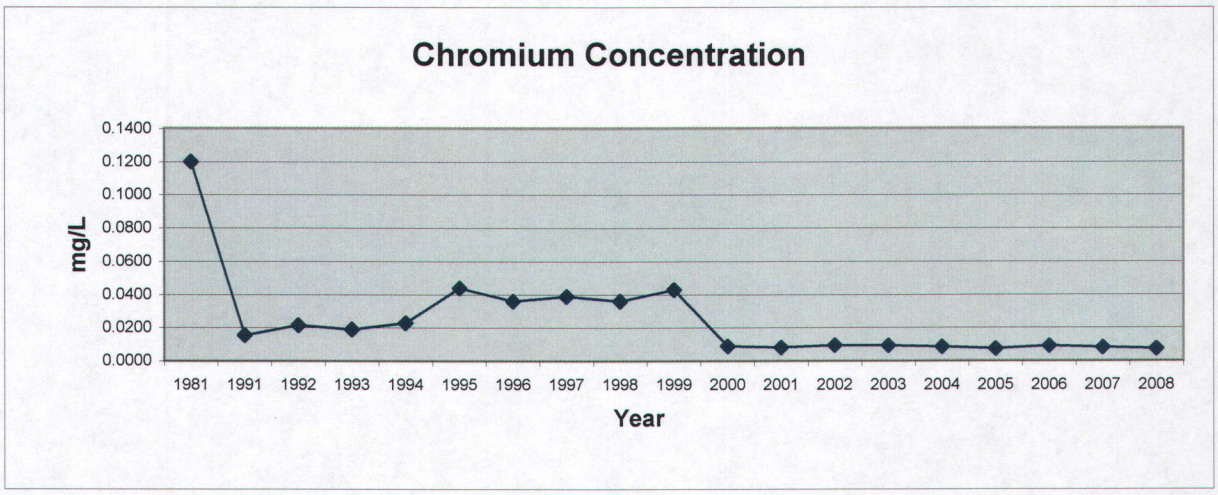
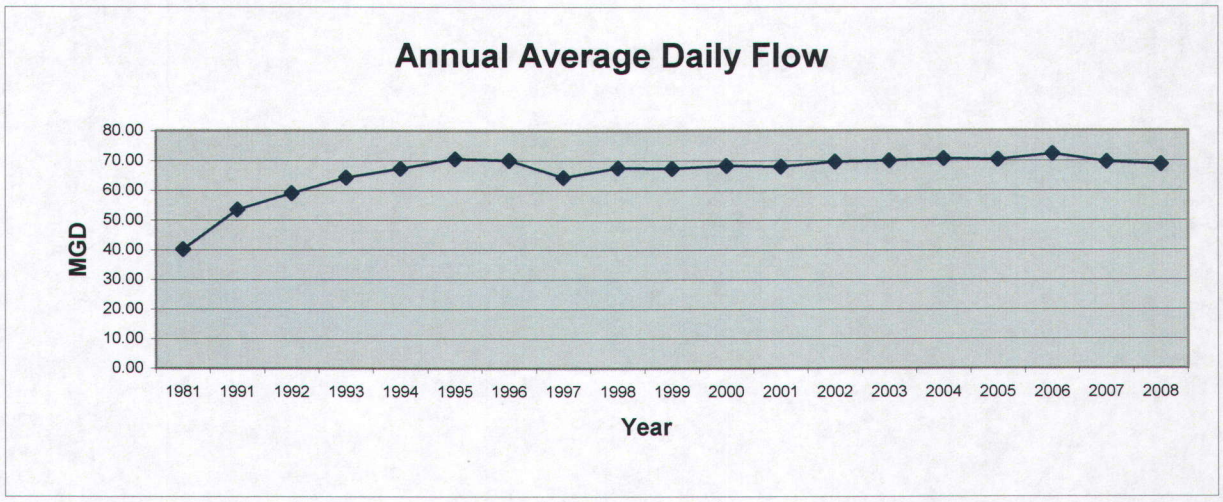
Influent Metals







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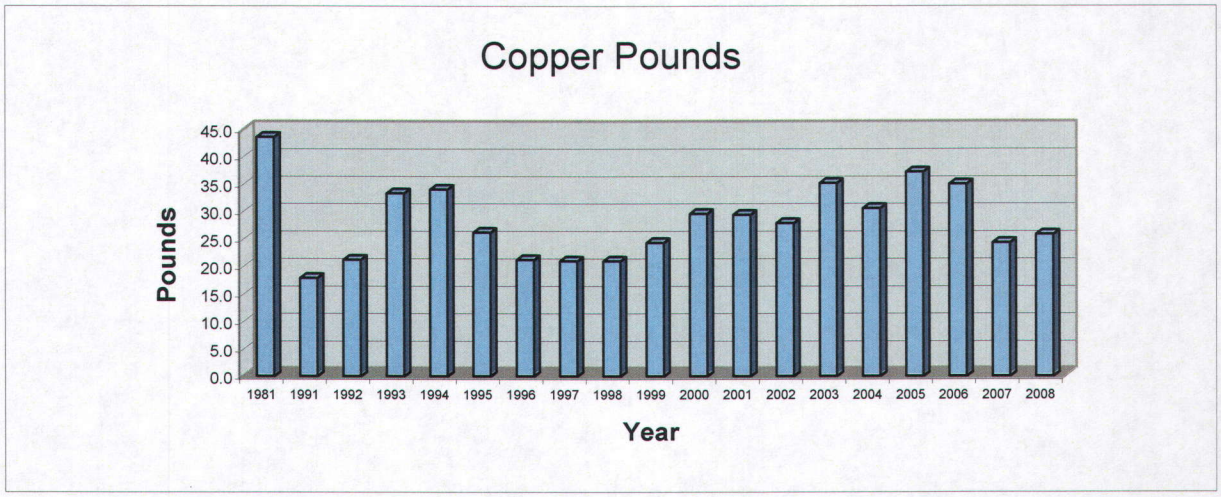

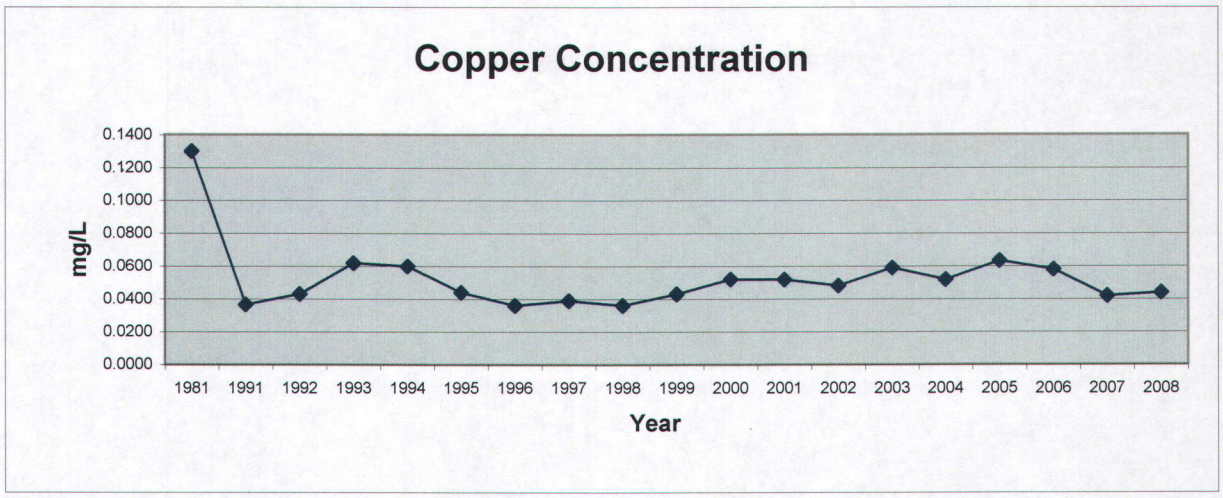

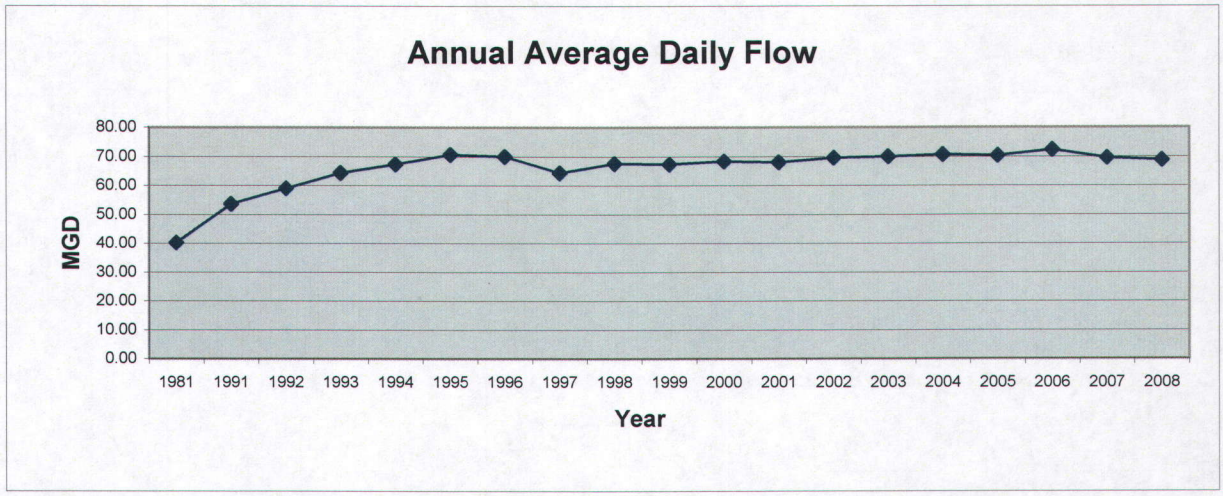

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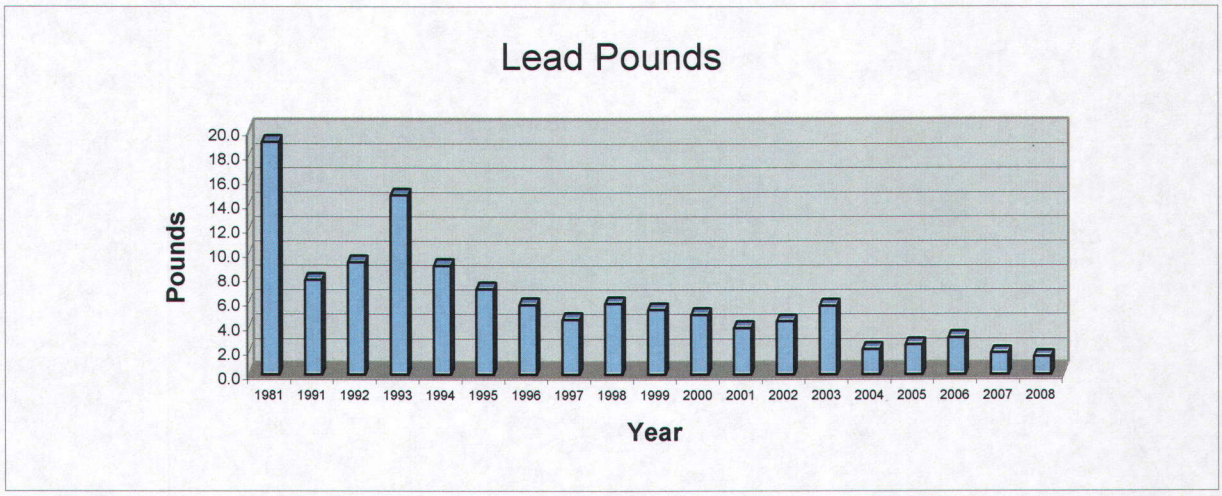

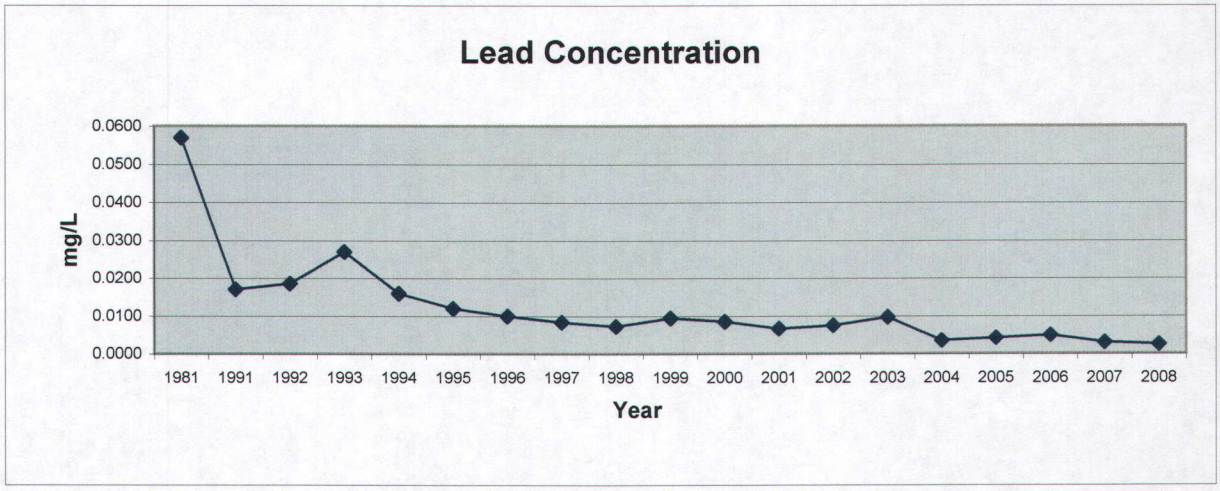

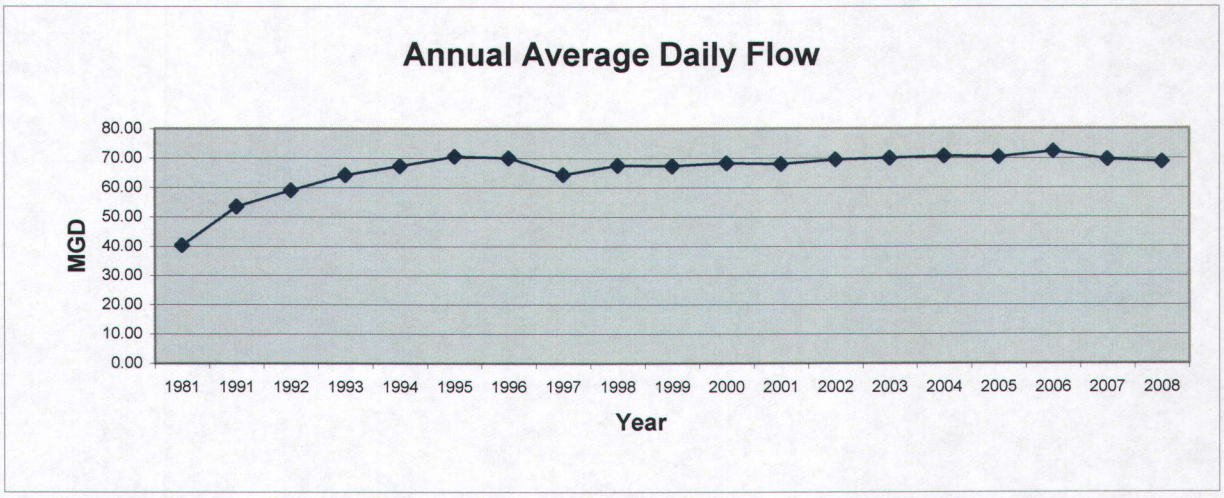

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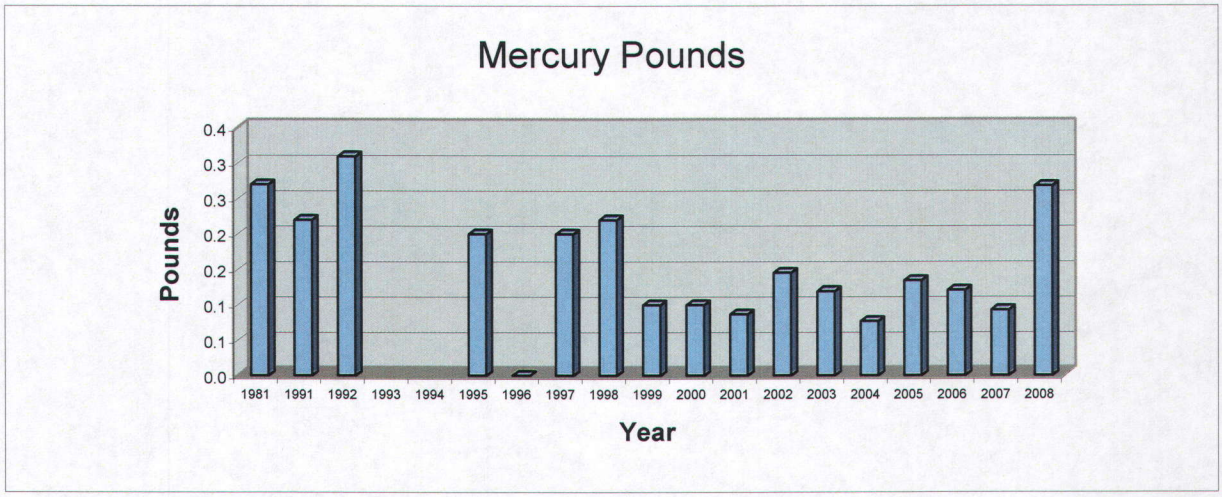

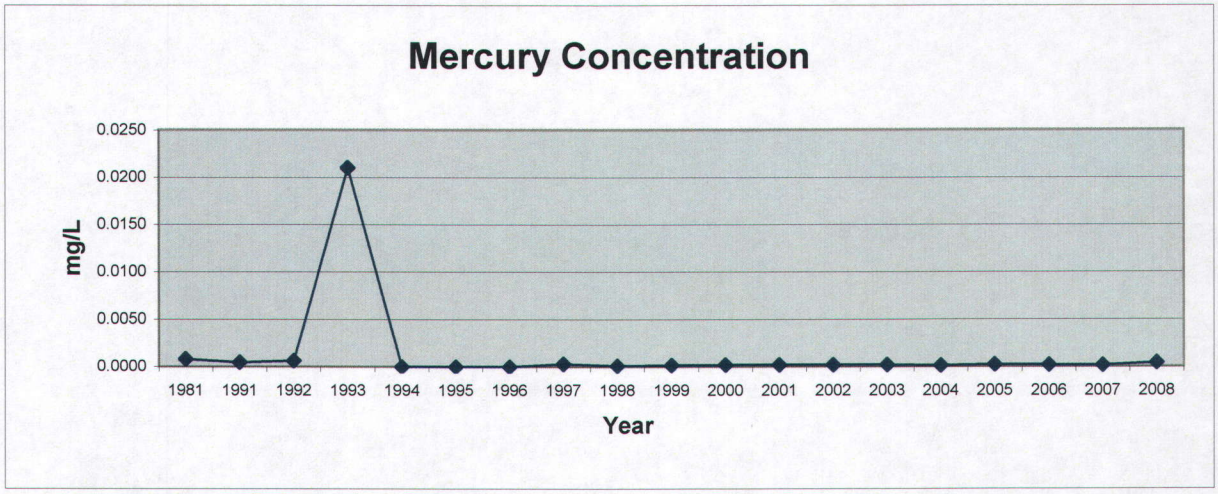

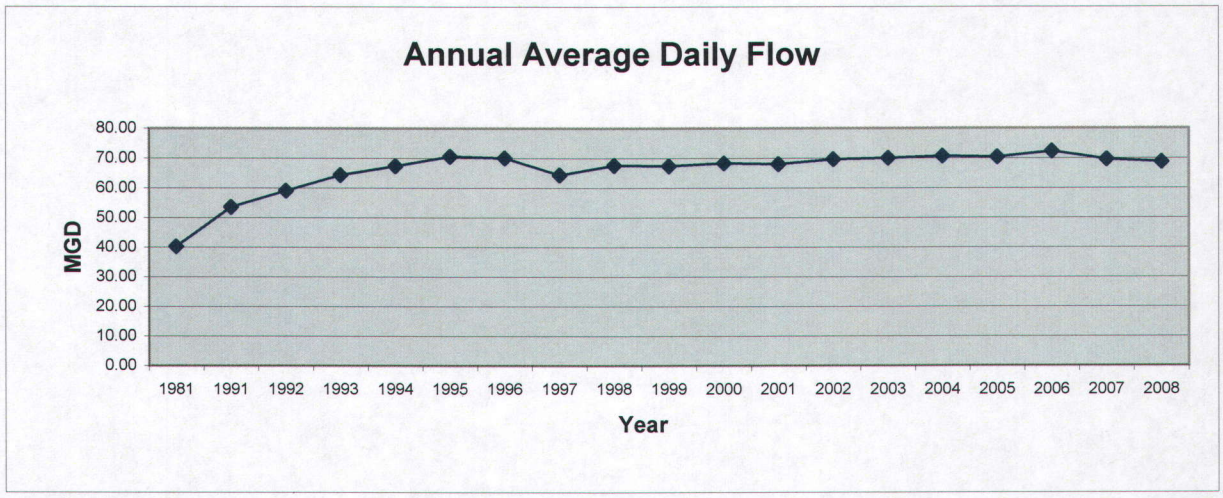

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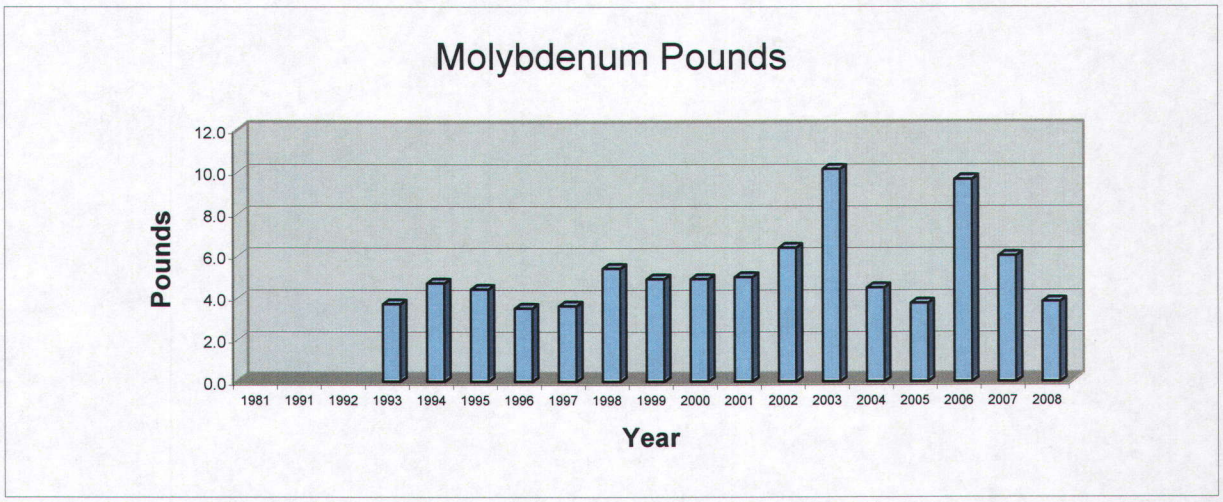

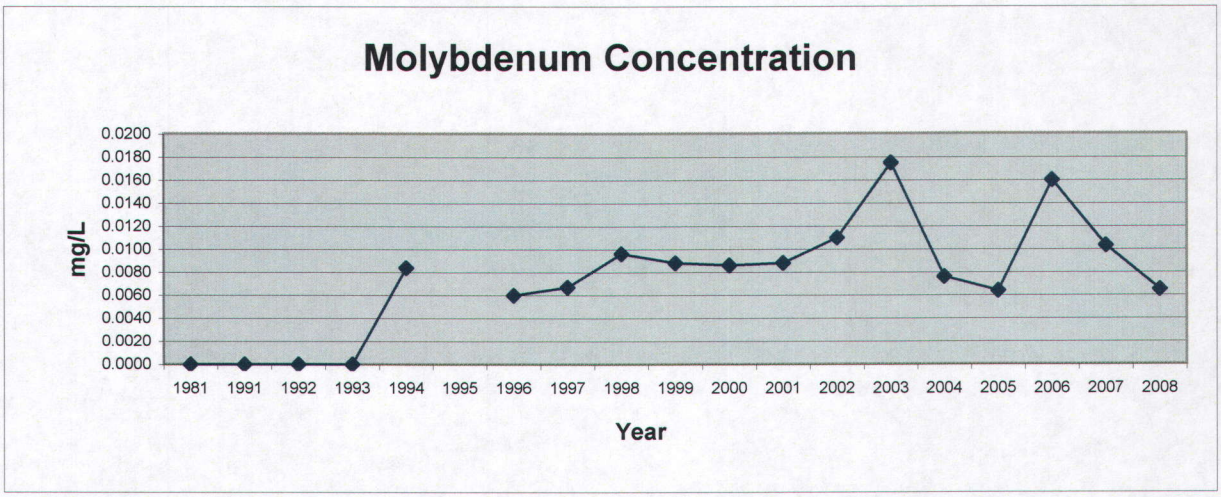

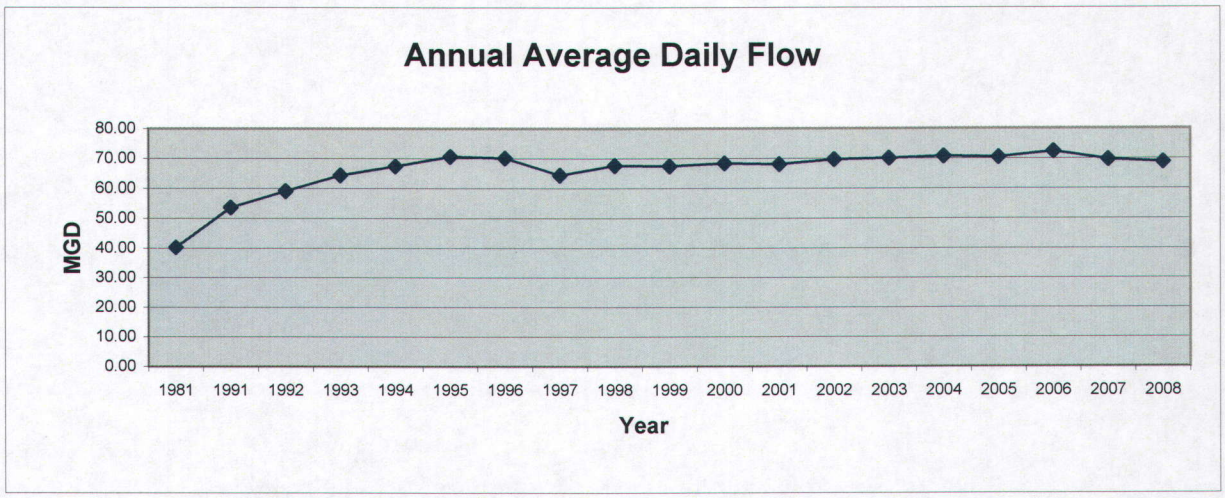

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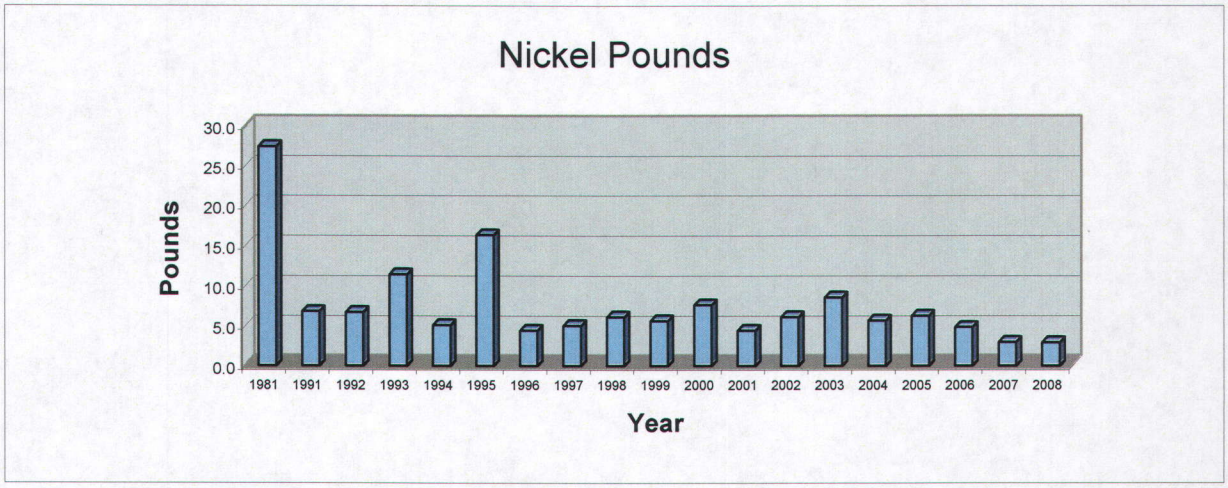

