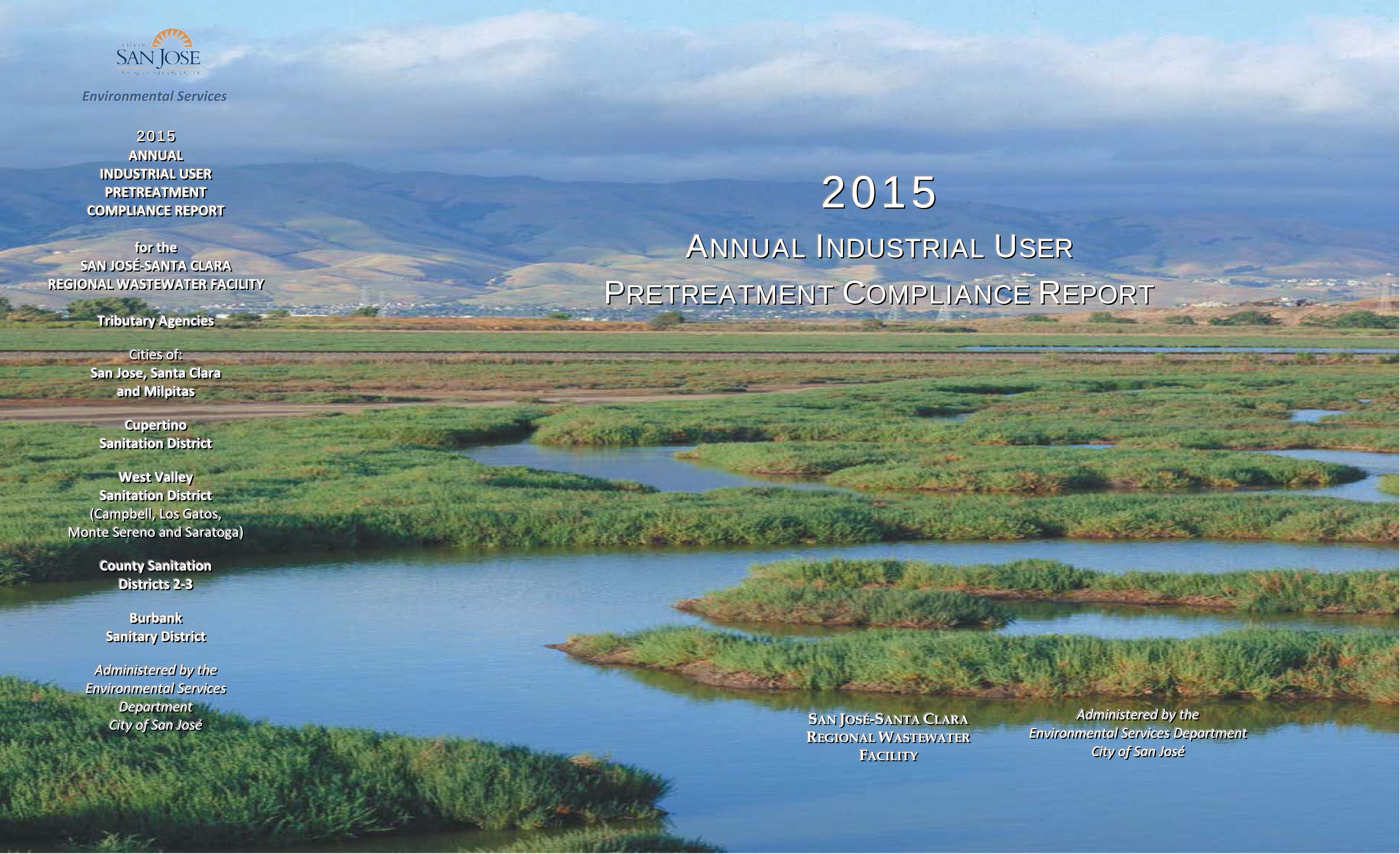


CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Environmental Services

2015
ANNUAL
INDUSTRIAL USER
PRETREATMENT
COMPLIANCE REPORT

for the
SAN JOSÉ-SANTA CLARA
REGIONAL WASTEWATER FACILITY

Tributary Agencies

Cities of:
San Jose, Santa Clara
and Milpitas

Cupertino
Sanitation District

West Valley
Sanitation District
(Campbell, Los Gatos,
Monte Sereno and Saratoga)

County Sanitation
Districts 2-3

Burbank
Sanitary District

Administered by the
Environmental Services
Department
City of San José

2015
ANNUAL INDUSTRIAL USER PRETREATMENT COMPLIANCE REPORT

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY

Administered by the
Environmental Services Department
City of San José

CITY OF
SAN JOSE
CAPITAL OF SILICON VALLEY

Environmental Services Department
San José-Santa Clara Regional Wastewater Facility
WATERSHED PROTECTION

CONTRIBUTING AGENCIES

CITY OF SAN JOSÉ
CITY OF SANTA CLARA
COUNTY SANITATION DIST. NO. 2 - 3
BURBANK SANITARY DISTRICT
CUPERTINO SANITARY DISTRICT
CITY OF CUPERTINO
CITY OF MILPITAS
WEST VALLEY SANITATION DISTRICT
CITIES OF CAMPBELL, LOS GATOS
MONTE SERENO AND SARATOGA

February 28, 2016

Mr. Bruce Wolfe
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJECT: San José-Santa Clara Regional Wastewater Facility
2015 Annual and Second Semi-Annual Industrial User
Pretreatment Compliance Report
NPDES Permit No. CA-0037842

Dear Mr. Wolfe:

Enclosed are the following reports: the 2015 Annual and Second Semi-Annual Industrial User Pretreatment Compliance Reports, which include laboratory data on influent, effluent, and sludge monitoring results and compliance tables.

The 2015 Annual and Second Semi-Annual Reports are submitted in accordance with Provision C. 4 of the Regional Board Order R2-2014-0034.

The City of San José (City) faces the challenge of preserving a portion of one of the most important estuaries in the United States, located directly adjacent to a complex urban community. As lead agency of a regional joint powers authority, the City operates the San José-Santa Clara Regional Wastewater Facility (legally and officially named the San Jose/Santa Clara Water Pollution Control Plant) and provides wastewater treatment to more than 1.4 million residents and 17,000 businesses, including many of the leading computer, solar, and electronics manufacturing companies that make up “Silicon Valley.”

The San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) has maintained compliance with all its NPDES discharge limits and is actively participating in the various pollutant specific efforts and ongoing TMDL processes. These efforts are highlighted in the 2015 Annual Self Monitoring and Pollution Prevention Reports found on the City’s website under “Regulatory Reports.”

200 E. Santa Clara Street, 7th Floor, San José, CA 95113 ***tel*** (408) 793-5300 ***tel*** (408) 945-3000 ***fax*** (408) 271-1930

The 2015 Annual Report contains a summary of facilities in significant noncompliance. Depending on the source of any regulation violated, federal regulations or local sewer use ordinances, these facilities are designated as Significant Non-compliance Federal and Significant Non-compliance Local. The definition used to determine significant noncompliance is listed in the "Definitions" section of this report and is consistent with the definition found in 40 CFR 403.8(f)(2)(viii)(A-H).

The 2015 Second Semi-Annual Report contains a listing of all Significant Industrial Users (SIUs) that had any violation of federal or local standards during the third and fourth quarters of 2015. The parameters violated, comments on corrective measures, and enforcement actions taken on these SIUs are given in this report.

At the end of the fourth quarter of 2015, the Wastewater Facility was monitoring 244 industries, of which 149 were Significant Industrial Users, and 95 were Non-Categorical Industries discharging under 25,000 gallons per day. Of the 149 Significant Industrial Users, 112 were discharging Categorical Industrial Users, 1 was a Non-Significant Categorical Industrial User, 22 were Zero Discharging Categorical Industrial Users, and the remaining 14 were classified by the quantity of their discharge. The total number varies throughout the year as companies close or additional dischargers are identified. Table 1 is a summary of the compliance performance for all Significant Industrial Users.

Table 1: Compliance Performance of Significant Industrial Users in the Wastewater Facility Tributary Area

	3rd Quarter 2015		4th Quarter 2015	
Category	**Federal**	**Local**	**Federal**	**Local**
Consistent compliance	91.4%	88.1%	90.8%	86.8%
Inconsistent compliance	7.9%	10.6%	5.3%	11.8%
Significant Non-compliance	0.7%	1.3%	3.9%	1.3%

We continue to monitor all industrial dischargers and permitted commercial sources to ensure that all violations are identified and corrected as soon as possible. Appropriate enforcement actions are taken if violations persist, and additional compliance measures are pursued with all significant violators.

We look forward to working with you on the continuing process of adapting our programs based on new information and new opportunities. If you have any questions about these reports, please contact Casey Fitzgerald, Pretreatment Program Manager, at (408) 793-5378.

Sincerely,

FOR KERRIE ROMANOW
Director

Attachments

cc: Ameila Whitson, USEPA Region 9 (via email)
Russell Norman, SWRCB (via CIWQS)
Michael Chee, RWQCB (via CIWQS)

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY

COVER SHEET

Report Date	**February 28, 2016**

2015 ANNUAL PRETREATMENT REPORT

Period Covered by This Report **From 01/01/2015 to 12/31/2015**

Period Covered by Previous Report **From 01/01/2014 to 12/31/2014**

NPDES Permit Holder or Sewer Authority Name	The Cities of San Jose and Santa Clara
Name of Wastewater Treatment Plant	San Jose/Santa Clara Water Pollution Control Plant
NPDES Permit Number	CA-0037842

Person to contact concerning information contained in this report:

Name	Casey Fitzgerald
Title	Pretreatment Program Manager
Mailing Address	200 E Santa Clara St., 7th Floor San Jose, CA 95113-1905
Telephone Number	(408) 793-5378

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.

Fukuda

Napp Fukuda
Deputy Director
Environmental Services Department

2/28/16
Date

Introduction

Background

The San José-Santa Clara Regional Wastewater Facility (legally and officially named the San Jose/Santa Clara Water Pollution Control Plant) is jointly owned by the Cities of the San José and Santa Clara and was first constructed in 1956 with a capacity of 36 million gallons per day (MGD).

The San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) serves a population of approximately 1.4 million residents and has a service area of over 300 square miles, covering most of the metropolitan areas of Santa Clara Valley. Within this service area are the Cities of San José (the City), Santa Clara, Milpitas, Cupertino, Campbell, Los Gatos, Monte Sereno, Saratoga, and adjacent unincorporated areas. The tributary agencies, listed above, discharge to the Wastewater Facility under several interagency agreements, including: Sewage Treatment Plant Agreement of 1959, Master Agreement of 1983, and four amendments to the Master Agreement dated 1985, 1995, 2006, and 2009 respectively.

The Wastewater Facility is the largest advanced wastewater treatment facility in California and provides tertiary treatment, which includes nitrification, filtration, and disinfection. Expansion of the Wastewater Facility capacity from 143 MGD to 167 MGD was completed in August 1986. On December 18, 1986, the San Francisco Regional Water Quality Control Regional Board (Regional Board) certified the Wastewater Facility capacity at 167 MGD. With a replacement value of approximately $2 billion, this state-of-the-art, computer controlled facility is one of the community's most valuable assets. The City of San Jose's Environmental Services Department is responsible for operating and maintaining the Wastewater Facility and the administration of the Pretreatment Program, as well as many of the pollution prevention programs included in the *2015 Annual Pollution Prevention Report*. The Wastewater Facility has had a pretreatment program since 1964. This program was originally submitted to the Environmental Protection Agency (EPA) on December 2, 1980, and approved on January 21, 1983.

Wastewater Discharge Requirements

The 2015 Average Dry Weather Effluent Flow (ADWEF) was 68.9 million gallons per day (MGD), well below the 120 MGD flow trigger for the seventeenth consecutive year.

The Regional Board adopted the Wastewater Facility's current National Pollutant Discharge Elimination System (NPDES) operating permit on September 10, 2014, and the Wastewater Facility has successfully maintained compliance with this permit's discharge limits.

The last Pretreatment Compliance Inspection was conducted on January 28-30, 2014 by Tetra Tech representing the EPA. The City received the 2014 Pretreatment Compliance Inspection Summary Report on August 27, 2014. The City responded to the majority of findings in a report sent to the Regional Board and EPA October 30, 2014. An update to the Response is included in the Pretreatment Program Changes section in this report.

Definitions

1 Accidental Discharge: Any discharge at a flow rate or concentration which could cause a violation of the discharge standards or any discharge of a non-routine, episodic nature, including but not limited to, an accidental spill or slug.

2 Administrative Citation: Administrative enforcement actions, which assess monetary penalties for non-compliance. Issued only in the City of San José.

3 Administrative Enforcement Remedies: Enforcement actions, which are taken at an administrative (non-judicial) level. Administrative Enforcement Remedies include: Administrative Citation, Compliance Agreement, Compliance Order, Administrative Hearing Order, and Termination of Service or Permit Revocation.

4 Administrative Hearing Order (Administrative Order): An order issued after an administrative hearing and may impose some or all of the following: an order to correct; administrative penalties; administrative costs.

5 Afterhours Inspection: A compliance inspection performed to assess the pretreatment activities that occur during off shift hours, evenings, and weekends. These inspections may include facilities that are operating multiple shifts, as well as facilities that have indicated that they are closed. These inspections are normally not scheduled.

6 Amalgam Separator: A device that employs filtration, settlement, centrifugation, or ion exchange to remove dental amalgam and its metal constituents from a dental office vacuum system before it discharges to the sanitary sewer; has been certified under the International Organization for Standardization's standard for amalgam separators as capable of removing a minimum of ninety-five percent of dental amalgam at flow rates comparable to the flow rate of the actual vacuum suction system in operation; and does not have any automatic flow bypass.

7 Amalgam Waste: Includes non- contact dental amalgam (dental amalgam scrap that has not been in contact with the patient); contact dental amalgam (including, but not limited to, extracted teeth containing amalgam); dental amalgam sludge captured by chair side traps, vacuum pump filters, screens, and other dental amalgam trapping devices; and used, leaking or unusable capsules containing dental amalgam.

8 Ammonia: A form of nitrogen which is chemically definable as NH_3.

9 Annual Inspection: A compliance inspection performed annually to update and verify the accuracy of information submitted in the permit application to review all onsite records, monitoring points, slug plans checklist and compliance issues. Annual inspections may be scheduled.

10 Audit Protocols: The procedures to be followed in performing flow and pollutant audit studies.

11 Average Concentration: The concentration of a pollutant in an industrial user's discharge that is calculated by adding the concentrations of the particular pollutant in all composite samples taken during a given time period, including but not limited to self monitoring samples, and dividing the total by the number of samples taken.

12 Batch Discharge: The discharge of wastewater resulting from an intermittent treatment process in which an identified amount of process wastewater is collected, treated to meet discharge standards, and released to the sanitary sewer system.

13 Best Management Practices: Schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the introduction of pollutants to the sanitary sewer system which have been determined by the director to be cost effective for particular industry groups, business types, or specific industrial processes.

14 Biochemical Oxygen Demand: The quantity of oxygen expressed in parts per million (ppm) by weight, utilized in the biochemical oxidation of organic matter under standard laboratory conditions for five (5) days at a temperature of twenty degrees (20) centigrade ($20^{o}C$).

15 Categorical Industrial User or CIU: A source performing any categorical process subject to Federal Pretreatment Standards, as described in 40 CFR 405 - 471 that has any connection to the sanitary sewer system.

16 Categorical Pretreatment Standard or Categorical Standard: Any regulation containing pollutant discharge limits promulgated by EPA that apply to specific categories of users and which appear in 40 CFR 405 - 471.

17 City: The City of San José, operator of the San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) and administrator of the Wastewater Facility's pretreatment program called Source Control.

18 Civil Action: A legal action which may result in the issuance of an injunction, the assessment of monetary penalties by the court, and/or an award of costs and/or attorneys' fees to the agency.

19 Closure Inspection: An inspection conducted to verify that a facility is closed and all process chemistry and equipment have been removed.

20 Code of Federal Regulations or CFR: The Code of Federal Regulations as published by the office of the Federal Register National Archives and Records Administration. Whenever a reference is made to any portion of said code, or to any other federal regulation, such reference shall apply to all amendments and additions to such portion of said Code now or hereafter enacted.

21 Compliance Agreement: An agreement which documents non-compliance and includes actions required to be accomplished by specific dates. Compliance Agreements are developed during Compliance Meetings and both parties agree to terms.

22 Compliance Agreement Record: A documented list of agreed-upon tasks developed with authorized representatives of Source Control and an IU to bring the IU into compliance.

23 Compliance Inspection: An inspection to determine compliance status and to identify practices that may lead to non-compliance. All IUs are required to have compliance inspections each year regardless of compliance status. Source Control Compliance Inspections are the monthly, quarterly, semi-annual, and annual inspections assigned each year to facilities. Compliance inspections are normally not scheduled.

24 Compliance Meeting: A meeting with the IU to discuss the causes of non-compliance, corrective actions to achieve compliance, and timeframes for the implementation of corrective actions.

25 Compliance Order: A written notice served on an industrial user (IU) in San José containing the following information: date and location of violation; Code section violated and description of violation; action required to correct the violation; time period after which administrative penalties will begin to accrue if compliance with order is not achieved; and description of hearing and appeal process.

26 Compliance Schedule: A timetable for the implementation of corrective actions by an IU in order to achieve consistent compliance.

27 Compliance Status: The semi-annual quarterly review of a Significant industrial User's (SIU's) compliance status. Compliance status is either consistent compliance, inconsistent compliance, significant non-compliance, not sampled, or unknown.

28 Composite Sample: A sample that accurately represents the average pollutant concentration during a continuous time period.

A. A flow-proportional or time-proportional sample may be obtained manually or automatically, and discretely or continuously. For manual compositing, at least six (6) individual samples from each sample point shall be combined and mixed to obtain one (1) composite sample; flow-proportion may be obtained either by varying the time interval between each discrete sample or the volume of each discrete sample.

B. If multiple batches are discharged over a twenty-four-hour period, then one sample must be collected from each batch discharged in that twenty-four-hour period and composited into a single sample. A single sample from a batch representing one (1) or more production days will be considered a single composite sample.

29 Consistent Compliance: No more than one parameter in violation and that value was less than twice the most stringent limit. Additionally, within 45 days of the IU being notified of the violation, the IU has identified and corrected the cause of the violation and verified this through testing for that parameter. All pH chart recorder violations must have duration of equal to or less than fifteen minutes in any day and be outside all pH limits less than 66% of the days in operation within the compliance period.

30 Continuous Discharge: A discharge which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

31 Criminal Action: An action filed in criminal court to secure some or all of the following: injunctive relief, fines, jail sentence, costs, and attorney's fees.

32 Critical User: A discharger whose wastewater contains priority pollutants, or who discharges any waste other than sanitary sewage which has the potential to cause interference in concentrations above those allowed in the SJMC Chapter 15.14 or who discharges in excess of one hundred thousand (100,000) gallons per day.

33 Dental Amalgam: An alloy of mercury with another metal, used by dentists to fill cavities in teeth.

34 Diluting Waters: Non-contact cooling water, boiler blowdown, domestic sewage, groundwater, storm water, surface drainage, reverse osmosis reject, or potable waters which are not part of an industrial process and which do not contain priority pollutants but are combined with industrial wastewater prior to the monitoring point for industrial wastewater discharge. Diluting waters also includes excess water used in rinse tanks when not in production.

35 Director: The Director of Environmental Services Department in the City of San José.

36 Discharger: Any person discharging wastewater into the sanitary sewer system.

37 Domestic Wastewater: Wastewater from private residences and wastewater from other premises resulting from the use of water for personal washing, sanitary purposes, or the elimination of human wastes and related matter.