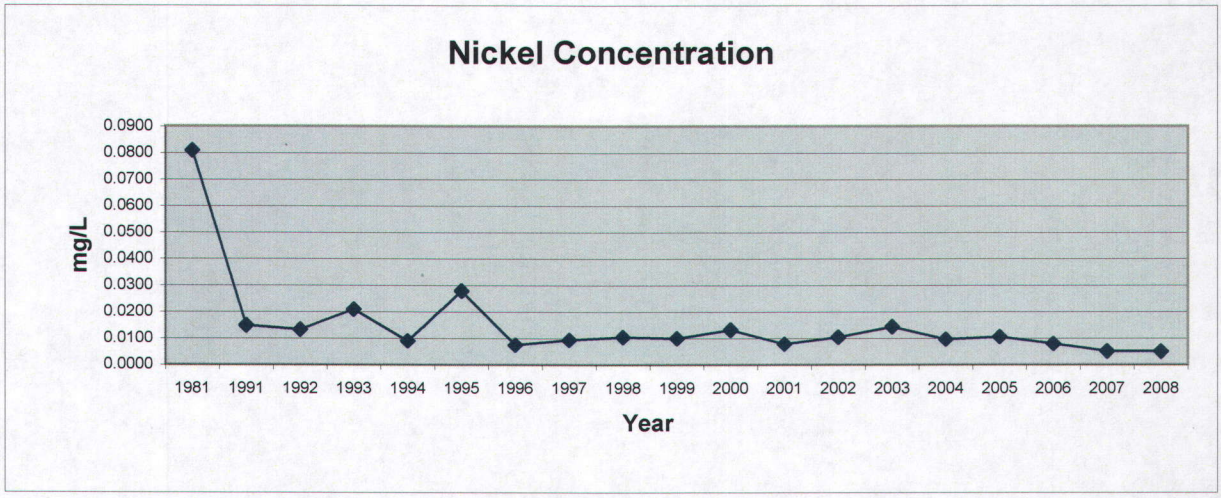

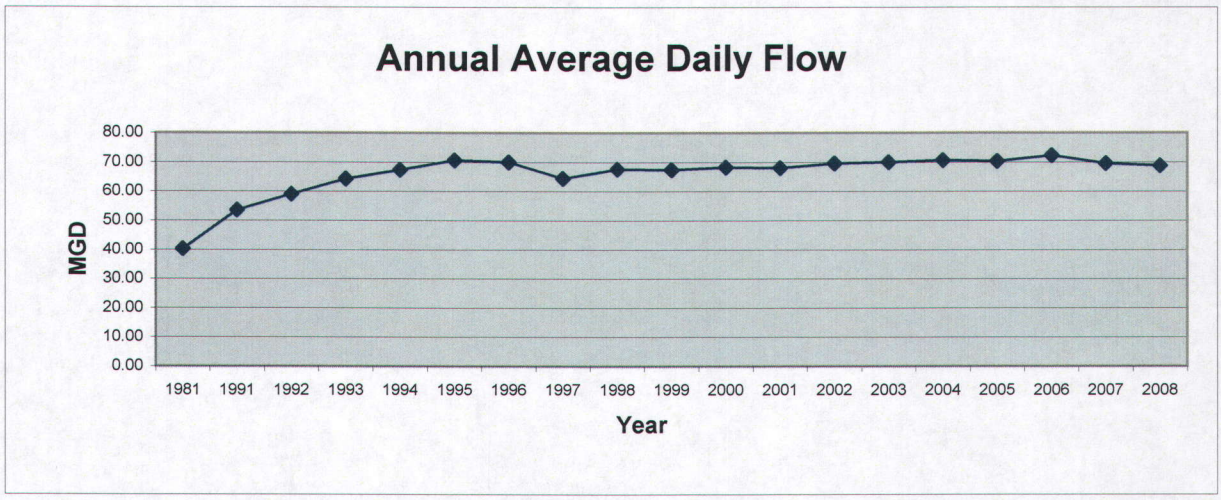

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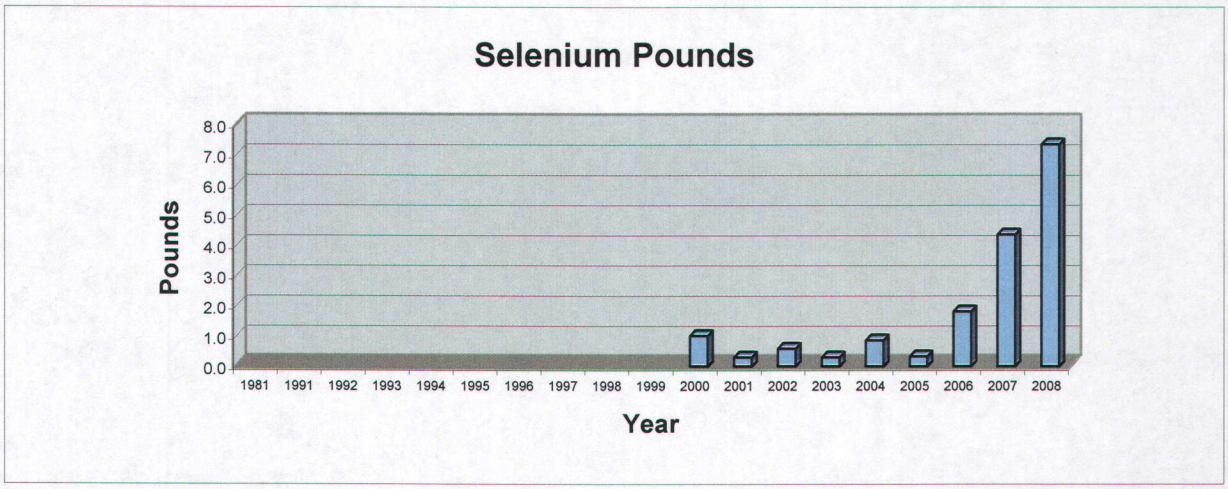
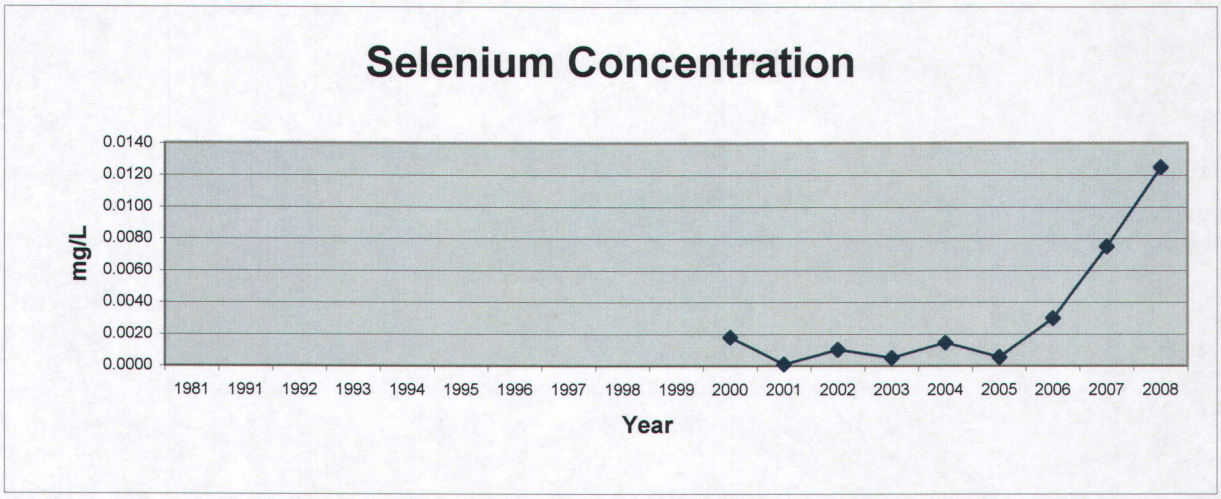
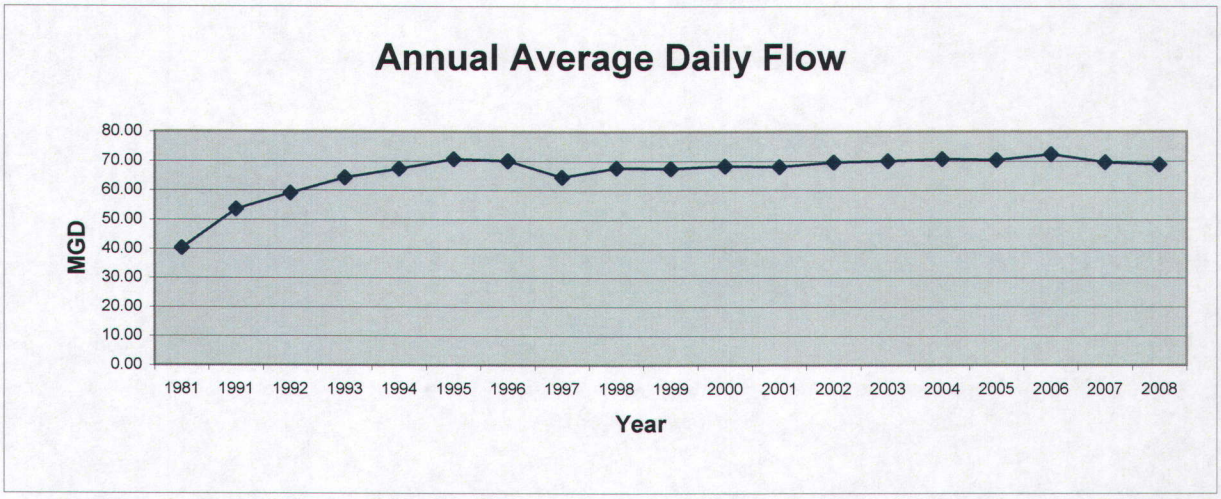
Influent Metals







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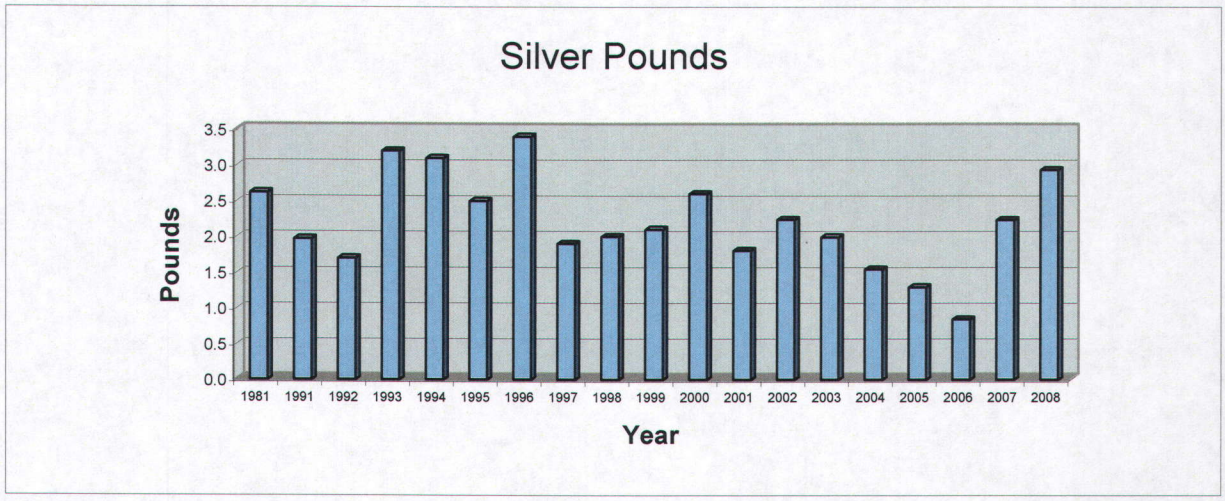
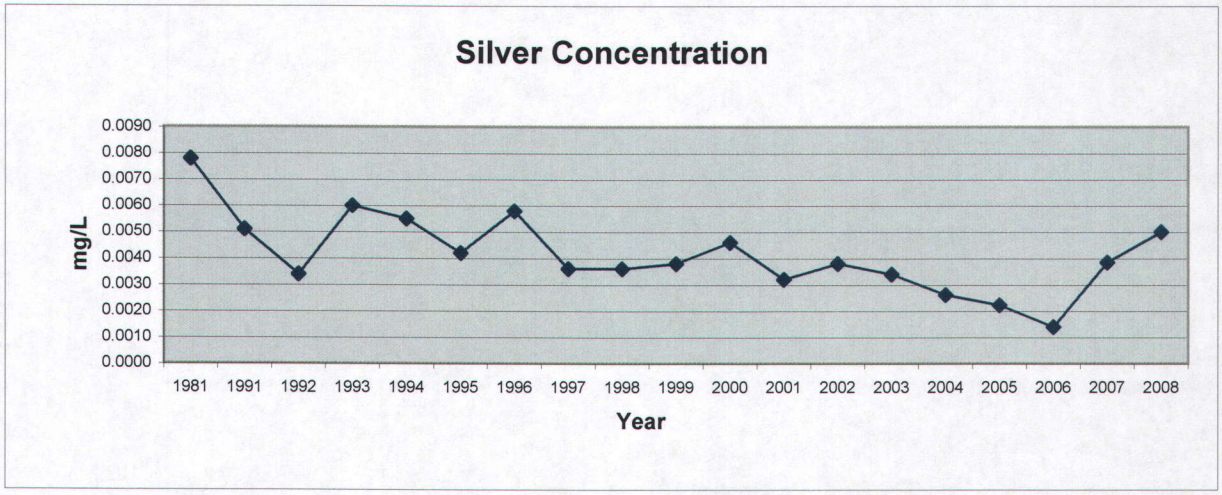
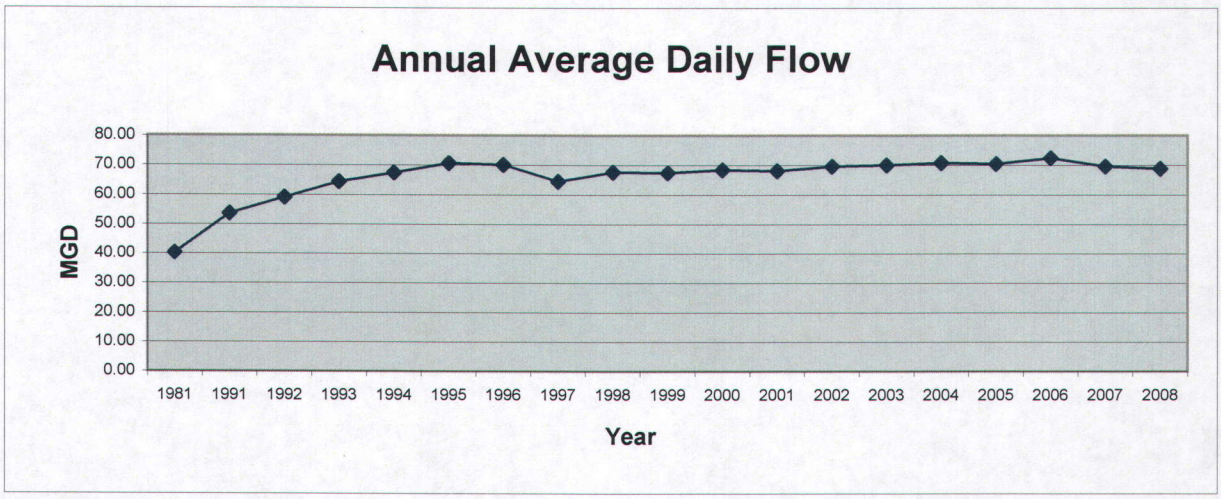
Influent Metals







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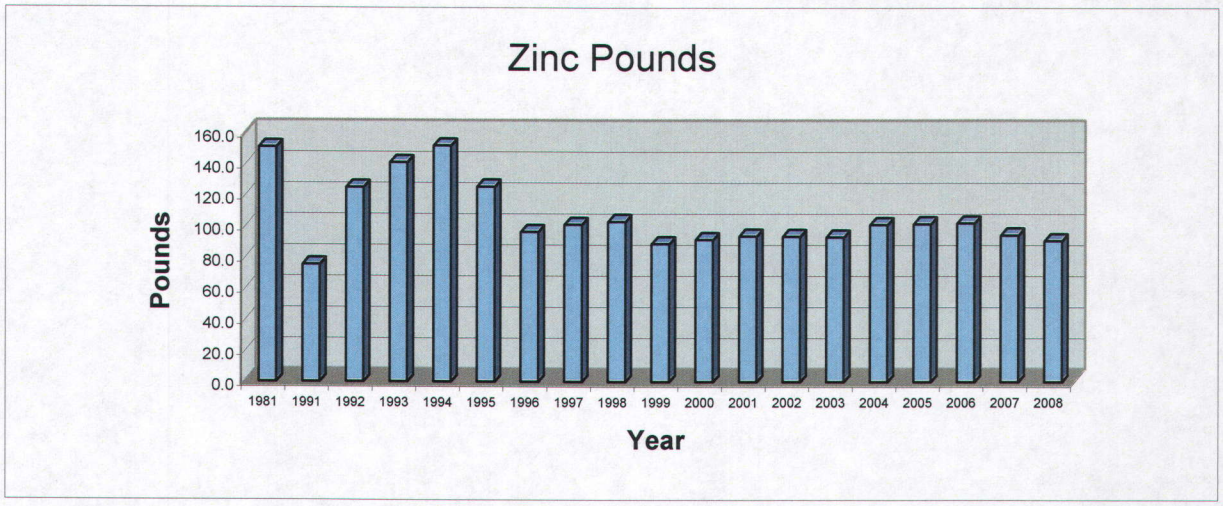
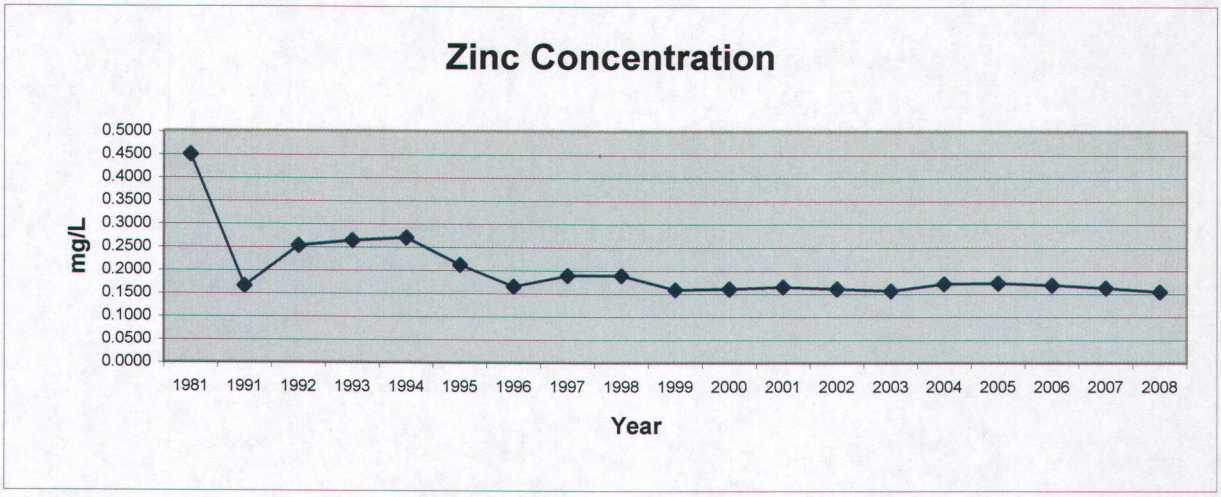




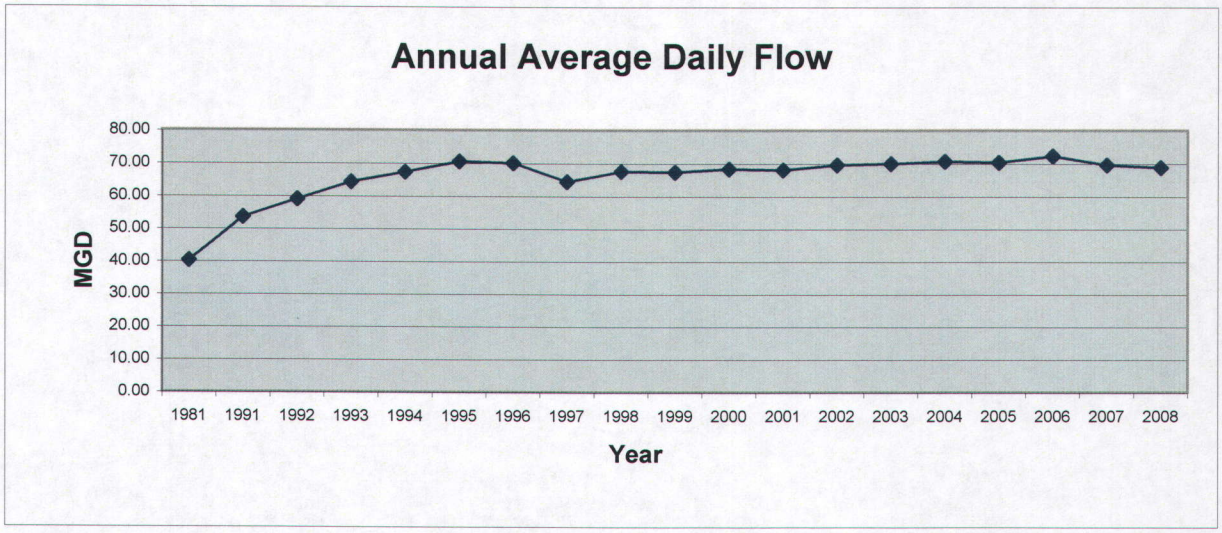
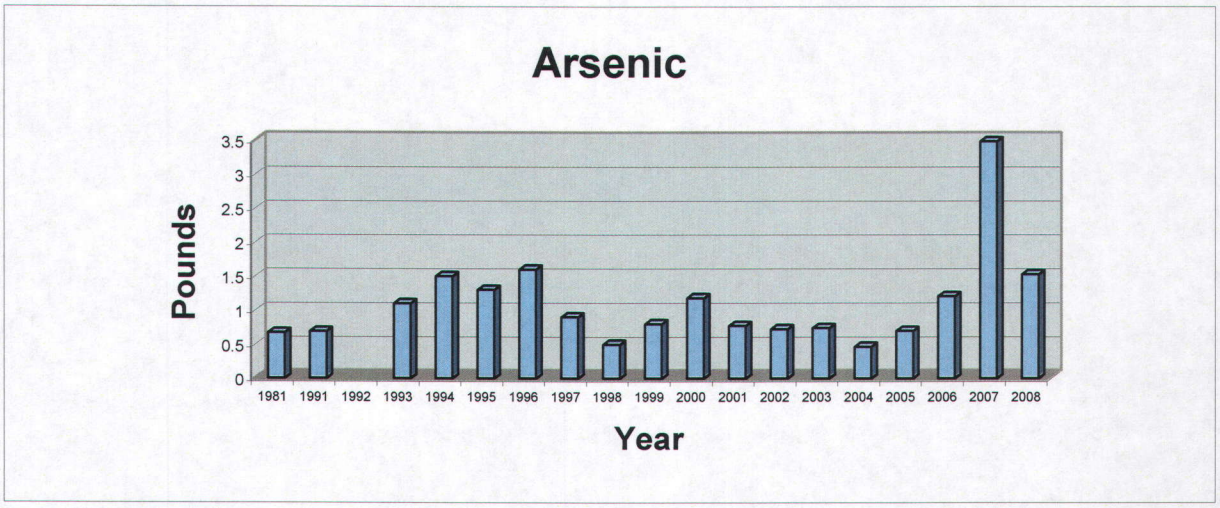
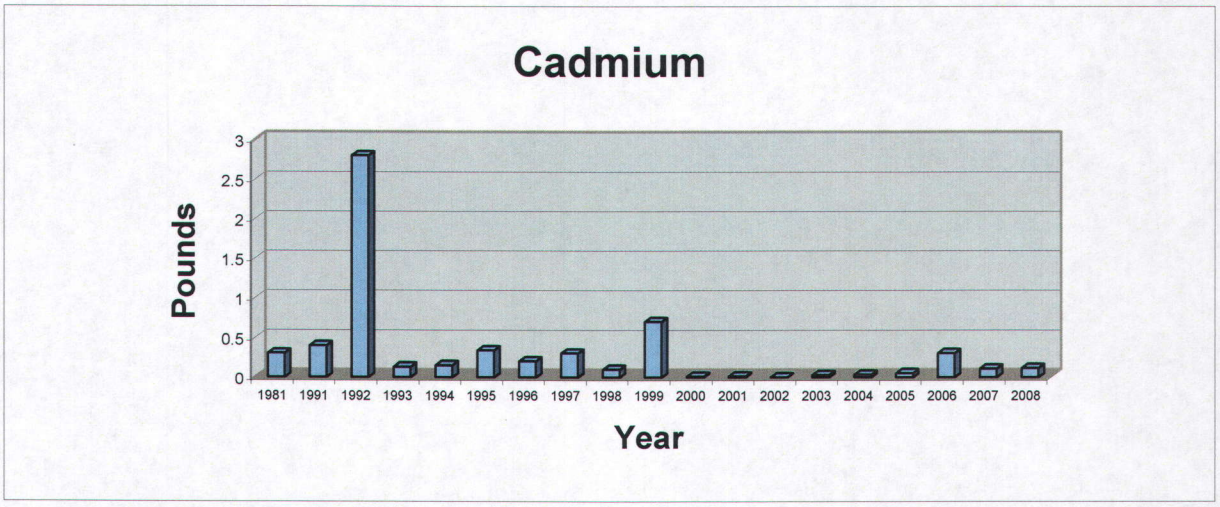


TABLE 10-5
Effluent Metals





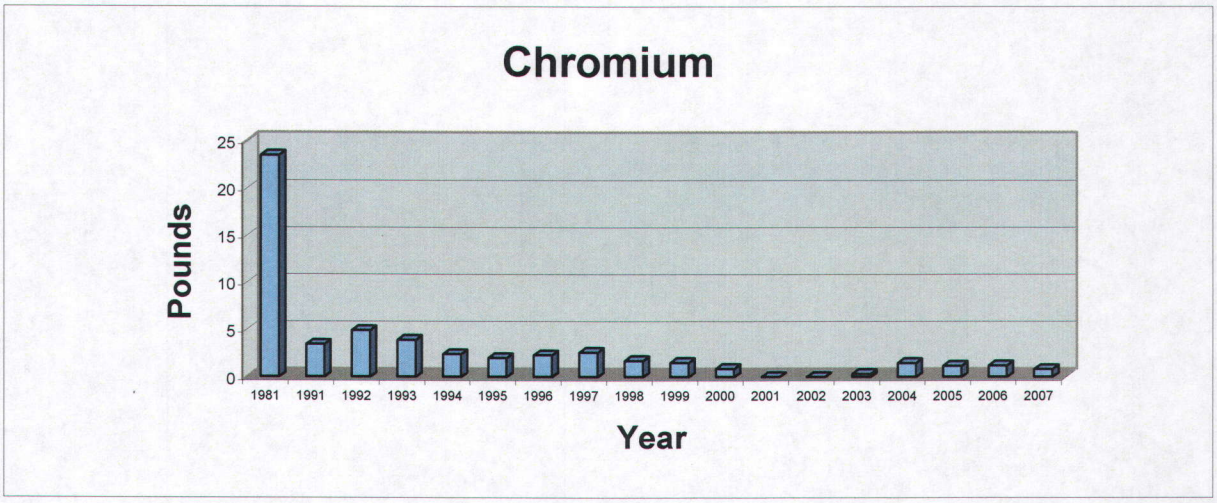
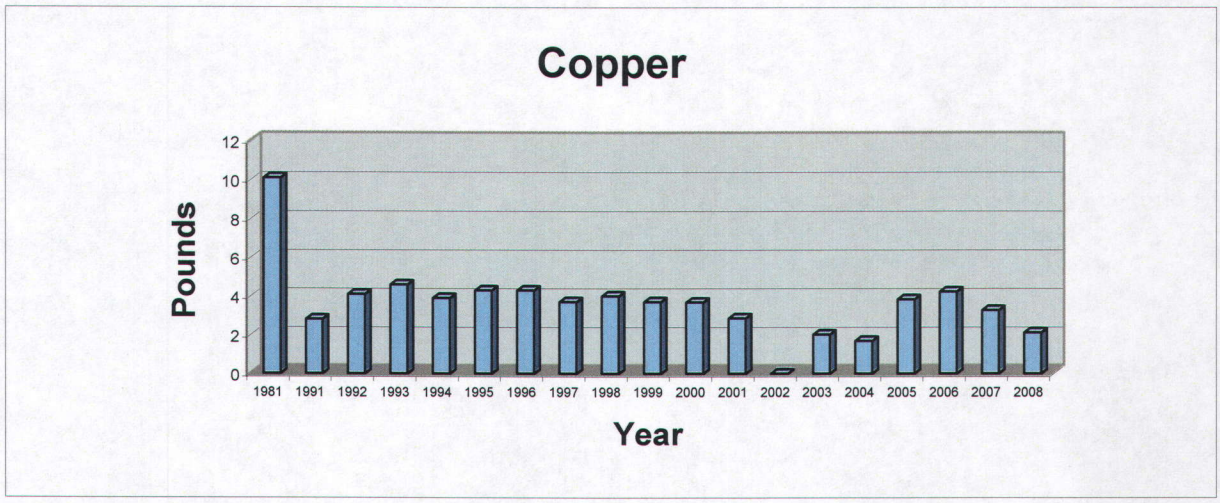
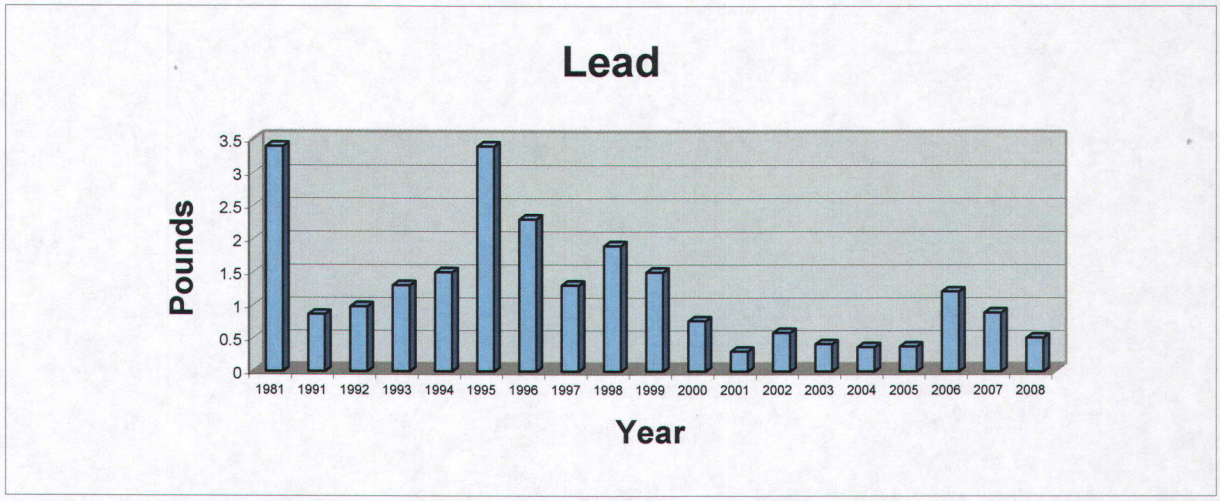


TABLE 10-5
Effluent Metals





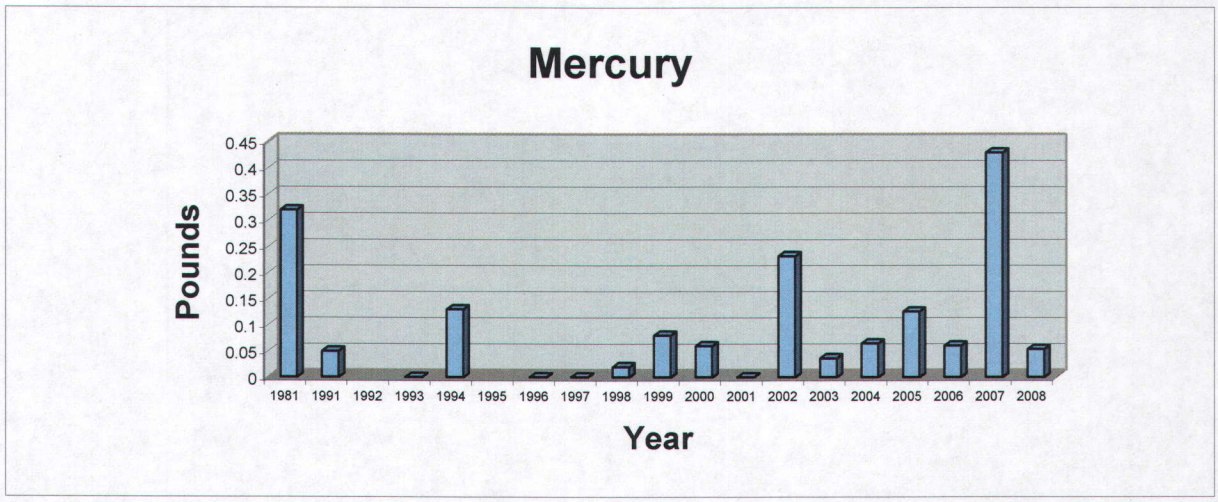
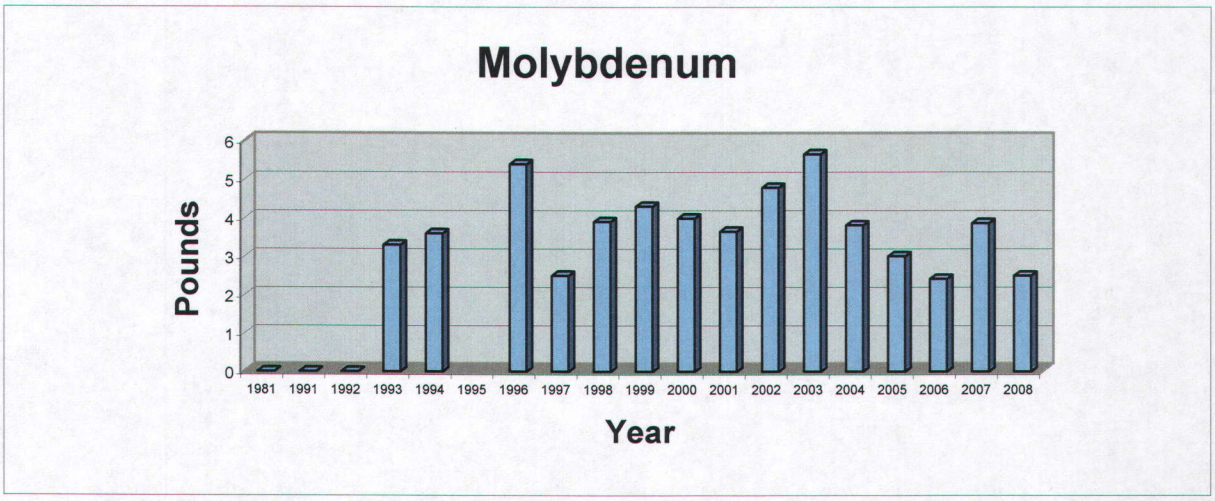
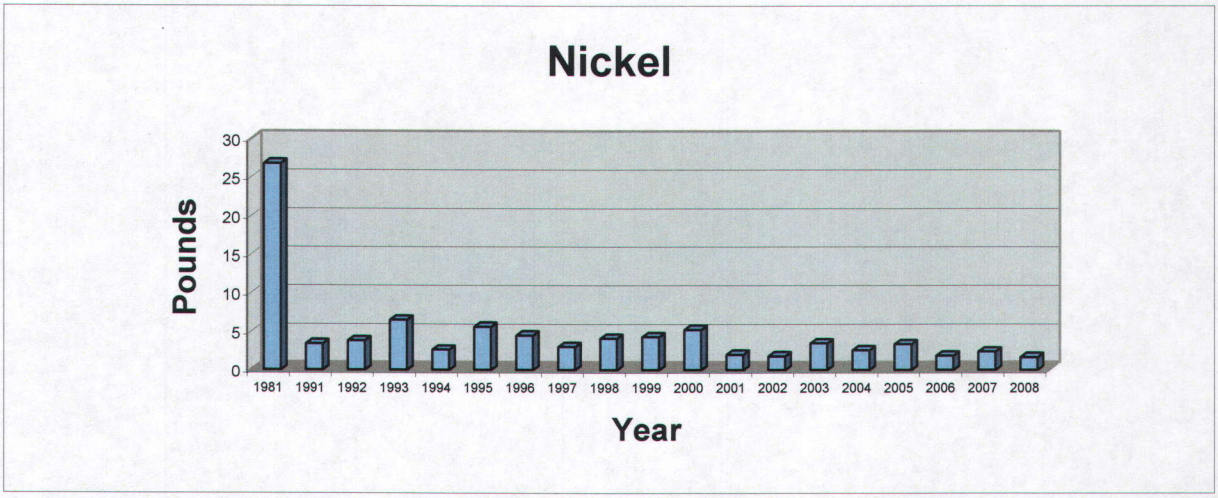
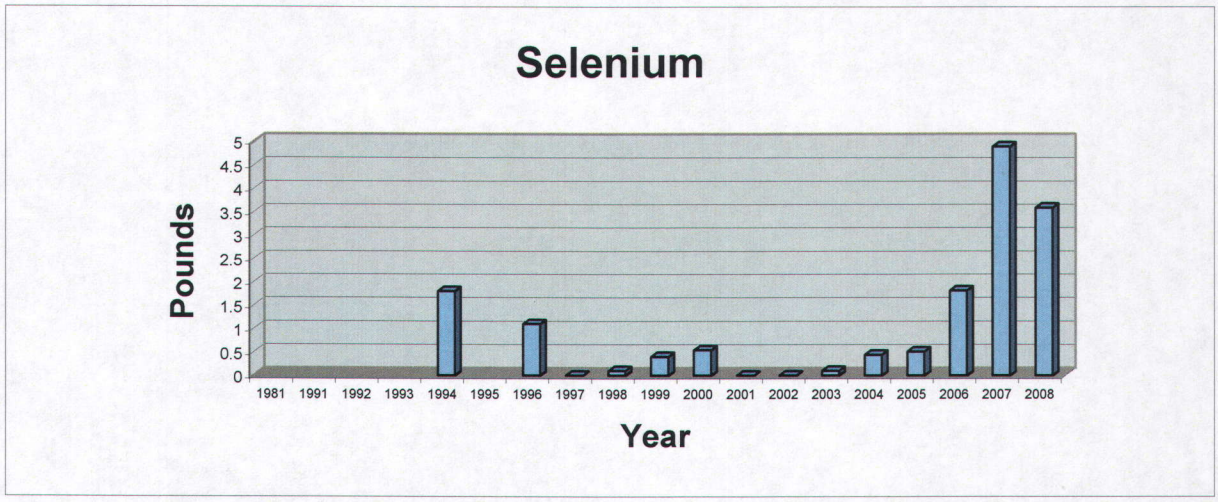


TABLE 10-5
Effluent Metals







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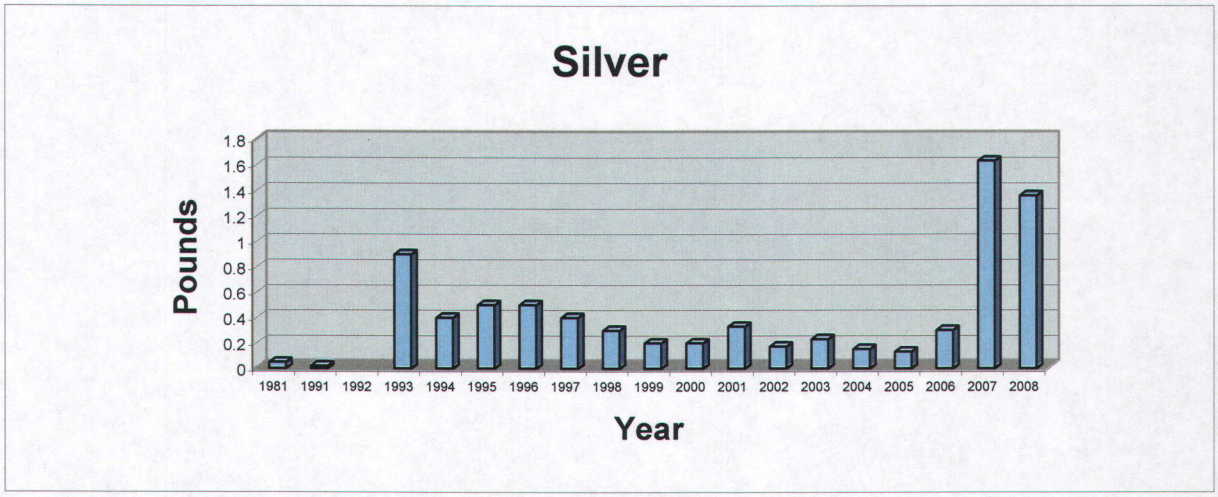
Effluent Metals



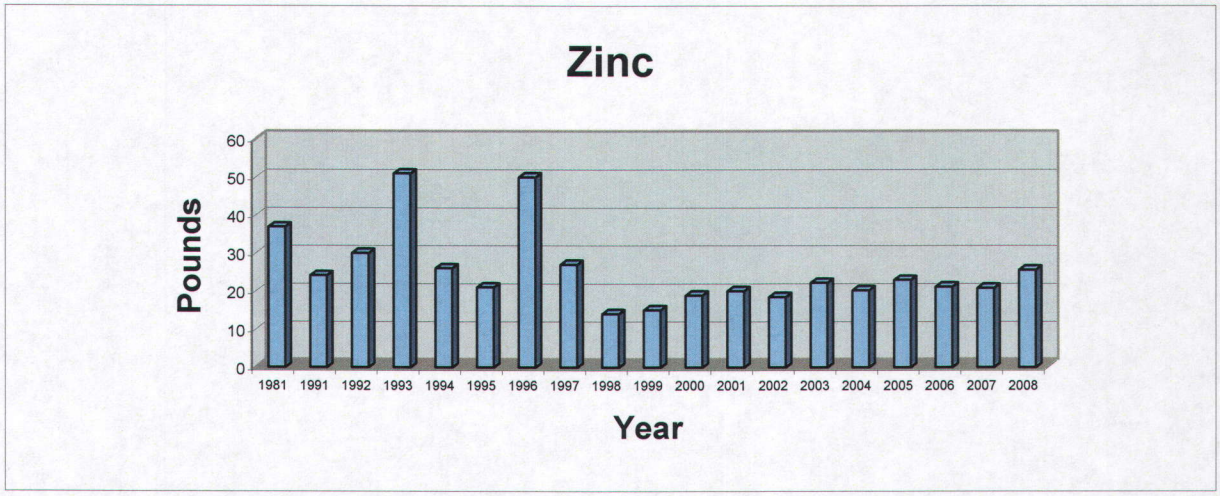
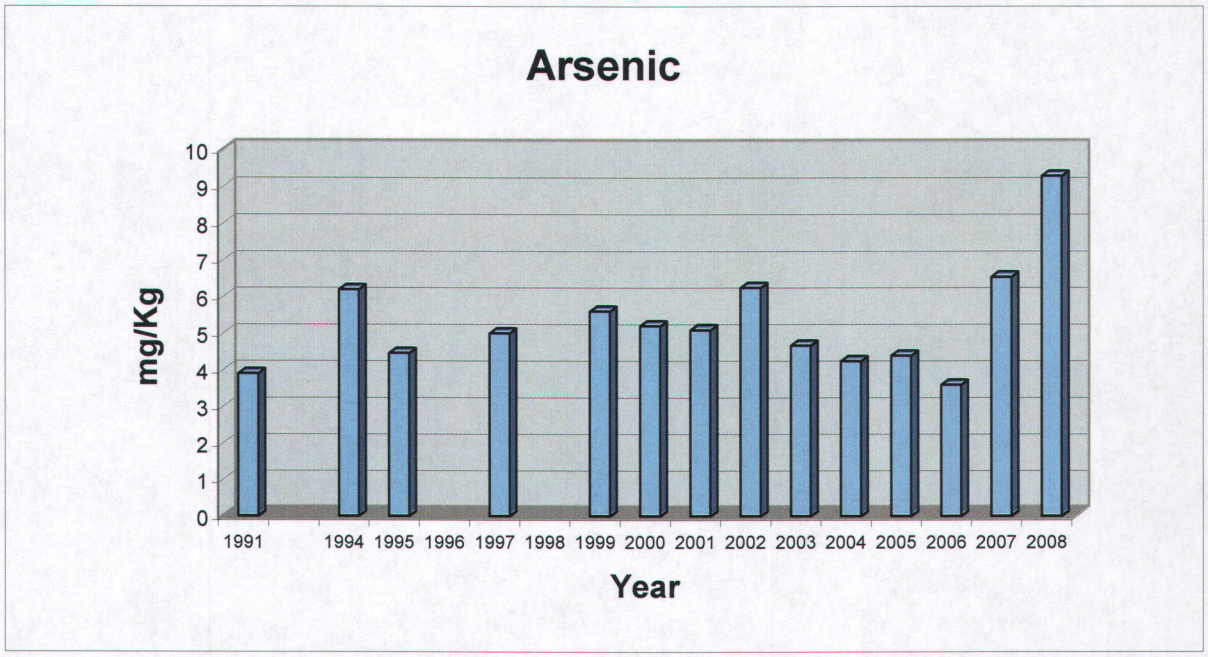


TABLE 10-6
SUMMARY OF BIOSOLIDS METALS
(Dry Weight)



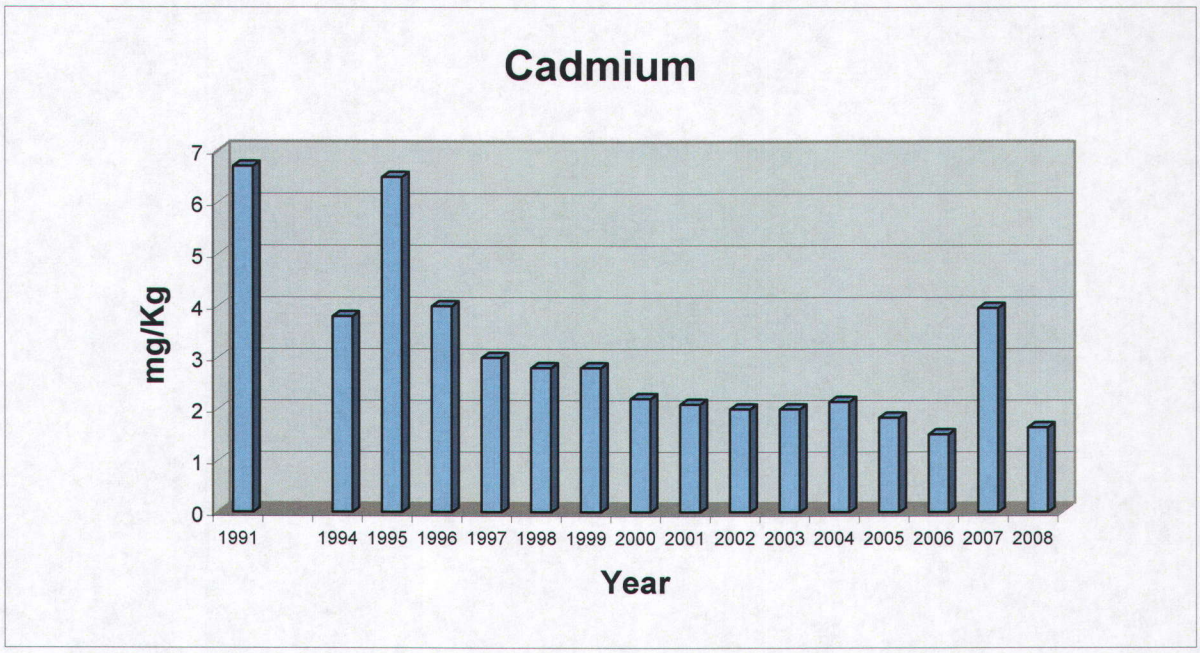
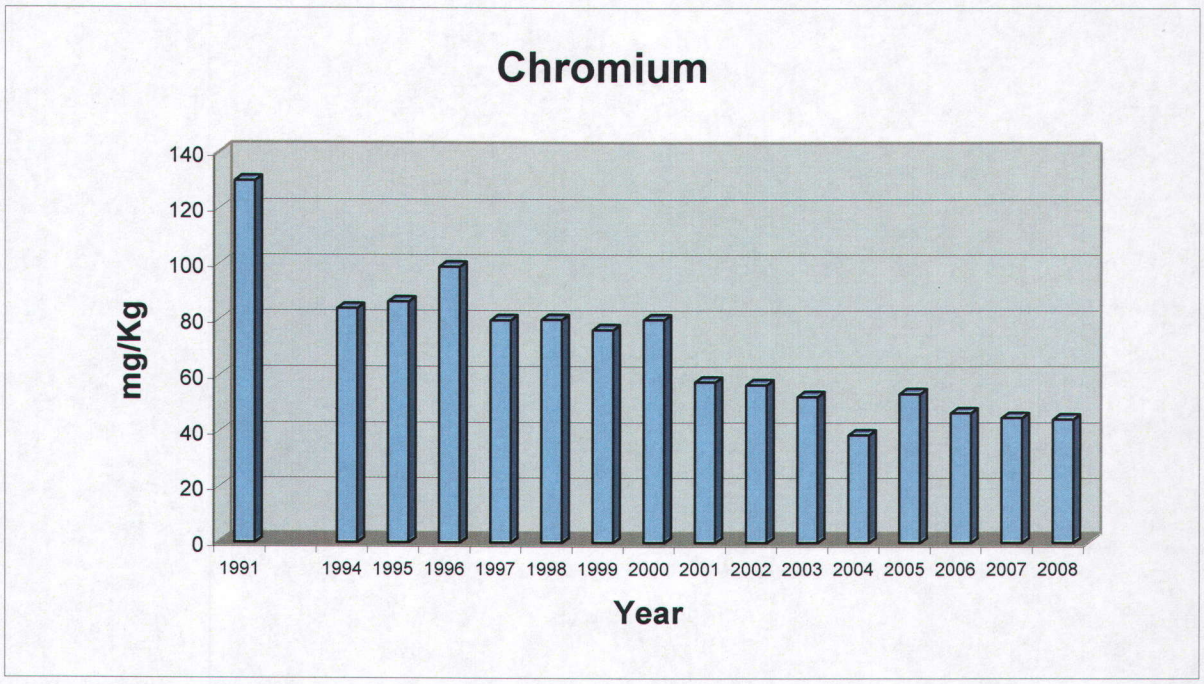


TABLE 10-6
SUMMARY OF BIOSOLIDS METALS
(Dry Weight)



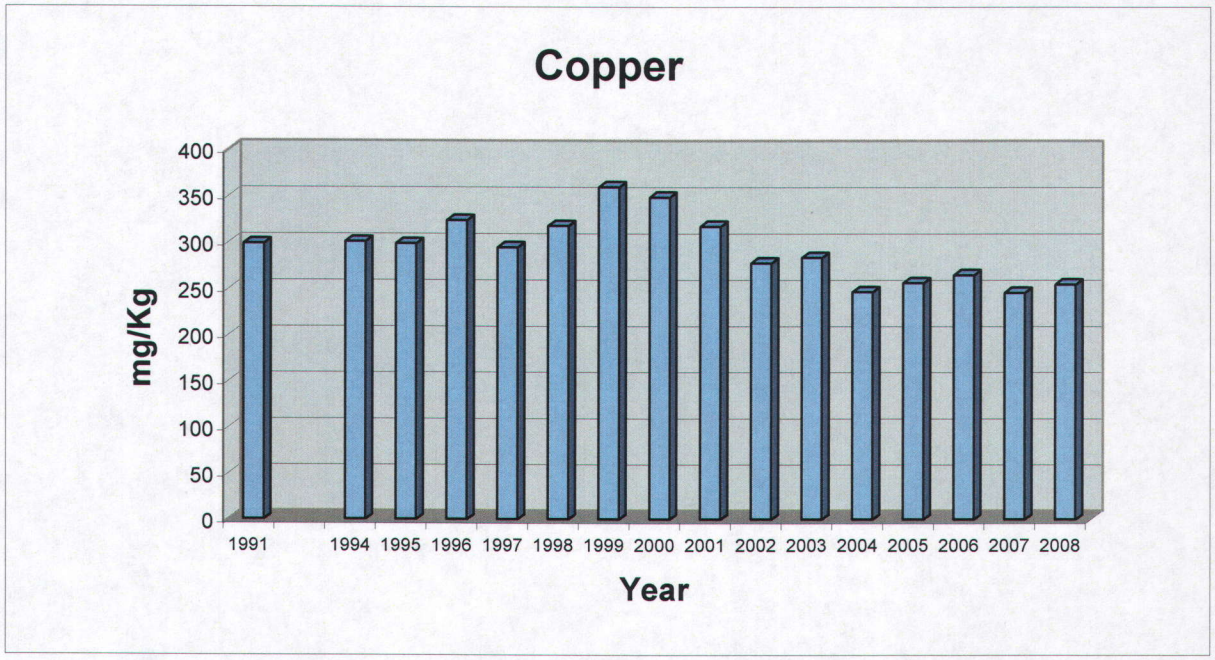
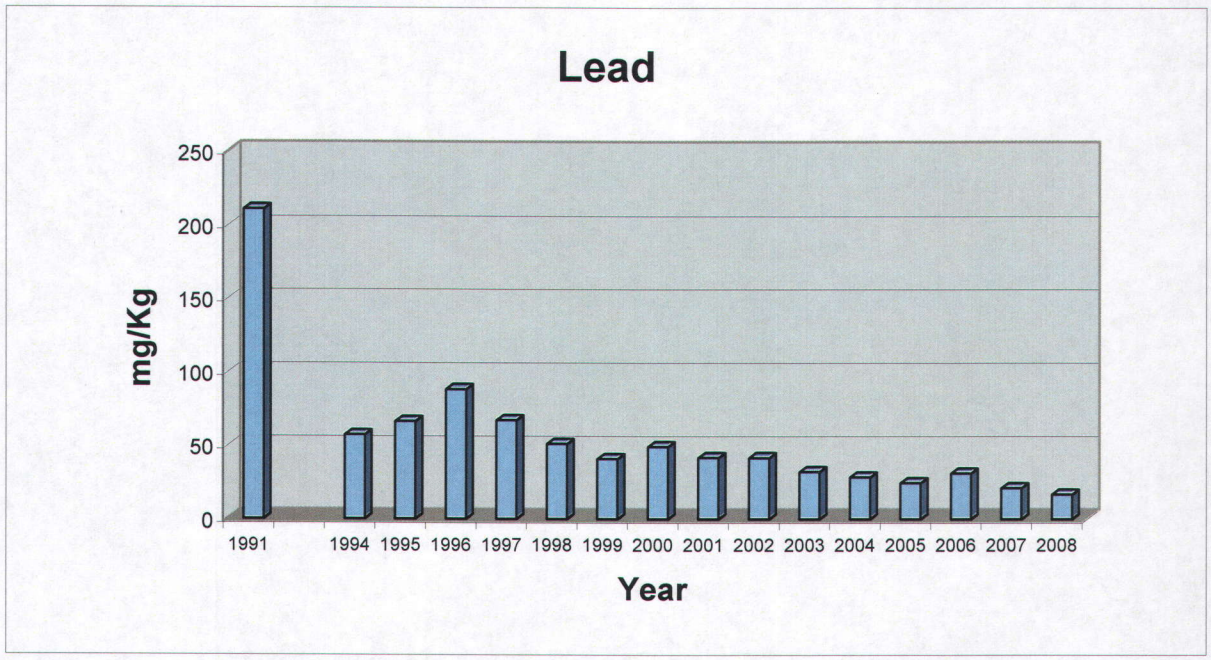


TABLE 10-6
SUMMARY OF BIOSOLIDS METALS
(Dry Weight)



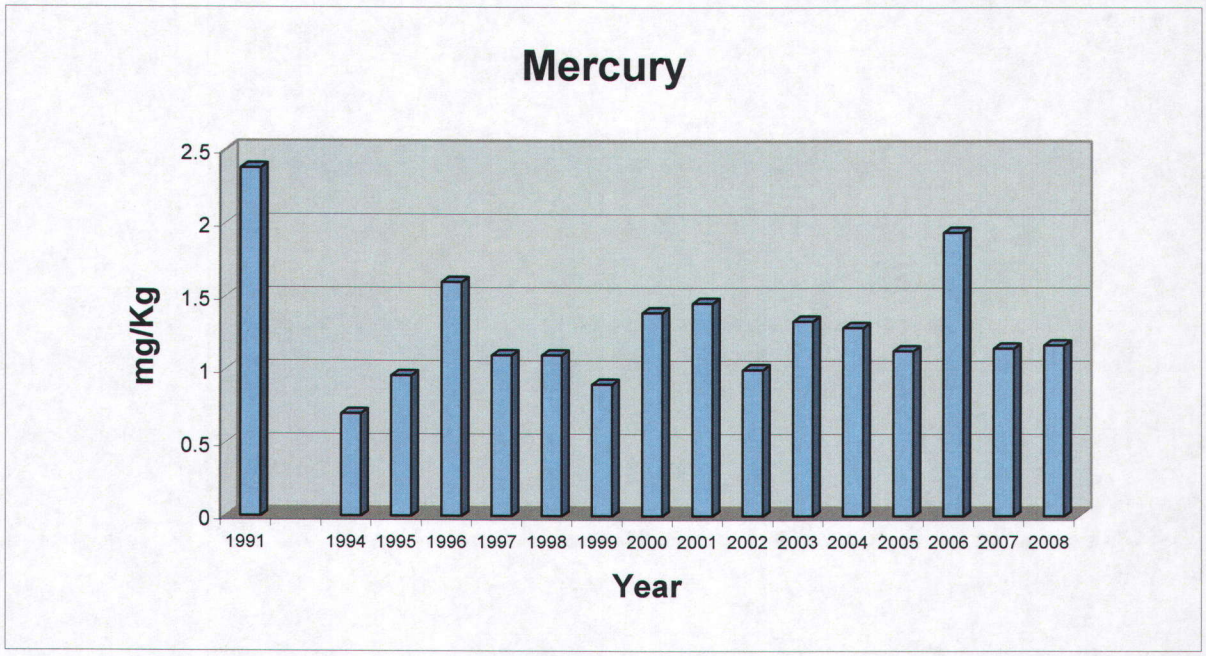
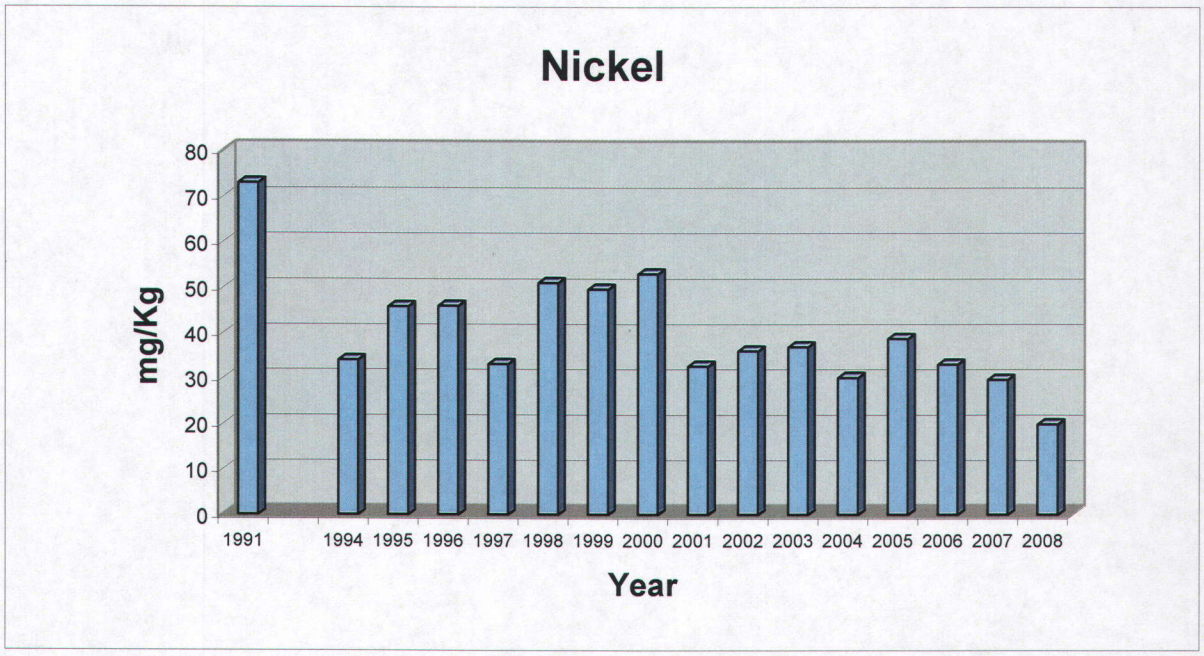


TABLE 10-6
SUMMARY OF BIOSOLIDS METALS
(Dry Weight)



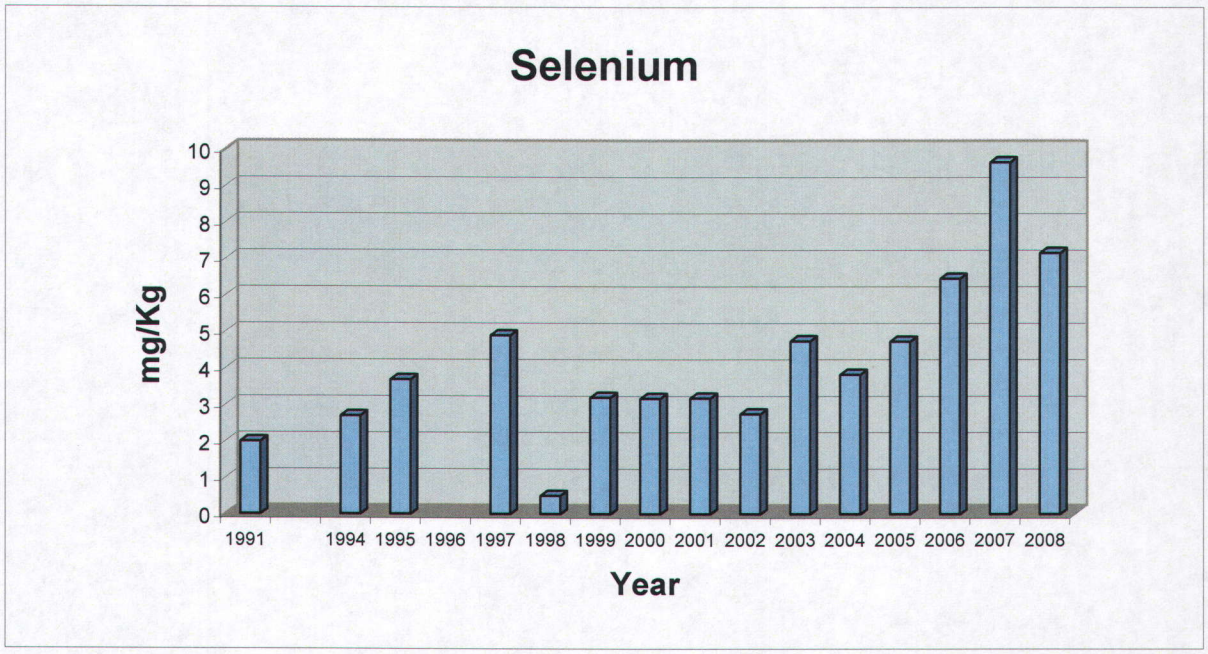
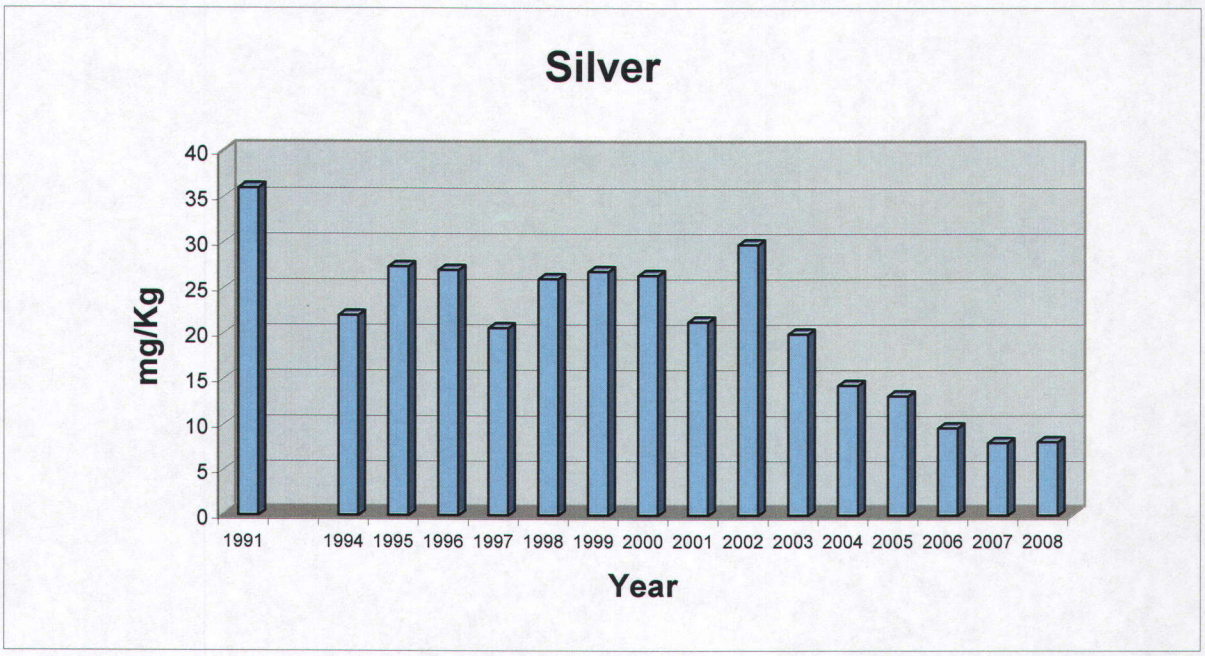