38 Enforcement Inspection: An inspection conducted in response to a violation or to follow up an enforcement action.

39 Environmental Enforcement Data Management System (EEDMS): The database software used by Environmental Enforcement to track and document all inspection, enforcement, and sampling activities among other information about the facility and Enforcement Program.

40 Environmental Enforcement Procedures: The procedures contained in the Environmental Enforcement Procedures Manual documenting the specific steps taken by the Wastewater Facility to undertake enforcement actions per the *Source Control Enforcement Response Plan*.

41 Existing Source: Any source of discharge that is not a new source.

42 Fines: Monetary penalties imposed by the court or by the City for violation of discharge regulations.

43 Flow Audit Study: An investigation of water use and source reduction measures performed by or for an Industrial User, pursuant to an audit protocol adopted by the Director. The investigation includes the identification and evaluation of cost effective flow reduction measures applicable to the Industrial User.

44 Food Service Establishment: A user that prepares and/or sells food for consumption either on or off the premises or washes utensils or dishes on premises that may contribute grease to the sewer system, including, but not limited to, restaurants, sandwich shops, delicatessens, bakeries, cafeterias, markets, bed and breakfast inns, motels, hotels, meeting halls, caterers, retirement and nursing homes, or pizzerias. The term, as used in this chapter, does not refer to food stores or establishments that do not prepare food on premises and do not process food in a manner which may contribute grease to the sewer system. A food service establishment shall be deemed to be contributing grease to the sanitary sewer system where a sanitary sewer overflow has occurred due to grease, or there has been a loss of twenty-five percent or more of sewer line capacity due to grease, downstream of the food service establishment.

45 Garbage: Any wastes from the preparation, cooking, and dispensing of foods and from the handling, storage and sale of produce.

46 Grab Sample: A single discrete sample collected at a particular time and place that represents the composition of the wastestream only at that time and place.

47 Grease: Liquid or other waste containing floatable and/or dispersed grease, vegetable oil, petroleum oil, non-biodegradable cutting oil, or fat, oil or grease products of animal, vegetable, or mineral origin which is detectable and measurable using analytical test procedures established in the United States Code of Federal Regulations, 40 CFR 136.

48 Grease Control Device: Grease interceptor, grease trap, mechanical grease removal device or other device approved for use by the Director.

49 Grease Interceptor: A large tank installed underground and designed to collect and control solid-food wastes and floating grease from wastewater prior to discharge into the sanitary sewer collection system. Grease interceptors are normally installed outside the building and use gravity to separate grease from the wastewater as it moves from one compartment of the interceptor to the next.

50 Grease Trap: A device placed under or in close proximity to sinks or other fixtures likely to discharge grease in an attempt to separate, trap and hold oil and grease substances.

51 Inconsistent Compliance: More than one parameter in violation, or any one parameter in violation that exceeded twice the most stringent limit, and within 45 days of the date the IU is notified of the violation, the IU has been re-sampled, found to be in compliance, and does not fall within the significant non-compliance classification. All pH chart recorder violations must have duration greater than fifteen minutes in any day and be outside all pH limits less than 66% of the days in operation within the compliance period.

52 Industrial User: Any nonresidential user that discharges industrial wastes to the sanitary sewer system.

53 Industrial Wastes: The wastes from producing, manufacturing, and processing operations of every kind and nature.

54 Interference: A discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

A. Inhibits or disrupts the processes or operation of the sanitary sewer system, including the Wastewater Facility, or causes or significantly contributes to a violation of any requirement of the National Pollutant Discharge Elimination System (NPDES) permit, which is a permit issued to the City pursuant to Section 402 of the Clean Water Act.

B. Prevents biosolids use or disposal by the Wastewater Facility in accordance with published regulations providing guidelines under Section 405 of the Clean Water Act or in regulations developed pursuant to the Solid Waste Disposal Act (SWDA), the Clean Water Act, the Toxic Substances Control Act, or more stringent state regulations (including those contained in any state biosolids management plan prepared pursuant to Title IV of SWDA) applicable to the method of disposal or use employed by the Wastewater Facility.

55 Low Flow Discharger: An Industrial User whose average process flow, as shown on the Discharger's Application to Discharge and as measured as a rolling six-month average, is less than one thousand (1,000) gallons per day.

56 Mass Audit Study (MAS): An investigation of pollution and source reduction measures performed by or for an Industrial User, pursuant to audit protocols adopted by the Director, to analyze the volume and concentration of nickel, copper, and or any other Priority Pollutant identified in regulations adopted by the Director in an Industrial User's process streams and discharge, and to identify the Maximum Feasible Reduction measures available to the Industrial User.

57 Mass Equivalent Concentration Limit (MECL): A mass-based discharge limit for copper and or nickel that is calculated using the projected annual mass of copper and or nickel and the projected annual process flow from the IU's discharge after the installation of applicable MFRs as indicated in the IU's MAS.

58 Maximum Allowable Concentration: The highest permissible concentration or other measure of pollutant magnitude taken at a specific point in time or period of time.

59 Maximum Feasible Reduction Measures (MFRs): All individual measures, and all functionally interdependent measures, of reducing the mass of specified pollutant(s) in an Industrial User's discharge, which the Director finds would be Cost Effective if installed by the Industrial User.

60 Mechanical Grease Removal Device: A power operated device or combination of devices using electrical equipment to heat, filter, siphon, skim, or otherwise separate and retain floating grease and solid food waste prior to the wastewater exiting the trap and entering the sanitary sewer collection system.

61 New Source:

A. Any building, structure, facility or installation from which there is (or may be) a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under section 307(c) of the Clean Water Act that will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:

   i. The building, structure, facility, or installation is constructed at a site at which no other source is located; or

   ii. The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or

   iii. The production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source, should be considered.

B. Construction on a site at which an existing source is located results in a modification rather than a new source if the construction does not create a new building, structure, facility, or installation meeting the criteria of Section A.(ii) or (iii) above but otherwise alters, replaces, or adds to existing process or production equipment.

C. Construction of a new source as defined under this paragraph has commenced if the owner or operator has:

   i. Begun, or caused to begin, as part of a continuous onsite construction program

      - Any placement, assembly or installation of facilities or equipment; or
      - Significant site preparation work, including clearing, excavating, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or

   ii. Entered into a building contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.

62 <u>Noncategorical</u>: All major Industrial Users not subject to EPA categorical regulations or standards; subject to wastewater ordinance prohibitions and limitations.

63 <u>Notice of Violation</u>: An official notice that a violation of discharge regulations has occurred. A written response to the Notice of Violation identifying causes of the violation and corrective actions taken to prevent recurring violations is required within two weeks.

64 <u>Not Scheduled (Compliance Status)</u>: No SMR or City sample was required to be collected during the particular quarter, or the permit coverage has been terminated, and thus no samples were scheduled.

65 <u>Operator</u>: Any person who owns, leases, operates, controls, or supervises a source as defined in this section.

66 <u>Owner</u>: Any person who owns private premises that contain a source as defined in this section.

67 <u>Pass-Through</u>: A discharge which exits the Wastewater Facility into waters of the United States in quantities or concentrations which alone, or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the Wastewater Facility's National Pollutant Discharge Elimination System permit, including an increase in the magnitude or duration of a violation.

68 <u>Permit Inspection</u>: Permit inspections are performed to verify accuracy of information submitted in a permit application and to assess whether there have been any significant changes to warrant a permit amendment or a new permit. Permit inspections are scheduled and include a review of all the information contained in the application.

69 <u>pH</u>: The logarithm of the reciprocal of the concentration of hydrogen ions in moles per liter of solution.

70 <u>Pretreatment Requirements</u>: Any substantive or procedural requirement related to pretreatment imposed on an Industrial User other than a pretreatment standard.

71 <u>Pretreatment Standard</u>: Prohibited discharge standards, categorical pretreatment standards, and local limits.

72 Priority Pollutants: All pollutants as defined by the "General Pretreatment Regulations" of the Environmental Protection Agency, found at 40 CFR 401 and 403.

73 Process Flow: The daily, twenty-four (24) hour, flow of wastewater from any kind or nature of production, manufacturing or processing operation, including industrial and commercial operations where water is used for the removal of any type of waste other than sanitary sewage. Process flow does not include diluting waters.

74 Reasonable Control Measures: Control technologies, best management practices, source control practices, and waste minimization procedures which prevent or reduce the introduction of pollutants to the sanitary sewer system, and are determined by the Director to be cost effective for particular industry groups, business types, or specific industrial processes.

75 Sampling Inspection: An inspection conducted when the primary objective is to sample the facility.

76 Sanitary Sewage: Water-carried wastes from residences, business buildings, institutions, and industrial establishments, excluding ground, surface and storm waters, sub-surface drainage and industrial waste.

77 Sanitary Sewer System: All sewers, treatment plants, and other facilities owned or operated by the city for carrying, collecting, pumping, treating, and disposing of sanitary sewage and industrial wastes.

78 Sewer: A pipe or conduit for carrying sewage.

79 Significant Change: Any change in an Industrial User's operation that results in any of the following:

A. A flow that exceeds the expected peak flow as shown in the sewage treatment plant connection allocation for the property on which the industrial user is located.

B. An increase or decrease in annual average process flow of twenty-five percent over the standard discharger's average process flow for the discharger's most immediate preceding twelve months.

C. An increase or decrease in annual average process flow that results in a change from low flow discharger to standard discharger or from standard discharger to low flow discharger.

D. An increase or decrease in annual average process flow that results in a change from non-significant industrial user to significant industrial user or from significant industrial user to non-significant industrial user.

E. An increase or decrease in annual production rate of twenty-five percent for any industrial user subject to production-based limits over the industrial user's production rate for the most immediate preceding twelve months.

F. Adding or deleting process discharge or sample points.

80 Significant Industrial User: All Industrial Users in one or more of the following categories:

A. An Industrial Users that has processes subject to Categorical Pretreatment Standards except as provided under Subsection C.; or

B. Any Industrial User that:

i. Discharges an average of 25,000 gallons per day or more of process wastewater to the sanitary system (excluding sanitary, noncontact cooling and boiler blowdown wastewater); or

ii. Contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the Wastewater Facility; or

iii. Is designated as such by the Director on the basis that the Industrial User has a reasonable potential for adversely affecting the Wastewater Facility's operation by violating any pretreatment standard or requirement.

C. The Director may determine that a Categorical Industrial User is not a Significant Industrial User (i.e. Non-significant Categorical Industrial User) if the Categorical Industrial User meets the following conditions:

i. Does not discharge more than 100 gallons per day of total categorical process wastewater;

ii. Has complied with all applicable Categorical Pretreatment Standards;

iii. Never discharges any untreated concentrated wastewater; and

iv. Submits annually a certification statement pursuant to 40 CFR 403.12(q).

81 Significant Noncompliance: Significant noncompliance (as defined in 40 CFR 403.8(f)(2)(viii), is a compliance status in which one or more of the following is found:

A. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all the measurements taken during a six (6) month period exceed (by any magnitude) a numeric pretreatment standard or requirement, including instantaneous limits, as defined in 40 CFR 403.3(l).

B. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all the measurements for each pollutant parameter taken during a six (6) month period equal or exceed the product of the numeric pretreatment standard or requirement including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC = l.4 for BOD; TSS; fats, oil, and grease; and 1.2 for all other pollutants except pH).

C. Any other violation of a pretreatment standard or requirement as defined by 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative standard) that the Director determines has caused, alone or in combination with other Industrial Users, interference or pass through (including endangering the health of Wastewater Facility or Sewer personnel or the general public.)

D. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the Wastewater Facility's exercise of its emergency authority to halt or prevent such a discharge.

E. Failure to meet, within ninety (90) days after the schedule date, a compliance schedule milestone contained in a discharge permit or enforcement order for starting construction, completing construction, or attaining final compliance.

F. Failure to provide, within forty five (45) days after the due date, required reports such as baseline monitoring reports, ninety (90) day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules.

G. Failure to accurately report noncompliance.

H. Any other violation or group of violations, which the Director determines, will adversely affect the operation or implementation of the local pretreatment program.

I. SNC status is designated as SNL, SNF, or SNF/SNL for compliance periods depending if violations in the compliance period were local, federal, or both. For pH chart recorder violations SNC is designated when violations meet at least one of the following criteria:

   i. The IU caused corrosion to the sanitary sewer system,

   ii. The violations have a common cause and the IU has failed to respond to the violations, or

   iii. The number of days the pH chart recorder indicates the discharge is outside of permit limits 66% or more of the days in operation within the compliance period.

82 Slug Load or Slug Discharge: Any discharge of a non-routine, episodic nature, including but not limited to, an accidental spill or noncustomary batch discharge, which has reasonable potential to cause interference or pass-through or in any other way cause a violation of the provisions of this chapter or applicable permit conditions.

83 Source: Any building, structure, facility or installation from which there is or may be potential as determined by the Director to discharge pollutants above the local limits, state or federal limits or wastewater of such volume or strength that may cause interference, pass through or operational problems in the sanitary sewer system or at the Wastewater Facility.

84 Special Investigation Inspection: An inspection conducted to investigate a special matter, emergency spill, or a complaint.

85 Standard Discharger: Any Industrial Discharger who is not a low flow discharger.

86 Standard Methods: The procedures set forth in the Code of Federal Regulations, unless another method for the analysis of industrial wastewater has been approved, in writing, in advance of use of the procedure by the Director. All analyses shall be performed by a laboratory certified by the state for the specific pollutants and matrix to be analyzed, unless otherwise approved, in writing, by the Director prior to performance of a sample analysis.

87 Stormwater: The flow across any surface or in storm sewers resulting from rainfall.

88 Suspended Solids: Solids that either float on the surface of, or are in suspension in water, sewage, or other liquids and, which are removable by laboratory filtering.

89 Total Toxic Organics: Total Toxic Organics (TTOs) are the sum of the concentration for each of the regulated toxic organic compounds listed at 40 CFR 401.15 and, which are found in the discharge at a concentration greater than ten (10) micrograms per liter. Some categorical standards (40 CFR 405-471) list the specific toxic organic compounds that are to be included in the summation.

90 Tributary Agencies: The municipalities and sewer agencies in the service of area of the Wastewater Facility, including: Cities of San José, Santa Clara, Milpitas, Cupertino, Campbell, Los Gatos, Monte Sereno, and Saratoga; adjacent unincorporated areas; and Sanitary Sewer Districts for Burbank, County 2 and 3, Cupertino, and West Valley.

91 Tributary Agency Sewer Use Ordinances: The sewer use ordinances and municipal codes in the various tributary agencies discharging to the Wastewater Facility.

92 Trucked or Hauled Waste: Any waste discharged into the sanitary sewer system after being placed in a motorized vehicle for removal from the location where the waste was generated or produced.

93 Unknown (Compliance Status): When an Industrial User was scheduled to be sampled, but was not, the designation unknown is used.

94 Upset: An exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Industrial User. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

95 Verbal Warning: A warning communicated to the Industrial User orally. The violation is usually slight or within the range of analytical testing error.

96 Warning Notice: A written notice that a minor violation has occurred. It directs the Industrial User to take action to correct the violation, and a written response is required within two weeks.

97 Wastewater Facility: The San José-Santa Clara Regional Wastewater Facility (legally and officially named the San Jose/Santa Clara Water Pollution Control Plant).

98 Zero Discharger: An industrial facility that does not discharge any wastewater except domestic wastewater to the sanitary sewer system.

Discussion of Upset, Interference, and Pass-Through Incidents

In 2015, no incidences of upset, interference, or pass through occurred from pollutants entering the San José-Santa Clara Regional Wastewater Facility.

2015 Influent, Effluent, and Biosolids Monitoring Results

Summary of 2015 Monitoring Results

A description of sampling procedures can be found in the Influent, Effluent, and Biosolids Monitoring Results section of the 2015 Second Semi-Annual Report. Appendix I presents the 2015 pretreatment program monitoring results in tabular form for the past five years (2011-2015). Appendix II contains graphical representations of the influent and effluent data.

Discussion of 2015 Influent Monitoring Results

The following analyses for priority pollutants were performed on the Wastewater Facility's influent during 2015:

Base Neutral Acids (BNA)

Bis(2-ethylhexyl)phthalate is a common plasticizer for polymeric materials. Bis(2-ethylhexyl)phthalate is used primarily as a plasticizer during polyvinyl chloride and polymer production and is released into wastewater after water contact with plastic materials. **Phenol** is used as a precursor in a number of industrial synthesis applications to produce resins, plastics, surfactants, detergents, emulsifiers, insecticides and medical antiseptics. Other uses of phenol include anesthetic applications in ointments, ear and nose drops and cold sore lotions; and as a slimicide for bacteria and fungi growth. **Diethyl phthalate** is ubiquitous in the environment based on its many applications. It is used as a plasticizer in many products and as a solvent for cosmetics, personal care products and insecticides.

BNA compounds detected in this Wastewater Facility's influent for 2015:

Bis(2-ethylhexyl)phthalate (µg/L)	Sample Date
DNQ7.0	March 3, 2015
DNQ6.1	August 4, 2015

Phenol (µg/L)	Sample Date
17.6	March 3, 2015
39	August 4, 2015

Diethyl phthalate (µg/L)	Sample Date
ND	March 3, 2015
4.8	August 4, 2015

Volatile Organic Compounds (VOCs)

Chloroform may enter the environment through its use as an industrial solvent, extracting reagent, cleaning agent and as a by-product from the chlorination of water, wastewater, and cooling water. Artificial or indirect sources of chloroform are primarily as a chlorinated by-product in water treatment, paper mills, and combustion of leaded gasoline. **Toluene** is used as a general purpose solvent, fuel additive, and chemical manufacturing constituent. Considerable amounts are discharged during the emissions, volatilization, storage, transport, and disposal of fuels and oils. **Methylene Chloride** or **Dichloromethane** has numerous uses including aerosols, paint remover/stripper, degreaser, decaffeination processes of coffee and tea, blowing agent for polyurethane foams and as a plastic welding adhesive.

Volatile organic compounds detected in this Wastewater Facility's influent for 2015:

Chloroform (µg/L)	**Sample Date**
2.7	March 3, 2015
2.1	August 4, 2015

Toluene (µg/L)	**Sample Date**
4.2	March 3, 2015
5.5	August 4, 2015

Methylene Chloride (µg/L)	**Sample Date**
DNQ1.2	March 3, 2015
ND	August 4, 2015

Polychlorinated Biphenyls and Pesticides

All priority pollutant PCB aroclors and pesticide organics were reported as non-detect for this Wastewater Facility's influent.

Cyanide

Cyanide monitoring of the Wastewater Facility's influent in 2015 resulted in a single data point greater than the RL (reporting limit) of 3.0µg/L. On June 2, 2015, the Wastewater Facility's maximum influent cyanide level was reported as 4.2µg/L all other data for 2015 was reported as DNQ. This data was evaluated in the context of the City's 2012 Bypass Prevention, Surveillance Monitoring, and Pollutant Anomaly Response Guideline. More information on the investigation can be found in the Other Subjects section of the 2015 Annual Report.

Priority Pollutant Metals

As shown in the attached Five Year Metals Report for 2015, priority pollutant metals' concentrations were characteristic of the influent levels typically received by this Wastewater Facility. Arsenic and silver were detected in the Wastewater Facility's influent at anomalous levels on June 2, 2015. Arsenic was reported at 3.01µg/L and silver at 2.39µg/L. Influent samples were analyzed for both arsenic and silver the day before and the day after, with results reported at normal levels. This data was evaluated in the context of the City's 2012 Bypass Prevention, Surveillance Monitoring, and Pollutant Anomaly Response Guideline. More information on the investigation can be found in the Other Subjects section of the 2015 Annual Report.