TABLE 10-6
SUMMARY OF BIOSOLIDS METALS
(Dry Weight)



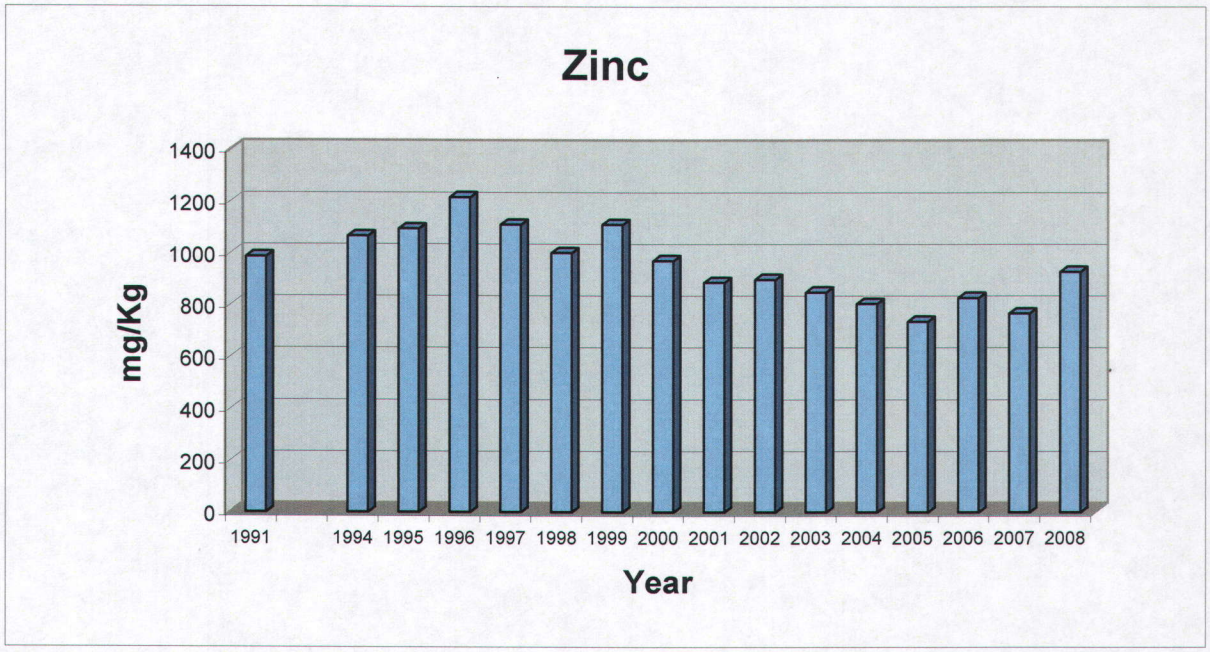
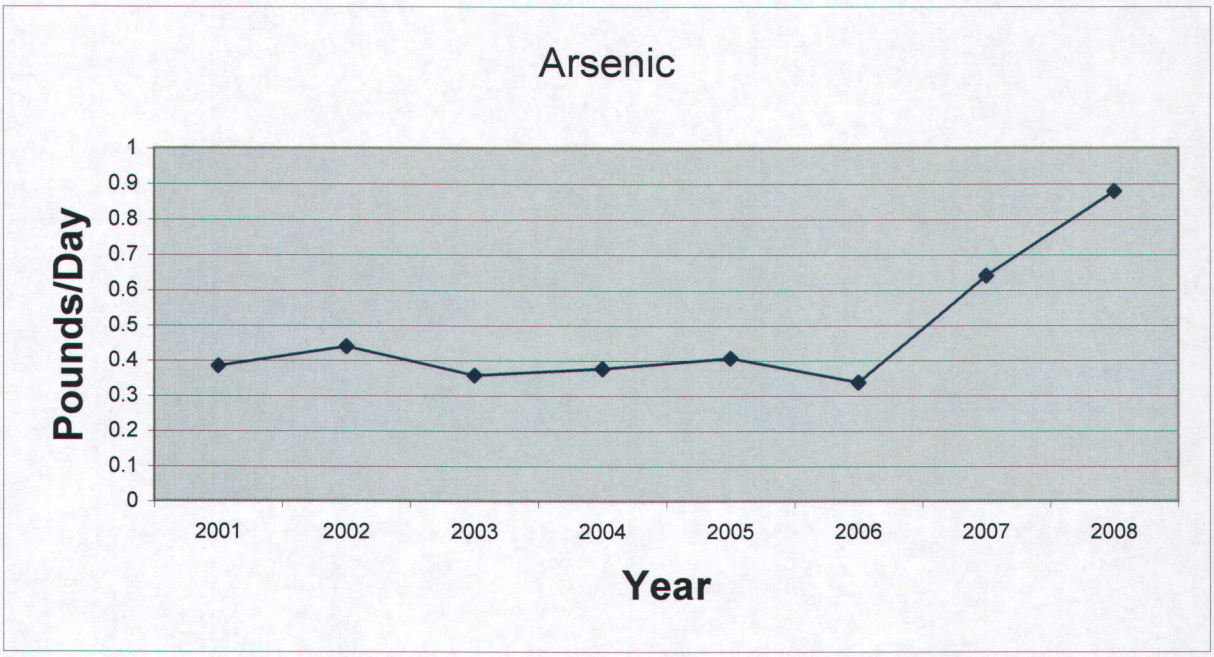


TABLE 10-7
SUMMARY OF BIOSOLIDS
POUNDS PER DAY



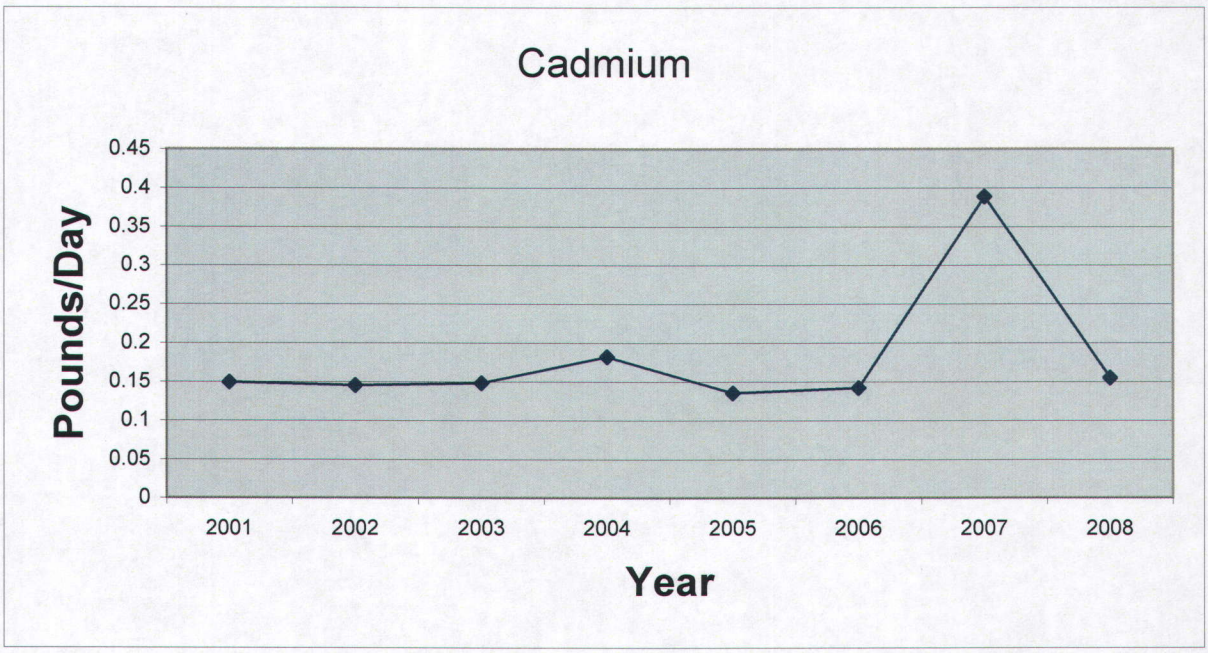
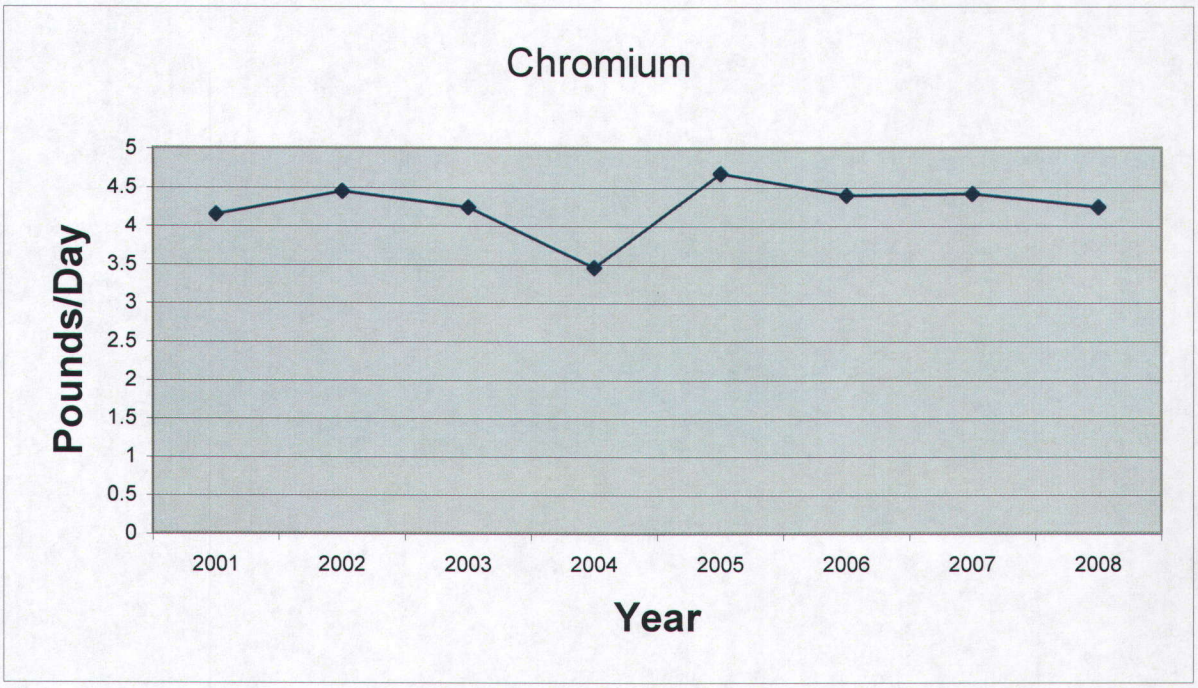


TABLE 10-7
SUMMARY OF BIOSOLIDS
POUNDS PER DAY



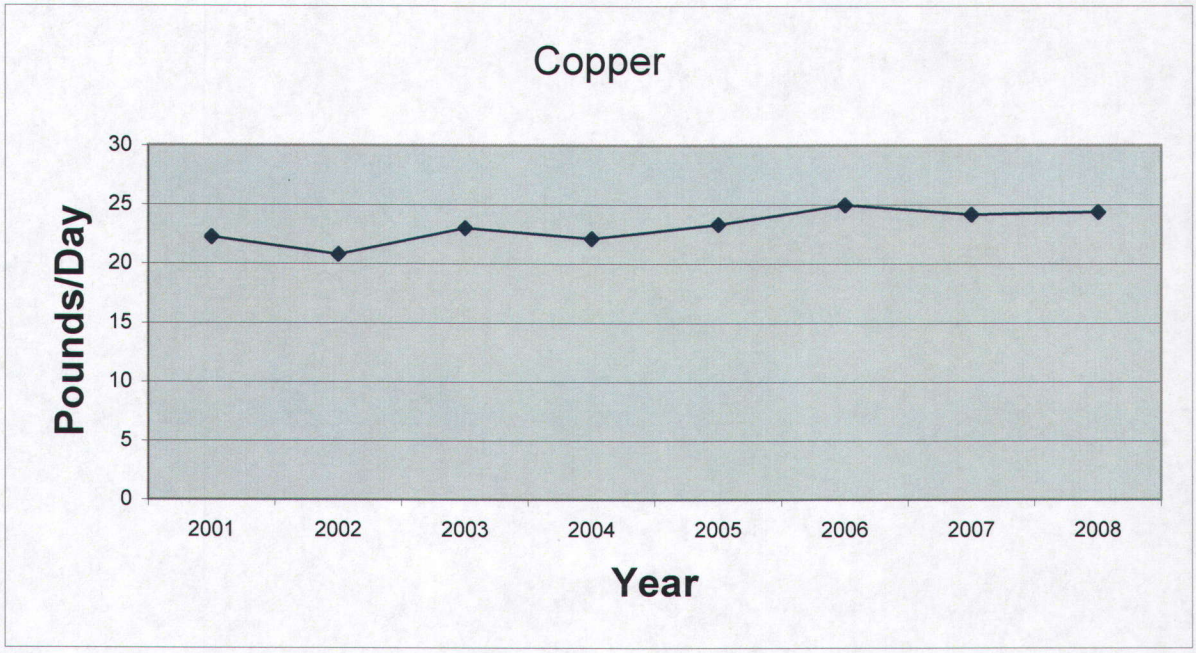
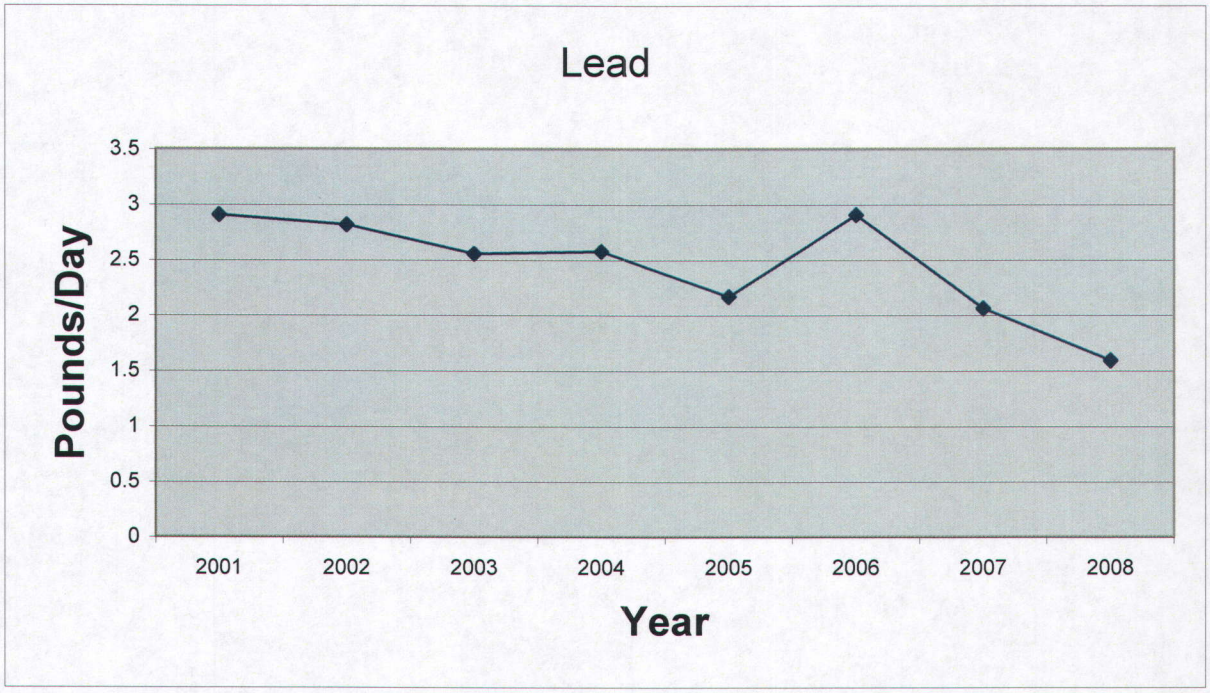
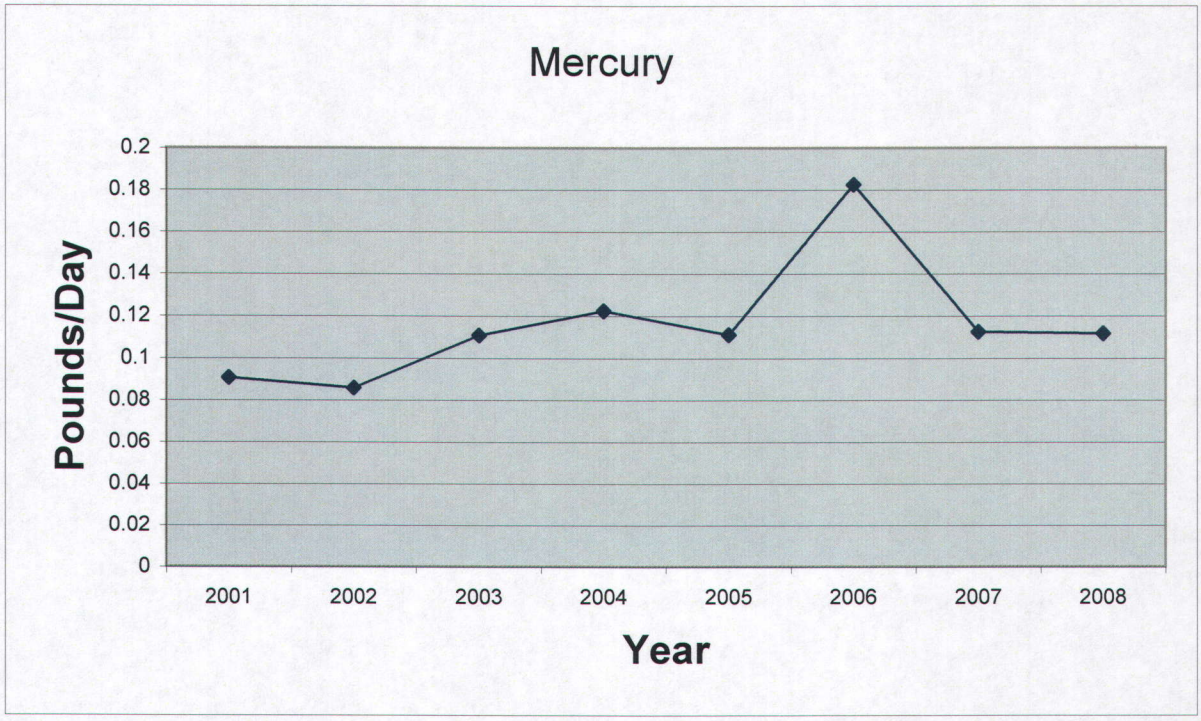


TABLE 10-7
SUMMARY OF BIOSOLIDS
POUNDS PER DAY





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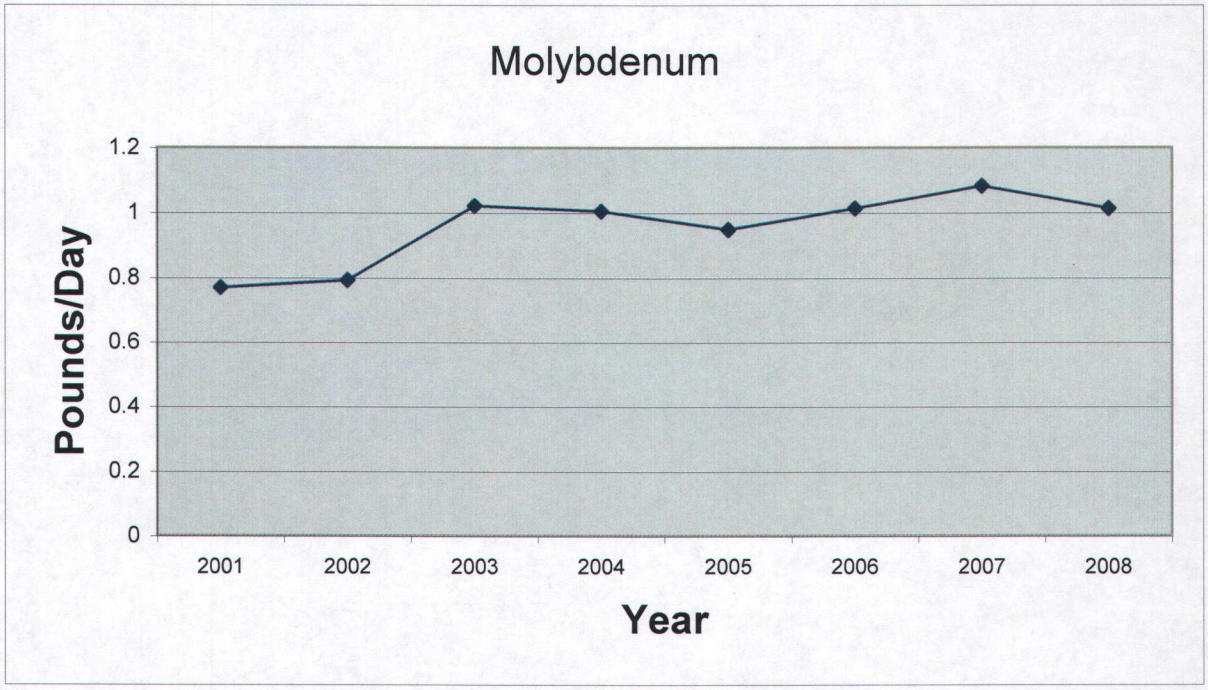
SUMMARY OF BIOSOLIDS
POUNDS PER DAY



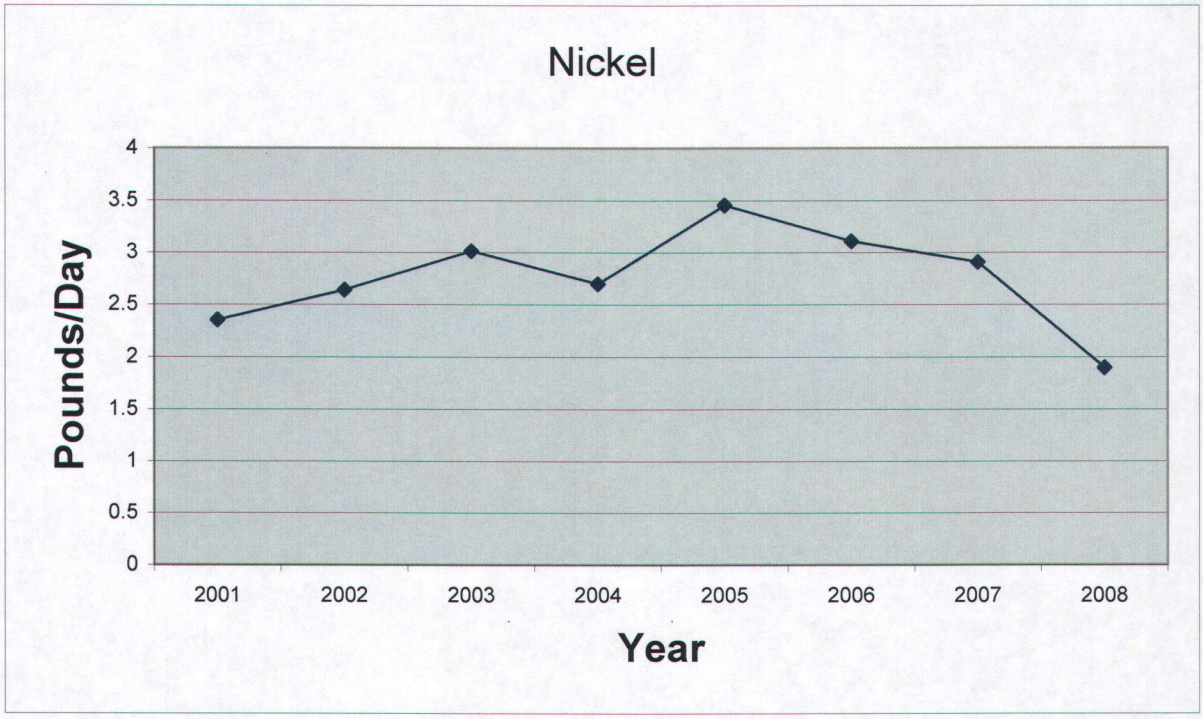
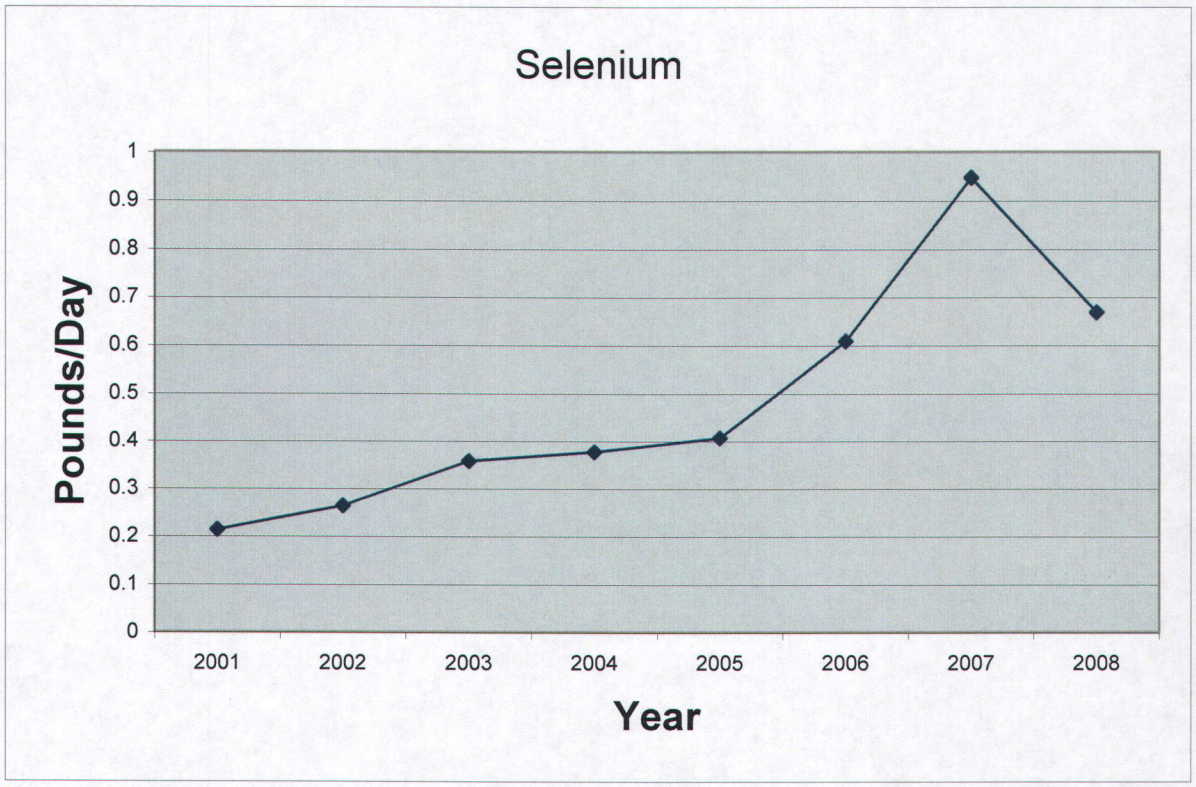


TABLE 10-7
SUMMARY OF BIOSOLIDS
POUNDS PER DAY



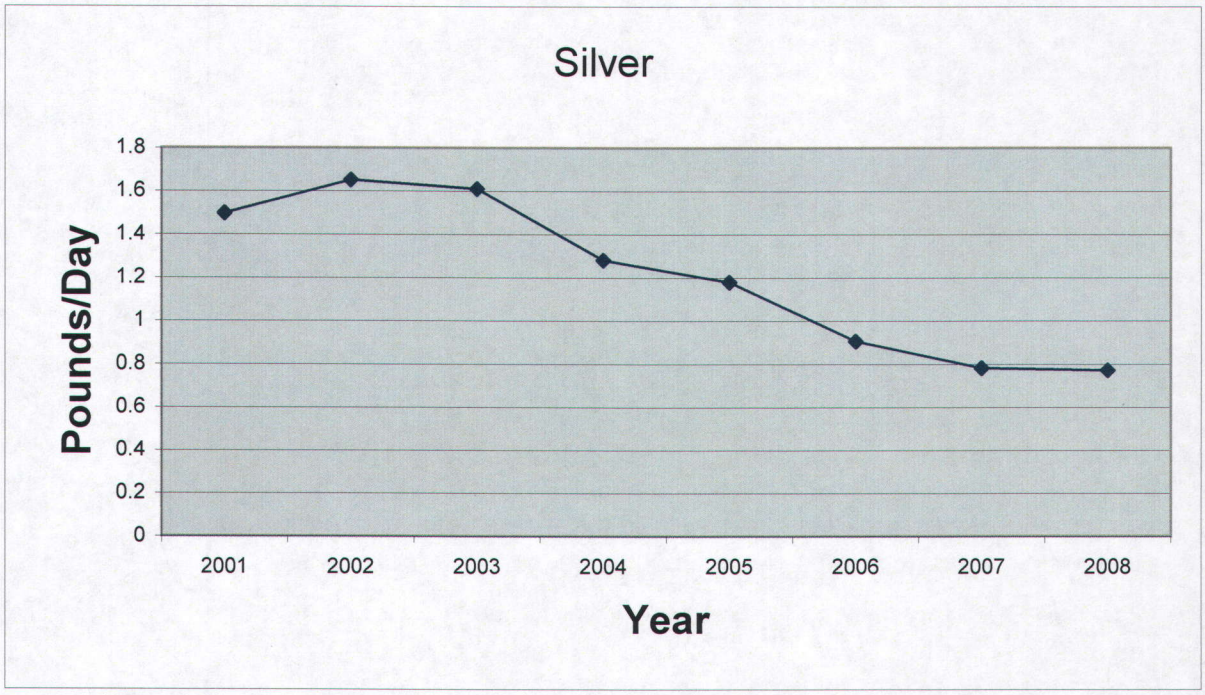
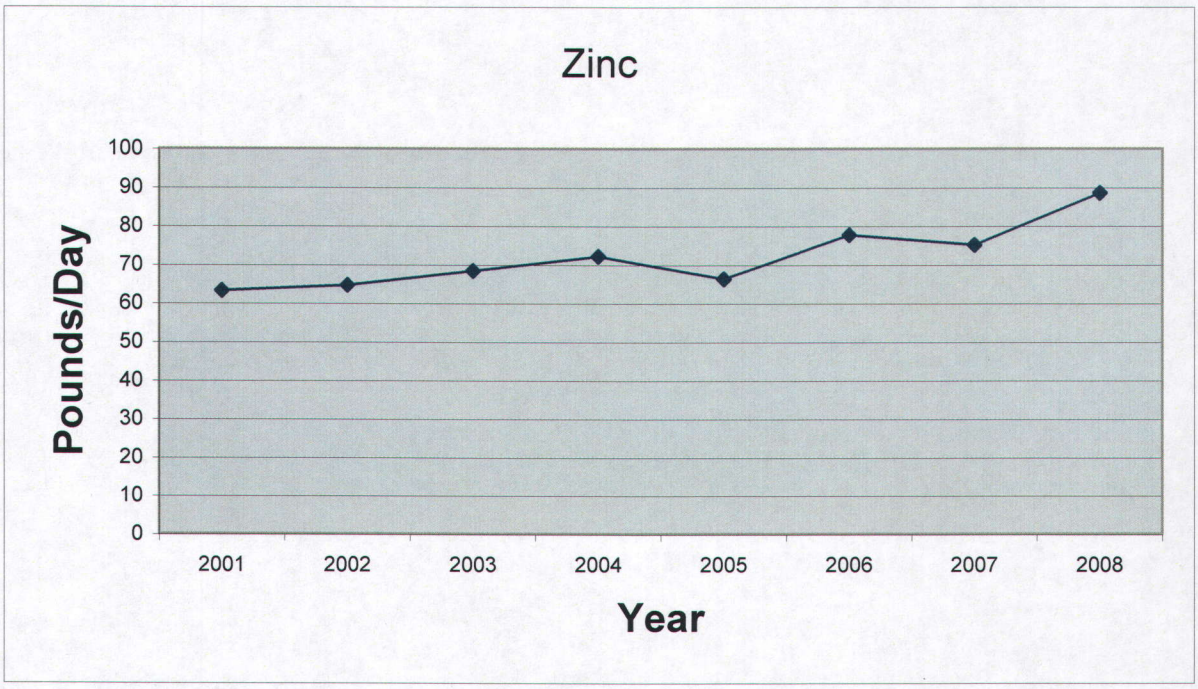


TABLE 10-7
SUMMARY OF BIOSOLIDS
POUNDS PER DAY



LOCAL LIMITS EVALUATION IN 2008

The objectives of the General Pretreatment Regulations are to prevent the introduction of pollutants into POTWs that will either interfere with its normal operation or pass through untreated, and to improve opportunities to recycle and reclaim wastewater and biosolids. The National Pretreatment Program was established to regulate these pollutants by utilizing three strategies:

- National Categorical Standards
- Prohibited Discharge Standards
- Local Limits

National Categorical Standards are technology-based standards developed by the EPA to set effluent limits specific to classes or categories of industries. The prohibited discharge standards consist of general prohibitions – national prohibitions to protect POTWs from pollutant discharges from any nondomestic user which could cause pass-through or interference – and specific prohibitions, which again are national prohibitions designed to protect against specific types of structural damage and interference due to obstruction, flow and heat.