Discussion of 2015 Effluent Monitoring Results

The following analyses for priority pollutants were performed on the Wastewater Facility's effluent during 2015:

Base Neutral Acids (BNA)

Bis(2-ethylhexyl)phthalate is a common plasticizer for polymeric materials. Bis(2-ethylhexyl)phthalate is used primarily as a plasticizer during polyvinyl chloride and polymer production and is likely released into wastewater after water contact with plastic materials. The detected level of Bis(2-ethylhexyl)phthalate was below applicable water quality objectives.

BNA compounds detected in this Wastewater Facility's effluent for 2015:

Bis(2-ethylhexyl)phthalate (µg/L)	**Sample Date**
DNQ0.79	March 3, 2015
ND	August 4, 2015

Volatile Organic Compounds (VOCs)

Chloroform is a known trihalomethane (THM) that enters into the wastewater environment primarily through its formation during the chlorination disinfection treatment processes of drinking water and wastewater. **Chloroform** can also enter the environment through its use as an industrial solvent, extractant, and cleaning agent as well as from indirect production in the chlorination of cooling water. Artificial sources of chloroform include automobile exhaust, extractants, solvents, dry cleaning agents, fumigants, and synthetic rubber. If released into water, chloroform will be primarily lost by evaporation into the atmosphere. The detected levels of chloroform were below applicable water quality objectives and are typically found in this Wastewater Facility's effluent.

Volatile organic compounds detected in this Wastewater Facility's effluent:

Chloroform (µg/L)	**Sample Date**
2.5	March 3, 2015
2.4	August 4, 2015

Polychlorinated Biphenyls and Pesticides

All priority pollutant PCB aroclors and pesticide organics were reported as non-detect for this Wastewater Facility's effluent.

Cyanide

Cyanide monitoring of the Wastewater Facility's effluent in 2015 resulted in all reported data as DNQ with an RL of 3.0µg/L.

Priority Pollutant Metals

As shown in the attached Five Year Metals' Report priority pollutant metals were measured at concentrations characteristic of effluent typically discharged by this Wastewater Facility. All priority pollutant metals detected in the effluent were below NPDES permit limitations and applicable water quality objectives.

Discussion of 2015 Biosolids Monitoring Results

The collection and subsequent analyses of this Wastewater Facility's biosolid sampling was in August 2015 with the detection of the following priority pollutants:

Base Neutral Acids (BNA)

Semi volatile organics measured during this period for the Wastewater Facility's biosolids sample were reported as non-detect with the exception of **Bis(2-ethylhexyl) phthalate which was reported as DNQ3.4mg/Kg**.

Volatile Organic Compounds (VOCs)

All volatile organic compounds measured during this period for the Wastewater Facility's biosolids sampling was reported as **non-detect**.

Polychlorinated Biphenyls-Aroclors

Analytical results of PCB Aroclors were all reported as **non-detect** for the Wastewater Facility's biosolids sample.

Organochlorine Pesticides

Analytical results of organochlorine pesticides were all reported as **non-detect** for the Wastewater Facility's biosolids sample .

Priority Pollutant Metals

Priority pollutant metals for this period were measured at concentrations characteristic of typical biosolid production at this Wastewater Facility. No priority pollutant metals were detected in amounts that would adversely affect Class A biosolids disposal options.

Discussion of Five Year Influent and Effluent Trends (2011-2015)

Influent

- Arsenic concentrations remained consistent with a mean of 1.77µg/L, a median of 1.74µg/L, and a standard deviation of 0.34µg/L.
- Cadmium concentrations were typically reported as DNQ values with an RL of 0.40µg/L. The only measurable exception was 1.21µg/L reported for November 18, 2011. Cadmium's mean concentration was 0.26µg/L, a median of 0.26µg/L, and a standard deviation of 0.08µg/L for the current five year monitoring period.
- Chromium concentrations remained consistent with a mean of 5.65µg/L, a median of 4.94µg/L, and a standard deviation of 9.90µg/L. The large relative standard deviation is attributed to one high spike concentration of 203µg/L reported March 26, 2012. Exclusion of the March 26, 2012 data point results in a mean of 5.16µg/L, median of 4.93µg/L, and a standard deviation of 1.3µg/L.
- Copper concentrations remained consistent with a mean of 140µg/L, a median of 128µg/L, and a standard deviation of 65.0µg/L. Influent concentrations typically range between 100µg/L and 200µg/L. Several copper concentrations outside of this range were reported in October 2013(1060µg/L), June 2012(451µg/L), March 2012(528µg/L), and November 2011(671µg/L). These anomalies were at levels 3-8 times the five year average concentration. The anomalies did not affect effluent concentrations for copper.
- Cyanide concentrations were generally reported as DNQ values with an RL of 3.0µg/L and MDL of 0.30µg/L. The mean concentration of influent cyanide was 1.0µg/L with median value of 0.9µg/L and a single data point greater than the RL value occurring on June 2, 2015 with an associated concentration of 4.2µg/L.
- Lead concentrations remained consistent with a mean of 4.99µg/L, an associate median of 3.76µg/L, and a standard deviation of 3.79µg/L. An anomalous data result of 266,000µg/L for lead on March 16, 2012 was excluded from the above calculation. Details of this result were discussed in the Priority Pollutant Metals section under Influent Monitoring Results in the 2012 annual report.
- Mercury concentrations decreased to a mean of 0.115µg/L, a median of 0.109µg/L, and a standard deviation of 0.034µg/L.
- Nickel concentrations remained consistent with a mean of 11.4µg/L, a median of 10.6µg/L and a standard deviation of 4.60µg/L. A spike value of 73.6µg/L for nickel was reported in March 2012 with a coincidental spike for chromium in the same sample. This discussed in the Priority Pollutant Metals section under Influent Monitoring Results for Wastewater Facility's 2012 annual report.
- Selenium concentrations remained consistent with a mean of 2.00µg/L, a median of 1.84µg/L, and a standard deviation of 0.58µg/L.
- Silver concentrations remained consistent with a mean of 0.88µg/L, a median of 0.83µg/L, and a standard deviation of 0.31µg/L.
- Zinc concentrations remained consistent with a mean of 174µg/L, a median of 171µg/L, and a standard deviation of 24.0µg/L. Zinc concentrations typically range from 150 and 300µg/L. One spike value of 434µg/L was reported on March 31, 2012 for the five year monitoring period.

Effluent

- Arsenic concentrations remained fairly consistent, with a mean of 1.04µg/L, a median of 1.00µg/L and a standard deviation of 0.24µg/L. The concentration range for arsenic was a minimum of 0.66µg/L and maximum of 1.88µg/L.
- Cadmium concentrations were reported as DNQ values with an 0.10µg/L RL. The mean concentration was 0.020µg/L with a median of 0.016µg/L and standard deviation of 0.010µg/L.
- Chromium concentrations remained consistent at a mean of 0.52µg/L, a median of 0.52µg/L and a standard deviation of 0.10µg/L. The chromium concentration range was 0.33µg/L to 0.99µg/L.
- Copper concentrations remained consistent with a mean of 3.09µg/L, a median of 3.10µg/L and a standard deviation of 0.84µg/L. The copper concentration range remained at 1.63µg/L to 6.16µg/L.
- Cyanide concentrations were generally reported as DNQ values with an RL of 3.0µg/L and MDL of 0.30µg/L. There are only two detected results for this Wastewater Facility's effluent during the current five year period: March 1, 2012 (7.2µg/L) and December 4, 2012 (3.0µg/L).
- Lead concentrations remained consistent with a mean of 0.285µg/L, median of 0.24µg/L, and a standard deviation of 0.29µg/L. The lead concentration range was 0.060µg/L to 2.62µg/L for the five year monitoring period.
- Mercury concentrations decreased to a mean of 1.35ng/L, a median of 1.23ng/L, and a standard deviation of 0.06ng/L. The mercury concentration range was 0.73ng/L to 4.76ng/L for the five year monitoring period.
- Nickel concentrations decreased to a mean of 5.98µg/L, a median of 5.89µg/L, and a standard deviation of 1.10µg/L. The nickel concentration range was 3.42µg/L to 8.60µg/L for the five year monitoring period.
- Selenium concentrations have remained relatively consistent with a mean of 0.47µg/L, a median of 0.48µg/L, and a standard deviation of 0.11µg/L. The selenium concentration range was 0.23µg/L to 0.70µg/L.
- Silver concentrations were generally reported as non-detect or DNQ values with an RL 0.10µg/L. The reported DNQ values shows a mean of 0.025µg/L, median of 0.023µg/L, and standard deviation of 0.015µg/L for this five year monitoring period.
- Zinc concentrations remained consistent with a mean of 21.1µg/L, a median of 20.5µg/L, and a standard deviation of 3.30µg/L. The zinc concentration range was 16.0µg/L to 30.8µg/L.