The last strategy is developed at the local level. Each local pretreatment program is required to develop technically-based local discharge limits to protect its POTW. This is achieved in Fresno by reviewing the three most recent years of data. Each year, the oldest data can be discarded and the newest data can be added in order to keep the local limits evaluation process continuous, current, and applicable.

Data are summarized as pounds from in-plant, domestic, and commercial samples into an Excel spreadsheet to organize the information and perform all necessary calculations. Plant secondary effluent sampling occurs monthly for minerals and metals. In addition, the influent, primary effluent, and secondary effluent are sampled during the first month of each calendar quarter. All samples are analyzed by the City of Fresno Wastewater Management Laboratory using 40 CFR 136 procedures. The laboratory is ELAP-certified for water and wastewater analysis.

Domestic and commercial sampling generally occurs monthly. Composite samplers are installed at various domestic and commercial sites for five days. The samples collected are timed composites.

There are fourteen different types of commercial establishments that were sampled in 2005-2007. These include restaurants, supermarkets, shopping centers, schools, hotels, offices, and nursing homes. The composite samplers are programmed to collect samples based on the operating hours of the business.

There are seventeen domestic sampling sites. Six consist of multi-family complexes and eleven are single family neighborhoods. Domestic composite samplers are programmed to collect samples for a twenty-four hour period.

All samples are analyzed by the Wastewater Management Laboratory using 40 CFR 136 procedures.

Statistical evaluation begins by pairing all influent and effluent data sets along with their removal efficiencies. Four separate tools were used to identify data that would be considered for elimination.

Table 11-1 compares influent pounds of a pollutant to effluent pounds of the same pollutant for each sample set. Daily influent pounds versus the daily effluent pounds for each pollutant were also plotted and can be seen in Table 11-2. Any unusual variation between the influent and effluent relationship in Table 11-1 or atypical paired data points in Table 11-2 were noted for further analysis.

The third and fourth methods were statistical analyses designed to identify outlying data. First, the mean percent removal and the standard deviation of the percent removals were determined. From these numbers, the 95% confidence limits were calculated. Any percent removals outside of the 95% confidence limits were flagged for possible elimination.

The final method involves the use of quartiles. The percent removals of a given pollutant were ordered. To divide the data, the median, upper quartile, and lower quartile were determined after which the interquartile range (the difference between the upper and lower quartile) was calculated. From the lower quartile value, upper quartile value, and interquartile range, the lower and upper outliers were calculated. Any percent removals falling outside of the upper and lower outlier values were not considered good data. These results are summarized in Table 11-3.

Once the statistical analyses were completed, the removal efficiencies for each pollutant were calculated. The decile method was used for arsenic, chromium, copper, cyanide, mercury, molybdenum, selenium, and zinc. These are summarized in Table 11-4. Average daily removal efficiencies (ADRE) were calculated for cadmium, lead, nickel, and silver. These are summarized in Table 11-5. Using the removal efficiencies, inhibition values, and plant flow rates, Allowable Headworks Loadings (AHLs) were calculated. Literature inhibition values were used instead of site specific data. If an inhibition value was not listed in the literature, indicating that the pollutant in question did not have any impact, the value of 99999 was used. The AHLs were based on activated sludge inhibition, nitrification inhibition, anaerobic digestion inhibition, and biosolids quality. The lowest AHL was chosen as the Maximum Allowable Headworks Loading (MAHL). Each MAHL was adjusted with a safety factor of 10 percent. Domestic and commercial loadings and a growth allowance, based on the mayor's 2025 Plan, were subtracted from the adjusted MAHL to arrive at the Maximum Allowable Industrial Headworks Loading (MAIHL), in pounds per day. Using the total industrial flow in million gallons per day, the concentration-based local limit was determined.

Nickel is the only metal for which it is proposed that the present limit be lowered. However, the influent pounds and biosolids pounds of nickel have been decreasing since 2005. With such being the case, the nickel limit will remain unchanged for 2009 and will be looked at again using data from 2008 for the next Annual report.

The proposed limits for cadmium, chromium, copper, lead, silver, and zinc were less stringent than the present limits and, therefore, will not change. Arsenic and cyanide were undetected in the influent; consequently, removal efficiencies could not be calculated. Their limits will also remain the same. Domestic and commercial data for mercury is unavailable; therefore the MAIHL could not be calculated. The mercury local

limit will remain unchanged. There are no inhibition factors for molybdenum and selenium. Most removal efficiencies for selenium are zero percent. For these reasons, local limits for molybdenum and selenium have not been developed. All calculations for determining the local limits, including the various inhibition levels, deciles, AHL, and MAIHL are summarized in Table 11-6 with the local limits themselves being listed in the following chart.

Pollutant	**Proposed Limit**	**Present Limit**
Arsenic	N/A	0.32
Cadmium	0.37	0.12
Chromium	8.43	6.7
Copper	2.51	2.5
Cyanide	0.00	0.77
Lead	2.83	1.2
Mercury	N/A	0.05
Molybdenum	None	
Nickel	0.90	1.3
Selenium	None	
Silver	8.63	1.1
Zinc	3.45	2.1

Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Arsenic

Sample	Influent	Effluent
1	1.50	1.50
2	1.45	1.45
3	1.42	1.42
4	3.11	1.55
5	1.46	1.46
6	1.60	1.60
7	1.48	1.48
8	1.61	1.61
9	1.45	1.45
10	5.69	5.69
11	6.11	6.11
12	6.06	6.06

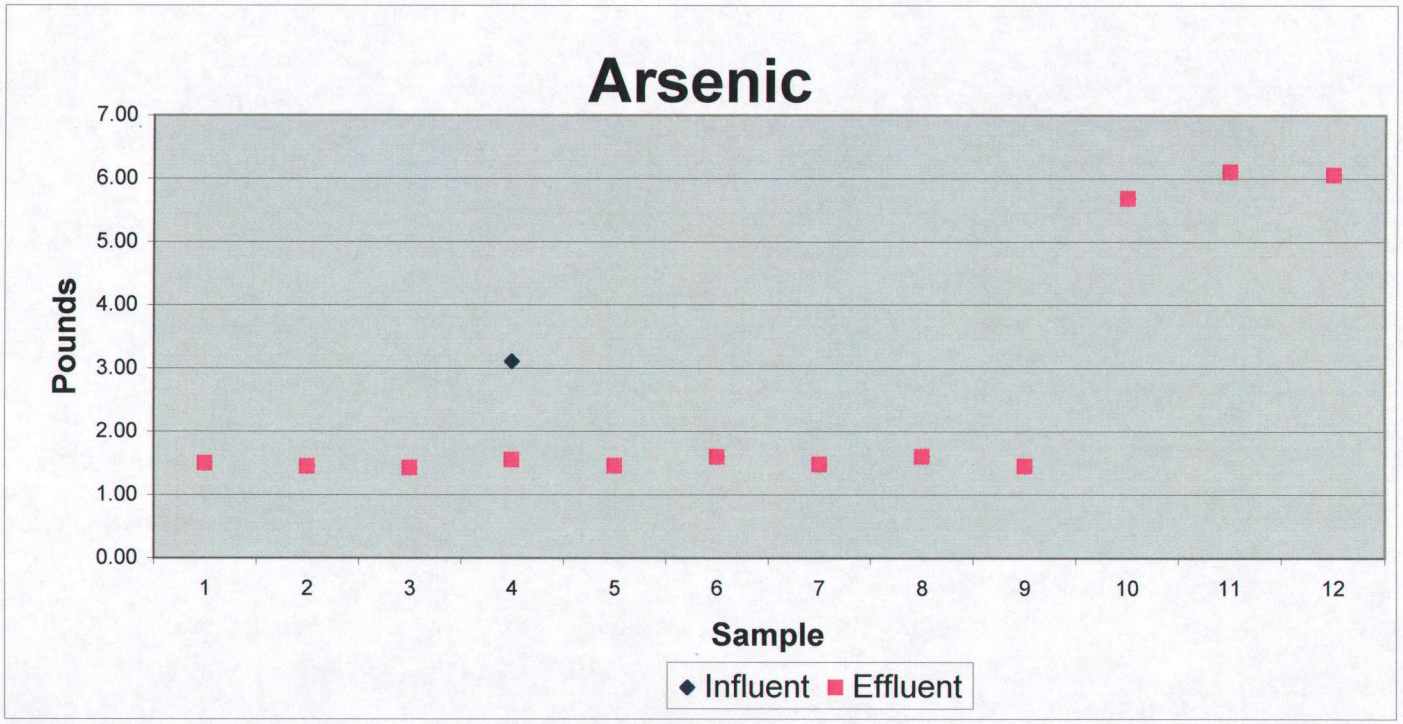


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Cadmium

Sample	Influent	Effluent
1	0.30	0.30
2	0.29	0.29
3	0.57	0.29
4	0.31	0.31
5	0.59	0.29
6	0.64	0.32
7	0.30	0.30
8	0.64	0.32
9	0.29	0.29
10	0.41	0.46
11	0.37	0.15
12	0.51	0.15

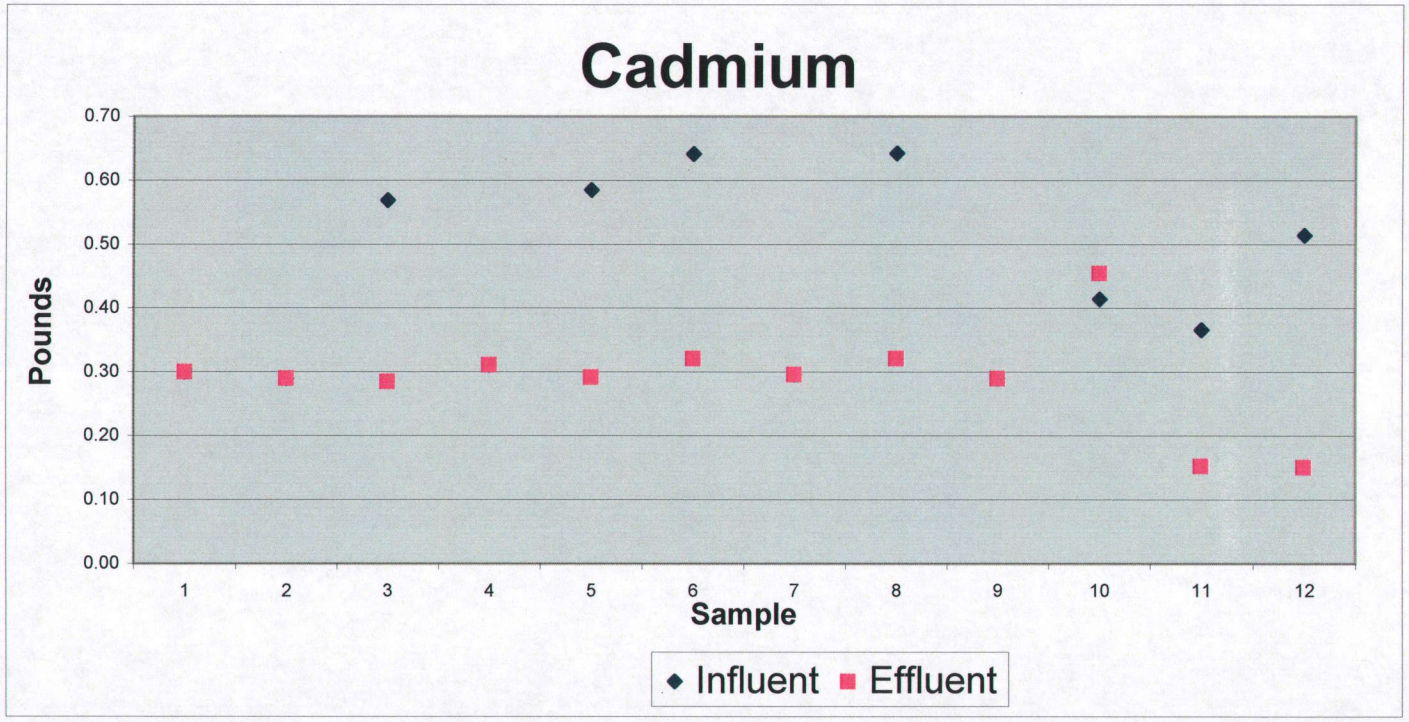


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Chromium

Sample	Influent	Effluent
1	4.87	1.50
2	3.48	1.45
3	3.99	1.42
4	4.97	1.55
5	4.68	1.46
6	9.62	1.60
7	5.33	1.48
8	4.50	1.61
9	4.06	1.45
10	3.98	2.27
11	4.89	0.61
12	5.45	0.61

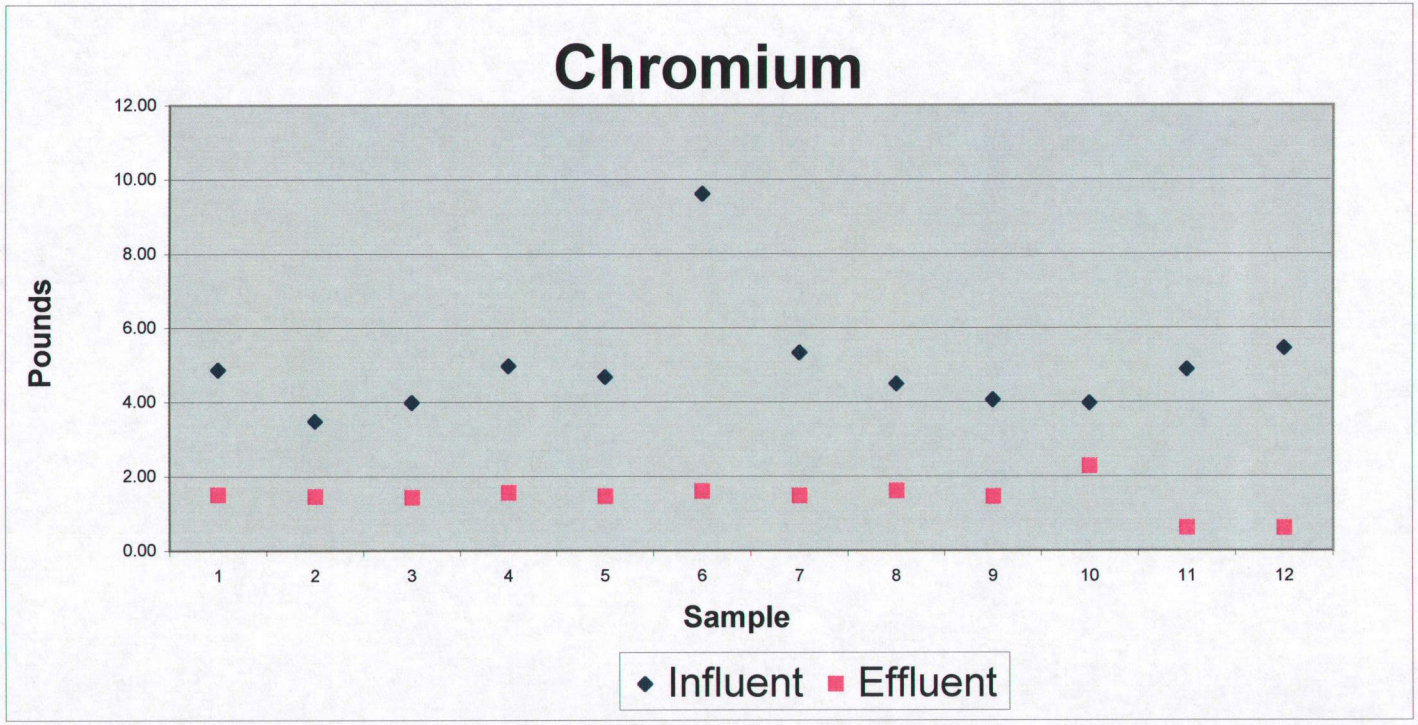


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Copper

Sample	Influent	Effluent
1	28.24	1.50
2	27.84	3.48
3	34.73	2.85
4	57.20	16.79
5	39.75	4.09
6	35.26	12.18
7	32.59	9.48
8	41.74	3.85
9	33.06	1.45
10	23.88	7.96
11	30.53	1.53
12	26.05	1.51

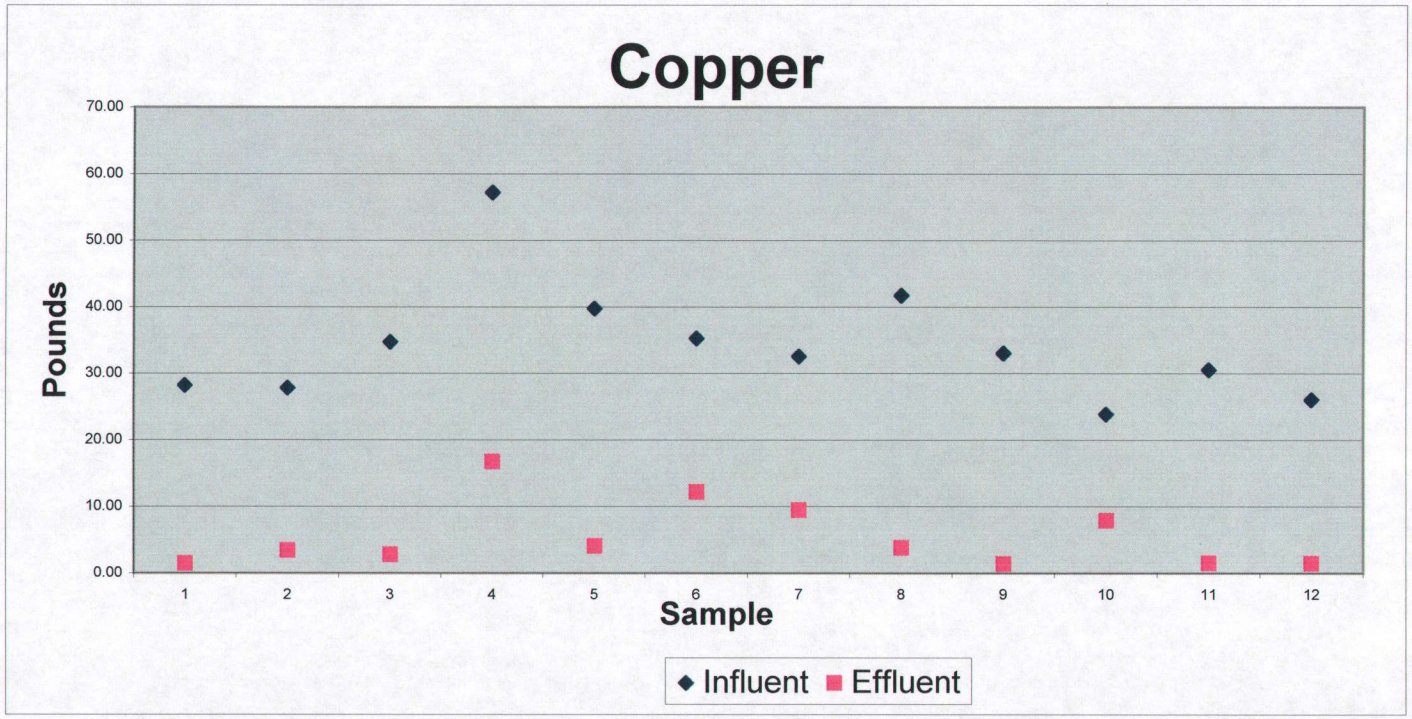


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Lead

Sample	Influent	Effluent
1	3.00	1.50
2	1.45	1.45
3	5.69	1.42
4	3.11	1.55
5	1.46	1.46
6	1.60	1.60
7	3.56	1.48
8	3.21	1.61
9	2.90	1.45
10	1.42	1.42
11	1.53	1.53
12	1.51	1.51

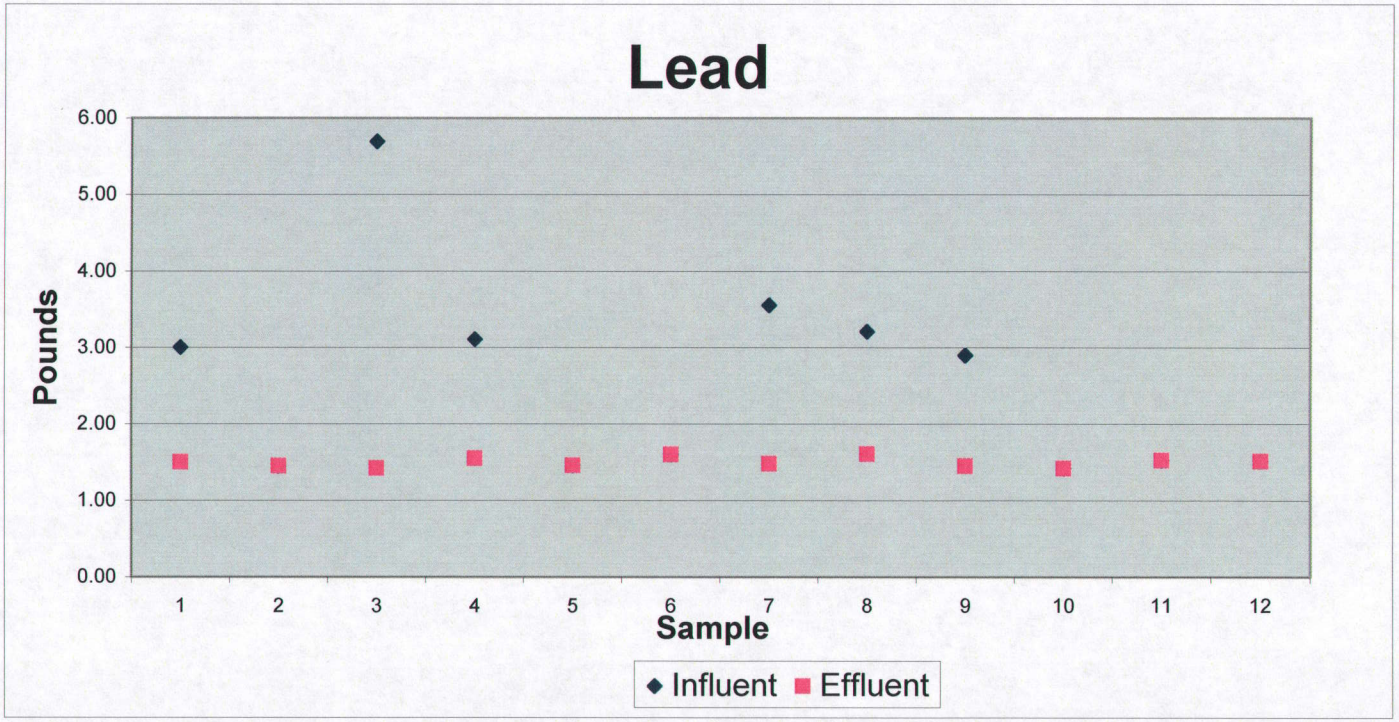


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Mercury

Sample	Influent	Effluent
1	0.36	0.03
2	0.03	0.03
3	0.11	0.03
4	0.12	0.03
5	0.06	0.03
6	0.13	0.03
7	0.06	0.03
8	0.06	0.03
9	0.06	0.03
10	0.06	0.06
11	0.06	0.06
12	0.12	0.06

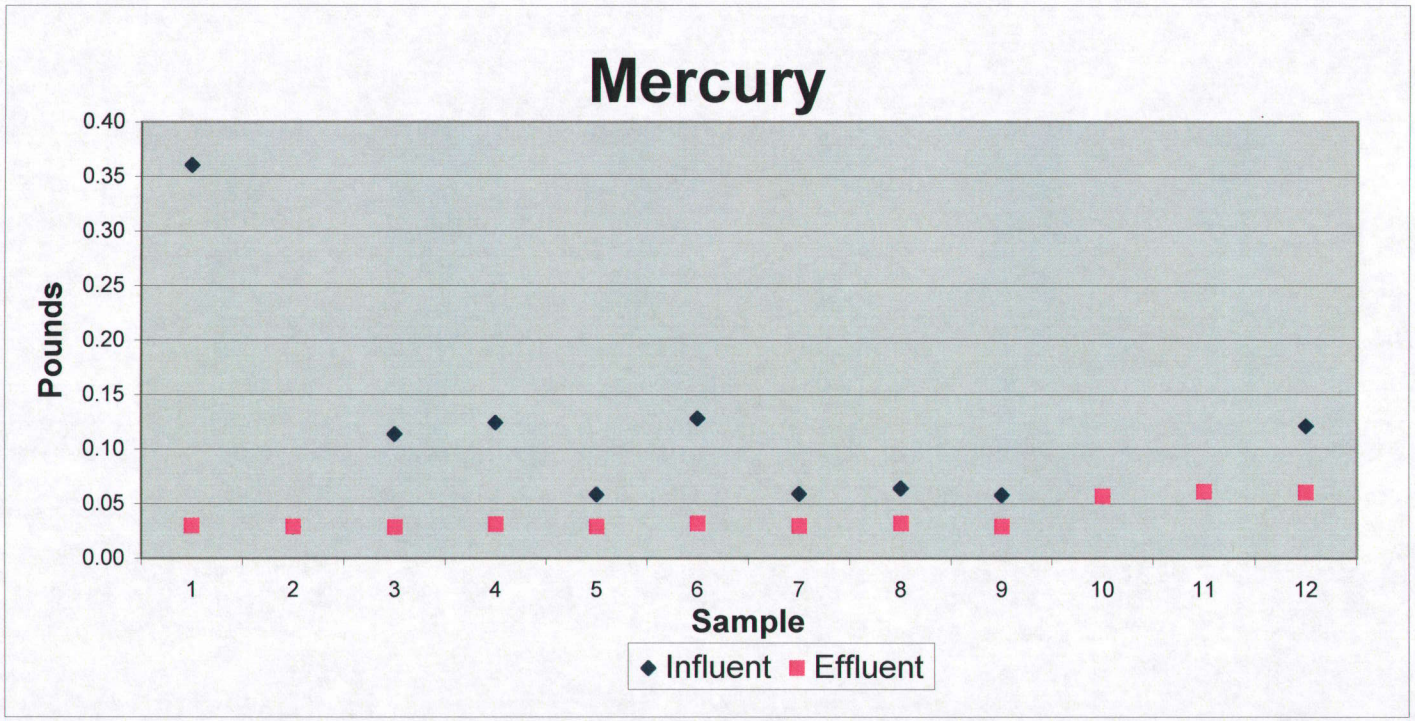


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Molybdenum	Sample	Influent	Effluent
	1	3.61	1.50
	2	4.64	3.48
	3	3.42	1.42
	4	3.73	1.55
	5	3.51	1.46
	6	1.60	1.60
	7	5.33	1.48
	8	7.71	3.21
	9	4.64	1.45
	10	2.43	2.27
	11	4.28	2.47
	12	4.24	2.34

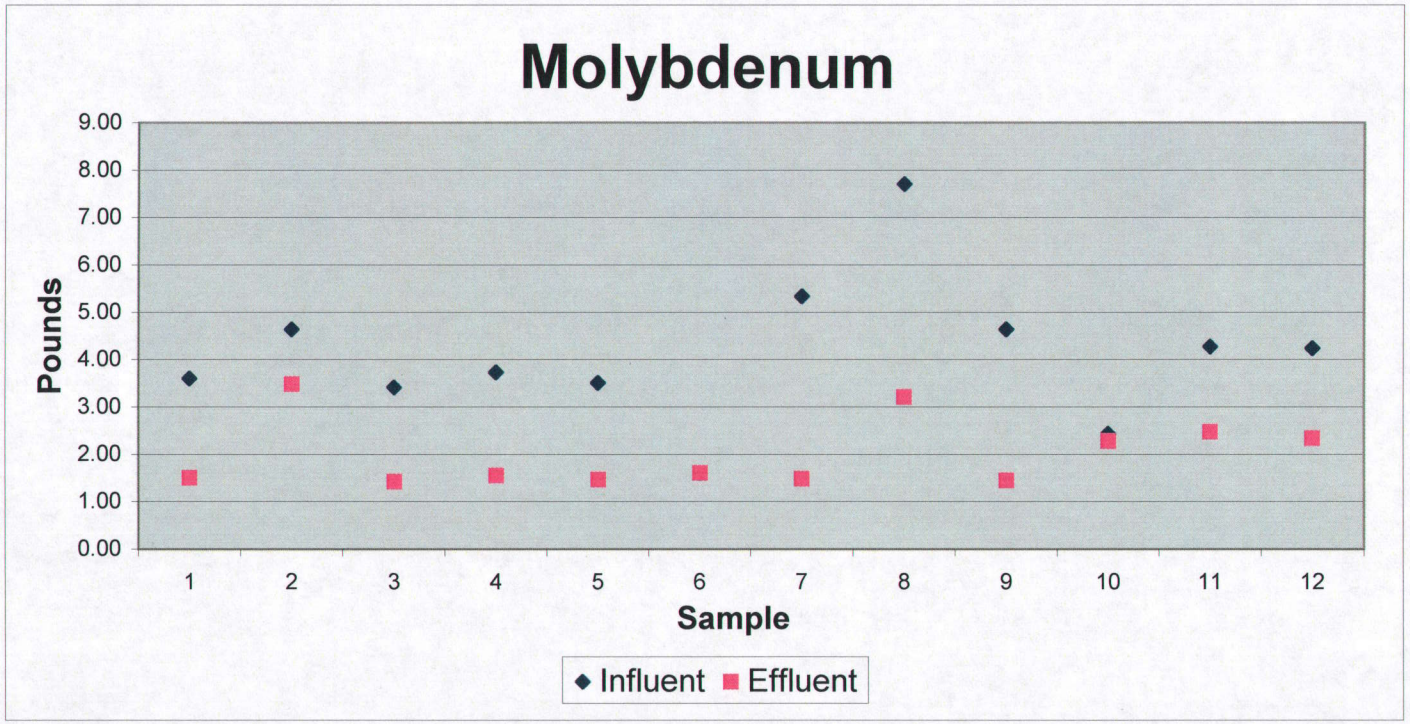


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Nickel

Sample	Influent	Effluent
1	6.01	1.50
2	3.48	1.45
3	5.12	0.48
4	9.33	1.55
5	7.60	12.86
6	7.05	1.60
7	4.74	1.48
8	5.14	1.61
9	3.48	1.45
10	2.84	2.84
11	3.05	3.05
12	3.03	3.03