Appendix I

5-years Influent and Effluent Data for Metals

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1/6/2011	1.24	1.05	DNQ0.097	DNQ0.021	5.87	0.43	128	3.00	3.88	0.36	0.158	0.00150	11.6	6.81	2.44	0.64	1.17	DNQ0.029	157	19.9
2/2/2011	2.14	0.95	DNQ0.23	DNQ0.020	5.83	0.60	179	3.43	3.20	0.28	0.174	0.00143	11.5	6.42	2.22	0.64	1.31	DNQ0.046	180	22.1
3/1/2011	2.11	0.96	DNQ0.16	ND	4.62	0.41	153	3.13	4.32	0.30	0.158	0.00150	12.6	7.00	2.02	0.67	1.13	DNQ0.056	165	18.0
4/4/2011	2.05	1.13	DNQ0.26	DNQ0.058	5.13	0.53	130	3.80	5.46	0.42	0.118	0.00151	10.8	6.33	1.84	0.51	1.10	DNQ0.048	152	18.3
5/3/2011	1.80	0.93	DNQ0.24	DNQ0.025	5.19	0.56	126	2.95	4.67	0.48	0.184	0.00174	11.4	6.41	1.48	0.32	1.15	DNQ0.030	181	23.5
5/8/2011	1.13	1.00	DNQ0.21	ND	4.09	0.50	113	3.06	4.68	0.20	n.a.	n.a.	10.6	6.31	n.a.	n.a.	0.60	DNQ0.016	150	20.3
5/9/2011	1.80	0.98	DNQ0.27	ND	5.00	0.50	206	3.36	6.02	0.26	n.a.	n.a.	20.5	6.49	n.a.	n.a.	1.03	DNQ0.015	181	19.9
5/10/2011	2.23	0.96	DNQ0.21	ND	5.43	0.53	175	3.22	4.31	0.41	n.a.	n.a.	12.5	8.06	n.a.	n.a.	1.49	DNQ0.016	215	23.1
5/11/2011	1.16	1.13	DNQ0.25	ND	5.04	0.55	155	2.63	4.40	0.23	n.a.	n.a.	11.4	7.24	n.a.	n.a.	1.24	DNQ0.018	189	19.9
5/12/2011	1.45	0.89	DNQ0.20	DNQ0.032	7.25	0.59	189	2.36	5.84	0.25	n.a.	n.a.	11.8	6.98	n.a.	n.a.	1.37	DNQ0.021	191	19.6
5/13/2011	1.51	1.07	DNQ0.34	ND	5.33	0.74	170	3.41	9.07	0.22	n.a.	n.a.	14.1	8.31	n.a.	n.a.	1.23	DNQ0.024	192	21.1
5/14/2011	1.38	1.00	DNQ0.25	ND	5.15	0.72	137	3.25	3.21	0.26	n.a.	n.a.	9.92	8.30	n.a.	n.a.	1.29	DNQ0.028	168	20.3
5/15/2011	1.26	1.02	DNQ0.38	ND	5.51	0.71	187	3.76	6.38	0.29	n.a.	n.a.	10.4	7.38	n.a.	n.a.	0.96	DNQ0.024	185	29.3
5/16/2011	1.15	0.90	DNQ0.24	DNQ0.038	4.54	0.60	115	3.13	3.75	0.34	n.a.	n.a.	11.0	5.81	n.a.	n.a.	1.28	DNQ0.046	157	18.9
5/17/2011	1.50	0.79	DNQ0.31	DNQ0.020	5.18	0.59	143	3.19	3.63	0.26	n.a.	n.a.	10.7	6.53	n.a.	n.a.	1.25	DNQ0.028	171	21.8
5/18/2011	1.90	0.81	DNQ0.30	ND	4.58	0.57	119	2.99	3.52	0.24	n.a.	n.a.	10.8	6.02	n.a.	n.a.	1.08	DNQ0.024	158	20.5
5/19/2011	2.02	0.86	DNQ0.32	ND	4.16	0.55	132	3.10	3.16	0.26	n.a.	n.a.	9.94	5.95	n.a.	n.a.	1.06	DNQ0.027	155	20.9
5/20/2011	2.11	0.88	DNQ0.26	DNQ0.020	4.87	0.56	142	3.69	7.74	0.23	n.a.	n.a.	10.5	6.46	n.a.	n.a.	1.53	DNQ0.024	185	18.7
5/21/2011	1.92	0.92	DNQ0.21	ND	4.30	0.62	120	3.80	3.37	0.22	n.a.	n.a.	9.22	6.24	n.a.	n.a.	0.85	DNQ0.026	164	21.2
5/22/2011	1.80	0.82	DNQ0.29	ND	4.27	0.55	125	4.80	2.56	0.20	n.a.	n.a.	11.2	5.80	n.a.	n.a.	0.82	DNQ0.025	167	17.8
5/23/2011	1.83	0.82	0.42	ND	4.87	0.61	144	4.32	3.35	0.21	n.a.	n.a.	11.8	6.73	n.a.	n.a.	1.17	DNQ0.022	150	18.6
5/24/2011	2.09	0.84	DNQ0.33	ND	5.03	0.55	117	4.20	3.69	0.46	n.a.	n.a.	10.8	6.50	n.a.	n.a.	1.29	DNQ0.025	146	16.4
5/25/2011	2.03	0.92	DNQ0.20	DNQ0.023	5.01	0.61	129	3.68	3.51	0.37	n.a.	n.a.	10.6	6.59	n.a.	n.a.	1.28	DNQ0.049	156	17.7
5/26/2011	2.12	0.88	DNQ0.32	ND	4.88	0.58	128	3.25	4.16	0.31	n.a.	n.a.	12.8	6.90	n.a.	n.a.	1.37	DNQ0.025	160	17.4
5/27/2011	1.85	0.90	DNQ0.20	ND	4.92	0.59	169	3.33	3.57	0.27	n.a.	n.a.	13.0	8.15	n.a.	n.a.	1.27	DNQ0.024	156	19.1
5/28/2011	1.90	0.94	DNQ0.18	ND	4.41	0.60	143	2.99	7.98	0.34	n.a.	n.a.	8.60	8.16	n.a.	n.a.	0.84	DNQ0.018	148	22.6
5/29/2011	1.33	0.79	DNQ0.34	ND	4.01	0.46	112	3.33	3.67	0.45	n.a.	n.a.	9.99	6.56	n.a.	n.a.	0.62	DNQ0.018	145	19.4
5/30/2011	1.35	0.95	DNQ0.16	DNQ0.017	3.69	0.53	156	3.22	4.23	0.25	n.a.	n.a.	9.89	7.04	n.a.	n.a.	0.64	DNQ0.042	162	19.8
5/31/2011	1.63	0.94	DNQ0.18	ND	4.85	0.49	151	3.41	4.23	0.28	n.a.	n.a.	11.9	6.30	n.a.	n.a.	1.24	DNQ0.018	180	19.1
6/1/2011	1.62	0.85	DNQ0.22	ND	4.47	0.48	116	3.26	3.33	0.30	0.128	0.00153	10.2	6.44	1.48	0.43	1.01	DNQ0.020	160	18.9
6/2/2011	1.95	0.91	DNQ0.22	ND	4.16	0.46	116	3.17	3.25	0.25	n.a.	n.a.	9.3	5.85	n.a.	n.a.	1.29	DNQ0.034	157	18.2
6/3/2011	1.87	1.03	DNQ0.21	ND	4.30	0.44	131	3.23	3.91	0.26	n.a.	n.a.	12.3	5.63	n.a.	n.a.	1.25	DNQ0.014	156	19.0
6/4/2011	1.77	1.09	DNQ0.19	ND	4.53	0.44	120	2.87	3.28	0.58	n.a.	n.a.	10.0	5.89	n.a.	n.a.	0.90	ND	165	23.7
6/5/2011	1.40	0.94	DNQ0.23	ND	3.44	0.40	95.7	2.83	2.58	0.17	n.a.	n.a.	10.3	5.97	n.a.	n.a.	0.62	ND	129	18.2
6/6/2011	1.98	n.a.	DNQ0.34	n.a.	4.91	n.a.	152	n.a.	4.22	n.a.	n.a.	n.a.	10.4	n.a.	n.a.	n.a.	1.60	n.a.	169	n.a.
6/7/2011	1.89	n.a.	DNQ0.19	n.a.	4.39	n.a.	137	n.a.	4.41	n.a.	n.a.	n.a.	**36.0**	n.a.	n.a.	n.a.	1.24	n.a.	179	n.a.
6/8/2011	2.65	n.a.	DNQ0.29	n.a.	9.45	n.a.	174	n.a.	5.59	n.a.	n.a.	n.a.	18.6	n.a.	n.a.	n.a.	1.07	n.a.	200	n.a.
6/9/2011	1.99	n.a.	DNQ0.21	n.a.	4.19	n.a.	113	n.a.	3.16	n.a.	n.a.	n.a.	11.0	n.a.	n.a.	n.a.	0.70	n.a.	137	n.a.
6/10/2011	2.10	n.a.	DNQ0.18	n.a.	4.93	n.a.	118	n.a.	3.98	n.a.	n.a.	n.a.	12.9	n.a.	n.a.	n.a.	1.15	n.a.	171	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
6/11/2011	1.87	n.a.	DNQ0.18	n.a.	5.31	n.a.	144	n.a.	2.98	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	0.83	n.a.	171	n.a.
6/12/2011	1.83	n.a.	DNQ0.18	n.a.	5.17	n.a.	122	n.a.	3.39	n.a.	n.a.	n.a.	10.5	n.a.	n.a.	n.a.	0.66	n.a.	157	n.a.
6/13/2011	1.84	n.a.	DNQ0.18	n.a.	5.69	n.a.	135	n.a.	3.29	n.a.	n.a.	n.a.	10.1	n.a.	n.a.	n.a.	0.84	n.a.	175	n.a.
6/14/2011	1.93	n.a.	0.43	n.a.	5.19	n.a.	136	n.a.	3.93	n.a.	n.a.	n.a.	12.1	n.a.	n.a.	n.a.	1.04	n.a.	170	n.a.
6/15/2011	2.28	n.a.	0.40	n.a.	5.88	n.a.	162	n.a.	4.36	n.a.	n.a.	n.a.	12.2	n.a.	n.a.	n.a.	1.12	n.a.	185	n.a.
6/16/2011	1.55	n.a.	DNQ0.28	n.a.	5.79	n.a.	138	n.a.	3.79	n.a.	n.a.	n.a.	10.4	n.a.	n.a.	n.a.	1.15	n.a.	182	n.a.
6/17/2011	2.37	n.a.	DNQ0.19	n.a.	4.48	n.a.	126	n.a.	**17.8**	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.86	n.a.	160	n.a.
6/18/2011	1.54	n.a.	DNQ0.18	n.a.	4.81	n.a.	146	n.a.	2.76	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.82	n.a.	163	n.a.
6/19/2011	1.43	n.a.	DNQ0.20	n.a.	4.74	n.a.	149	n.a.	3.14	n.a.	n.a.	n.a.	8.58	n.a.	n.a.	n.a.	0.76	n.a.	164	n.a.
6/20/2011	2.10	n.a.	DNQ0.25	n.a.	5.20	n.a.	155	n.a.	3.88	n.a.	n.a.	n.a.	22.2	n.a.	n.a.	n.a.	1.29	n.a.	196	n.a.
6/21/2011	1.62	n.a.	DNQ0.20	n.a.	5.12	n.a.	145	n.a.	3.36	n.a.	n.a.	n.a.	12.1	n.a.	n.a.	n.a.	1.25	n.a.	181	n.a.
6/23/2011	2.26	n.a.	0.51	n.a.	4.52	n.a.	124	n.a.	3.67	n.a.	n.a.	n.a.	10.9	n.a.	n.a.	n.a.	1.37	n.a.	147	n.a.
6/24/2011	1.98	n.a.	DNQ0.22	n.a.	5.03	n.a.	128	n.a.	5.30	n.a.	n.a.	n.a.	13.1	n.a.	n.a.	n.a.	1.25	n.a.	164	n.a.
6/25/2011	2.07	n.a.	DNQ0.18	n.a.	3.97	n.a.	114	n.a.	5.42	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.74	n.a.	150	n.a.
6/26/2011	1.99	n.a.	DNQ0.25	n.a.	4.34	n.a.	153	n.a.	4.36	n.a.	n.a.	n.a.	9.44	n.a.	n.a.	n.a.	0.9	n.a.	155	n.a.
6/27/2011	1.98	n.a.	DNQ0.20	n.a.	5.11	n.a.	141	n.a.	5.73	n.a.	n.a.	n.a.	9.96	n.a.	n.a.	n.a.	0.91	n.a.	165	n.a.
6/28/2011	1.94	n.a.	DNQ0.28	n.a.	5.09	n.a.	140	n.a.	4.53	n.a.	n.a.	n.a.	12.3	n.a.	n.a.	n.a.	0.99	n.a.	186	n.a.
6/29/2011	2.09	n.a.	DNQ0.22	n.a.	4.80	n.a.	130	n.a.	3.24	n.a.	n.a.	n.a.	11.9	n.a.	n.a.	n.a.	1.02	n.a.	162	n.a.
7/1/2011	1.51	n.a.	DNQ0.27	n.a.	6.00	n.a.	149	n.a.	8.78	n.a.	n.a.	n.a.	13.8	n.a.	n.a.	n.a.	0.98	n.a.	179	n.a.
7/2/2011	1.15	n.a.	DNQ0.13	n.a.	4.67	n.a.	244	n.a.	3.82	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	1.40	n.a.	155	n.a.
7/3/2011	1.56	n.a.	DNQ0.12	n.a.	4.28	n.a.	133	n.a.	3.98	n.a.	n.a.	n.a.	7.50	n.a.	n.a.	n.a.	0.66	n.a.	150	n.a.
7/4/2011	1.31	n.a.	DNQ0.24	n.a.	6.34	n.a.	147	n.a.	4.60	n.a.	n.a.	n.a.	8.91	n.a.	n.a.	n.a.	0.71	n.a.	176	n.a.
7/5/2011	1.47	n.a.	DNQ0.18	n.a.	4.54	n.a.	115	n.a.	4.03	n.a.	n.a.	n.a.	8.15	n.a.	n.a.	n.a.	0.97	n.a.	154	n.a.
7/6/2011	1.26	0.79	DNQ0.17	DNQ0.081	5.18	0.54	136	4.19	4.13	0.35	0.137	0.00476	9.57	4.47	2.06	0.62	1.03	DNQ0.026	167	18.6
7/7/2011	1.29	n.a.	DNQ0.32	n.a.	5.55	n.a.	146	n.a.	5.90	n.a.	n.a.	n.a.	8.94	n.a.	n.a.	n.a.	1.07	n.a.	180	n.a.
7/8/2011	1.36	n.a.	DNQ0.17	n.a.	4.62	n.a.	122	n.a.	6.36	n.a.	n.a.	n.a.	9.92	n.a.	n.a.	n.a.	0.92	n.a.	177	n.a.
7/9/2011	1.12	n.a.	DNQ0.17	n.a.	3.53	n.a.	119	n.a.	3.71	n.a.	n.a.	n.a.	7.96	n.a.	n.a.	n.a.	0.59	n.a.	144	n.a.
7/10/2011	1.50	n.a.	DNQ0.26	n.a.	3.85	n.a.	113	n.a.	3.77	n.a.	n.a.	n.a.	9.60	n.a.	n.a.	n.a.	0.64	n.a.	157	n.a.
7/11/2011	2.05	n.a.	DNQ0.36	n.a.	4.95	n.a.	203	n.a.	4.07	n.a.	n.a.	n.a.	11.9	n.a.	n.a.	n.a.	1.19	n.a.	164	n.a.
7/12/2011	2.03	n.a.	DNQ0.15	n.a.	5.22	n.a.	170	n.a.	4.97	n.a.	n.a.	n.a.	11.5	n.a.	n.a.	n.a.	0.93	n.a.	176	n.a.
7/13/2011	1.86	n.a.	DNQ0.17	n.a.	**15.8**	n.a.	133	n.a.	3.51	n.a.	n.a.	n.a.	13.2	n.a.	n.a.	n.a.	0.98	n.a.	169	n.a.
7/14/2011	1.66	n.a.	DNQ0.14	n.a.	5.73	n.a.	139	n.a.	4.29	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	0.89	n.a.	158	n.a.
7/15/2011	1.61	n.a.	DNQ0.11	n.a.	4.92	n.a.	122	n.a.	3.81	n.a.	n.a.	n.a.	13.9	n.a.	n.a.	n.a.	0.79	n.a.	162	n.a.
7/16/2011	1.46	n.a.	DNQ0.15	n.a.	4.33	n.a.	121	n.a.	3.64	n.a.	n.a.	n.a.	9.71	n.a.	n.a.	n.a.	0.63	n.a.	154	n.a.
7/17/2011	1.51	n.a.	DNQ0.13	n.a.	4.58	n.a.	126	n.a.	4.66	n.a.	n.a.	n.a.	9.31	n.a.	n.a.	n.a.	0.57	n.a.	162	n.a.
7/18/2011	1.57	n.a.	DNQ0.25	n.a.	5.13	n.a.	142	n.a.	7.00	n.a.	n.a.	n.a.	11.6	n.a.	n.a.	n.a.	0.79	n.a.	162	n.a.
7/19/2011	1.93	n.a.	DNQ0.29	n.a.	4.91	n.a.	135	n.a.	7.63	n.a.	n.a.	n.a.	9.18	n.a.	n.a.	n.a.	0.81	n.a.	161	n.a.
7/20/2011	1.60	n.a.	DNQ0.20	n.a.	5.44	n.a.	139	n.a.	**11.6**	n.a.	n.a.	n.a.	**26.4**	n.a.	n.a.	n.a.	0.61	n.a.	177	n.a.
7/21/2011	1.69	n.a.	DNQ0.24	n.a.	5.24	n.a.	127	n.a.	3.51	n.a.	n.a.	n.a.	9.86	n.a.	n.a.	n.a.	0.69	n.a.	162	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
7/22/2011	1.47	n.a.	DNQ0.22	n.a.	5.16	n.a.	122	n.a.	4.31	n.a.	n.a.	n.a.	8.99	n.a.	n.a.	n.a.	0.61	n.a.	158	n.a.
7/23/2011	1.32	n.a.	DNQ0.14	n.a.	5.54	n.a.	125	n.a.	4.47	n.a.	n.a.	n.a.	8.70	n.a.	n.a.	n.a.	0.60	n.a.	147	n.a.
7/24/2011	1.27	n.a.	DNQ0.13	n.a.	4.00	n.a.	101	n.a.	9.48	n.a.	n.a.	n.a.	7.27	n.a.	n.a.	n.a.	0.53	n.a.	145	n.a.
7/25/2011	1.47	n.a.	DNQ0.16	n.a.	5.20	n.a.	123	n.a.	5.68	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	0.77	n.a.	167	n.a.
7/26/2011	1.41	n.a.	DNQ0.17	n.a.	5.34	n.a.	111	n.a.	5.96	n.a.	n.a.	n.a.	8.98	n.a.	n.a.	n.a.	0.96	n.a.	156	n.a.
7/27/2011	1.38	n.a.	DNQ0.17	n.a.	5.29	n.a.	119	n.a.	4.24	n.a.	n.a.	n.a.	9.73	n.a.	n.a.	n.a.	0.76	n.a.	156	n.a.
7/28/2011	2.36	n.a.	DNQ0.27	n.a.	5.35	n.a.	132	n.a.	**13.6**	n.a.	n.a.	n.a.	9.71	n.a.	n.a.	n.a.	0.87	n.a.	158	n.a.
7/29/2011	2.14	n.a.	DNQ0.28	n.a.	5.03	n.a.	134	n.a.	2.87	n.a.	n.a.	n.a.	9.42	n.a.	n.a.	n.a.	0.71	n.a.	158	n.a.
7/30/2011	1.81	n.a.	DNQ0.21	n.a.	6.31	n.a.	128	n.a.	2.41	n.a.	n.a.	n.a.	8.32	n.a.	n.a.	n.a.	0.79	n.a.	163	n.a.
7/31/2011	1.94	n.a.	DNQ0.15	n.a.	5.17	n.a.	133	n.a.	5.65	n.a.	n.a.	n.a.	7.70	n.a.	n.a.	n.a.	0.65	n.a.	155	n.a.
8/1/2011	2.21	1.0	DNQ0.25	DNQ0.040	6.19	0.49	172	2.77	**16.1**	0.21	0.0681	0.00102	11.5	4.94	1.65	0.32	1.68	DNQ0.023	176	17.7
8/2/2011	1.37	n.a.	DNQ0.22	n.a.	5.63	n.a.	164	n.a.	7.60	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	1.02	n.a.	170	n.a.
8/3/2011	1.40	n.a.	DNQ0.34	n.a.	6.34	n.a.	154	n.a.	8.27	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	1.15	n.a.	174	n.a.
8/4/2011	1.33	n.a.	DNQ0.17	n.a.	6.98	n.a.	156	n.a.	8.27	n.a.	n.a.	n.a.	11.1	n.a.	n.a.	n.a.	1.18	n.a.	183	n.a.
8/5/2011	1.07	n.a.	DNQ0.18	n.a.	5.16	n.a.	128	n.a.	2.93	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.56	n.a.	173	n.a.
8/6/2011	0.96	n.a.	DNQ0.20	n.a.	5.43	n.a.	158	n.a.	2.52	n.a.	n.a.	n.a.	9.85	n.a.	n.a.	n.a.	0.70	n.a.	166	n.a.
8/7/2011	1.22	n.a.	DNQ0.20	n.a.	6.05	n.a.	180	n.a.	7.68	n.a.	n.a.	n.a.	8.69	n.a.	n.a.	n.a.	0.99	n.a.	194	n.a.
8/8/2011	1.52	n.a.	DNQ0.19	n.a.	5.81	n.a.	274	n.a.	5.08	n.a.	n.a.	n.a.	11.6	n.a.	n.a.	n.a.	0.94	n.a.	185	n.a.
8/9/2011	1.25	n.a.	DNQ0.25	n.a.	4.99	n.a.	144	n.a.	4.89	n.a.	n.a.	n.a.	10.5	n.a.	n.a.	n.a.	0.92	n.a.	174	n.a.
8/10/2011	1.34	n.a.	DNQ0.17	n.a.	4.83	n.a.	177	n.a.	7.42	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	1.06	n.a.	172	n.a.
8/11/2011	1.42	n.a.	DNQ0.21	n.a.	5.49	n.a.	176	n.a.	3.20	n.a.	n.a.	n.a.	9.59	n.a.	n.a.	n.a.	1.54	n.a.	187	n.a.
8/12/2011	1.60	n.a.	DNQ0.29	n.a.	4.92	n.a.	129	n.a.	7.41	n.a.	n.a.	n.a.	9.24	n.a.	n.a.	n.a.	0.97	n.a.	147	n.a.
8/13/2011	1.38	n.a.	DNQ0.23	n.a.	4.37	n.a.	109	n.a.	2.63	n.a.	n.a.	n.a.	8.32	n.a.	n.a.	n.a.	0.76	n.a.	142	n.a.
8/14/2011	1.34	n.a.	DNQ0.22	n.a.	4.67	n.a.	117	n.a.	**10.6**	n.a.	n.a.	n.a.	7.47	n.a.	n.a.	n.a.	0.54	n.a.	145	n.a.
8/15/2011	1.69	n.a.	DNQ0.26	n.a.	5.30	n.a.	130	n.a.	**23.6**	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.74	n.a.	151	n.a.
8/16/2011	1.73	n.a.	DNQ0.29	n.a.	6.40	n.a.	164	n.a.	7.56	n.a.	n.a.	n.a.	12.1	n.a.	n.a.	n.a.	1.06	n.a.	182	n.a.
8/17/2011	1.75	n.a.	DNQ0.34	n.a.	7.41	n.a.	193	n.a.	5.43	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	1.17	n.a.	195	n.a.
8/18/2011	1.58	n.a.	DNQ0.32	n.a.	5.42	n.a.	167	n.a.	2.95	n.a.	n.a.	n.a.	10.0	n.a.	n.a.	n.a.	0.98	n.a.	153	n.a.
8/19/2011	1.49	n.a.	DNQ0.28	n.a.	5.43	n.a.	151	n.a.	9.09	n.a.	n.a.	n.a.	9.25	n.a.	n.a.	n.a.	1.0	n.a.	156	n.a.
8/20/2011	1.41	n.a.	DNQ0.23	n.a.	5.76	n.a.	157	n.a.	3.53	n.a.	n.a.	n.a.	10.6	n.a.	n.a.	n.a.	0.78	n.a.	156	n.a.
8/21/2011	2.09	n.a.	DNQ0.35	n.a.	9.38	n.a.	243	n.a.	5.27	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	1.19	n.a.	196	n.a.
8/22/2011	1.87	n.a.	DNQ0.37	n.a.	7.35	n.a.	192	n.a.	**10.5**	n.a.	n.a.	n.a.	12.5	n.a.	n.a.	n.a.	1.16	n.a.	202	n.a.
8/23/2011	1.71	n.a.	DNQ0.29	n.a.	10.2	n.a.	157	n.a.	8.73	n.a.	n.a.	n.a.	12.4	n.a.	n.a.	n.a.	1.18	n.a.	170	n.a.
8/24/2011	1.75	n.a.	DNQ0.28	n.a.	5.67	n.a.	209	n.a.	5.55	n.a.	n.a.	n.a.	17.2	n.a.	n.a.	n.a.	1.81	n.a.	173	n.a.
8/25/2011	1.79	n.a.	DNQ0.32	n.a.	6.42	n.a.	212	n.a.	5.87	n.a.	n.a.	n.a.	10.1	n.a.	n.a.	n.a.	1.24	n.a.	190	n.a.
8/26/2011	1.66	n.a.	DNQ0.24	n.a.	5.39	n.a.	167	n.a.	3.54	n.a.	n.a.	n.a.	8.94	n.a.	n.a.	n.a.	0.81	n.a.	185	n.a.
8/27/2011	1.68	n.a.	DNQ0.25	n.a.	4.86	n.a.	160	n.a.	**13.4**	n.a.	n.a.	n.a.	7.96	n.a.	n.a.	n.a.	0.70	n.a.	153	n.a.
8/28/2011	1.67	n.a.	DNQ0.21	n.a.	3.02	n.a.	126	n.a.	2.76	n.a.	n.a.	n.a.	8.39	n.a.	n.a.	n.a.	0.72	n.a.	146	n.a.
8/29/2011	1.68	n.a.	DNQ0.27	n.a.	5.45	n.a.	148	n.a.	2.94	n.a.	n.a.	n.a.	8.23	n.a.	n.a.	n.a.	0.85	n.a.	172	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
8/30/2011	1.74	n.a.	DNQ0.30	n.a.	5.60	n.a.	175	n.a.	9.46	n.a.	n.a.	n.a.	11.1	n.a.	n.a.	n.a.	0.97	n.a.	185	n.a.
8/31/2011	2.08	n.a.	0.43	n.a.	6.75	n.a.	213	n.a.	**39.7**	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	1.21	n.a.	201	n.a.
9/1/2011	1.61	1.13	DNQ0.30	ND	6.27	0.38	167	1.63	4.41	0.14	0.0919	0.00116	9.70	5.16	3.02	0.49	1.25	ND	165	19.3
9/2/2011	1.87	n.a.	DNQ0.30	n.a.	5.98	n.a.	176	n.a.	3.71	n.a.	n.a.	n.a.	8.89	n.a.	n.a.	n.a.	1.60	n.a.	152	n.a.
9/3/2011	1.62	n.a.	DNQ0.21	n.a.	5.73	n.a.	187	n.a.	2.85	n.a.	n.a.	n.a.	9.77	n.a.	n.a.	n.a.	0.95	n.a.	160	n.a.
9/4/2011	1.46	n.a.	0.44	n.a.	5.51	n.a.	151	n.a.	2.99	n.a.	n.a.	n.a.	7.62	n.a.	n.a.	n.a.	DNQ0.40	n.a.	154	n.a.
9/5/2011	1.34	n.a.	DNQ0.30	n.a.	5.50	n.a.	140	n.a.	5.40	n.a.	n.a.	n.a.	8.60	n.a.	n.a.	n.a.	DNQ0.28	n.a.	150	n.a.
9/6/2011	1.84	n.a.	DNQ0.34	n.a.	6.90	n.a.	157	n.a.	3.47	n.a.	n.a.	n.a.	12.5	n.a.	n.a.	n.a.	1.18	n.a.	160	n.a.
9/7/2011	1.64	n.a.	DNQ0.33	n.a.	6.53	n.a.	159	n.a.	9.79	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	0.81	n.a.	182	n.a.
9/8/2011	1.63	n.a.	DNQ0.34	n.a.	6.59	n.a.	167	n.a.	6.53	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.96	n.a.	175	n.a.
9/9/2011	1.96	n.a.	0.41	n.a.	8.31	n.a.	246	n.a.	5.13	n.a.	n.a.	n.a.	13.3	n.a.	n.a.	n.a.	1.38	n.a.	180	n.a.
9/10/2011	1.64	n.a.	DNQ0.34	n.a.	5.22	n.a.	129	n.a.	2.70	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.72	n.a.	139	n.a.
9/11/2011	1.52	n.a.	DNQ0.33	n.a.	6.74	n.a.	193	n.a.	7.79	n.a.	n.a.	n.a.	9.87	n.a.	n.a.	n.a.	1.35	n.a.	170	n.a.
9/12/2011	1.72	n.a.	DNQ0.34	n.a.	6.66	n.a.	190	n.a.	3.28	n.a.	n.a.	n.a.	20.4	n.a.	n.a.	n.a.	0.62	n.a.	174	n.a.
9/13/2011	1.63	n.a.	DNQ0.28	n.a.	4.44	n.a.	126	n.a.	3.11	n.a.	n.a.	n.a.	9.43	n.a.	n.a.	n.a.	0.82	n.a.	140	n.a.
9/14/2011	1.46	n.a.	DNQ0.21	n.a.	4.09	n.a.	130	n.a.	2.55	n.a.	n.a.	n.a.	9.65	n.a.	n.a.	n.a.	1.05	n.a.	138	n.a.
9/15/2011	1.65	n.a.	DNQ0.25	n.a.	5.44	n.a.	132	n.a.	3.44	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	0.94	n.a.	146	n.a.
9/16/2011	1.81	n.a.	DNQ0.20	n.a.	4.66	n.a.	123	n.a.	2.80	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	1.01	n.a.	151	n.a.
9/17/2011	1.53	n.a.	DNQ0.28	n.a.	4.93	n.a.	155	n.a.	3.01	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.59	n.a.	170	n.a.
9/18/2011	1.78	n.a.	DNQ0.29	n.a.	4.18	n.a.	117	n.a.	2.37	n.a.	n.a.	n.a.	7.35	n.a.	n.a.	n.a.	DNQ0.22	n.a.	152	n.a.
9/19/2011	1.69	n.a.	DNQ0.24	n.a.	4.64	n.a.	130	n.a.	6.93	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.63	n.a.	162	n.a.
9/20/2011	1.47	n.a.	DNQ0.25	n.a.	4.32	n.a.	140	n.a.	3.05	n.a.	n.a.	n.a.	9.67	n.a.	n.a.	n.a.	0.79	n.a.	172	n.a.
9/21/2011	1.39	n.a.	DNQ0.22	n.a.	4.21	n.a.	124	n.a.	3.59	n.a.	n.a.	n.a.	9.64	n.a.	n.a.	n.a.	0.95	n.a.	163	n.a.
9/22/2011	1.59	n.a.	DNQ0.23	n.a.	4.18	n.a.	123	n.a.	3.00	n.a.	n.a.	n.a.	9.13	n.a.	n.a.	n.a.	0.63	n.a.	168	n.a.
9/23/2011	1.46	n.a.	DNQ0.28	n.a.	6.16	n.a.	127	n.a.	3.32	n.a.	n.a.	n.a.	9.67	n.a.	n.a.	n.a.	DNQ0.39	n.a.	172	n.a.
9/24/2011	1.20	n.a.	DNQ0.36	n.a.	5.01	n.a.	123	n.a.	2.21	n.a.	n.a.	n.a.	9.05	n.a.	n.a.	n.a.	DNQ0.33	n.a.	169	n.a.
9/25/2011	1.13	n.a.	DNQ0.22	n.a.	4.16	n.a.	117	n.a.	4.05	n.a.	n.a.	n.a.	7.71	n.a.	n.a.	n.a.	DNQ0.18	n.a.	177	n.a.
9/26/2011	1.77	n.a.	DNQ0.25	n.a.	4.43	n.a.	127	n.a.	6.42	n.a.	n.a.	n.a.	9.63	n.a.	n.a.	n.a.	0.42	n.a.	168	n.a.
9/27/2011	1.49	n.a.	DNQ0.24	n.a.	4.41	n.a.	129	n.a.	3.41	n.a.	n.a.	n.a.	12.5	n.a.	n.a.	n.a.	0.79	n.a.	167	n.a.
9/28/2011	1.62	n.a.	DNQ0.20	n.a.	5.14	n.a.	126	n.a.	3.57	n.a.	n.a.	n.a.	16.7	n.a.	n.a.	n.a.	0.63	n.a.	176	n.a.
9/29/2011	1.57	n.a.	DNQ0.29	n.a.	4.58	n.a.	139	n.a.	3.24	n.a.	n.a.	n.a.	9.87	n.a.	n.a.	n.a.	0.88	n.a.	189	n.a.
9/30/2011	1.91	n.a.	DNQ0.25	n.a.	4.59	n.a.	133	n.a.	3.51	n.a.	n.a.	n.a.	18.4	n.a.	n.a.	n.a.	0.72	n.a.	174	n.a.
10/1/2011	1.39	n.a.	DNQ0.24	n.a.	4.21	n.a.	150	n.a.	3.39	n.a.	n.a.	n.a.	12.3	n.a.	n.a.	n.a.	0.57	n.a.	188	n.a.
10/2/2011	1.48	n.a.	DNQ0.28	n.a.	3.86	n.a.	128	n.a.	3.85	n.a.	n.a.	n.a.	8.46	n.a.	n.a.	n.a.	0.53	n.a.	173	n.a.
10/3/2011	1.34	0.82	DNQ0.25	ND	4.08	0.35	138	2.70	3.54	0.13	0.100	0.00115	13.7	5.64	1.83	0.29	0.70	ND	179	27.0
10/4/2011	1.78	n.a.	DNQ0.27	n.a.	4.68	n.a.	147	n.a.	3.42	n.a.	n.a.	n.a.	12.3	n.a.	n.a.	n.a.	0.83	n.a.	185	n.a.
10/5/2011	1.63	n.a.	DNQ0.32	n.a.	6.20	n.a.	161	n.a.	4.81	n.a.	n.a.	n.a.	10.4	n.a.	n.a.	n.a.	0.78	n.a.	200	n.a.
10/6/2011	1.49	n.a.	DNQ0.30	n.a.	5.46	n.a.	149	n.a.	**12.7**	n.a.	n.a.	n.a.	10.5	n.a.	n.a.	n.a.	0.74	n.a.	175	n.a.
10/7/2011	1.45	n.a.	DNQ0.28	n.a.	5.31	n.a.	157	n.a.	3.28	n.a.	n.a.	n.a.	10.4	n.a.	n.a.	n.a.	1.52	n.a.	166	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
10/8/2011	1.32	n.a.	DNQ0.30	n.a.	4.50	n.a.	150	n.a.	3.25	n.a.	n.a.	n.a.	8.21	n.a.	n.a.	n.a.	0.72	n.a.	167	n.a.
10/9/2011	1.49	n.a.	DNQ0.25	n.a.	4.64	n.a.	229	n.a.	4.08	n.a.	n.a.	n.a.	13.1	n.a.	n.a.	n.a.	0.53	n.a.	176	n.a.
10/10/2011	1.40	n.a.	DNQ0.34	n.a.	4.87	n.a.	168	n.a.	8.07	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	0.71	n.a.	173	n.a.
10/11/2011	1.55	n.a.	DNQ0.30	n.a.	4.90	n.a.	173	n.a.	6.15	n.a.	n.a.	n.a.	9.62	n.a.	n.a.	n.a.	0.77	n.a.	173	n.a.
10/12/2011	1.46	n.a.	DNQ0.31	n.a.	5.62	n.a.	175	n.a.	5.21	n.a.	n.a.	n.a.	**34.3**	n.a.	n.a.	n.a.	0.88	n.a.	172	n.a.
10/13/2011	1.41	n.a.	DNQ0.29	n.a.	5.12	n.a.	138	n.a.	5.12	n.a.	n.a.	n.a.	15.8	n.a.	n.a.	n.a.	1.00	n.a.	159	n.a.
10/14/2011	1.55	n.a.	DNQ0.28	n.a.	4.66	n.a.	150	n.a.	5.34	n.a.	n.a.	n.a.	10.9	n.a.	n.a.	n.a.	0.74	n.a.	163	n.a.
10/15/2011	1.55	n.a.	DNQ0.26	n.a.	4.64	n.a.	128	n.a.	2.57	n.a.	n.a.	n.a.	9.64	n.a.	n.a.	n.a.	0.50	n.a.	174	n.a.
10/16/2011	1.40	n.a.	DNQ0.30	n.a.	4.04	n.a.	128	n.a.	3.44	n.a.	n.a.	n.a.	8.88	n.a.	n.a.	n.a.	0.59	n.a.	162	n.a.
10/17/2011	1.78	n.a.	DNQ0.30	n.a.	5.08	n.a.	145	n.a.	3.82	n.a.	n.a.	n.a.	11.0	n.a.	n.a.	n.a.	0.62	n.a.	181	n.a.
10/18/2011	1.75	n.a.	DNQ0.34	n.a.	5.49	n.a.	162	n.a.	4.01	n.a.	n.a.	n.a.	11.8	n.a.	n.a.	n.a.	0.82	n.a.	197	n.a.
10/19/2011	1.71	n.a.	DNQ0.28	n.a.	5.52	n.a.	205	n.a.	3.95	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	0.66	n.a.	176	n.a.
10/20/2011	1.60	n.a.	DNQ0.25	n.a.	5.04	n.a.	117	n.a.	3.45	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	0.65	n.a.	162	n.a.
10/21/2011	1.59	n.a.	DNQ0.26	n.a.	5.74	n.a.	135	n.a.	3.94	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	0.88	n.a.	183	n.a.
10/22/2011	2.50	n.a.	DNQ0.30	n.a.	4.75	n.a.	134	n.a.	3.53	n.a.	n.a.	n.a.	12.9	n.a.	n.a.	n.a.	0.68	n.a.	181	n.a.
10/23/2011	2.14	n.a.	DNQ0.25	n.a.	4.95	n.a.	134	n.a.	3.19	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.52	n.a.	178	n.a.
10/24/2011	1.75	n.a.	DNQ0.28	n.a.	5.03	n.a.	136	n.a.	9.26	n.a.	n.a.	n.a.	10.6	n.a.	n.a.	n.a.	0.98	n.a.	167	n.a.
10/25/2011	1.76	n.a.	DNQ0.29	n.a.	4.62	n.a.	118	n.a.	2.82	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	0.90	n.a.	165	n.a.
10/26/2011	1.63	n.a.	DNQ0.30	n.a.	5.17	n.a.	127	n.a.	5.95	n.a.	n.a.	n.a.	10.5	n.a.	n.a.	n.a.	0.94	n.a.	167	n.a.