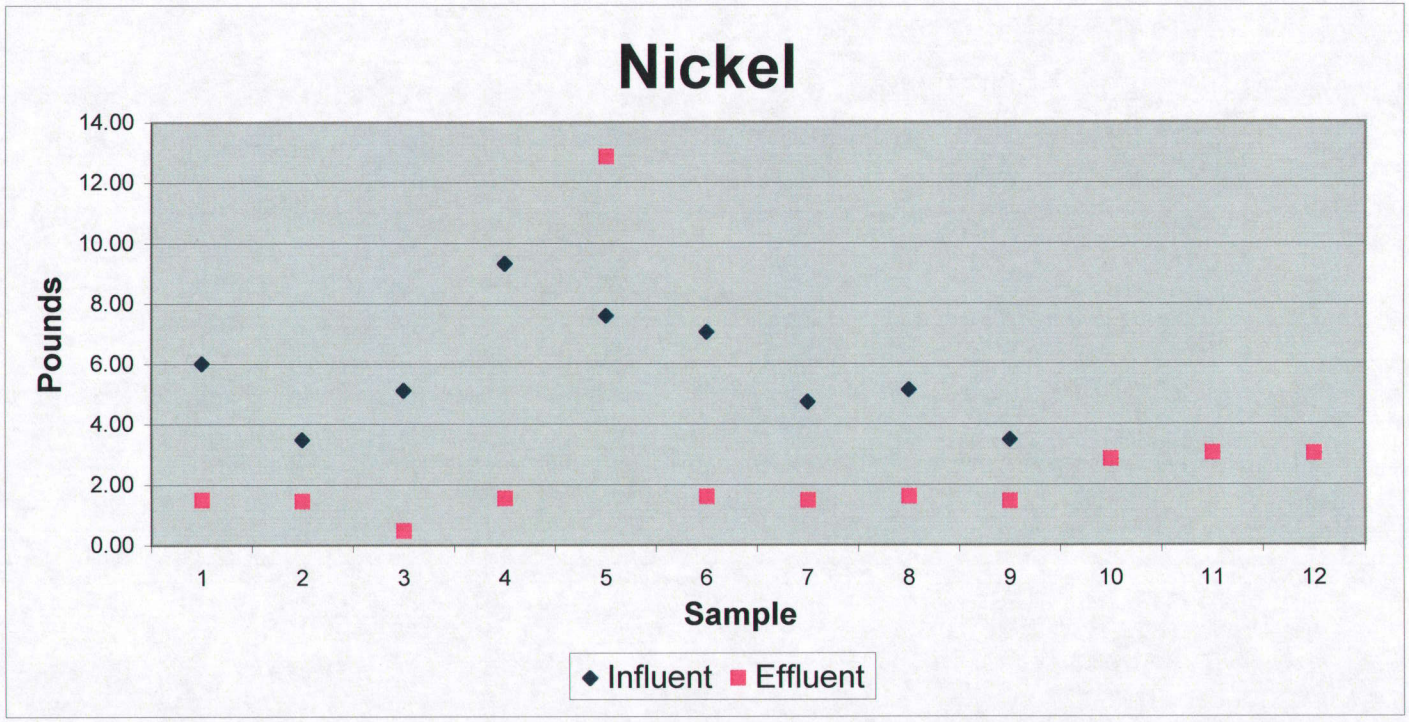


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Selenium

Sample	Influent	Effluent
1	1.50	1.50
2	1.45	1.45
3	1.42	1.42
4	1.55	3.11
5	1.46	1.46
6	1.60	1.60
7	4.15	1.48
8	1.61	1.61
9	1.45	1.45
10	7.11	7.11
11	7.63	7.63
12	7.57	7.57

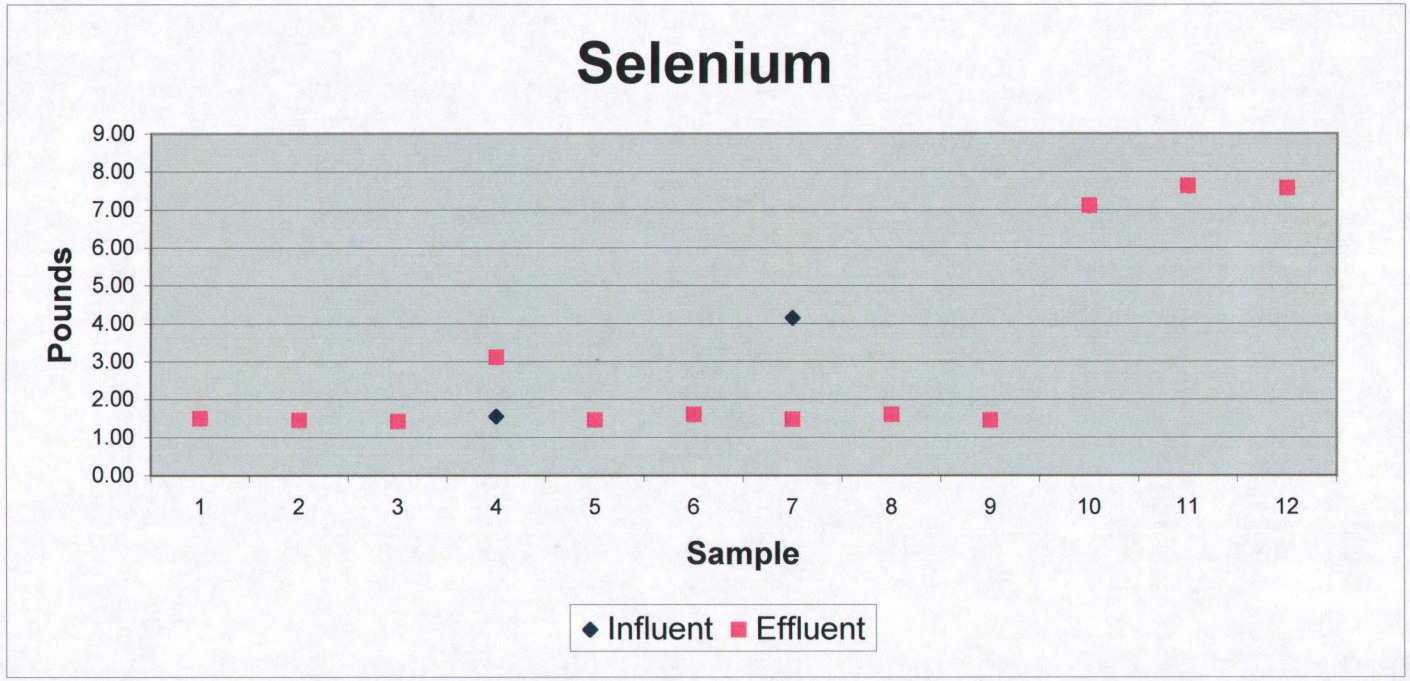


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Silver

Sample	Influent	Effluent
1	1.20	0.30
2	2.32	0.29
3	1.14	0.29
4	0.31	0.31
5	1.17	0.29
6	0.32	0.32
7	0.59	0.30
8	0.32	0.32
9	1.74	0.29
10	2.84	2.84
11	3.05	3.05
12	3.03	3.03

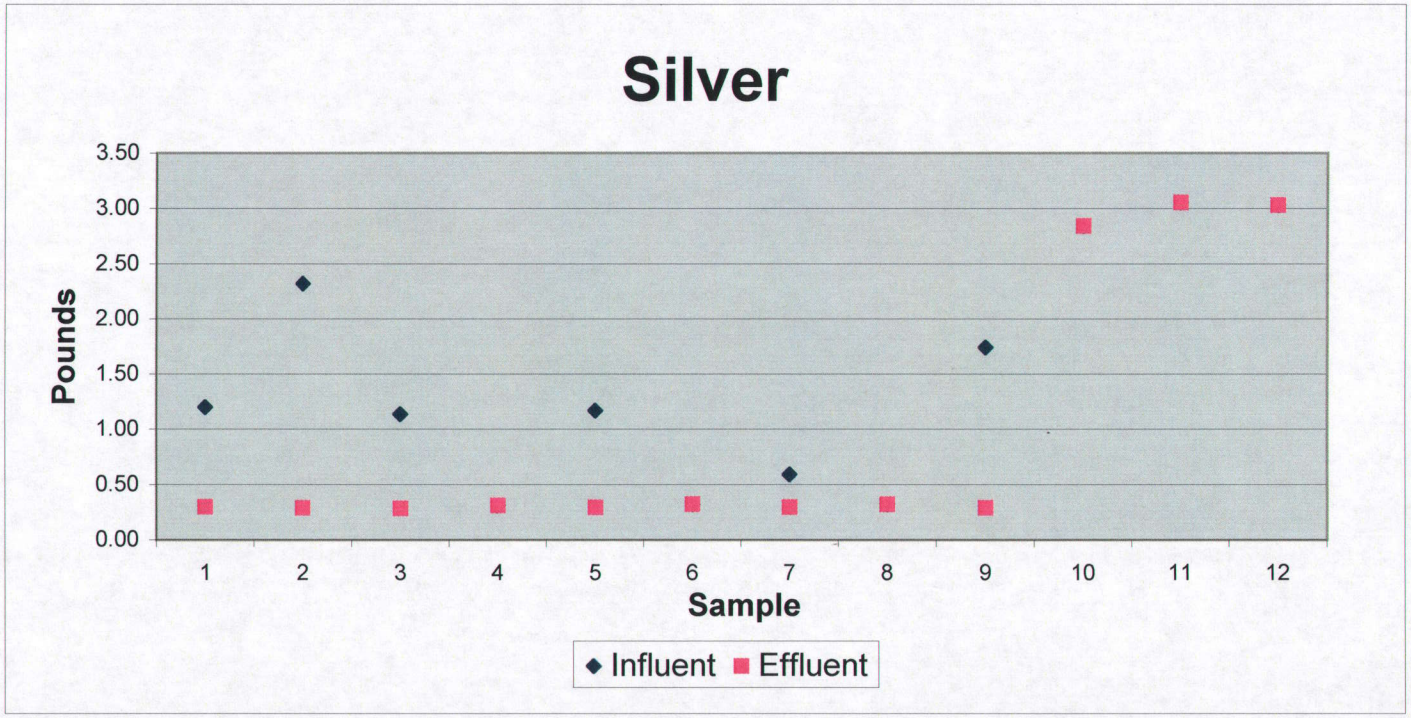


Table 11-1

Comparison of Influent and Effluent Pounds of Metals

Zinc

Sample	Influent	Effleunt
1	110.57	28.84
2	96.29	27.26
3	95.07	29.60
4	115.65	28.60
5	95.28	23.38
6	124.36	26.92
7	94.81	20.74
8	107.89	12.84
9	92.81	22.62
10	112.55	37.52
11	97.09	18.32
12	109.64	15.75

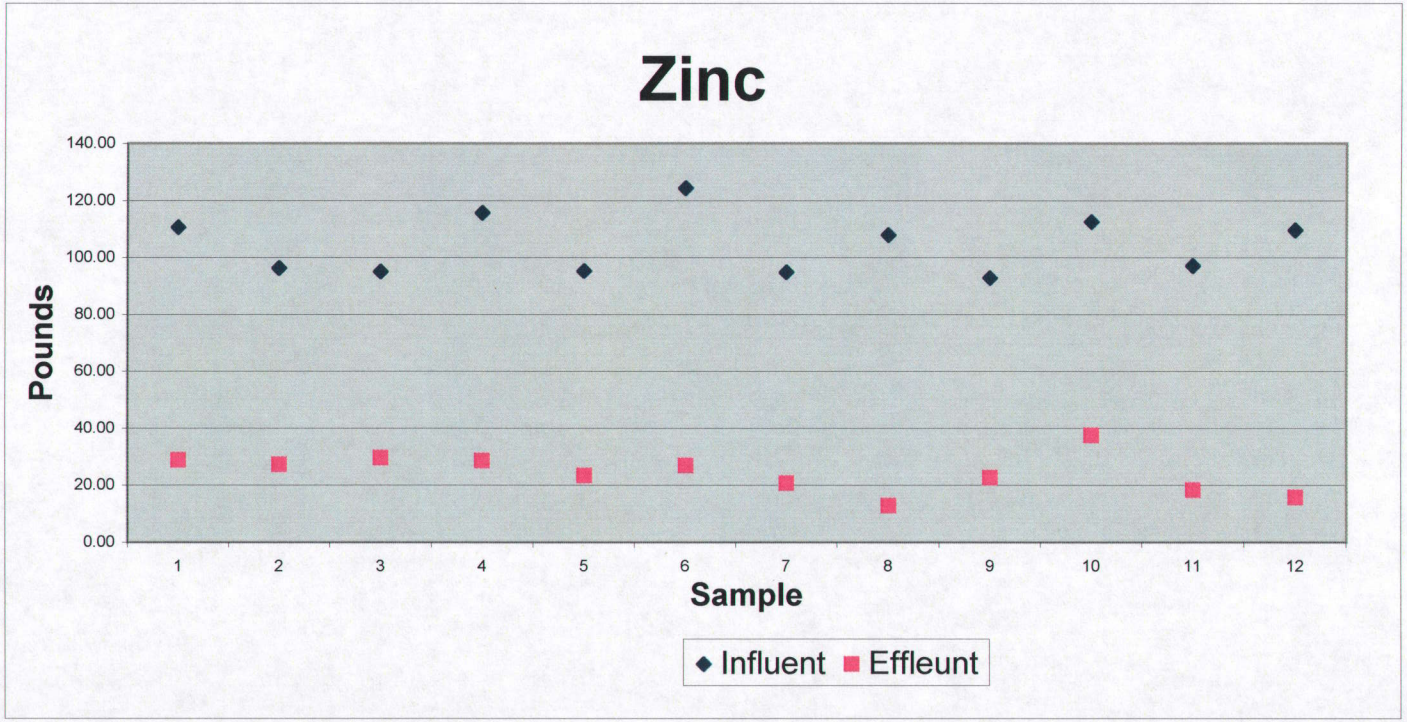


Table 11-2

Influent vs. Effluent Pounds Metals

Arsenic

Sample	Influent	Effluent
1	1.50	1.50
2	1.45	1.45
3	1.42	1.42
4	3.11	1.55
5	1.46	1.46
6	1.60	1.60
7	1.48	1.48
8	1.61	1.61
9	1.45	1.45
10	5.69	5.69
11	6.11	6.11
12	6.06	6.06

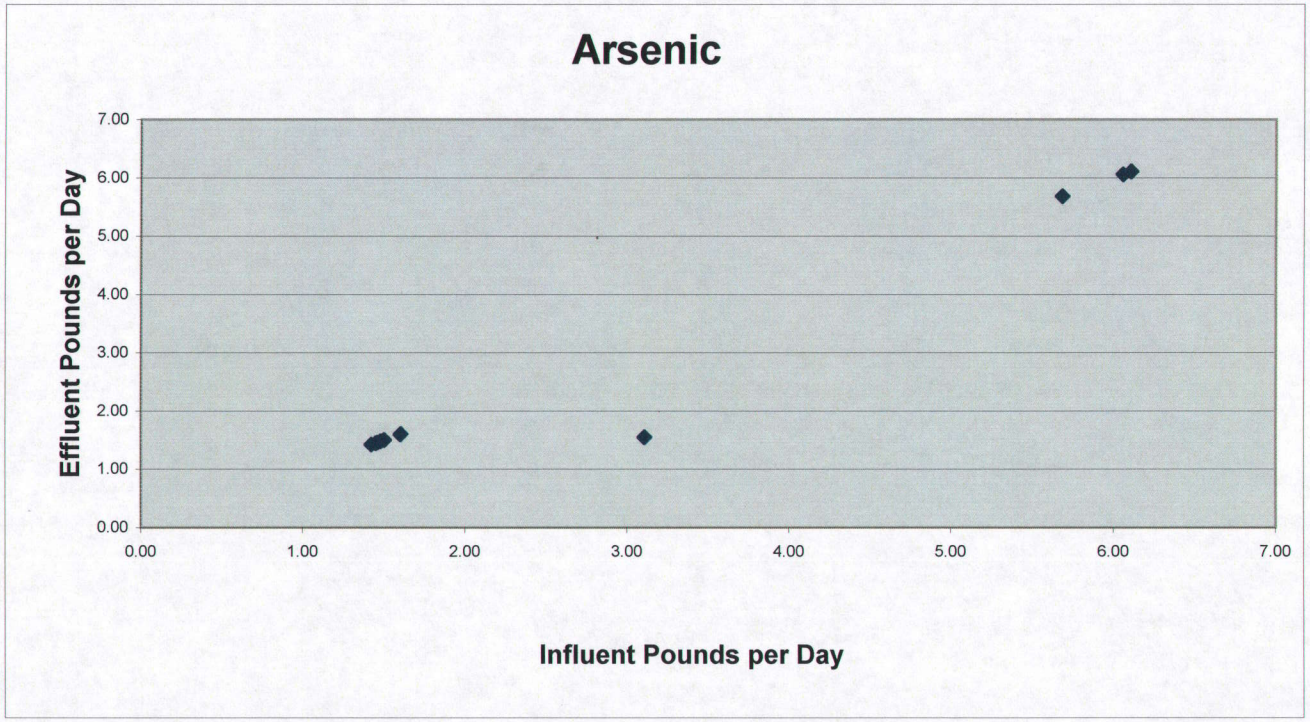


Table 11-2

Influent vs. Effluent Pounds Metals

Cadmium

Sample	Influent	Effluent
1	0.30	0.30
2	0.29	0.29
3	0.57	0.29
4	0.31	0.31
5	0.59	0.29
6	0.64	0.32
7	0.30	0.30
8	0.64	0.32
9	0.29	0.29
10	0.41	0.46
11	0.37	0.15
12	0.51	0.15

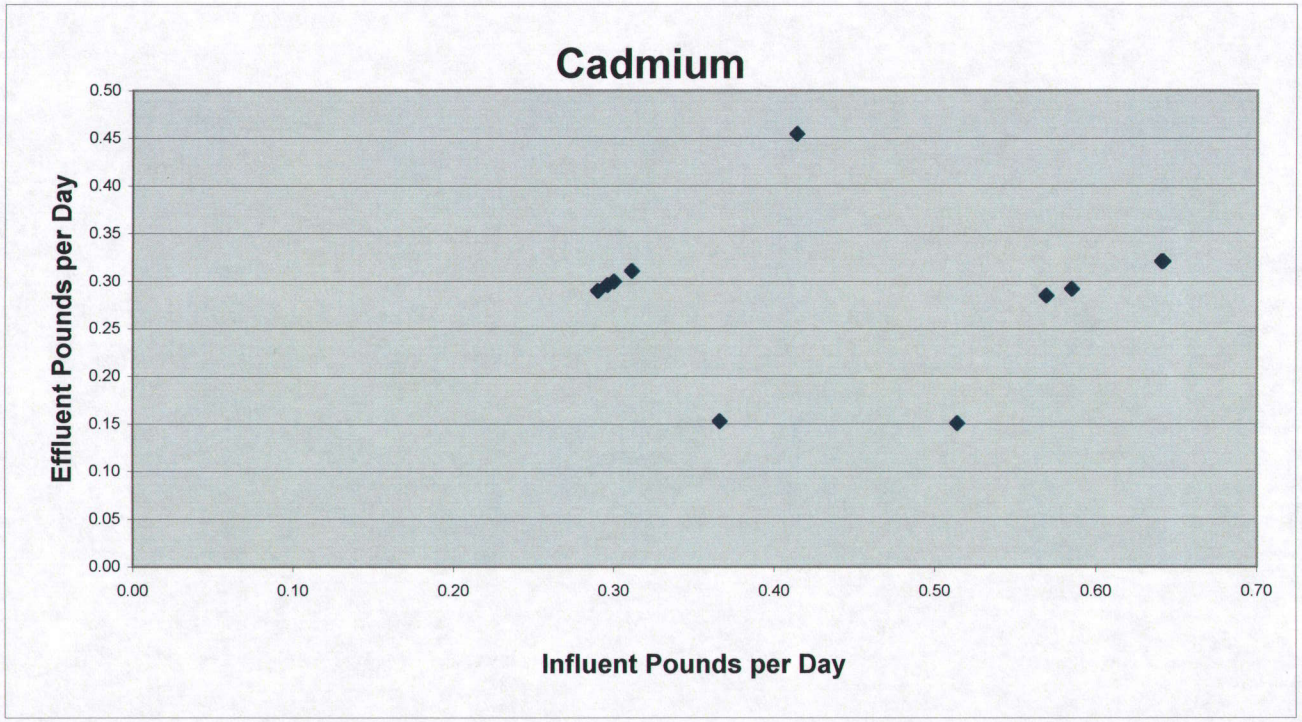


Table 11-2

Influent vs. Effluent Pounds Metals

Chromium

Sample	Influent	Effluent
1	4.87	1.50
2	3.48	1.45
3	3.99	1.42
4	4.97	1.55
5	4.68	1.46
6	9.62	1.60
7	5.33	1.48
8	4.50	1.61
9	4.06	1.45
10	3.98	2.27
11	4.89	0.61
12	5.45	0.61

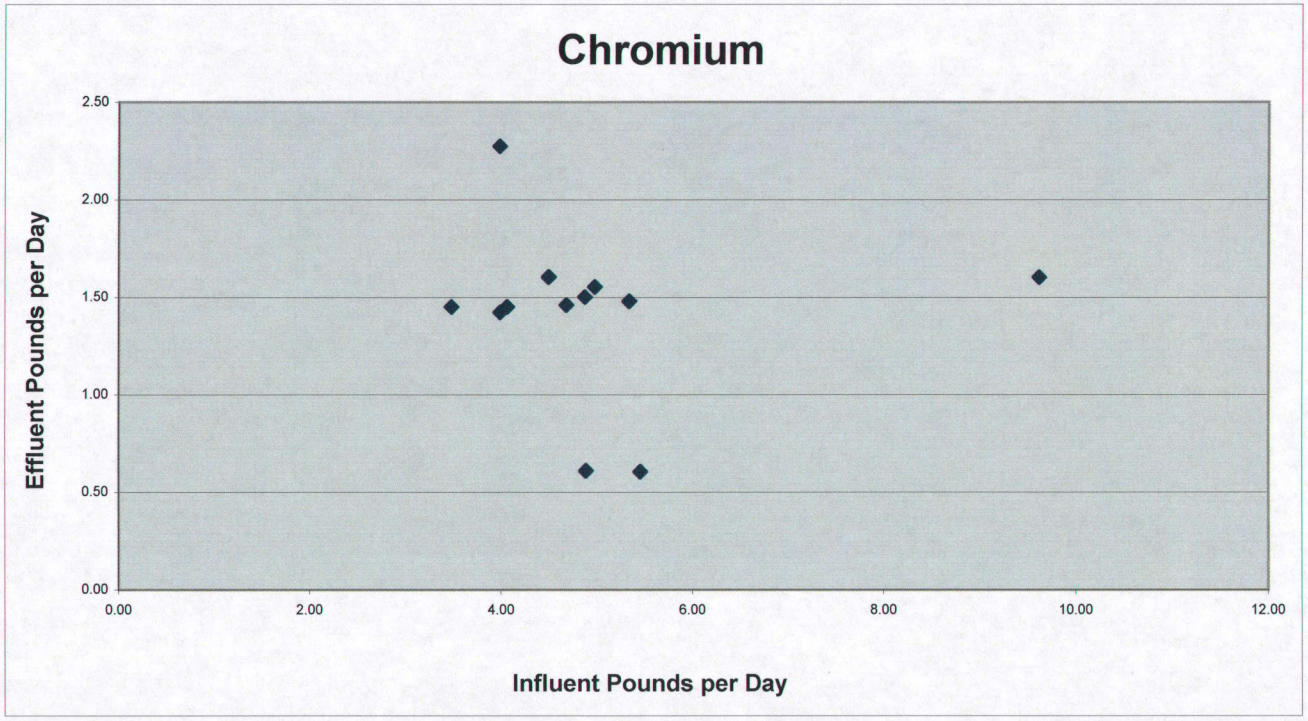


Table 11-2

Influent vs. Effluent Pounds Metals

Copper

Sample	Influent	Effluent
1	28.24	1.50
2	27.84	3.48
3	34.73	2.85
4	57.20	16.79
5	39.75	4.09
6	35.26	12.18
7	32.59	9.48
8	41.74	3.85
9	33.06	1.45
10	23.88	7.96
11	30.53	1.53
12	26.05	1.51

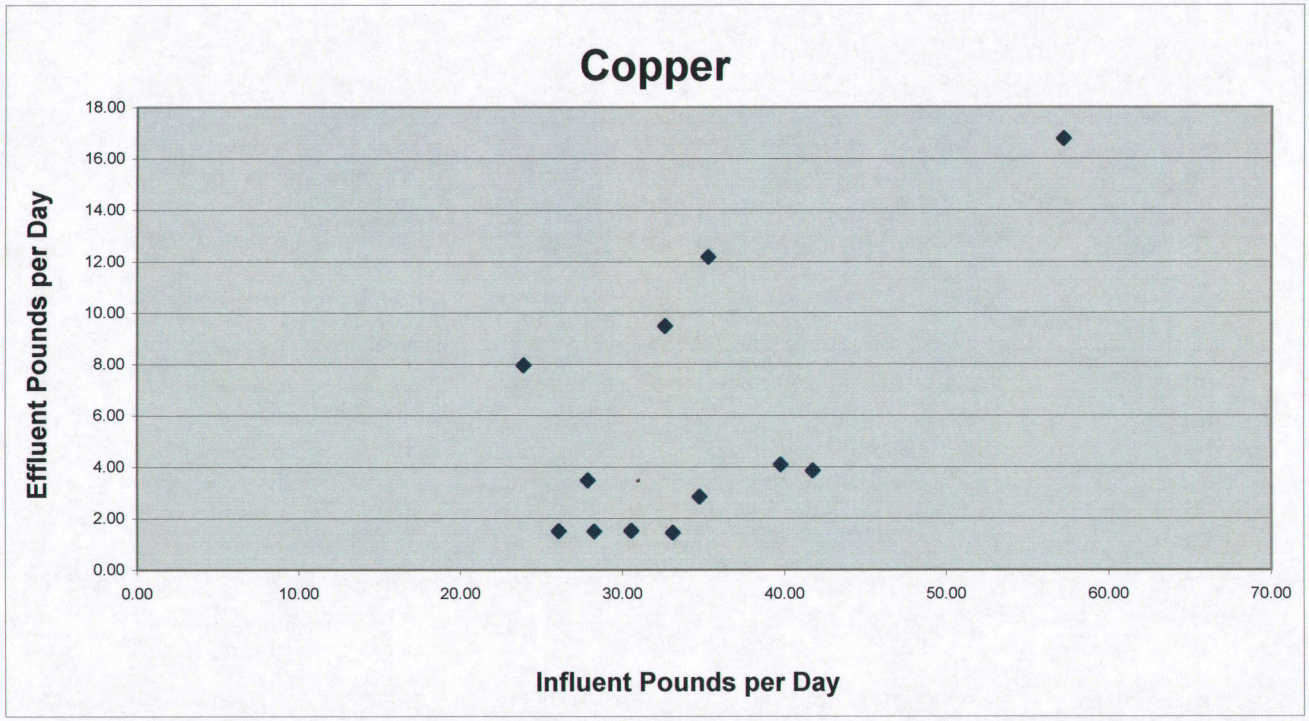


Table 11-2

Influent vs. Effluent Pounds Metals

Lead

Sample	Influent	Effluent
1	3.00	1.50
2	1.45	1.45
3	5.69	1.42
4	3.11	1.55
5	1.46	1.46
6	1.60	1.60
7	3.56	1.48
8	3.21	1.61
9	2.90	1.45
10	1.42	1.42
11	1.53	1.53
12	1.51	1.51

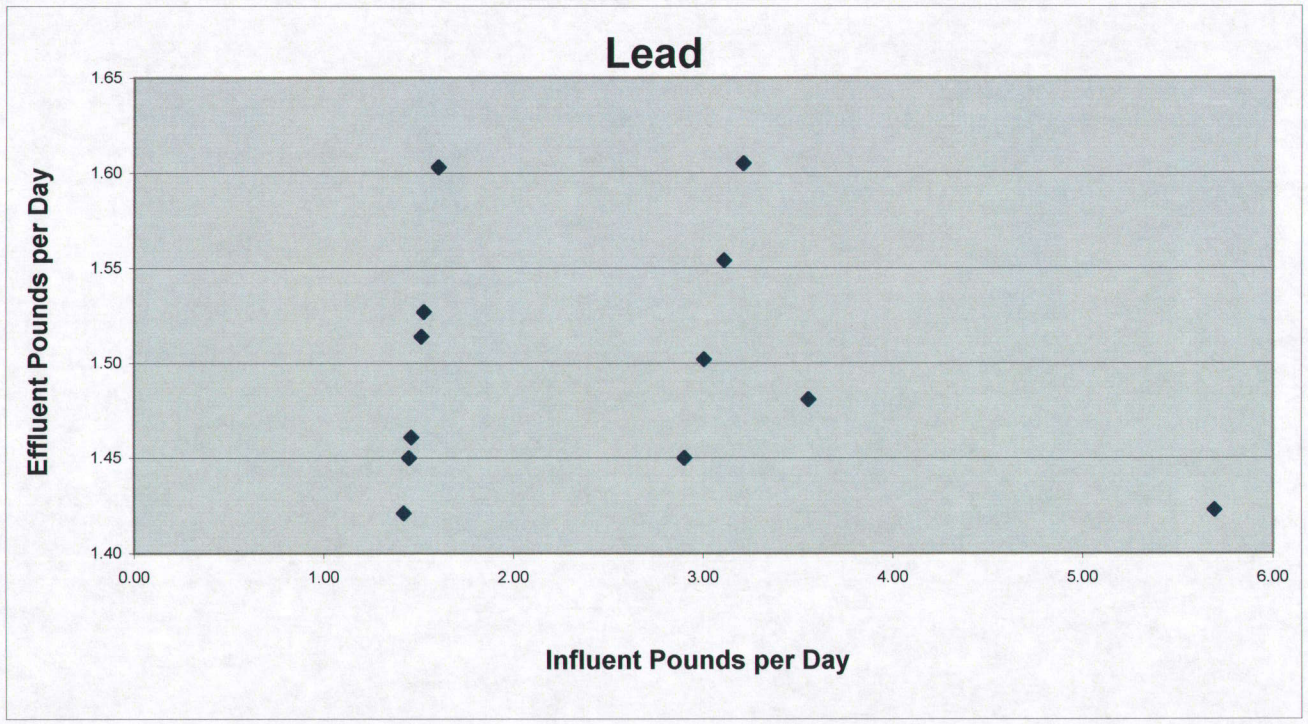


Table 11-2

Influent vs. Effluent Pounds Metals

Mercury

Sample	Influent	Effluent
1	0.36	0.03
2	0.03	0.03
3	0.11	0.03
4	0.12	0.03
5	0.06	0.03
6	0.13	0.03
7	0.06	0.03
8	0.06	0.03
9	0.06	0.03
10	0.06	0.06
11	0.06	0.06
12	0.12	0.06