10/27/2011	1.65	n.a.	DNQ0.27	n.a.	4.45	n.a.	124	n.a.	2.99	n.a.	n.a.	n.a.	9.42	n.a.	n.a.	n.a.	1.09	n.a.	168	n.a.
10/28/2011	1.62	n.a.	DNQ0.28	n.a.	4.94	n.a.	121	n.a.	3.31	n.a.	n.a.	n.a.	25.1	n.a.	n.a.	n.a.	0.81	n.a.	158	n.a.
10/29/2011	1.58	n.a.	DNQ0.25	n.a.	4.26	n.a.	114	n.a.	2.56	n.a.	n.a.	n.a.	8.76	n.a.	n.a.	n.a.	0.64	n.a.	157	n.a.
10/30/2011	1.38	n.a.	DNQ0.25	n.a.	3.52	n.a.	103	n.a.	2.46	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	0.67	n.a.	151	n.a.
10/31/2011	1.51	n.a.	DNQ0.26	n.a.	4.38	n.a.	168	n.a.	3.21	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.85	n.a.	155	n.a.
11/1/2011	1.90	n.a.	DNQ0.26	n.a.	4.79	n.a.	121	n.a.	3.47	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	1.26	n.a.	155	n.a.
11/2/2011	1.48	n.a.	DNQ0.31	n.a.	4.60	n.a.	129	n.a.	3.28	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	1.17	n.a.	155	n.a.
11/3/2011	1.69	0.98	DNQ0.32	DNQ0.027	4.93	0.45	124	2.59	2.79	0.26	0.205	0.00117	14.9	7.09	1.36	0.34	1.0	ND	158	23.8
11/4/2011	1.70	n.a.	DNQ0.30	n.a.	5.93	n.a.	132	n.a.	2.85	n.a.	n.a.	n.a.	10.1	n.a.	n.a.	n.a.	0.80	n.a.	163	n.a.
11/5/2011	1.45	n.a.	0.44	n.a.	4.31	n.a.	102	n.a.	2.98	n.a.	n.a.	n.a.	10.1	n.a.	n.a.	n.a.	0.58	n.a.	159	n.a.
11/6/2011	1.39	n.a.	DNQ0.34	n.a.	4.41	n.a.	115	n.a.	3.81	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	0.54	n.a.	154	n.a.
11/7/2011	1.65	n.a.	DNQ0.31	n.a.	5.08	n.a.	127	n.a.	3.73	n.a.	n.a.	n.a.	24.1	n.a.	n.a.	n.a.	1.07	n.a.	166	n.a.
11/8/2011	1.90	n.a.	DNQ0.38	n.a.	5.30	n.a.	137	n.a.	21.2	n.a.	n.a.	n.a.	11.9	n.a.	n.a.	n.a.	0.83	n.a.	170	n.a.
11/9/2011	1.76	n.a.	DNQ0.25	n.a.	4.78	n.a.	124	n.a.	3.04	n.a.	n.a.	n.a.	13.7	n.a.	n.a.	n.a.	1.53	n.a.	164	n.a.
11/10/2011	1.80	n.a.	DNQ0.20	n.a.	4.79	n.a.	129	n.a.	7.68	n.a.	n.a.	n.a.	10.9	n.a.	n.a.	n.a.	0.96	n.a.	167	n.a.
11/11/2011	1.76	n.a.	DNQ0.37	n.a.	6.26	n.a.	671	n.a.	18.9	n.a.	n.a.	n.a.	12.8	n.a.	n.a.	n.a.	0.96	n.a.	278	n.a.
11/12/2011	1.45	n.a.	DNQ0.20	n.a.	3.82	n.a.	154	n.a.	8.27	n.a.	n.a.	n.a.	9.24	n.a.	n.a.	n.a.	0.77	n.a.	166	n.a.
11/13/2011	1.29	n.a.	DNQ0.16	n.a.	3.05	n.a.	93.7	n.a.	4.93	n.a.	n.a.	n.a.	7.30	n.a.	n.a.	n.a.	1.63	n.a.	136	n.a.
11/14/2011	1.65	n.a.	DNQ0.21	n.a.	4.24	n.a.	114	n.a.	4.13	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.88	n.a.	165	n.a.
11/15/2011	2.02	n.a.	DNQ0.34	n.a.	5.04	n.a.	150	n.a.	3.98	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	1.15	n.a.	184	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
11/16/2011	1.67	n.a.	DNQ0.21	n.a.	5.98	n.a.	135	n.a.	3.80	n.a.	n.a.	n.a.	18.8	n.a.	n.a.	n.a.	1.01	n.a.	179	n.a.
11/17/2011	1.53	n.a.	DNQ0.22	n.a.	3.76	n.a.	118	n.a.	3.70	n.a.	n.a.	n.a.	13.2	n.a.	n.a.	n.a.	0.83	n.a.	160	n.a.
11/18/2011	2.00	n.a.	1.21	n.a.	7.85	n.a.	n.a.	n.a.	11.0	n.a.	n.a.	n.a.	12.9	n.a.	n.a.	n.a.	1.76	n.a.	306	n.a.
11/19/2011	1.59	n.a.	0.40	n.a.	5.90	n.a.	221	n.a.	4.78	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	0.99	n.a.	257	n.a.
11/20/2011	1.36	n.a.	DNQ0.31	n.a.	3.93	n.a.	102	n.a.	2.78	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.52	n.a.	166	n.a.
11/21/2011	1.82	n.a.	DNQ0.25	n.a.	4.08	n.a.	105	n.a.	2.77	n.a.	n.a.	n.a.	12.8	n.a.	n.a.	n.a.	0.70	n.a.	150	n.a.
11/22/2011	1.41	n.a.	DNQ0.30	n.a.	4.56	n.a.	99.2	n.a.	2.77	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	1.11	n.a.	149	n.a.
11/23/2011	1.37	n.a.	DNQ0.28	n.a.	4.39	n.a.	111	n.a.	7.12	n.a.	n.a.	n.a.	10.9	n.a.	n.a.	n.a.	0.86	n.a.	150	n.a.
11/24/2011	1.32	n.a.	DNQ0.27	n.a.	4.48	n.a.	114	n.a.	5.93	n.a.	n.a.	n.a.	9.49	n.a.	n.a.	n.a.	0.66	n.a.	181	n.a.
11/25/2011	1.16	n.a.	DNQ0.26	n.a.	3.48	n.a.	120	n.a.	2.58	n.a.	n.a.	n.a.	6.69	n.a.	n.a.	n.a.	0.43	n.a.	143	n.a.
11/26/2011	1.66	n.a.	DNQ0.32	n.a.	4.61	n.a.	147	n.a.	4.56	n.a.	n.a.	n.a.	20.7	n.a.	n.a.	n.a.	0.53	n.a.	180	n.a.
11/27/2011	1.46	n.a.	DNQ0.16	n.a.	3.23	n.a.	81.6	n.a.	2.40	n.a.	n.a.	n.a.	8.08	n.a.	n.a.	n.a.	DNQ0.26	n.a.	133	n.a.
11/28/2011	1.45	n.a.	DNQ0.26	n.a.	3.53	n.a.	103	n.a.	3.46	n.a.	n.a.	n.a.	9.11	n.a.	n.a.	n.a.	0.52	n.a.	140	n.a.
11/29/2011	1.90	n.a.	DNQ0.19	n.a.	3.26	n.a.	113	n.a.	3.38	n.a.	n.a.	n.a.	13.9	n.a.	n.a.	n.a.	0.83	n.a.	147	n.a.
11/30/2011	1.66	n.a.	DNQ0.26	n.a.	4.14	n.a.	98.7	n.a.	3.00	n.a.	n.a.	n.a.	9.27	n.a.	n.a.	n.a.	0.70	n.a.	144	n.a.
12/1/2011	1.62	n.a.	DNQ0.25	n.a.	3.56	n.a.	104	n.a.	3.62	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	1.45	n.a.	156	n.a.
12/2/2011	1.47	n.a.	DNQ0.30	n.a.	4.00	n.a.	109	n.a.	3.62	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.61	n.a.	160	n.a.
12/3/2011	1.44	n.a.	DNQ0.27	n.a.	3.63	n.a.	101	n.a.	2.42	n.a.	n.a.	n.a.	9.66	n.a.	n.a.	n.a.	0.43	n.a.	158	n.a.
12/4/2011	1.57	n.a.	DNQ0.26	n.a.	3.54	n.a.	114	n.a.	7.51	n.a.	n.a.	n.a.	7.27	n.a.	n.a.	n.a.	DNQ0.21	n.a.	157	n.a.
12/5/2011	1.76	0.66	DNQ0.36	DNQ0.024	4.48	0.37	123	4.46	3.16	0.18	0.0717	0.00140	9.99	4.33	3.68	0.40	2.79	ND	172	16.7
12/6/2011	1.76	n.a.	DNQ0.23	n.a.	3.87	n.a.	110	n.a.	3.56	n.a.	n.a.	n.a.	11.3	n.a.	n.a.	n.a.	0.62	n.a.	148	n.a.
12/7/2011	1.53	n.a.	DNQ0.24	n.a.	4.13	n.a.	114	n.a.	10.6	n.a.	n.a.	n.a.	11.0	n.a.	n.a.	n.a.	0.56	n.a.	153	n.a.
12/8/2011	1.72	n.a.	DNQ0.30	n.a.	4.75	n.a.	129	n.a.	3.13	n.a.	n.a.	n.a.	11.5	n.a.	n.a.	n.a.	1.32	n.a.	163	n.a.
12/9/2011	1.69	n.a.	0.83	n.a.	4.69	n.a.	124	n.a.	14.1	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.93	n.a.	168	n.a.
12/10/2011	1.30	n.a.	DNQ0.20	n.a.	3.71	n.a.	109	n.a.	2.47	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.59	n.a.	156	n.a.
12/11/2011	1.56	n.a.	DNQ0.20	n.a.	3.39	n.a.	109	n.a.	2.70	n.a.	n.a.	n.a.	8.44	n.a.	n.a.	n.a.	DNQ0.37	n.a.	148	n.a.
12/12/2011	1.60	n.a.	DNQ0.18	n.a.	3.58	n.a.	106	n.a.	11.4	n.a.	n.a.	n.a.	8.68	n.a.	n.a.	n.a.	0.97	n.a.	129	n.a.
12/13/2011	1.60	n.a.	DNQ0.27	n.a.	4.61	n.a.	120	n.a.	4.88	n.a.	n.a.	n.a.	8.78	n.a.	n.a.	n.a.	0.74	n.a.	170	n.a.
12/14/2011	1.51	n.a.	DNQ0.23	n.a.	4.11	n.a.	99.9	n.a.	8.03	n.a.	n.a.	n.a.	10.4	n.a.	n.a.	n.a.	0.88	n.a.	146	n.a.
12/15/2011	1.77	n.a.	DNQ0.33	n.a.	4.75	n.a.	123	n.a.	4.01	n.a.	n.a.	n.a.	10.5	n.a.	n.a.	n.a.	0.94	n.a.	223	n.a.
12/16/2011	1.80	n.a.	DNQ0.25	n.a.	4.40	n.a.	124	n.a.	5.25	n.a.	n.a.	n.a.	11.6	n.a.	n.a.	n.a.	1.51	n.a.	164	n.a.
12/17/2011	1.79	n.a.	DNQ0.25	n.a.	3.81	n.a.	113	n.a.	2.45	n.a.	n.a.	n.a.	8.37	n.a.	n.a.	n.a.	1.23	n.a.	159	n.a.
12/18/2011	1.58	n.a.	DNQ0.25	n.a.	3.71	n.a.	108	n.a.	2.28	n.a.	n.a.	n.a.	7.77	n.a.	n.a.	n.a.	0.49	n.a.	167	n.a.
12/19/2011	1.57	n.a.	DNQ0.27	n.a.	4.18	n.a.	111	n.a.	3.14	n.a.	n.a.	n.a.	15.2	n.a.	n.a.	n.a.	0.76	n.a.	161	n.a.
12/20/2011	1.48	n.a.	DNQ0.24	n.a.	4.40	n.a.	109	n.a.	2.31	n.a.	n.a.	n.a.	9.77	n.a.	n.a.	n.a.	0.78	n.a.	147	n.a.
12/21/2011	1.51	n.a.	DNQ0.19	n.a.	5.00	n.a.	114	n.a.	2.62	n.a.	n.a.	n.a.	9.58	n.a.	n.a.	n.a.	1.06	n.a.	159	n.a.
12/22/2011	1.41	n.a.	DNQ0.28	n.a.	5.00	n.a.	139	n.a.	3.07	n.a.	n.a.	n.a.	12.2	n.a.	n.a.	n.a.	1.07	n.a.	169	n.a.
12/23/2011	1.98	n.a.	DNQ0.23	n.a.	4.82	n.a.	140	n.a.	3.47	n.a.	n.a.	n.a.	14.3	n.a.	n.a.	n.a.	0.92	n.a.	183	n.a.
12/24/2011	1.46	n.a.	DNQ0.26	n.a.	4.03	n.a.	126	n.a.	7.96	n.a.	n.a.	n.a.	9.63	n.a.	n.a.	n.a.	0.68	n.a.	170	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
12/25/2011	1.59	n.a.	DNQ0.21	n.a.	5.08	n.a.	109	n.a.	1.86	n.a.	n.a.	n.a.	7.40	n.a.	n.a.	n.a.	0.50	n.a.	160	n.a.
12/26/2011	1.43	n.a.	DNQ0.23	n.a.	4.70	n.a.	113	n.a.	2.32	n.a.	n.a.	n.a.	8.19	n.a.	n.a.	n.a.	0.52	n.a.	165	n.a.
12/27/2011	1.44	n.a.	DNQ0.26	n.a.	4.16	n.a.	127	n.a.	7.55	n.a.	n.a.	n.a.	10.6	n.a.	n.a.	n.a.	1.14	n.a.	167	n.a.
12/28/2011	1.43	n.a.	DNQ0.25	n.a.	4.34	n.a.	122	n.a.	3.28	n.a.	n.a.	n.a.	9.10	n.a.	n.a.	n.a.	0.90	n.a.	161	n.a.
12/29/2011	1.48	n.a.	DNQ0.26	n.a.	4.64	n.a.	126	n.a.	11.9	n.a.	n.a.	n.a.	9.82	n.a.	n.a.	n.a.	0.81	n.a.	170	n.a.
12/30/2011	1.50	n.a.	DNQ0.29	n.a.	5.74	n.a.	128	n.a.	4.28	n.a.	n.a.	n.a.	15.8	n.a.	n.a.	n.a.	0.72	n.a.	181	n.a.
12/31/2011	1.53	n.a.	DNQ0.36	n.a.	5.29	n.a.	121	n.a.	3.17	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.62	n.a.	194	n.a.
1/1/2012	1.40	n.a.	DNQ0.24	n.a.	4.02	n.a.	109	n.a.	1.97	n.a.	n.a.	n.a.	6.86	n.a.	n.a.	n.a.	DNQ0.31	n.a.	155	n.a.
1/2/2012	1.46	n.a.	DNQ0.20	n.a.	3.60	n.a.	102	n.a.	2.12	n.a.	n.a.	n.a.	6.59	n.a.	n.a.	n.a.	DNQ0.38	n.a.	161	n.a.
1/3/2012	1.56	n.a.	DNQ0.23	n.a.	3.94	n.a.	113	n.a.	6.26	n.a.	n.a.	n.a.	8.94	n.a.	n.a.	n.a.	0.62	n.a.	159	n.a.
1/4/2012	1.71	0.69	DNQ0.27	DNQ0.023	4.06	0.36	112	6.16	2.90	0.25	0.184	0.00149	9.45	5.13	1.43	0.30	0.73	ND	174	20.6
1/5/2012	1.57	n.a.	DNQ0.30	n.a.	7.29	n.a.	120	n.a.	3.13	n.a.	n.a.	n.a.	19.1	n.a.	n.a.	n.a.	0.85	n.a.	175	n.a.
1/6/2012	1.45	n.a.	DNQ0.24	n.a.	16.2	n.a.	115	n.a.	3.19	n.a.	n.a.	n.a.	31.6	n.a.	n.a.	n.a.	0.66	n.a.	181	n.a.
1/7/2012	1.85	n.a.	DNQ0.29	n.a.	3.82	n.a.	167	n.a.	3.36	n.a.	n.a.	n.a.	10.4	n.a.	n.a.	n.a.	0.57	n.a.	164	n.a.
1/8/2012	1.84	n.a.	DNQ0.29	n.a.	3.85	n.a.	128	n.a.	3.12	n.a.	n.a.	n.a.	9.07	n.a.	n.a.	n.a.	0.41	n.a.	171	n.a.
1/9/2012	2.08	n.a.	DNQ0.25	n.a.	6.75	n.a.	241	n.a.	5.30	n.a.	n.a.	n.a.	13.1	n.a.	n.a.	n.a.	0.82	n.a.	187	n.a.
1/10/2012	1.97	n.a.	DNQ0.25	n.a.	6.12	n.a.	128	n.a.	3.52	n.a.	n.a.	n.a.	13.7	n.a.	n.a.	n.a.	0.92	n.a.	167	n.a.
1/11/2012	1.77	n.a.	DNQ0.22	n.a.	5.40	n.a.	127	n.a.	4.34	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	0.88	n.a.	168	n.a.
1/12/2012	2.19	n.a.	DNQ0.29	n.a.	6.62	n.a.	141	n.a.	12.2	n.a.	n.a.	n.a.	11.9	n.a.	n.a.	n.a.	0.98	n.a.	180	n.a.
1/13/2012	1.74	n.a.	DNQ0.26	n.a.	5.61	n.a.	134	n.a.	5.28	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.77	n.a.	175	n.a.
1/14/2012	1.61	n.a.	DNQ0.26	n.a.	4.31	n.a.	113	n.a.	3.44	n.a.	n.a.	n.a.	8.14	n.a.	n.a.	n.a.	0.61	n.a.	171	n.a.
1/15/2012	1.55	n.a.	DNQ0.28	n.a.	5.15	n.a.	114	n.a.	3.31	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.48	n.a.	181	n.a.
1/16/2012	1.75	n.a.	DNQ0.30	n.a.	7.00	n.a.	134	n.a.	2.94	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	0.74	n.a.	196	n.a.
1/17/2012	1.62	n.a.	DNQ0.25	n.a.	4.72	n.a.	121	n.a.	5.72	n.a.	n.a.	n.a.	9.81	n.a.	n.a.	n.a.	0.77	n.a.	163	n.a.
1/18/2012	2.06	n.a.	DNQ0.32	n.a.	5.61	n.a.	130	n.a.	3.27	n.a.	n.a.	n.a.	11.1	n.a.	n.a.	n.a.	0.84	n.a.	181	n.a.
1/19/2012	1.87	n.a.	DNQ0.32	n.a.	5.46	n.a.	133	n.a.	4.37	n.a.	n.a.	n.a.	9.19	n.a.	n.a.	n.a.	0.94	n.a.	185	n.a.
1/20/2012	1.65	n.a.	DNQ0.28	n.a.	4.86	n.a.	123	n.a.	9.55	n.a.	n.a.	n.a.	10.7	n.a.	n.a.	n.a.	0.82	n.a.	176	n.a.
1/21/2012	1.80	n.a.	DNQ0.36	n.a.	5.24	n.a.	123	n.a.	4.25	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	0.72	n.a.	205	n.a.
1/22/2012	1.63	n.a.	DNQ0.30	n.a.	4.52	n.a.	119	n.a.	2.94	n.a.	n.a.	n.a.	7.91	n.a.	n.a.	n.a.	0.68	n.a.	181	n.a.
1/23/2012	1.78	n.a.	DNQ0.31	n.a.	7.01	n.a.	149	n.a.	9.50	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	0.66	n.a.	181	n.a.
1/24/2012	1.73	n.a.	DNQ0.29	n.a.	6.99	n.a.	143	n.a.	3.97	n.a.	n.a.	n.a.	15.0	n.a.	n.a.	n.a.	0.76	n.a.	185	n.a.
1/25/2012	2.06	n.a.	DNQ0.33	n.a.	7.61	n.a.	167	n.a.	7.19	n.a.	n.a.	n.a.	13.9	n.a.	n.a.	n.a.	0.88	n.a.	219	n.a.
1/26/2012	1.83	n.a.	DNQ0.31	n.a.	4.72	n.a.	129	n.a.	5.82	n.a.	n.a.	n.a.	9.30	n.a.	n.a.	n.a.	0.76	n.a.	187	n.a.
1/27/2012	1.56	n.a.	DNQ0.27	n.a.	4.50	n.a.	136	n.a.	6.23	n.a.	n.a.	n.a.	8.34	n.a.	n.a.	n.a.	0.62	n.a.	177	n.a.
1/28/2012	1.78	n.a.	DNQ0.30	n.a.	13.5	n.a.	126	n.a.	3.70	n.a.	n.a.	n.a.	20.8	n.a.	n.a.	n.a.	0.57	n.a.	179	n.a.
1/29/2012	1.61	n.a.	DNQ0.27	n.a.	4.54	n.a.	109	n.a.	3.64	n.a.	n.a.	n.a.	8.65	n.a.	n.a.	n.a.	0.51	n.a.	161	n.a.
1/30/2012	1.65	n.a.	DNQ0.29	n.a.	5.12	n.a.	125	n.a.	4.01	n.a.	n.a.	n.a.	9.46	n.a.	n.a.	n.a.	0.95	n.a.	179	n.a.
1/31/2012	1.55	n.a.	DNQ0.26	n.a.	4.75	n.a.	107	n.a.	4.14	n.a.	n.a.	n.a.	8.81	n.a.	n.a.	n.a.	0.81	n.a.	167	n.a.
2/1/2012	1.56	n.a.	DNQ0.27	n.a.	4.83	n.a.	118	n.a.	7.05	n.a.	n.a.	n.a.	11.0	n.a.	n.a.	n.a.	0.68	n.a.	171	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
2/2/2012	1.51	n.a.	DNQ0.29	n.a.	4.64	n.a.	111	n.a.	3.48	n.a.	n.a.	n.a.	11.8	n.a.	n.a.	n.a.	0.71	n.a.	160	n.a.
2/3/2012	1.60	n.a.	DNQ0.35	n.a.	4.97	n.a.	127	n.a.	3.72	n.a.	n.a.	n.a.	11.1	n.a.	n.a.	n.a.	0.77	n.a.	206	n.a.
2/4/2012	1.64	n.a.	0.41	n.a.	5.62	n.a.	130	n.a.	14.3	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	1.02	n.a.	216	n.a.
2/5/2012	1.52	n.a.	DNQ0.26	n.a.	4.56	n.a.	116	n.a.	14.3	n.a.	n.a.	n.a.	9.67	n.a.	n.a.	n.a.	0.53	n.a.	185	n.a.
2/6/2012	1.74	0.66	DNQ0.27	ND	4.56	0.45	124	3.15	2.90	0.53	0.101	0.00147	9.80	5.49	4.65	0.46	0.70	ND	196	27.1
2/7/2012	1.82	n.a.	DNQ0.24	n.a.	4.64	n.a.	134	n.a.	3.81	n.a.	n.a.	n.a.	9.31	n.a.	n.a.	n.a.	0.80	n.a.	189	n.a.
2/8/2012	1.83	n.a.	DNQ0.25	n.a.	4.92	n.a.	142	n.a.	3.38	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	0.96	n.a.	190	n.a.
2/9/2012	1.82	n.a.	DNQ0.26	n.a.	5.78	n.a.	136	n.a.	3.85	n.a.	n.a.	n.a.	12.8	n.a.	n.a.	n.a.	0.86	n.a.	181	n.a.
2/10/2012	1.59	n.a.	DNQ0.27	n.a.	5.44	n.a.	121	n.a.	8.12	n.a.	n.a.	n.a.	16.0	n.a.	n.a.	n.a.	0.85	n.a.	175	n.a.
2/11/2012	1.97	n.a.	DNQ0.26	n.a.	4.09	n.a.	129	n.a.	3.41	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.92	n.a.	166	n.a.
2/12/2012	2.26	n.a.	DNQ0.32	n.a.	4.24	n.a.	116	n.a.	2.94	n.a.	n.a.	n.a.	8.27	n.a.	n.a.	n.a.	0.50	n.a.	171	n.a.
2/13/2012	1.78	n.a.	DNQ0.34	n.a.	4.58	n.a.	114	n.a.	4.23	n.a.	n.a.	n.a.	17.6	n.a.	n.a.	n.a.	0.80	n.a.	159	n.a.
2/14/2012	1.91	n.a.	DNQ0.32	n.a.	4.96	n.a.	130	n.a.	4.13	n.a.	n.a.	n.a.	9.79	n.a.	n.a.	n.a.	1.72	n.a.	177	n.a.
2/15/2012	2.21	n.a.	DNQ0.30	n.a.	6.02	n.a.	145	n.a.	4.76	n.a.	n.a.	n.a.	16.6	n.a.	n.a.	n.a.	0.87	n.a.	200	n.a.
2/16/2012	1.75	n.a.	DNQ0.30	n.a.	5.64	n.a.	125	n.a.	3.57	n.a.	n.a.	n.a.	13.8	n.a.	n.a.	n.a.	0.90	n.a.	174	n.a.
2/17/2012	1.86	n.a.	DNQ0.39	n.a.	5.75	n.a.	138	n.a.	4.73	n.a.	n.a.	n.a.	12.5	n.a.	n.a.	n.a.	0.80	n.a.	209	n.a.
2/18/2012	2.53	n.a.	DNQ0.29	n.a.	4.67	n.a.	130	n.a.	2.72	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	1.35	n.a.	180	n.a.
2/19/2012	1.99	n.a.	DNQ0.36	n.a.	5.42	n.a.	148	n.a.	3.50	n.a.	n.a.	n.a.	11.5	n.a.	n.a.	n.a.	0.76	n.a.	210	n.a.
2/20/2012	1.85	n.a.	DNQ0.32	n.a.	8.82	n.a.	129	n.a.	2.66	n.a.	n.a.	n.a.	10.1	n.a.	n.a.	n.a.	0.74	n.a.	196	n.a.
2/21/2012	1.77	n.a.	DNQ0.23	n.a.	4.78	n.a.	127	n.a.	4.29	n.a.	n.a.	n.a.	11.6	n.a.	n.a.	n.a.	0.78	n.a.	185	n.a.
2/22/2012	2.18	n.a.	DNQ0.27	n.a.	4.72	n.a.	132	n.a.	4.19	n.a.	n.a.	n.a.	9.78	n.a.	n.a.	n.a.	1.33	n.a.	188	n.a.
2/23/2012	1.83	n.a.	DNQ0.24	n.a.	4.32	n.a.	113	n.a.	7.73	n.a.	n.a.	n.a.	17.0	n.a.	n.a.	n.a.	0.74	n.a.	174	n.a.
2/24/2012	1.61	n.a.	DNQ0.19	n.a.	4.27	n.a.	112	n.a.	2.61	n.a.	n.a.	n.a.	9.72	n.a.	n.a.	n.a.	1.01	n.a.	165	n.a.
2/25/2012	1.68	n.a.	DNQ0.24	n.a.	3.94	n.a.	111	n.a.	3.76	n.a.	n.a.	n.a.	9.76	n.a.	n.a.	n.a.	0.63	n.a.	170	n.a.
2/26/2012	2.26	n.a.	DNQ0.22	n.a.	3.91	n.a.	178	n.a.	2.36	n.a.	n.a.	n.a.	8.54	n.a.	n.a.	n.a.	0.60	n.a.	175	n.a.
2/27/2012	1.70	n.a.	DNQ0.23	n.a.	3.88	n.a.	116	n.a.	4.38	n.a.	n.a.	n.a.	9.95	n.a.	n.a.	n.a.	0.91	n.a.	172	n.a.
2/28/2012	2.30	n.a.	DNQ0.24	n.a.	4.01	n.a.	119	n.a.	10.2	n.a.	n.a.	n.a.	9.98	n.a.	n.a.	n.a.	1.00	n.a.	167	n.a.
2/29/2012	2.06	n.a.	DNQ0.23	n.a.	5.59	n.a.	127	n.a.	2.99	n.a.	n.a.	n.a.	14.9	n.a.	n.a.	n.a.	0.80	n.a.	208	n.a.
3/1/2012	1.90	0.98	DNQ0.24	DNQ0.026	7.44	0.51	160	4.21	7.29	0.27	0.0870	0.00275	14.7	7.13	1.67	0.56	1.10	ND	197	30.3
3/2/2012	1.79	n.a.	DNQ0.21	n.a.	5.97	n.a.	134	n.a.	2.91	n.a.	n.a.	n.a.	10.8	n.a.	n.a.	n.a.	0.82	n.a.	182	n.a.
3/3/2012	1.64	n.a.	DNQ0.22	n.a.	4.90	n.a.	126	n.a.	2.46	n.a.	n.a.	n.a.	10.0	n.a.	n.a.	n.a.	0.64	n.a.	166	n.a.
3/4/2012	1.47	n.a.	DNQ0.25	n.a.	4.33	n.a.	127	n.a.	2.45	n.a.	n.a.	n.a.	7.85	n.a.	n.a.	n.a.	0.45	n.a.	183	n.a.
3/5/2012	1.69	n.a.	DNQ0.30	n.a.	4.78	n.a.	155	n.a.	18.0	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	1.42	n.a.	189	n.a.
3/6/2012	1.89	n.a.	DNQ0.28	n.a.	6.05	n.a.	129	n.a.	13.3	n.a.	n.a.	n.a.	12.4	n.a.	n.a.	n.a.	0.81	n.a.	185	n.a.
3/7/2012	1.71	n.a.	DNQ0.26	n.a.	4.62	n.a.	147	n.a.	3.75	n.a.	n.a.	n.a.	10.9	n.a.	n.a.	n.a.	1.17	n.a.	174	n.a.
3/8/2012	1.59	n.a.	DNQ0.18	n.a.	4.47	n.a.	126	n.a.	6.20	n.a.	n.a.	n.a.	9.58	n.a.	n.a.	n.a.	0.74	n.a.	166	n.a.
3/9/2012	1.72	n.a.	DNQ0.20	n.a.	4.89	n.a.	121	n.a.	3.61	n.a.	n.a.	n.a.	9.53	n.a.	n.a.	n.a.	0.79	n.a.	169	n.a.
3/10/2012	1.82	n.a.	DNQ0.23	n.a.	4.34	n.a.	134	n.a.	3.16	n.a.	n.a.	n.a.	9.28	n.a.	n.a.	n.a.	0.70	n.a.	176	n.a.
3/11/2012	1.85	n.a.	DNQ0.24	n.a.	4.50	n.a.	118	n.a.	2.55	n.a.	n.a.	n.a.	8.23	n.a.	n.a.	n.a.	0.60	n.a.	181	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
3/12/2012	1.91	n.a.	DNQ0.18	n.a.	4.86	n.a.	133	n.a.	3.70	n.a.	n.a.	n.a.	22.2	n.a.	n.a.	n.a.	0.84	n.a.	199	n.a.
3/13/2012	2.01	n.a.	DNQ0.28	n.a.	4.76	n.a.	117	n.a.	13.9	n.a.	n.a.	n.a.	13.6	n.a.	n.a.	n.a.	0.84	n.a.	170	n.a.
3/14/2012	1.78	n.a.	DNQ0.28	n.a.	6.62	n.a.	127	n.a.	3.77	n.a.	n.a.	n.a.	12.3	n.a.	n.a.	n.a.	0.92	n.a.	185	n.a.
3/15/2012	1.83	n.a.	DNQ0.22	n.a.	4.64	n.a.	126	n.a.	2.57	n.a.	n.a.	n.a.	9.44	n.a.	n.a.	n.a.	0.84	n.a.	164	n.a.
3/16/2012	2.21	1.06	DNQ0.24	DNQ0.022	4.27	0.44	107	3.63	266000	0.89	n.a.	n.a.	9.01	5.95	n.a.	n.a.	2.06	ND	167	22.7
3/17/2012	2.03	1.18	DNQ0.30	DNQ0.022	3.83	0.52	107	3.44	4.47	0.46	n.a.	n.a.	8.26	6.08	n.a.	n.a.	0.93	ND	178	25.4
3/18/2012	2.09	n.a.	DNQ0.22	n.a.	4.27	n.a.	110	n.a.	3.49	n.a.	n.a.	n.a.	8.63	n.a.	n.a.	n.a.	0.53	n.a.	169	n.a.
3/19/2012	2.05	n.a.	DNQ0.23	n.a.	4.49	n.a.	119	n.a.	4.88	n.a.	n.a.	n.a.	15.1	n.a.	n.a.	n.a.	0.75	n.a.	239	n.a.
3/20/2012	2.86	n.a.	DNQ0.25	n.a.	4.84	n.a.	123	n.a.	6.33	n.a.	n.a.	n.a.	13.1	n.a.	n.a.	n.a.	0.92	n.a.	189	n.a.
3/21/2012	2.25	n.a.	DNQ0.28	n.a.	4.85	n.a.	211	n.a.	4.58	n.a.	n.a.	n.a.	11.8	n.a.	n.a.	n.a.	0.79	n.a.	194	n.a.
3/22/2012	2.03	n.a.	DNQ0.25	n.a.	4.90	n.a.	128	n.a.	3.52	n.a.	n.a.	n.a.	11.8	n.a.	n.a.	n.a.	0.90	n.a.	188	n.a.
3/23/2012	1.73	n.a.	DNQ0.23	n.a.	5.07	n.a.	122	n.a.	5.62	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	1.31	n.a.	181	n.a.
3/24/2012	1.84	n.a.	DNQ0.23	n.a.	4.83	n.a.	116	n.a.	2.79	n.a.	n.a.	n.a.	11.2	n.a.	n.a.	n.a.	0.60	n.a.	189	n.a.
3/25/2012	1.89	n.a.	DNQ0.23	n.a.	5.34	n.a.	112	n.a.	16.9	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	0.52	n.a.	184	n.a.
3/26/2012	2.03	0.89	DNQ0.27	ND	203	0.53	122	4.06	3.26	1.12	n.a.	n.a.	73.6	4.59	n.a.	n.a.	0.77	ND	176	20.9
3/27/2012	2.19	0.85	DNQ0.24	ND	6.26	0.99	149	3.46	5.44	0.43	n.a.	n.a.	15.7	5.50	n.a.	n.a.	0.85	ND	219	20.5
3/28/2012	2.04	n.a.	DNQ0.27	n.a.	5.52	n.a.	135	n.a.	4.00	n.a.	n.a.	n.a.	23.0	n.a.	n.a.	n.a.	1.79	n.a.	203	n.a.
3/29/2012	1.79	n.a.	DNQ0.27	n.a.	4.46	n.a.	136	n.a.	3.89	n.a.	n.a.	n.a.	12.7	n.a.	n.a.	n.a.	0.90	n.a.	177	n.a.
3/30/2012	1.82	n.a.	DNQ0.26	n.a.	4.60	n.a.	123	n.a.	3.58	n.a.	n.a.	n.a.	11.6	n.a.	n.a.	n.a.	0.84	n.a.	176	n.a.
3/31/2012	1.77	n.a.	DNQ0.26	n.a.	4.36	n.a.	528	n.a.	9.86	n.a.	n.a.	n.a.	12.9	n.a.	n.a.	n.a.	0.73	n.a.	434	n.a.
4/1/2012	1.68	n.a.	DNQ0.20	n.a.	3.97	n.a.	114	n.a.	9.71	n.a.	n.a.	n.a.	9.25	n.a.	n.a.	n.a.	1.03	n.a.	171	n.a.
4/2/2012	1.81	n.a.	DNQ0.18	n.a.	4.32	n.a.	114	n.a.	4.35	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	0.61	n.a.	165	n.a.
4/3/2012	1.78	n.a.	DNQ0.16	n.a.	4.15	n.a.	117	n.a.	3.39	n.a.	n.a.	n.a.	10.5	n.a.	n.a.	n.a.	1.11	n.a.	167	n.a.
4/4/2012	1.78	n.a.	DNQ0.28	n.a.	8.63	n.a.	125	n.a.	3.33	n.a.	n.a.	n.a.	11.6	n.a.	n.a.	n.a.	1.07	n.a.	206	n.a.
4/5/2012	2.42	0.94	DNQ0.26	DNQ0.023	7.69	0.56	168	3.33	4.59	0.48	0.0937	0.00124	12.6	7.23	1.70	0.54	0.94	ND	217	26.0
4/6/2012	1.69	n.a.	DNQ0.28	n.a.	5.84	n.a.	137	n.a.	3.31	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	1.03	n.a.	193	n.a.
4/7/2012	1.76	n.a.	DNQ0.27	n.a.	5.20	n.a.	129	n.a.	3.76	n.a.	n.a.	n.a.	9.77	n.a.	n.a.	n.a.	0.70	n.a.	195	n.a.
4/8/2012	1.47	n.a.	DNQ0.23	n.a.	3.92	n.a.	106	n.a.	2.80	n.a.	n.a.	n.a.	7.92	n.a.	n.a.	n.a.	0.55	n.a.	169	n.a.
4/9/2012	1.70	n.a.	DNQ0.30	n.a.	4.76	n.a.	131	n.a.	9.10	n.a.	n.a.	n.a.	14.6	n.a.	n.a.	n.a.	0.71	n.a.	189	n.a.
4/10/2012	1.87	n.a.	DNQ0.34	n.a.	4.52	n.a.	130	n.a.	4.30	n.a.	n.a.	n.a.	9.97	n.a.	n.a.	n.a.	1.0	n.a.	178	n.a.
4/11/2012	1.77	n.a.	DNQ0.28	n.a.	5.28	n.a.	121	n.a.	3.89	n.a.	n.a.	n.a.	11.4	n.a.	n.a.	n.a.	0.85	n.a.	198	n.a.
4/12/2012	2.73	n.a.	DNQ0.12	n.a.	4.67	n.a.	116	n.a.	3.89	n.a.	n.a.	n.a.	11.1	n.a.	n.a.	n.a.	0.95	n.a.	184	n.a.
4/13/2012	2.27	n.a.	DNQ0.29	n.a.	5.40	n.a.	119	n.a.	4.88	n.a.	n.a.	n.a.	11.9	n.a.	n.a.	n.a.	0.96	n.a.	195	n.a.
4/14/2012	2.36	n.a.	DNQ0.26	n.a.	8.30	n.a.	112	n.a.	4.66	n.a.	n.a.	n.a.	11.5	n.a.	n.a.	n.a.	0.68	n.a.	180	n.a.
4/15/2012	1.87	n.a.	DNQ0.28	n.a.	4.10	n.a.	106	n.a.	3.15	n.a.	n.a.	n.a.	9.12	n.a.	n.a.	n.a.	0.80	n.a.	169	n.a.
4/16/2012	1.77	n.a.	DNQ0.30	n.a.	4.46	n.a.	114	n.a.	3.45	n.a.	n.a.	n.a.	12.8	n.a.	n.a.	n.a.	0.81	n.a.	173	n.a.
4/17/2012	1.85	n.a.	DNQ0.30	n.a.	4.60	n.a.	177	n.a.	3.66	n.a.	n.a.	n.a.	10.9	n.a.	n.a.	n.a.	1.05	n.a.	182	n.a.
4/18/2012	1.79	n.a.	DNQ0.32	n.a.	5.47	n.a.	121	n.a.	3.11	n.a.	n.a.	n.a.	13.6	n.a.	n.a.	n.a.	1.68	n.a.	177	n.a.
4/19/2012	1.87	n.a.	DNQ0.29	n.a.	4.66	n.a.	133	n.a.	3.56	n.a.	n.a.	n.a.	14.9	n.a.	n.a.	n.a.	1.02	n.a.	186	n.a.

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
4/20/2012	1.89	n.a.	DNQ0.27	n.a.	5.07	n.a.	118	n.a.	3.17	n.a.	n.a.	n.a.	12.0	n.a.	n.a.	n.a.	0.84	n.a.	171	n.a.
4/21/2012	1.98	n.a.	DNQ0.27	n.a.	4.70	n.a.	143	n.a.	3.28	n.a.	n.a.	n.a.	10.2	n.a.	n.a.	n.a.	0.88	n.a.	196	n.a.
4/22/2012	1.61	n.a.	DNQ0.30	n.a.	3.95	n.a.	105	n.a.	2.71	n.a.	n.a.	n.a.	8.21	n.a.	n.a.	n.a.	0.56	n.a.	166	n.a.
4/23/2012	1.79	n.a.	DNQ0.30	n.a.	6.35	n.a.	114	n.a.	3.39	n.a.	n.a.	n.a.	9.16	n.a.	n.a.	n.a.	0.76	n.a.	170	n.a.
4/24/2012	1.88	n.a.	DNQ0.35	n.a.	5.65	n.a.	134	n.a.	5.43	n.a.	n.a.	n.a.	13.1	n.a.	n.a.	n.a.	1.02	n.a.	191	n.a.
4/25/2012	1.81	n.a.	DNQ0.31	n.a.	5.36	n.a.	127	n.a.	3.82	n.a.	n.a.	n.a.	11.7	n.a.	n.a.	n.a.	1.10	n.a.	180	n.a.
4/26/2012	1.98	n.a.	DNQ0.28	n.a.	4.94	n.a.	118	n.a.	5.18	n.a.	n.a.	n.a.	10.3	n.a.	n.a.	n.a.	1.13	n.a.	208	n.a.
4/27/2012	1.73	n.a.	DNQ0.25	n.a.	5.05	n.a.	109	n.a.	3.34	n.a.	n.a.	n.a.	12.2	n.a.	n.a.	n.a.	0.88	n.a.	164	n.a.
4/28/2012	1.89	n.a.	DNQ0.24	n.a.	4.07	n.a.	108	n.a.	2.45	n.a.	n.a.	n.a.	8.76	n.a.	n.a.	n.a.	0.68	n.a.	160	n.a.
4/29/2012	1.72	n.a.	DNQ0.28	n.a.	4.49	n.a.	108	n.a.	2.38	n.a.	n.a.	n.a.	8.47	n.a.	n.a.	n.a.	0.48	n.a.	177	n.a.
4/30/2012	1.66	n.a.	DNQ0.25	n.a.	5.78	n.a.	107	n.a.	3.95	n.a.	n.a.	n.a.	9.27	n.a.	n.a.	n.a.	0.81	n.a.	177	n.a.
5/1/2012	1.80	0.78	DNQ0.25	ND	6.42	0.53	128	3.65	3.60	0.15	0.173	0.00117	10.9	5.47	1.69	0.50	1.39	ND	193	20.1
6/1/2012	1.74	1.28	0.46	DNQ0.019	5.96	0.45	451	2.28	8.04	0.26	0.114	0.00127	12.0	5.74	2.48	0.49	1.46	ND	255	18.0
7/10/2012	1.50	0.72	DNQ0.21	DNQ0.020	4.91	0.33	248	2.02	11.2	0.16	0.107	0.00141	9.77	5.19	1.68	0.39	1.15	ND	178	20.3
8/2/2012	1.64	0.85	DNQ0.23	DNQ0.029	4.84	0.35	123	1.81	4.38	0.13	0.109	0.00101	7.84	5.41	1.29	0.32	0.60	ND	165	22.5
9/5/2012	2.06	0.76	DNQ0.21	ND	5.27	0.33	118	2.33	3.57	0.18	0.155	0.00119	10.5	8.60	1.89	0.33	0.67	ND	202	21.1
10/1/2012	1.39	0.78	DNQ0.24	DNQ0.025	3.91	0.40	97.5	2.82	2.71	0.11	0.137	0.00127	8.16	5.36	1.66	0.37	0.57	ND	153	21.6
10/19/2012	n.a.	1.04	n.a.	ND	n.a.	0.40	n.a.	2.74	n.a.	0.19	n.a.	n.a.	n.a.	7.41	n.a.	n.a.	n.a.	ND	n.a.	23.9
10/20/2012	n.a.	1.09	n.a.	ND	n.a.	0.40	n.a.	2.49	n.a.	0.23	n.a.	n.a.	n.a.	8.55	n.a.	n.a.	n.a.	ND	n.a.	24.5
10/21/2012	n.a.	0.93	n.a.	ND	n.a.	0.43	n.a.	3.23	n.a.	0.15	n.a.	n.a.	n.a.	7.06	n.a.	n.a.	n.a.	ND	n.a.	23.7
11/7/2012	1.64	0.76	DNQ0.26	DNQ0.026	5.15	0.65	120	3.14	3.73	0.18	0.112	0.00130	8.44	5.84	1.70	0.58	0.79	ND	165	24.9
12/4/2012	2.07	1.41	DNQ0.21	ND	4.50	0.48	116	3.27	3.04	0.21	0.109	0.00162	8.62	6.01	1.34	0.57	0.75	ND	155	26.5
1/3/2013	2.12	1.04	DNQ0.25	ND	3.92	0.45	108	3.15	3.82	0.16	0.135	0.00163	8.57	4.52	1.62	0.55	0.58	DNQ0.016	162	22.2
2/4/2013	1.77	1.11	DNQ0.22	ND	3.78	0.42	117	4.85	2.67	0.17	0.103	0.00214	8.50	4.70	1.60	0.54	0.52	DNQ0.016	158	30.2
3/4/2013	1.64	1.10	DNQ0.18	DNQ0.024	4.05	0.59	104	5.52	7.47	0.28	n.a.	n.a.	20.0	6.15	n.a.	n.a.	0.62	DNQ0.036	153	28.3
3/5/2013	1.84	1.08	DNQ0.28	ND	5.05	0.58	117	5.16	5.33	2.62	0.0916	0.00176	10.1	7.76	1.91	0.50	0.79	DNQ0.009	172	27.9
3/6/2013	2.31	1.32	DNQ0.22	ND	4.95	0.62	114	5.30	4.79	0.78	n.a.	n.a.	10.3	7.19	n.a.	n.a.	0.65	DNQ0.038	174	30.8
4/5/2013	2.00	1.00	DNQ0.21	DNQ0.014	5.50	0.47	133	3.07	3.51	0.15	0.0951	0.00170	12.3	5.36	3.18	0.54	1.11	DNQ0.018	181	20.5
5/8/2013	2.25	0.94	DNQ0.23	ND	5.31	0.38	123	2.61	4.31	0.25	0.113	0.00137	10.4	5.07	1.37	0.41	0.66	DNQ0.007	176	19.0
6/3/2013	2.05	1.06	DNQ0.30	ND	5.17	0.39	153	2.36	3.76	DNQ0.12	0.0906	0.00117	10.8	6.39	1.63	0.52	0.99	DNQ0.021	213	20.0
7/2/2013	2.52	1.01	DNQ0.19	ND	6.63	0.40	121	2.12	3.69	0.35	0.136	0.00140	11.8	5.01	2.37	0.44	0.70	ND	206	20.6
8/8/2013	2.42	0.92	DNQ0.24	ND	6.16	0.60	97.7	2.35	2.91	0.34	0.0900	0.00120	13.0	5.88	1.80	0.39	0.68	DNQ0.069	162	21.0
9/4/2013	1.98	1.03	DNQ0.18	ND	5.26	0.52	116	1.99	3.40	0.62	0.132	0.00122	9.58	6.50	2.13	0.39	0.72	DNQ0.027	168	21.0
10/1/2013	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	144	2.30	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10/2/2013	1.98	1.24	DNQ0.18	ND	5.08	0.47	1060	2.29	35.2	0.40	0.118	0.00114	9.84	4.00	1.98	0.23	0.61	DNQ0.008	261	20.0
10/3/2013	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	220	2.78	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11/5/2013	2.09	0.84	DNQ0.26	ND	5.29	0.43	116	2.72	5.58	0.33	0.116	0.00119	8.86	3.70	1.58	0.45	0.95	DNQ0.010	181	20.5
12/5/2013	2.46	1.18	DNQ0.18	ND	5.92	0.48	102	2.28	2.18	0.13	0.0757	0.00110	9.10	4.50	1.66	0.56	1.37	DNQ0.022	144	21.6
1/7/2014	1.98	0.92	DNQ0.19	ND	5.02	0.51	110	3.52	1.95	0.10	0.0610	0.00138	6.84	3.42	2.32	0.61	0.68	DNQ0.017	168	19.6
2/3/2014	n.a.	1.05	n.a.	ND	n.a.	0.53	n.a.	4.08	n.a.	DNQ0.076	n.a.	n.a.	n.a.	5.68	n.a.	n.a.	n.a.	DNQ0.012	n.a.	23.0