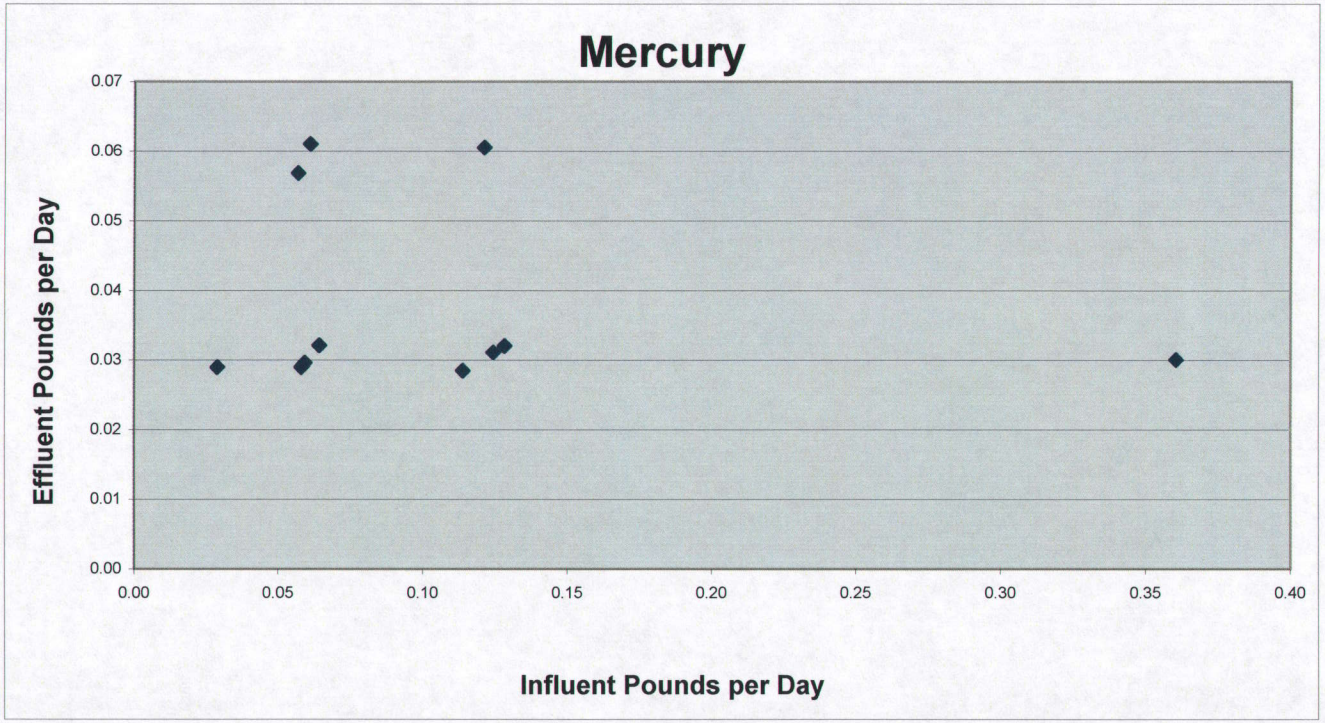


Table 11-2

Influent vs. Effluent Pounds Metals

Molybdenum

Sample	Influent	Effluent
1	3.61	1.50
2	4.64	3.48
3	3.42	1.42
4	3.73	1.55
5	3.51	1.46
6	1.60	1.60
7	5.33	1.48
8	7.71	3.21
9	4.64	1.45
10	2.43	2.27
11	4.28	2.47
12	4.24	2.34

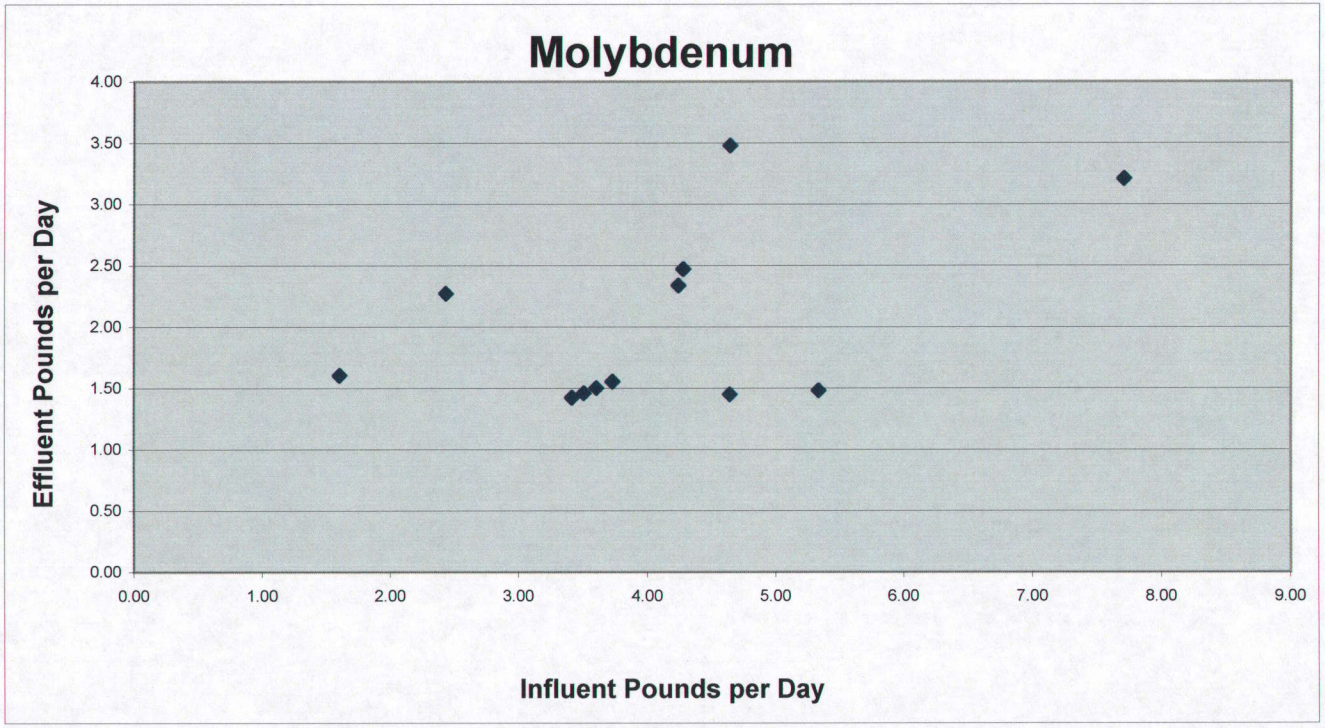


Table 11-2

Influent vs. Effluent Pounds Metals

Nickel

Sample	Influent	Effluent
1	6.01	1.50
2	3.48	1.45
3	5.12	0.48
4	9.33	1.55
5	7.60	12.86
6	7.05	1.60
7	4.74	1.48
8	5.14	1.61
9	3.48	1.45
10	2.84	2.84
11	3.05	3.05
12	3.03	3.03

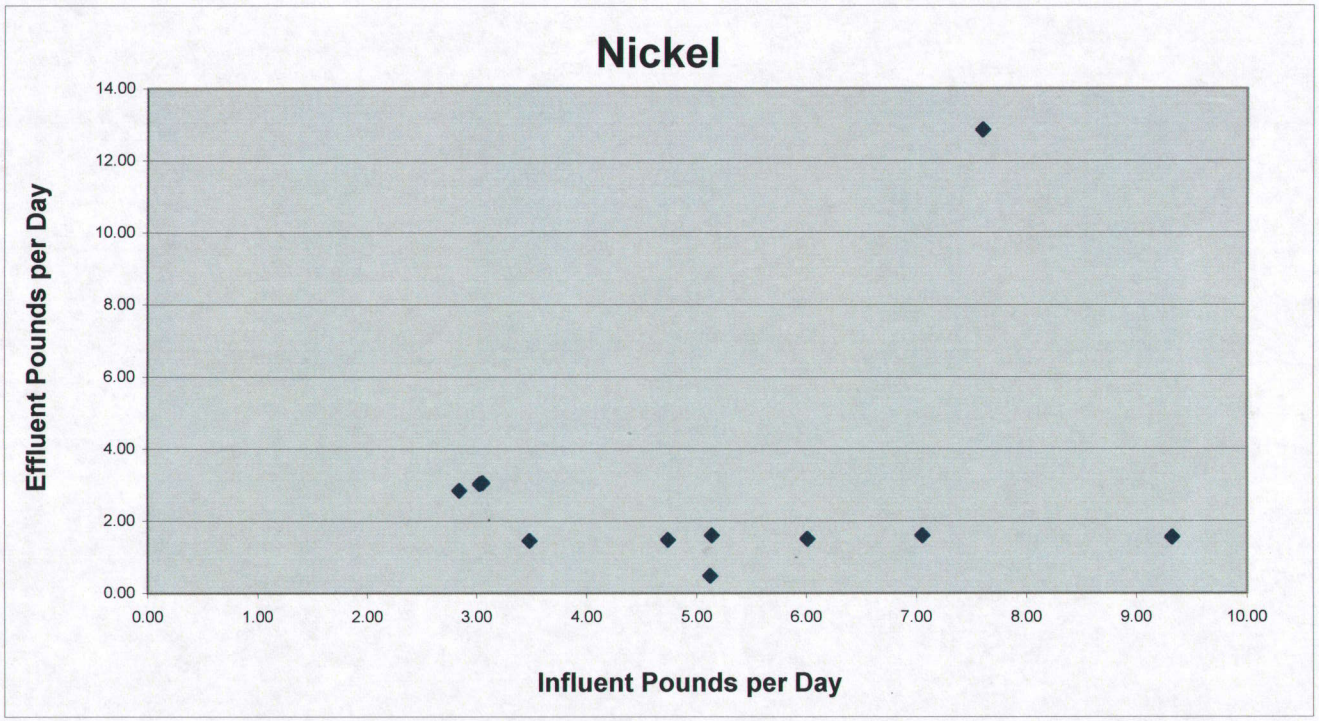


Table 11-2

Influent vs. Effluent Pounds Metals

Selenium

Sample	Influent	Effluent
1	1.50	1.50
2	1.45	1.45
3	1.42	1.42
4	1.55	3.11
5	1.46	1.46
6	1.60	1.60
7	4.15	1.48
8	1.61	1.61
9	1.45	1.45
10	7.11	7.11
11	7.63	7.63
12	7.57	7.57

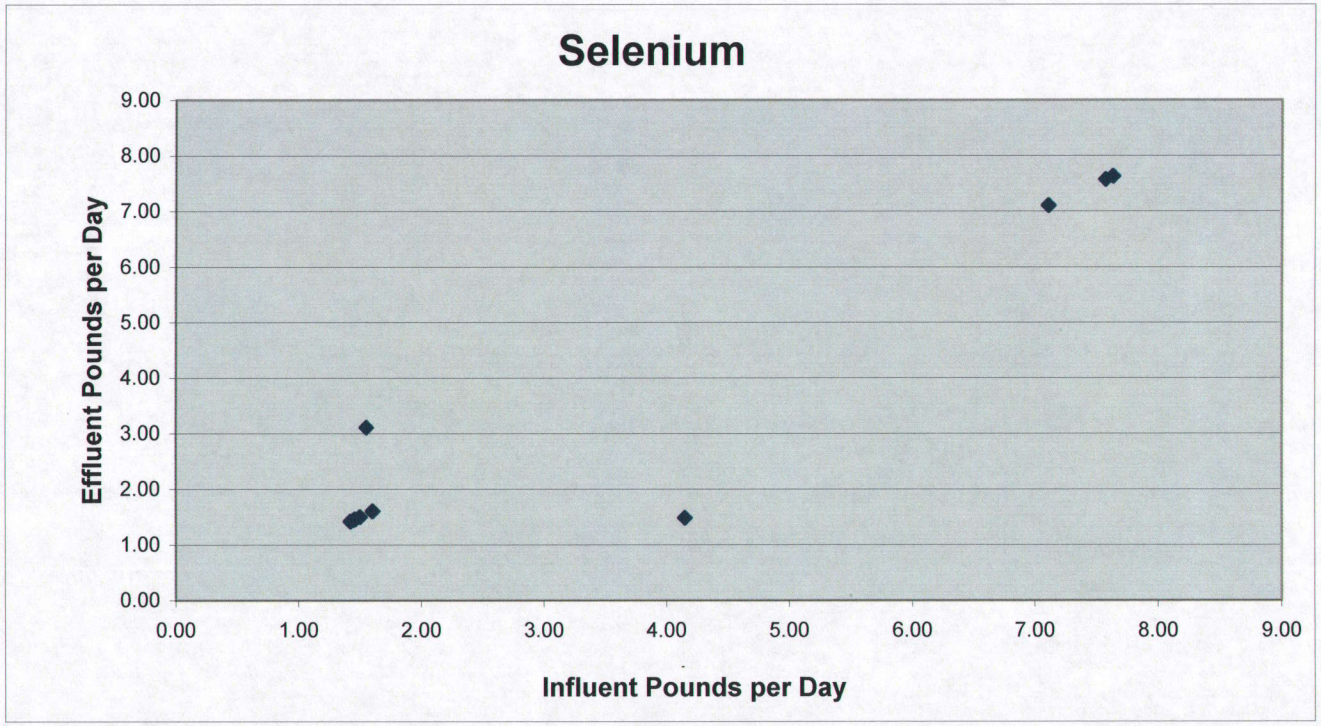


Table 11-2

Influent vs. Effluent Pounds Metals

Silver

Sample	Influent	Effluent
1	1.20	0.30
2	2.32	0.29
3	1.14	0.29
4	0.31	0.31
5	1.17	0.29
6	0.32	0.32
7	0.59	0.30
8	0.32	0.32
9	1.74	0.29
10	2.84	2.84
11	3.05	3.05
12	3.03	3.03

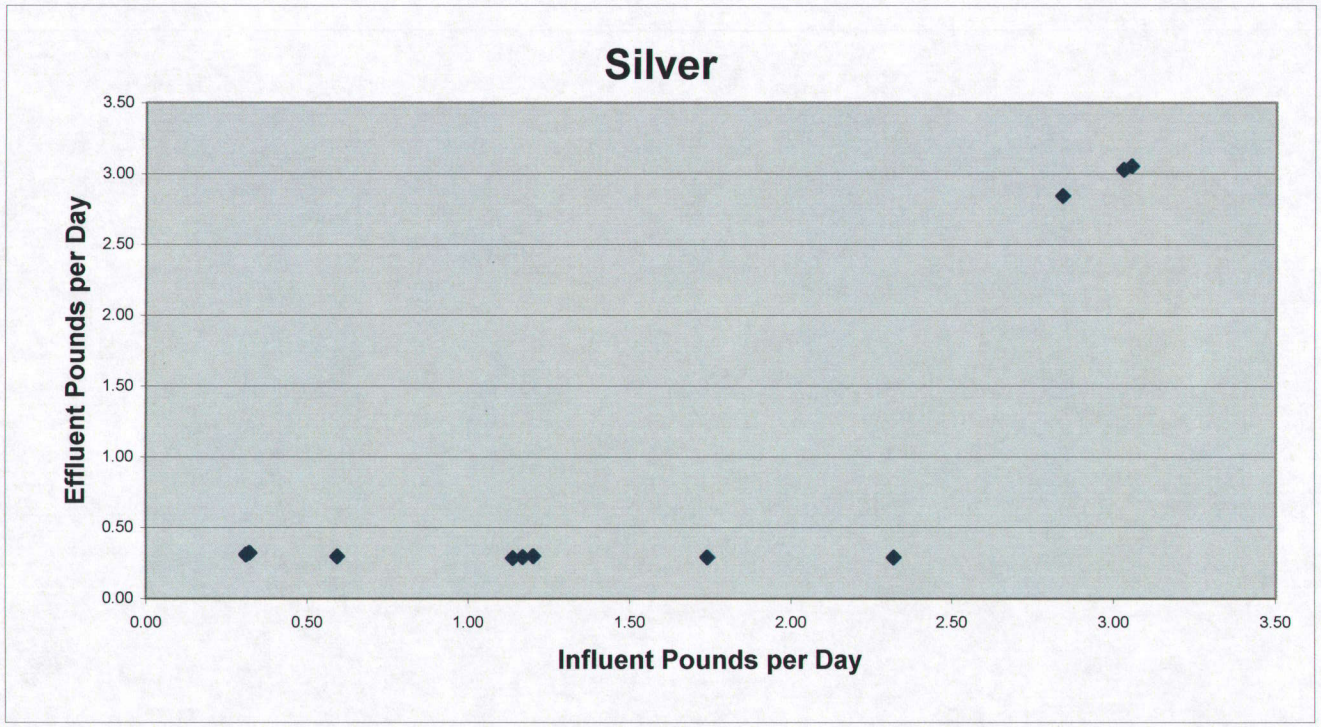


Table 11-2

Influent vs. Effluent Pounds Metals

Zinc

Sample	Influent	Effleunt
1	110.57	28.84
2	96.29	27.26
3	95.07	29.60
4	115.65	28.60
5	95.28	23.38
6	124.36	26.92
7	94.81	20.74
8	107.89	12.84
9	92.81	22.62
10	112.55	37.52
11	97.09	18.32
12	109.64	15.75

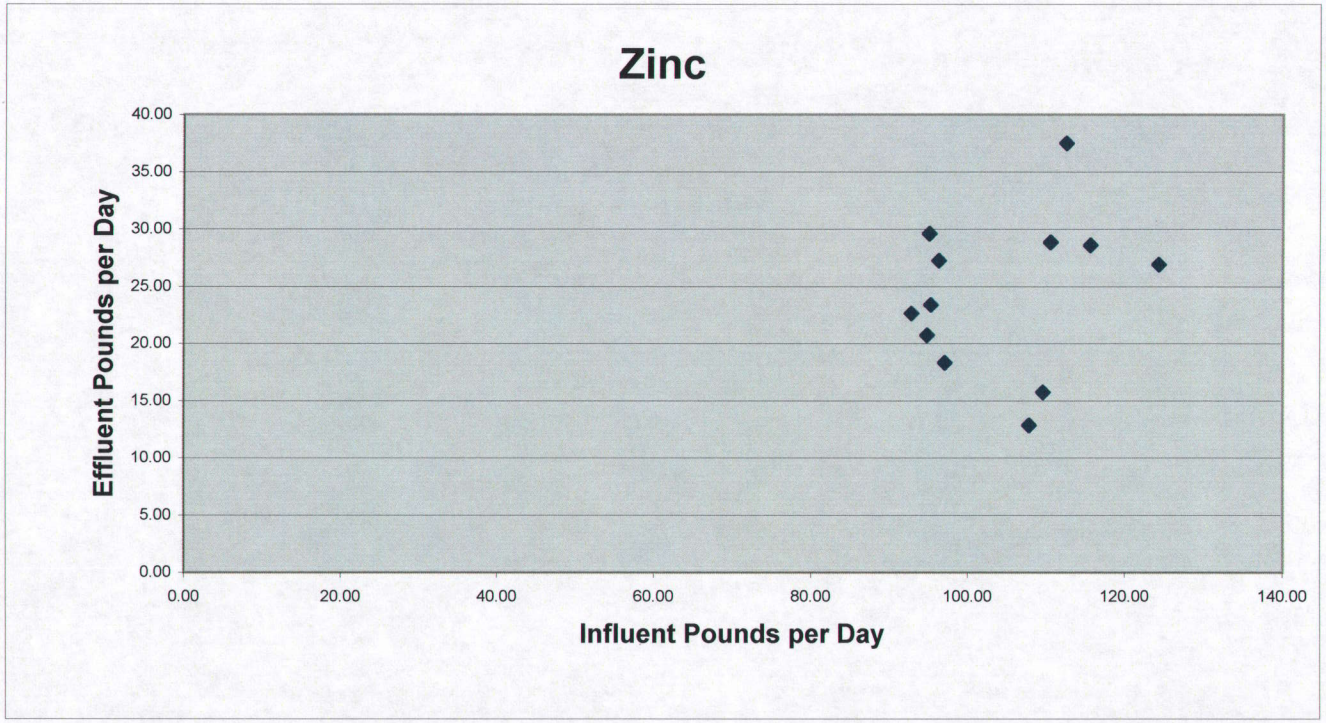


Table 11-3
Outlier Analysis

Arsenic

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	1.50	1.50	0.0
2	1.45	1.45	0.0
3	1.42	1.42	0.0
4	3.11	1.55	50.0
5	1.46	1.46	0.0
6	1.60	1.60	0.0
7	1.48	1.48	0.0
8	1.61	1.61	0.0
9	1.45	1.45	0.0
10	5.69	5.69	0.0
11	6.11	6.11	0.0
12	6.06	6.06	0.0

	Sample	% Removal
1	1	0.0
2	2	0.0
3	3	0.0
4	5	0.0
5	6	0.0
6	7	0.0
7	8	0.0
8	9	0.0
9	10	0.0
10	11	0.0
11	12	0.0
12	4	50.0

Average	2.74	2.61

Mean Removal	4.7
Standard Deviation	14.4

95% Confidence Limits

Lower Limit	**-24.16**
Upper Limit	**33.6**

Quartile Analysis

Median	0.0
LQ	0.0
UQ	0.0
IQR	0.0
1.5 X IQR	0.0

Lower Outlier	0.0
Upper Outlier	0.0

Table 11-3
Outlier Analysis

Cadmium

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	0.30	0.30	0.0
2	0.29	0.29	0.0
3	0.57	0.29	49.9
4	0.31	0.31	0.0
5	0.59	0.29	50.1
6	0.64	0.32	49.9
7	0.30	0.30	0.0
8	0.64	0.32	50.0
9	0.29	0.29	0.0
10	0.41	0.46	-9.9
11	0.37	0.15	58.2
12	0.51	0.15	70.6

	Sample	% Removal
1	14	-9.9
2	1	0.0
3	2	0.0
4	4	0.0
5	7	0.0
6	12	0.0
7	3	49.9
8	6	49.9
9	9	50.0
10	5	50.1
11	15	58.2
12	10	70.6

Average	0.43	0.29
Mean Removal		33.6
Standard Deviation		30.1

95% Confidence Limits

Lower Limit	**-26.7**
Upper Limit	**93.9**

Quartile Analysis

Median	25.0
LQ	0.0
UQ	50.0
IQR	50.0
1.5 X IQR	75.1

Lower Outlier	-75.1
Upper Outlier	125.1

Table 11-3
Outlier Analysis

Chromium

95 % Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	4.87	1.50	69.2
2	3.48	1.45	58.3
3	3.99	1.42	64.3
4	4.97	1.55	68.8
5	4.68	1.46	68.8
6	9.62	1.60	83.3
7	5.33	1.48	72.2
8	4.50	1.61	64.3
9	4.06	1.45	64.3
10	3.98	2.27	42.8
11	4.89	0.61	87.5
12	5.45	0.61	88.9

	Sample	% Removal
1	10	42.8
2	2	58.3
3	9	64.3
4	3	64.3
5	8	64.3
6	5	68.8
7	4	68.8
8	1	69.2
9	7	72.2
10	6	83.3
11	11	87.5
12	12	88.9

Average	4.98	1.42
Mean Removal		71.5
Standard Deviation		12.8

95% Confidence Limits

Lower Limit	**45.8**
Upper Limit	**97.2**

Quartile Analysis

Median	68.8
LQ	64.3
UQ	77.8
IQR	13.5
1.5 X IQR	20.2

Lower Outlier	44.1
Upper Outlier	98.0

Table 11-3
Outlier Analysis

Copper

95 % Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	28.24	1.50	94.7
2	27.84	3.48	87.5
3	34.73	2.85	91.8
4	57.20	16.79	70.7
5	39.75	4.09	89.7
6	35.26	12.18	65.5
7	32.59	9.48	70.9
8	41.74	3.85	90.8
9	33.06	1.45	95.6
10	23.88	7.96	66.7
11	30.53	1.53	95.0
12	26.05	1.51	94.2

	Sample	% Removal
1	6	65.5
2	10	66.7
3	4	70.7
4	7	70.9
5	2	87.5
6	5	89.7
7	8	90.8
8	3	91.8
9	12	94.2
10	1	94.7
11	11	95.0
12	9	95.6

Average	34.24	5.56

Mean Removal	83.8
Standard Deviation	12.1

95% Confidence Limits

Lower Limit	**59.5**
Upper Limit	**108.0**

Quartile Analysis

Median	90.2
LQ	70.8
UQ	94.4
IQR	23.7
1.5 X IQR	35.5

Lower Outlier	35.3
Upper Outlier	129.9

Table 11-3
Outlier Analysis

Lead

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	3.00	1.50	50.0
2	1.45	1.45	0.0
3	5.69	1.42	75.0
4	3.11	1.55	50.0
5	1.46	1.46	0.0
6	1.60	1.60	0.0
7	3.56	1.48	58.3
8	3.21	1.61	50.0
9	2.90	1.45	50.0
10	1.42	1.42	0.0
11	1.53	1.53	0.0
12	1.51	1.51	0.0

	Sample	% Removal
1	2	0.0
2	5	0.0
3	6	0.0
4	10	0.0
5	11	0.0
6	12	0.0
7	1	50.0
8	9	50.0
9	8	50.0
10	4	50.0
11	7	58.3
12	3	75.0

Average	2.54	1.50
Mean Removal		40.9
Standard Deviation		29.8

95% Confidence Limits

Lower Limit	**-18.7**
Upper Limit	**100.5**

Quartile Analysis

Median	25.0
LQ	0.0
UQ	50.0
IQR	50.0
1.5 X IQR	75.0

Lower Outlier	-75.0
Upper Outlier	125.0

Table 11-3
Outlier Analysis

Mercury

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	0.36	0.03	91.7
2	0.03	0.03	0.0
3	0.11	0.03	75.0
4	0.12	0.03	75.0
5	0.06	0.03	50.0
6	0.13	0.03	75.0
7	0.06	0.03	50.0
8	0.06	0.03	50.0
9	0.06	0.03	50.0
10	0.06	0.06	0.0
11	0.06	0.06	0.0
12	0.12	0.06	50.0

	Sample	% Removal
1	2	0.0
2	10	0.0
3	11	0.0
4	5	50.0
5	7	50.0
6	8	50.0
7	9	50.0
8	12	50.0
9	3	75.0
10	4	75.0
11	6	75.0
12	1	91.7

Average	0.10	0.04

Mean Removal	63.6
Standard Deviation	31.6

95% Confidence Limits

Lower Limit	**0.3**
Upper Limit	**126.9**

Quartile Analysis

Median	50.0
LQ	25.0
UQ	75.0
IQR	50.0
1.5 X IQR	75.0

Lower Outlier	-50.0
Upper Outlier	150.0

Table 11-3
Outlier Analysis

Molybdenum

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	3.61	1.50	58.3
2	4.64	3.48	25.0
3	3.42	1.42	58.3
4	3.73	1.55	58.3
5	3.51	1.46	58.3
6	1.60	1.60	0.0
7	5.33	1.48	72.2
8	7.71	3.21	58.3
9	4.64	1.45	68.8
10	2.43	2.27	6.5
11	4.28	2.47	42.2
12	4.24	2.34	44.9

	Sample	% Removal
1	6	0.0
2	10	6.5
3	2	25.0
4	11	42.2
5	12	44.9
6	8	58.3
7	1	58.3
8	4	58.3
9	5	58.3
10	3	58.3
11	9	68.8
12	7	72.2

Average	4.09	2.02
Mean Removal		50.6
Standard Deviation		23.5

95% Confidence Limits

Lower Limit	**3.6**
Upper Limit	**97.7**

Quartile Analysis

Median	58.3
LQ	33.6
UQ	58.3
IQR	24.8
1.5 X IQR	37.1

Lower Outlier	-3.6
Upper Outlier	95.5

Table 11-3
Outlier Analysis

Nickel

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	6.01	1.50	75.0
2	3.48	1.45	58.3
3	5.12	0.48	90.6
4	9.33	1.55	83.3
5	7.60	12.86	-69.2
6	7.05	1.60	77.3
7	4.74	1.48	68.8
8	5.14	1.61	68.8
9	3.48	1.45	58.3
10	2.84	2.84	0.0
11	3.05	3.05	0.0
12	3.03	3.03	0.0

	Sample	% Removal
1	5	-69.2
2	10	0.0
3	11	0.0
4	12	0.0
5	2	58.3
6	9	58.3
7	7	68.8
8	8	68.8
9	1	75.0
10	6	77.3
11	4	83.3
12	3	90.6

Average	5.07	2.74
Mean Removal		45.9
Standard Deviation		48.6

95% Confidence Limits

Lower Limit	**-51.4**
Upper Limit	**143.2**

Quartile Analysis

Median	63.5
LQ	0.0
UQ	76.1
IQR	76.1
1.5 X IQR	114.2

Lower Outlier	-114.2
Upper Outlier	190.3

Table 11-3
Outlier Analysis

Selenium

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	1.50	1.50	0.00
2	1.45	1.45	0.00
3	1.42	1.42	0.00
4	1.55	3.11	-100.06
5	1.46	1.46	0.00
6	1.60	1.60	0.00
7	4.15	1.48	64.30
8	1.61	1.61	0.00
9	1.45	1.45	0.00
10	7.11	7.11	0.00
11	7.63	7.63	0.00
12	7.57	7.57	0.00

	Sample	% Removal
1	4	-100.06
2	1	0.00
3	2	0.00
4	3	0.00
5	5	0.00
6	6	0.00
7	8	0.00
8	9	0.00
9	10	0.00
10	11	0.00
11	12	0.00
12	7	64.30

Average	3.21	3.12

Mean Removal	2.9
Standard Deviation	35.7

95% Confidence Limits

Lower Limit	**-68.6**
Upper Limit	**74.3**

Quartile Analysis

Median	0.0
LQ	0.0
UQ	0.0
IQR	0.0
1.5 X IQR	0.0

Lower Outlier	0.0
Upper Outlier	0.0

Table 11-3
Outlier Analysis

Silver

95% Confidence Limits Determination

Sample	Influent	Effluent	% Removal
1	1.20	0.30	75.0
2	2.32	0.29	87.5
3	1.14	0.29	75.0
4	0.31	0.31	0.0
5	1.17	0.29	75.0
6	0.32	0.32	0.0
7	0.59	0.30	50.1
8	0.32	0.32	0.0
9	1.74	0.29	83.3
10	2.84	2.84	0.0
11	3.05	3.05	0.0
12	3.03	3.03	0.0

	Sample	% Removal
1	4	0.0
2	6	0.0
3	8	0.0
4	10	0.0
5	11	0.0
6	12	0.0
7	7	50.1
8	3	75.0
9	5	75.0
10	1	75.0
11	9	83.3
12	2	87.5

Average	1.50	0.97
Mean Removal		35.5
Standard Deviation		39.8

95% Confidence Limits

Lower Limit	**-44.1**
Upper Limit	**115.1**

Quartile Analysis

Median	25.0
LQ	0.0
UQ	75.0
IQR	75.0
1.5 X IQR	112.5

Lower Outlier	-112.5
Upper Outlier	187.6

Table 11-3
Outlier Analysis

Zinc

95% Confidence Limits Determination

Sample	Influent	Effleunt	% Removal
1	110.57	28.84	73.9
2	96.29	27.26	71.7
3	95.07	29.60	68.9
4	115.65	28.60	75.3
5	95.28	23.38	75.5
6	124.36	26.92	78.4
7	94.81	20.74	78.1
8	107.89	12.84	88.1
9	92.81	22.62	75.6
10	112.55	37.52	66.7
11	97.09	18.32	81.1
12	109.64	15.75	85.6

	Sample	% Removal
1	10	66.7
2	3	68.9
3	2	71.7
4	1	73.9
5	4	75.3
6	5	75.5
7	9	75.6
8	7	78.1
9	6	78.4
10	11	81.1
11	12	85.6
12	8	88.1