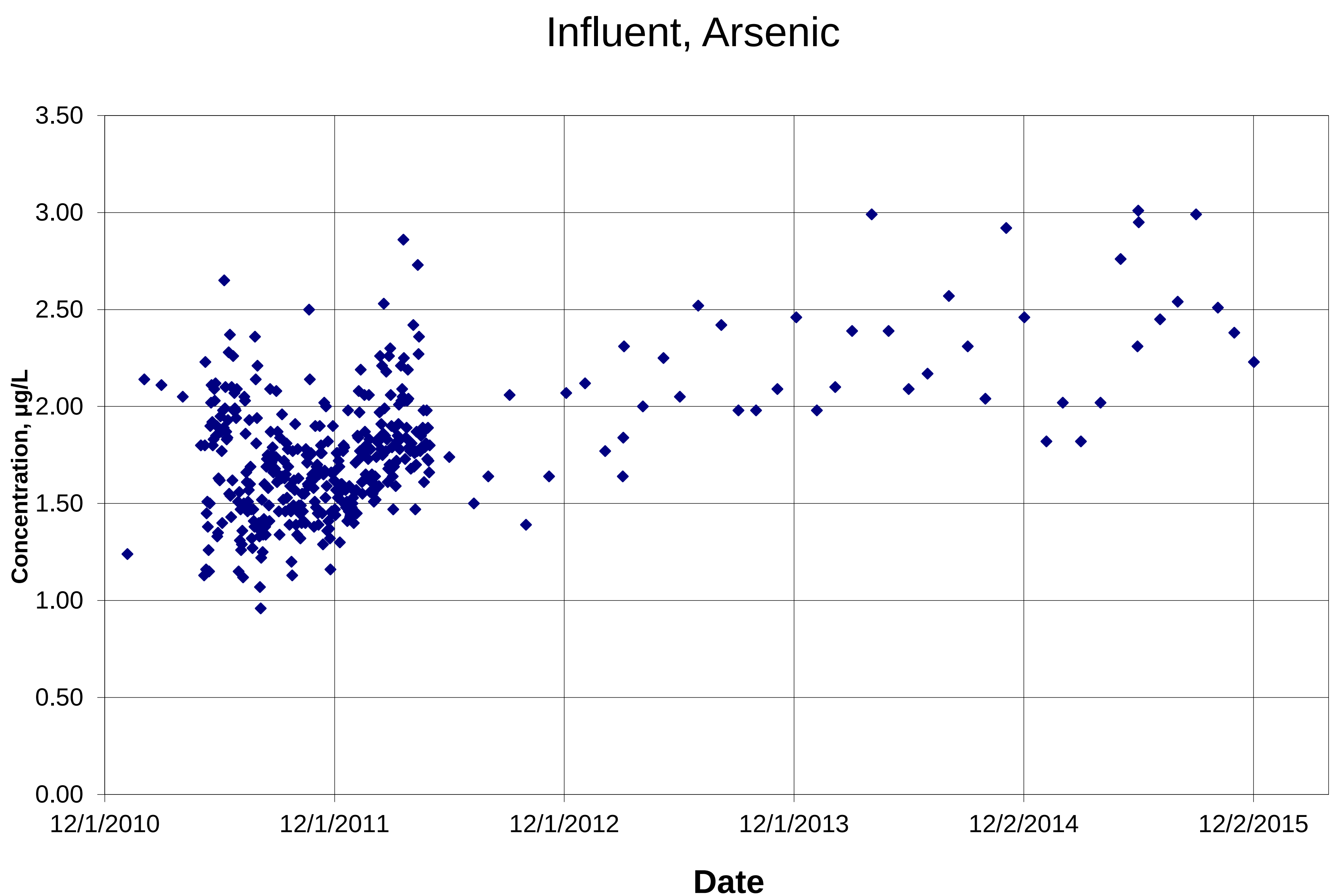
DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
2/5/2014	2.10	1.13	DNQ0.056	ND	6.61	0.48	120	2.76	2.29	DNQ0.087	0.104	0.00143	11.0	4.79	1.86	0.53	0.76	DNQ0.012	189	20.6
3/4/2014	2.39	1.20	DNQ0.14	ND	5.98	0.42	104	2.72	2.41	0.10	0.199	0.00123	10.4	5.53	1.83	0.58	1.24	DNQ0.012	173	17.1
4/4/2014	2.99	1.07	DNQ0.25	ND	9.05	0.46	187	2.27	4.95	0.38	0.0783	0.00106	13.3	5.08	1.77	0.50	1.05	ND	239	18.2
5/1/2014	2.39	1.42	DNQ0.26	ND	6.59	0.47	136	2.32	2.61	DNQ0.095	0.159	0.00170	9.53	4.38	2.27	0.64	0.97	ND	196	21.3
6/2/2014	2.09	0.90	DNQ0.22	ND	5.07	0.44	123	1.77	3.62	0.14	0.0927	0.00120	7.89	3.81	2.00	0.69	0.54	DNQ0.030	175	16.9
7/2/2014	2.17	1.26	DNQ0.19	ND	5.79	0.55	119	1.88	2.77	0.20	0.112	0.00090	10.2	5.53	2.38	0.51	0.52	ND	172	20.5
8/5/2014	2.57	1.05	DNQ0.16	ND	5.55	0.52	194	1.77	2.99	0.13	0.0710	0.00073	11.5	6.75	1.88	0.43	0.65	DNQ0.025	180	19.0
9/4/2014	2.31	1.38	DNQ0.16	ND	5.47	0.47	132	2.46	2.23	DNQ0.060	0.0640	0.00074	8.62	5.34	1.36	0.36	0.85	DNQ0.015	180	18.9
10/2/2014	2.04	1.09	DNQ0.17	ND	5.73	0.50	98.8	1.80	2.13	0.11	0.1060	0.00081	10.20	5.52	2.46	0.38	0.64	DNQ0.016	163	17.6
11/4/2014	2.92	1.01	DNQ0.16	ND	5.83	0.61	106	1.87	2.50	0.18	0.0556	0.00088	10.00	4.8	2.15	0.37	0.64	ND	186	17.9
12/3/2014	2.46	1.49	DNQ0.16	ND	7.55	0.68	97.5	2.52	3.47	DNQ0.093	0.1350	0.00101	12.10	5.01	1.90	0.44	1.20	DNQ0.017	186	22.1
1/7/2015	1.82	0.95	DNQ0.12	ND	5.31	0.43	112	2.09	2.75	0.11	0.134	0.00110	8.36	4.82	2.27	0.50	0.76	DNQ0.010	187	27.2
1/14/2015	n.a.	1.23	n.a.	ND	n.a.	0.48	n.a.	3.20	n.a.	0.29	n.a.	n.a.	n.a.	6.36	n.a.	n.a.	n.a.	DNQ0.009	n.a.	18.9
2/2/2015	2.02	1.10	DNQ0.093	ND	5.83	0.70	124	3.48	5.24	0.12	0.125	0.00111	8.59	4.99	2.76	0.65	0.64	DNQ0.023	203	21.4
3/3/2015	1.82	1.08	ND	ND	5.53	0.64	94.0	3.44	4.29	0.29	0.109	0.00131	9.91	6.47	2.36	0.55	0.79	DNQ0.015	165	16.0
4/2/2015	2.02	1.38	DNQ0.32	ND	5.68	0.58	125	3.36	2.79	0.14	0.0978	0.00109	8.56	5.09	2.70	0.70	0.57	DNQ0.011	183	19.3
5/4/2015	2.76	1.54	DNQ0.33	ND	5.48	0.52	136	2.68	3.42	DNQ0.083	0.0847	0.00122	15.2	6.35	2.12	0.58	0.80	DNQ0.015	173	19.6
6/1/2015	2.31	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.75	n.a.	n.a.	n.a.
6/2/2015	3.01	1.46	DNQ0.24	ND	5.66	0.50	137	2.94	2.76	0.12	0.106	0.00114	11.2	5.57	1.83	0.43	2.39	DNQ0.014	191	17.5
6/3/2015	2.95	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.97	n.a.	n.a.	n.a.
7/7/2015	2.45	1.62	DNQ0.34	DNQ0.038	8.03	0.56	162	2.43	2.64	DNQ0.092	0.120	0.00100	11.2	5.81	1.55	0.35	0.90	DNQ0.007	201	20.1
8/4/2015	2.54	1.79	DNQ0.27	ND	5.68	0.53	136	2.77	2.82	0.12	0.0826	0.00090	9.69	5.14	1.74	0.33	0.86	DNQ0.010	209	22.1
9/2/2015	2.99	1.60	DNQ0.30	ND	6.17	0.6	156	2.28	3.69	DNQ0.086	0.137	0.00080	10.9	6.00	2.12	0.41	0.76	DNQ0.006	215	28.2
10/7/2015	2.51	1.88	DNQ0.20	ND	5.85	0.67	149	2.46	2.64	DNQ0.081	0.0802	0.00086	9.01	5.16	1.68	0.41	0.94	DNQ0.007	175	20.8
11/2/2015	2.38	1.42	DNQ0.36	ND	5.97	0.64	130	2.49	4.21	0.10	0.100	0.00128	24.0	5.28	1.83	0.39	0.58	DNQ0.008	204	18.0
12/3/2015	2.23	1.35	DNQ0.23	ND	4.24	0.53	166	3.11	2.94	0.27	0.0944	0.00175	16.6	5.40	1.63	0.40	0.57	DNQ0.017	181	20.3