Average	104.33	24.37

Mean Removal	76.6
Standard Deviation	6.3

95% Confidence Limits

Lower Limit	**64.1**
Upper Limit	**89.2**

Quartile Analysis

Median	75.5
LQ	72.8
UQ	79.7
IQR	6.9
1.5 X IQR	10.4

Lower Outlier	62.4
Upper Outlier	90.2

Table 11-4
Decile Determination

Arsenic

R1	0.0
R2	0.0
R3	0.0
R4	0.0
R5	0.0
R6	0.0
R7	0.0
R8	0.0
R9	0.0
R10	0.0
R11	0.0

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.2	1.0	0.0	0.0	0.0	0.2	0.0	0.0
D2	2.4	2.0	0.0	0.0	0.0	0.4	0.0	0.0
D3	3.6	3.0	0.0	0.0	0.0	0.6	0.0	0.0
D4	4.8	4.0	0.0	0.0	0.0	0.8	0.0	0.0
D5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
D6	7.2	7.0	0.0	0.0	0.0	0.2	0.0	0.0
D7	8.4	8.0	0.0	0.0	0.0	0.4	0.0	0.0
D8	9.6	9.0	0.0	0.0	0.0	0.6	0.0	0.0
D9	10.8	10.0	0.0	0.0	0.0	0.8	0.0	0.0
								Estimated Decile

Decile Position Calculation

D1	1.2
D2	2.4
D3	3.6
D4	4.8
D5	6
D6	7.2
D7	8.4
D8	9.6
D9	10.8

Cadmium

R1	-9.9
R2	0.0
R3	0.0
R4	0.0
R5	0.0
R6	0.0
R7	49.9
R8	49.9
R9	50.0
R10	50.1
R11	58.2
R12	70.6

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	-9.9	0.0	9.9	0.3	3.0	-6.9
D2	2.6	2.0	0.0	0.0	0.0	0.6	0.0	0.0
D3	3.9	3.0	0.0	0.0	0.0	0.9	0.0	0.0
D4	5.2	5.0	0.0	0.0	0.0	0.2	0.0	0.0
D5	6.5	6.0	0.0	49.9	49.9	0.5	25.0	25.0
D6	7.8	7.0	49.9	49.9	0.0	0.8	0.0	49.9
D7	9.1	9.0	50.0	50.1	0.1	0.1	0.0	50.0
D8	10.4	10.0	50.1	58.2	8.1	0.4	3.2	53.3
D9	11.7	11.0	58.2	70.6	12.4	0.7	8.7	66.9
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Table 11-4
Decile Determination

Chromium

R1	58.3
R2	64.3
R3	64.3
R4	64.3
R5	68.8
R6	68.8
R7	69.2
R8	72.2
R9	83.3
R10	87.5
R11	88.9

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.2	1.0	58.3	64.3	6.0	0.2	1.2	59.5
D2	2.4	2.0	64.3	64.3	0.0	0.4	0.0	64.3
D3	3.6	3.0	64.3	64.3	0.0	0.6	0.0	64.3
D4	4.8	4.0	64.3	68.8	4.5	0.8	3.6	67.9
D5	6.0	6.0	68.8	69.2	0.4	0.0	0.0	68.8
D6	7.2	7.0	69.2	72.2	3.0	0.2	0.6	69.8
D7	8.4	8.0	72.2	83.3	11.1	0.4	4.4	76.6
D8	9.6	9.0	83.3	87.5	4.2	0.6	2.5	85.8
D9	10.8	10.0	87.5	88.9	1.4	0.8	1.1	88.6
								Estimated Decile

Decile Position Calculation

D1	1.2
D2	2.4
D3	3.6
D4	4.8
D5	6
D6	7.2
D7	8.4
D8	9.6
D9	10.8

Copper

R1	70.6
R2	70.9
R3	84.2
R4	85.7
R5	87.5
R6	89.7
R7	90.8
R8	91.8
R9	94.6
R10	94.7
R11	95.1
R12	95.5

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	65.5	66.7	1.2	0.3	0.4	65.9
D2	2.6	2.0	66.7	70.7	4.0	0.6	2.4	69.1
D3	3.9	3.0	70.7	70.9	0.2	0.9	0.2	70.9
D4	5.2	5.0	87.5	89.7	2.2	0.2	0.4	87.9
D5	6.5	6.0	89.7	90.8	1.1	0.5	0.5	90.3
D6	7.8	7.0	90.8	91.8	1.0	0.8	0.8	91.6
D7	9.1	9.0	94.2	94.7	0.5	0.1	0.0	94.3
D8	10.4	10.0	94.7	95.0	0.3	0.4	0.1	94.8
D9	11.7	11.0	95.0	95.6	0.6	0.7	0.4	95.4
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Table 11-4
Decile Determination

Lead

R1	0.0
R2	0.0
R3	0.0
R4	0.0
R5	0.0
R6	0.0
R7	50.0
R8	50.0
R9	50.0
R10	50.0
R11	58.3
R12	75.0

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	0.0	0.0	0.0	0.3	0.0	0.0
D2	2.6	2.0	0.0	0.0	0.0	0.6	0.0	0.0
D3	3.9	3.0	0.0	0.0	0.0	0.9	0.0	0.0
D4	5.2	5.0	0.0	0.0	0.0	0.2	0.0	0.0
D5	6.5	6.0	0.0	50.0	50.0	0.5	25.0	25.0
D6	7.8	7.0	50.0	50.0	0.0	0.8	0.0	50.0
D7	9.1	9.0	50.0	50.0	0.0	0.1	0.0	50.0
D8	10.4	10.0	50.0	58.3	8.3	0.4	3.3	53.3
D9	11.7	11.0	58.3	75.0	16.7	0.7	11.7	70.0
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Mercury

R1	0.0
R2	0.0
R3	0.0
R4	50.0
R5	50.0
R6	50.0
R7	50.0
R8	50.0
R9	75.0
R10	75.0
R11	75.0
R12	91.7

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	0.0	0.0	0.0	0.3	0.0	0.0
D2	2.6	2.0	0.0	0.0	0.0	0.6	0.0	0.0
D3	3.9	3.0	0.0	50.0	50.0	0.9	45.0	45.0
D4	5.2	5.0	50.0	50.0	0.0	0.2	0.0	50.0
D5	6.5	6.0	50.0	50.0	0.0	0.5	0.0	50.0
D6	7.8	7.0	50.0	50.0	0.0	0.8	0.0	50.0
D7	9.1	9.0	75.0	75.0	0.0	0.1	0.0	75.0
D8	10.4	10.0	75.0	75.0	0.0	0.4	0.0	75.0
D9	11.7	11.0	75.0	91.7	16.7	0.7	11.7	86.7
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Table 11-4
Decile Determination

Molybdenum

R1	0.0
R2	22.3
R3	24.9
R4	25.0
R5	28.5
R6	33.3
R7	49.8
R8	58.3
R9	58.4
R10	58.4
R11	58.4
R12	58.5

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	0.0	6.5	6.5	0.3	2.0	2.0
D2	2.6	2.0	6.5	25.0	18.5	0.6	11.1	17.6
D3	3.9	3.0	25.0	42.2	17.2	0.9	15.5	40.5
D4	5.2	5.0	44.9	58.3	13.4	0.2	2.7	47.6
D5	6.5	6.0	58.3	58.3	0.0	0.5	0.0	58.3
D6	7.8	7.0	58.3	58.3	0.0	0.8	0.0	58.3
D7	9.1	9.0	58.3	58.3	0.0	0.1	0.0	58.3
D8	10.4	10.0	58.3	68.8	10.5	0.4	4.2	62.5
D9	11.7	11.0	68.8	72.2	3.4	0.7	2.4	71.2
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Nickel

R1	-54.4
R2	-16.7
R3	33.4
R4	58.3
R5	58.3
R6	68.7
R7	68.7
R8	68.8
R9	68.9
R10	72.1
R11	72.2

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.2	1.0	0.0	0.0	0.0	0.2	0.0	0.0
D2	2.4	2.0	0.0	0.0	0.0	0.4	0.0	0.0
D3	3.6	3.0	0.0	58.3	58.3	0.6	35.0	35.0
D4	4.8	4.0	58.3	58.3	0.0	0.8	0.0	58.3
D5	6.0	6.0	68.8	68.8	0.0	0.0	0.0	68.8
D6	7.2	7.0	68.8	75.0	6.2	0.2	1.2	70.0
D7	8.4	8.0	75.0	77.3	2.3	0.4	0.9	75.9
D8	9.6	9.0	77.3	83.3	6.0	0.6	3.6	80.9
D9	10.8	10.0	83.3	90.6	7.3	0.8	5.8	89.1
								Estimated Decile

Decile Position Calculation

D1	1.2
D2	2.4
D3	3.6
D4	4.8
D5	6
D6	7.2
D7	8.4
D8	9.6
D9	10.8

Table 11-4
Decile Determination

Selenium

R1	0.00
R2	0.00
R3	0.00
R4	0.00
R5	0.00
R6	0.00
R7	0.00
R8	0.00
R9	0.00
R10	0.00

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.1	1.0	0.0	0.0	0.0	0.1	0.0	0.0
D2	2.2	2.0	0.0	0.0	0.0	0.2	0.0	0.0
D3	3.3	3.0	0.0	0.0	0.0	0.3	0.0	0.0
D4	4.4	4.0	0.0	0.0	0.0	0.4	0.0	0.0
D5	5.5	5.0	0.0	0.0	0.0	0.5	0.0	0.0
D6	6.6	6.0	0.0	0.0	0.0	0.6	0.0	0.0
D7	7.7	7.0	0.0	0.0	0.0	0.7	0.0	0.0
D8	8.8	8.0	0.0	0.0	0.0	0.8	0.0	0.0
D9	9.9	9.0	0.0	0.0	0.0	0.9	0.0	0.0
								Estimated Decile

Decile Position Calculation

D1	1.1
D2	2.2
D3	3.3
D4	4.4
D5	5.5
D6	6.6
D7	7.7
D8	8.8
D9	9.9

Silver

R1	0.0
R2	0.0
R3	0.0
R4	0.0
R5	0.0
R6	0.0
R7	50.1
R8	75.0
R9	75.0
R10	75.0
R11	83.3
R12	87.5

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	0.0	0.0	0.0	0.3	0.0	0.0
D2	2.6	2.0	0.0	0.0	0.0	0.6	0.0	0.0
D3	3.9	3.0	0.0	0.0	0.0	0.9	0.0	0.0
D4	5.2	5.0	0.0	0.0	0.0	0.2	0.0	0.0
D5	6.5	6.0	0.0	50.1	50.1	0.5	25.1	25.1
D6	7.8	7.0	50.1	75.0	24.9	0.8	19.9	70.0
D7	9.1	9.0	75.0	75.0	0.0	0.1	0.0	75.0
D8	10.4	10.0	75.0	83.3	8.3	0.4	3.3	78.3
D9	11.7	11.0	83.3	87.5	4.2	0.7	2.9	86.2
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Table 11-4
Decile Determination

Zinc

R1	66.7
R2	68.9
R3	71.7
R4	73.9
R5	75.3
R6	75.5
R7	75.6
R8	78.1
R9	78.4
R10	81.1
R11	85.6
R12	88.1

	1	2	3	4	5	6	7	8
	Decile Position	Integer	Ordered Removal	Next Removal	Difference	Decimal of Partition	Col 5 X Col 6	Col 3 + Col 7
D1	1.3	1.0	66.7	68.9	2.2	0.3	0.7	67.4
D2	2.6	2.0	68.9	71.7	2.8	0.6	1.7	70.6
D3	3.9	3.0	71.7	73.9	2.2	0.9	2.0	73.7
D4	5.2	5.0	75.3	75.5	0.2	0.2	0.0	75.3
D5	6.5	6.0	75.5	75.6	0.1	0.5	0.0	75.6
D6	7.8	7.0	75.6	78.1	2.5	0.8	2.0	77.6
D7	9.1	9.0	78.4	81.1	2.7	0.1	0.3	78.7
D8	10.4	10.0	81.1	85.6	4.5	0.4	1.8	82.9
D9	11.7	11.0	85.6	88.1	2.5	0.7	1.8	87.4
								Estimated Decile

Decile Position Calculation

D1	1.3
D2	2.6
D3	3.9
D4	5.2
D5	6.5
D6	7.8
D7	9.1
D8	10.4
D9	11.7

Table 11-5

Average Daily Removal Efficiency Determination

Arsenic	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	1.50	1.50	0.000
Apr-05	2	1.45	1.45	0.000
Jul-05	3	1.42	1.42	0.000
Oct-05	4			
Dec-05	5	1.46	1.46	0.000
Jan-06	6	1.60	1.60	0.000
Apr-06	7	1.48	1.48	0.000
Jul-06	8	1.61	1.61	0.000
Nov-06	9	1.45	1.45	0.000
Jan-07	10	5.69	5.69	0.000
Jul-07	11	6.11	6.11	0.000
Oct-07	12	6.06	6.06	0.000
	Average	2.71	2.71	

MRE= 0.000

ADRE= 0.000

Cadmium	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	0.30	0.30	0.000
Apr-05	2	0.29	0.29	0.000
Jul-05	3	0.57	0.29	0.499
Oct-05	4	0.31	0.31	0.000
Dec-05	5	0.59	0.29	0.501
Jan-06	6	0.64	0.32	0.499
Apr-06	7	0.30	0.30	0.000
Jul-06	8	0.64	0.32	0.500
Nov-06	9	0.29	0.29	0.000
Jan-07	10	0.41	0.46	-0.099
Jul-07	11	0.37	0.15	0.582
Oct-07	12	0.51	0.15	0.706
	Average	0.43	0.29	

MRE= 0.336

ADRE= 0.266

Chromium	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	4.87	1.50	0.692
Apr-05	2	3.48	1.45	0.583
Jul-05	3	3.99	1.42	0.643
Oct-05	4	4.97	1.55	0.688
Dec-05	5	4.68	1.46	0.688
Jan-06	6	9.62	1.60	0.833
Apr-06	7	5.33	1.48	0.722
Jul-06	8	4.50	1.61	0.643
Nov-06	9	4.06	1.45	0.643
Jan-07	10			
Jul-07	11	4.89	0.61	0.875
Oct-07	12	5.45	0.61	0.889
	Average	5.08	1.34	

MRE= 0.736

ADRE= 0.718

Table 11-5

Average Daily Removal Efficiency Determination

Copper	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	28.24	1.50	0.947
Apr-05	2	27.84	3.48	0.875
Jul-05	3	34.73	2.85	0.918
Oct-05	4	57.20	16.79	0.707
Dec-05	5	39.75	4.09	0.897
Jan-06	6	35.26	12.18	0.655
Apr-06	7	32.59	9.48	0.709
Jul-06	8	41.74	3.85	0.908
Nov-06	9	33.06	1.45	0.956
Jan-07	10	23.88	7.96	0.667
Jul-07	11	30.53	1.53	0.950
Oct-07	12	26.05	1.51	0.942
	Average	34.24	5.56	

MRE= 0.838

ADRE= 0.844

Lead	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	3.00	1.50	0.500
Apr-05	2	1.45	1.45	0.000
Jul-05	3	5.69	1.42	0.750
Oct-05	4	3.11	1.55	0.500
Dec-05	5	1.46	1.46	0.000
Jan-06	6	1.60	1.60	0.000
Apr-06	7	3.56	1.48	0.583
Jul-06	8	3.21	1.61	0.500
Nov-06	9	2.90	1.45	0.500
Jan-07	10	1.42	1.42	0.000
Jul-07	11	1.53	1.53	0.000
Oct-07	12	1.51	1.51	0.000
	Average	2.54	1.50	

MRE= 0.409

ADRE= 0.278

Mercury	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	0.36	0.03	0.917
Apr-05	2	0.03	0.03	0.000
Jul-05	3	0.11	0.03	0.750
Oct-05	4	0.12	0.03	0.750
Dec-05	5	0.06	0.03	0.500
Jan-06	6	0.13	0.03	0.750
Apr-06	7	0.06	0.03	0.500
Jul-06	8	0.06	0.03	0.500
Nov-06	9	0.06	0.03	0.500
Jan-07	10	0.06	0.06	0.000
Jul-07	11	0.06	0.06	0.000
Oct-07	12	0.12	0.06	0.500
	Average	0.10	0.04	

MRE= 0.636

ADRE= 0.472

Table 11-5

Average Daily Removal Efficiency Determination

Molybdenum	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	3.61	1.50	0.583
Apr-05	2	4.64	3.48	0.250
Jul-05	3	3.42	1.42	0.583
Oct-05	4	3.73	1.55	0.583
Dec-05	5	3.51	1.46	0.583
Jan-06	6	1.60	1.60	0.000
Apr-06	7	5.33	1.48	0.722
Jul-06	8	7.71	3.21	0.583
Nov-06	9	4.64	1.45	0.688
Jan-07	10	2.43	2.27	0.065
Jul-07	11	4.28	2.47	0.422
Oct-07	12	4.24	2.34	0.449
	Average	4.09	2.02	

MRE= 0.506

ADRE= 0.459

Nickel	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	6.01	1.50	0.750
Apr-05	2	3.48	1.45	0.583
Jul-05	3	5.12	0.48	0.906
Oct-05	4	9.33	1.55	0.833
Dec-05	5			
Jan-06	6	7.05	1.60	0.773
Apr-06	7	4.74	1.48	0.688
Jul-06	8	5.14	1.61	0.688
Nov-06	9	3.48	1.45	0.583
Jan-07	10	2.84	2.84	0.000
Jul-07	11	3.05	3.05	0.000
Oct-07	12	3.03	3.03	0.000
	Average	4.84	1.82	

MRE= 0.624

ADRE= 0.528

Selenium	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	1.50	1.50	0.000
Apr-05	2	1.45	1.45	0.000
Jul-05	3	1.42	1.42	0.000
Oct-05	4			
Dec-05	5	1.46	1.46	0.000
Jan-06	6	1.60	1.60	0.000
Apr-06	7			
Jul-06	8	1.61	1.61	0.000
Nov-06	9	1.45	1.45	0.000
Jan-07	10	7.11	7.11	0.000
Jul-07	11	7.63	7.63	0.000
Oct-07	12	7.57	7.57	0.000
	Average	3.28	3.28	

MRE= 0.000

ADRE= 0.000

Table 11-5

Average Daily Removal Efficiency Determination

Silver	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	1.20	0.30	0.750
Apr-05	2	2.32	0.29	0.875
Jul-05	3	1.14	0.29	0.750
Oct-05	4	0.31	0.31	0.000
Dec-05	5	1.17	0.29	0.750
Jan-06	6	0.32	0.32	0.000
Apr-06	7	0.59	0.30	0.501
Jul-06	8	0.32	0.32	0.000
Nov-06	9	1.74	0.29	0.833
Jan-07	10	2.84	2.84	0.000
Jul-07	11	3.05	3.05	0.000
Oct-07	12	3.03	3.03	0.000
	Average	1.50	0.97	

MRE= 0.355

ADRE= 0.372

Zinc	Sample	Influent	Effleunt	(Inf-Eff)/inf
Jan-05	1	110.57	28.84	0.739
Apr-05	2	96.29	27.26	0.717
Jul-05	3	95.07	29.60	0.689
Oct-05	4	115.65	28.60	0.753
Dec-05	5	95.28	23.38	0.755
Jan-06	6	124.36	26.92	0.784
Apr-06	7	94.81	20.74	0.781
Jul-06	8	107.89	12.84	0.881
Nov-06	9	92.81	22.62	0.756
Jan-07	10	112.55	37.52	0.667
Jul-07	11	97.09	18.32	0.811
Oct-07	12	109.64	15.75	0.856
	Average	104.33	24.37	

MRE= 0.766

ADRE= 0.766

Table 11-5

Average Daily Removal Efficiency Determination

BOD	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	165,848	4,807	0.971
Apr-05	2	190,835	4,814	0.975
Jul-05	3	127,521	5,237	0.959
Dec-05	4	160,751	8,768	0.945
Jan-06	5	156,407	14,102	0.910
Apr-06	6	229,320	8,888	0.961
Jul-06	7	222,194	4,688	0.979
Oct-06	8	226,957	9,027	0.960
Nov-06	9	179,235	13,341	0.926
Jan-07	10	156,325	9,095	0.942
Apr-07	11			
Jul-07	12	228,385	8,549	0.963
Oct-07	13	224,122	6,057	0.973
	Average	188,992	8,115	

MRE= 0.957

ADRE= 0.955

TSS	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	182,673	2,103	0.988
Apr-05	2	134,571	3,074	0.977
Jul-05	3	104,749	3,473	0.967
Oct-05	4	156,680	5,596	0.964
Dec-05	5	138,538	3,332	0.976
Jan-06	6	174,355	5,385	0.969
Apr-06	7	158,805	4,563	0.971
Jul-06	8	154,123	3,660	0.976
Oct-06	9	181,824	3,482	0.981
Nov-06	10	164,733	6,961	0.958
Jan-07	11	158,030	5,173	0.967
Apr-07	12	140,640	6,860	0.951
Jul-07	13	184,418	3,603	0.980
Oct-07	14	162,337	2,847	0.982
	Average	156,891	4,294	

MRE= 0.973

ADRE= 0.972

Ammonia	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	12,018	9,013	0.250
Apr-05	2	13,921	10,441	0.250
Jul-05	3	11,955	1,139	0.905
Oct-05	4	16,787	8,083	0.519
Dec-05	5	14,029	9,937	0.292
Jan-06	6	12,179	8,333	0.316
Apr-06	7	14,221	14,221	0.000
Jul-06	8	14,128	11,559	0.182
Oct-06	9	16,764	9,671	0.423
Nov-06	10	14,501	4,814	0.668
Jan-07	11	12,506	2,331	0.814
Apr-07	12	12,006	3,716	0.690
Jul-07	13	11,602	5,252	0.547
Oct-07	14	13,932	3,756	0.730
	Average	13,611	7,305	

MRE= 0.463

ADRE= 0.470

Table 11-5

Average Daily Removal Efficiency Determination

TDS	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	312,466	235,552	0.246
Apr-05	2	307,425	244,780	0.204
Jul-05	3	297,169	220,884	0.257
Oct-05	4	333,256	248,699	0.254
Dec-05	5	287,599	250,188	0.130
Jan-06	6	271,789	248,072	0.087
Apr-06	7	341,313	261,910	0.233
Jul-06	8	449,526	346,777	0.229
Oct-06	9	336,568	260,485	0.226
Nov-06	10	339,908	274,942	0.191
Jan-07	11	272,858	239,888	0.121
Apr-07	12			
Jul-07	13	332,196	285,786	0.140
Oct-07	14	350,114	264,100	0.246
	Average	325,553	260,159	

MRE= 0.201

ADRE= 0.197

EC	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	289,152	253,819	0.122
Apr-05	2	307,657	288,167	0.063
Jul-05	3	288,629	217,924	0.245
Oct-05	4	358,499	292,843	0.183
Dec-05	5	304,434	263,048	0.136
Jan-06	6	289,994	269,610	0.070
Apr-06	7	319,625	305,759	0.043
Jul-06	8	362,960	339,842	0.064
Oct-06	9	338,889	299,816	0.115
Nov-06	10	342,808	280,511	0.182
Jan-07	11	278,656	236,704	0.151
Apr-07	12	330,332	261,727	0.208
Jul-07	13	360,531	302,641	0.161
Oct-07	14	332,185	264,585	0.204
	Average	321,739	276,928	

MRE= 0.139

ADRE= 0.139

Chloride	Sample	Influent	Effluent	(Inf-Eff)/inf
Jan-05	1	45,668	42,664	0.066
Apr-05	2	50,464	47,564	0.057
Jul-05	3			
Oct-05	4	55,025	51,045	0.072
Dec-05	5	51,324	42,848	0.165
Jan-06	6	45,640	43,012	0.058
Apr-06	7	49,301	46,634	0.054
Jul-06	8	72,566	65,502	0.097
Oct-06	9	52,742	50,356	0.045
Jan-07	10	40,303	36,438	0.096
Apr-07	11	51,225	52,769	-0.030
Jul-07	12	65,951	61,065	0.074
Oct-07	13	46,581	47,368	-0.017
	Average	52,232	48,939	

MRE= 0.063

ADRE= 0.061

Table 11-6
Local Limits Calculations

Pollutant	Act Slud Inhib	Nitrif. Inhib.	Digest Inhib	Biosolid Limit
Arsenic	0.1	1.5	1.6	41
Cadmium	10	5.2	20	39
Chromium	100	1.9	110	99999
Copper	1	0.48	40	1500
Cyanide	5	0.5	100	99999
Lead	5	0.5	340	300
Mercury	1	99999	99999	17
Molybdenum	99999	99999	99999	99999
Nickel	2.5	0.5	10	420
Selenium	99999	99999	99999	99999
Silver	5	99999	65	999999
Zinc	5	0.5	400	2800

Design Flow(mgd)	88
Actual Flow(mgd)	72
Sludge Flow to Digesters(mgd)	0.5334
Biosolids(lbs/day)	94323

Pollutant	2nd Decile	ADRE	8th Decile	Prim 2nd Dec	Prim ADRE
Arsenic	0.000		0.000	0.000	
Cadmium		0.266			0.191
Chromium	0.643		0.858	0.314	
Copper	0.691		0.948	0.046	
Cyanide	99999	0.044	99999	0.678	
Lead		0.278			0.285
Mercury	0.000		0.750	0.100	
Molybdenum	0.176		0.625	0.102	
Nickel		0.528			0.147
Selenium	0.000	0.000	0.000	0.000	
Silver		0.372			0.136
Zinc	0.706		0.829	0.314	

Pollutant	Activ Sludge	Nitrif. Inhib.	Digest Inhib	Biosolid Limits	Min MAHL
Arsenic	60.05	900.72	0.00	0.00	0.00
Cadmium	7422.50	3859.70	334.49	33.40	33.40
Chromium	87533.53	1663.14	761.07	53207.37	761.07
Copper	629.43	302.13	257.53	722.35	257.53
Cyanide	9320.02	932.00	0.00	0.46	0.00
Lead	4199.16	419.92	5440.95	256.96	256.96
Mercury	667.20	66719332.80	942527.19	10.35	10.35
Molybdenum	66867928.20	66867928.20	2527686.56	73043.07	73043.07
Nickel	1759.91	351.98	84.26	237.01	84.26
Selenium	60047399.52	60047399.52	0.00	0.00	0.00
Silver	3475.00	69499305.00	777.34	58303.86	777.34
Zinc	4376.68	437.67	2520.55	1541.94	437.67

Pollutant	Min MAHL	Dom Load	Com Load	Safety Factor	Exp/Growth	MAIHL	Proposed Limit	Present Limit
Arsenic								0.32
Cadmium	33.40	0.20	0.19	0.1	0.01	29.66	0.37	0.12
Chromium	761.07	1.72	1.03	0.1	0.07	682.15	8.43	6.7
Copper	257.53	15.37	12.74	0.1	0.73	202.94	2.51	2.5
Cyanide								0.77
Lead	256.96	1.27	0.81	0.1	0.05	229.13	2.83	1.2
Mercury	10.35			0.1	0.00	9.31	0.12	0.05
Molybdenum	73043.07	1.01	0.35	0.1	0.04	65737.37	812.60	
Nickel	84.26	1.78	0.87	0.1	0.07	73.11	0.90	1.3
Selenium								
Silver	777.34	0.710	0.41	0.1	0.03	698.46	8.63	1.1
Zinc	437.67	58.66	53.53	0.1	2.92	278.80	3.45	2.1

FUTURE CHANGES

PRETREATMENT PROGRAM REVISION

The Pretreatment Program revision has been completed to match changes in the Fresno Municipal Code (FMC) and the Joint Powers Agreement (JPA). The Fats, Oil, and Grease (FOG) Program is included as well as the Hauled Waste Program. The Enforcement Response Plan has been restructured and appears as one of the appendices to the Program. In 2009, once all the documents have been reviewed, the updated Pretreatment Program will be submitted for approval.

LOCAL LIMITS RE-EVALUATION

As part of an ongoing process, the local limits will be evaluated for a new three-year period. Metals of interest to be followed are copper and nickel.

FATS, OIL, AND GREASE (FOG) PROGRAM

With the development of the FOG Program and its incorporation into the Fresno Municipal Code and Pretreatment Program, the next step will be to develop performance measures to assess its efficacy. This will occur in 2009.

SERIOUSNESS OF SALT

As part of its public education program, the City of Fresno established its Seriousness of Salt campaign. The purpose is to provide adequate information to allow the general public to make informed decisions in the types of products used and its impact on the environment. In 2009, a salt footprint will be developed to further enlighten the general public on how their choices specifically affect the groundwater by determine an equivalent amount of salt generated for everyday activities.

REPORTS IN ELECTRONIC FORMAT

To facilitate public access to Pretreatment Program information, work will begin to convert quarter and annual reports to electronic format and post them on the City of Fresno's website.

DESCRIPTION OF FACILITIES

FRESNO-CLOVIS REGIONAL WASTEWATER RECLAMATION FACILITIES

BRIEF HISTORY AND EXISTING FACILITIES

The City of Fresno sewage system originated in 1891 and, until 1907, wastewater was disposed of on a 40-acre tract one mile east of the present site. In 1907, 812 acres were acquired at the present treatment site. Septic tanks were installed and treatment was achieved through a combination of septic tanks and ground infiltration. A primary treatment plant, Plant I, with a capacity of 20 million gallons per day (MGD), was constructed in 1947; the capacity was increased to 37 MGD in 1957.

Plant II was constructed one mile south of Plant I in 1960 with wastewater being delivered by a 66-inch diameter sewer trunk constructed along North Avenue. Treatment capabilities for Plant II included 24 MGD of primary and 8 MGD of secondary.

In early 1970, several studies determined that a higher degree of secondary treatment and satisfactory odor control could be accomplished by separately treating winery stillage waste. Grants from the state and federal governments were obtained and a construction project of $24 million began in 1974. Secondary treatment capability to 55 MGD and a land treatment system for 1 MGD of winery stillage were installed. In addition, 1,500 acres of infiltration beds were redeveloped and 21 extraction wells were installed to reclaim percolated effluents.

In the fall of 1996, the Fresno-Clovis Regional Wastewater Reclamation Facilities (RWRF) completed the first phase of an expansion project upgrading the treatment capacity of the plant to 68 MGD. This expansion included replacement of the old headworks and primary clarifier and the addition of new aeration basins, secondary clarifiers, sludge thickening facilities, digesters, and sludge dewatering facilities.

The RWRF provide wastewater treatment to the metropolitan areas of Fresno, Clovis, Pinedale, and Calwa, as well as unincorporated areas of Fresno County. This facility originally operated under Waste Discharge Requirements Order No. 96-054, administered by the California Regional Water Quality Control Board (CRWQCB). The permit established effluent limits for biochemical oxygen demand (BOD), total suspended solids (TSS), chlorides, and specific electrical conductance (EC). In addition, monitoring and reporting requirements for infiltration ponds, reclamation wells, certain selected wells surrounded by the treatment facility, and the winery waste disposal facility were also established. The requirement for the development and implementation of an adequate Pretreatment Program is included.

Currently, the facilities sit on a total 3,200 acres, which include 1,750 acres in ponding basins and 808 acres leased for farming. In addition, there are 2800 acres of farmland irrigated with treated effluent. A second-phase expansion of the RWRF, started in 1997, was completed in 1999. The plant's capacity, officially approved as 74 MGD in the previous Waste Discharge Requirements, was upgraded to 88 MGD dry weather flow with the new Waste Discharge Requirements, Order No. 5-01-254, effective 19 October 2001. The upgrade includes additional

primary and secondary treatment facilities, anaerobic digesters, and improvements to the plant's distribution systems.

Collection System

There are over 1,400 miles of collection lines, sewer mains, force mains, and trunk sewers – all ranging in size from 6 to 84 inches in diameter – 18,000 manholes and 15 lift stations that make up the collection system that discharges to the existing treatment facility.