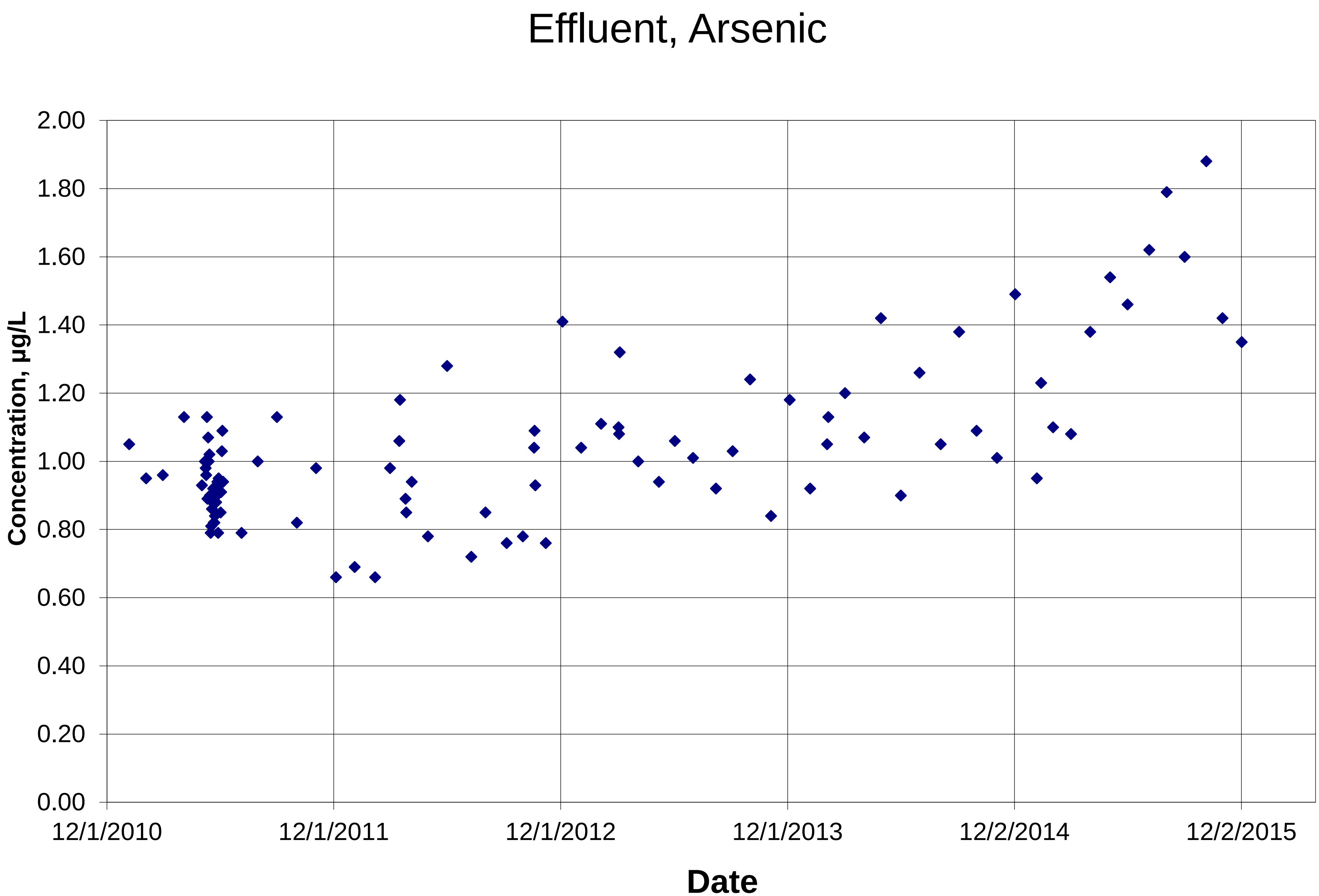
DATE	Cyanide (Influent) µg/L	Cyanide (Effluent) µg/L
1/6/2011	DNQ0.6	DNQ2.8
2/2/2011	DNQ0.4	DNQ2.7
3/1/2011	DNQ1.0	DNQ2.0
4/4/2011	ND	ND
5/3/2011	DNQ0.7	DNQ2.1
6/1/2011	DNQ0.7	DNQ1.7
7/6/2011	DNQ0.9	DNQ2.8
8/1/2011	DNQ0.6	DNQ1.8
9/1/2011	DNQ0.67	DNQ1.5
10/3/2011	ND	DNQ1.5
11/3/2011	DNQ0.8	DNQ2.2
12/5/2011	DNQ1.4	DNQ1.8
1/4/2012	DNQ0.9	DNQ1.9
2/6/2012	DNQ0.9	DNQ2.4
3/1/2012	DNQ1.1	7.2
3/14/2012	DNQ0.6	DNQ1.4
3/15/2012	DNQ0.5	DNQ1.9
3/16/2012	DNQ0.8	DNQ2.0
4/5/2012	DNQ0.8	DNQ2.3
5/1/2012	ND	DNQ1.5
6/1/2012	DNQ0.5	DNQ0.6
7/10/2012	ND	DNQ0.9
8/2/2012	ND	DNQ1.4
9/5/2012	DNQ1.6	DNQ0.4
10/1/2012	DNQ0.6	DNQ0.8
11/7/2012	DNQ0.7	DNQ2.2
12/4/2012	DNQ1.2	3.0
1/3/2013	DNQ0.4	DNQ2.1
2/4/2013	DNQ0.4	DNQ1.6
3/5/2013	ND	DNQ0.6
4/5/2013	DNQ0.8	DNQ1.8
5/8/2013	ND	DNQ1.5
6/3/2013	DNQ0.5	DNQ1.8
7/2/2013	ND	DNQ1.7
8/8/2013	DNQ1.2	DNQ2.1
9/4/2013	DNQ0.6	DNQ2.0
10/2/2013	ND	DNQ0.9
11/5/2013	ND	DNQ1.1

DATE	Cyanide (Influent) µg/L	Cyanide (Effluent) µg/L
12/5/2013	DNQ1.6	DNQ1.8
1/7/2014	ND	DNQ1.9
2/5/2014	DNQ1.2	DNQ2.1
3/4/2014	DNQ1.8	DNQ2.2
4/4/2014	DNQ1.6	DNQ1.4
5/1/2014	DNQ1.5	DNQ1.6
6/2/2014	DNQ1.7	DNQ2.0
7/2/2014	DNQ1.7	DNQ2.1
8/5/2014	DNQ2.2	DNQ2.0
9/4/2014	DNQ1.6	DNQ2.4
10/2/2014	DNQ0.7	DNQ1.9
11/4/2014	DNQ0.9	DNQ1.3
12/3/2014	DNQ2.2	n.a.
12/22/2014	DNQ1.2	DNQ0.8
1/7/2015	DNQ1.5	DNQ0.9
2/2/2015	DNQ1.2	DNQ0.7
3/3/2015	DNQ1.5	DNQ1.2
4/2/2015	DNQ1.8	DNQ0.96
5/4/2015	DNQ2.1	DNQ1.1
6/2/2015	4.2	DNQ1.1
6/11/2015	DNQ1.4	DNQ1.0
7/7/2015	DNQ1.4	DNQ1.2
8/4/2015	DNQ1.7	DNQ0.91
9/2/2015	DNQ1.0	DNQ1.9
10/7/2015	DNQ2.1	DNQ1.0
11/2/2015	DNQ2.3	DNQ1.5
12/3/2015	DNQ1.2	DNQ0.36

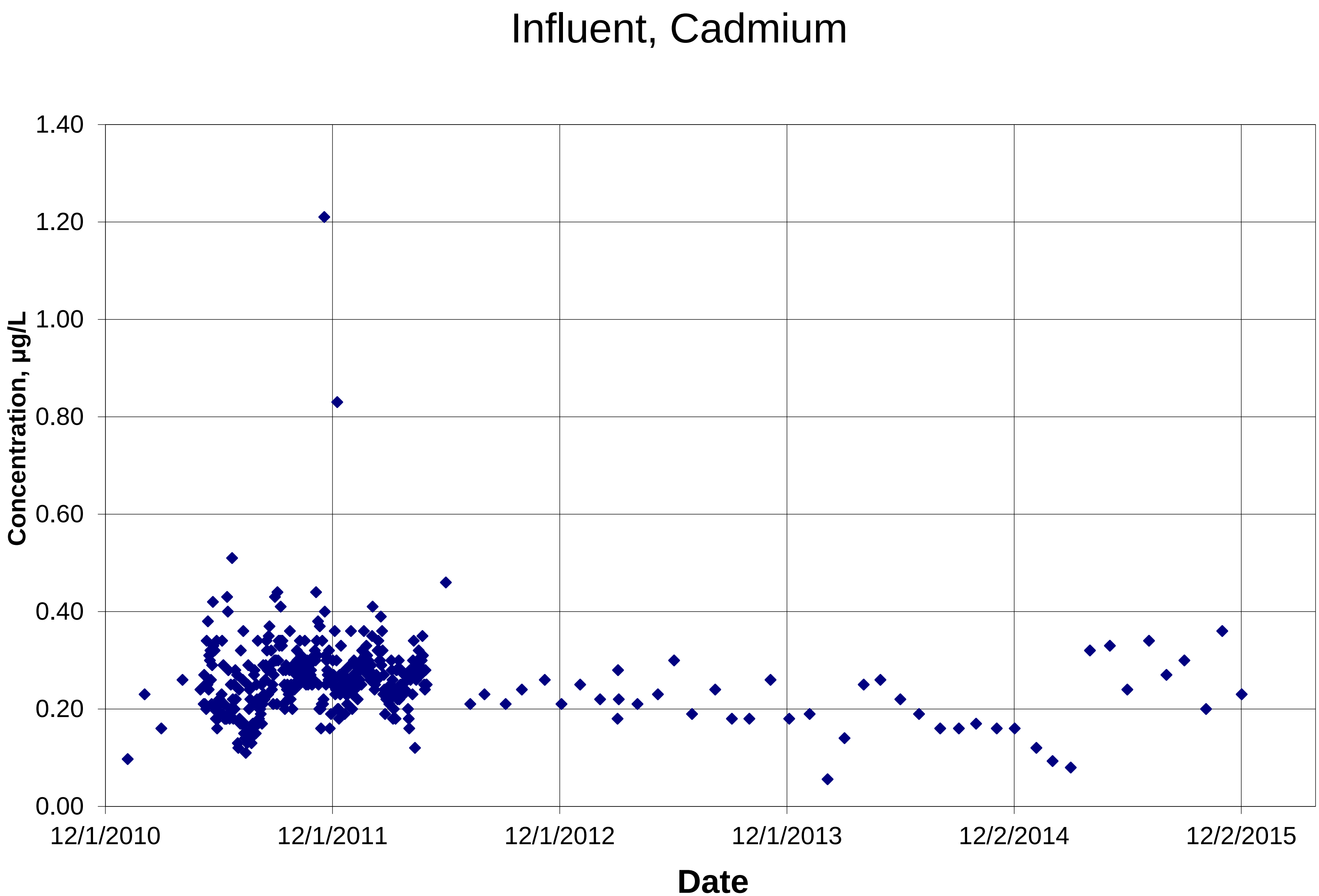
Appendix II

5-years Influent and Effluent Graphs for Metals

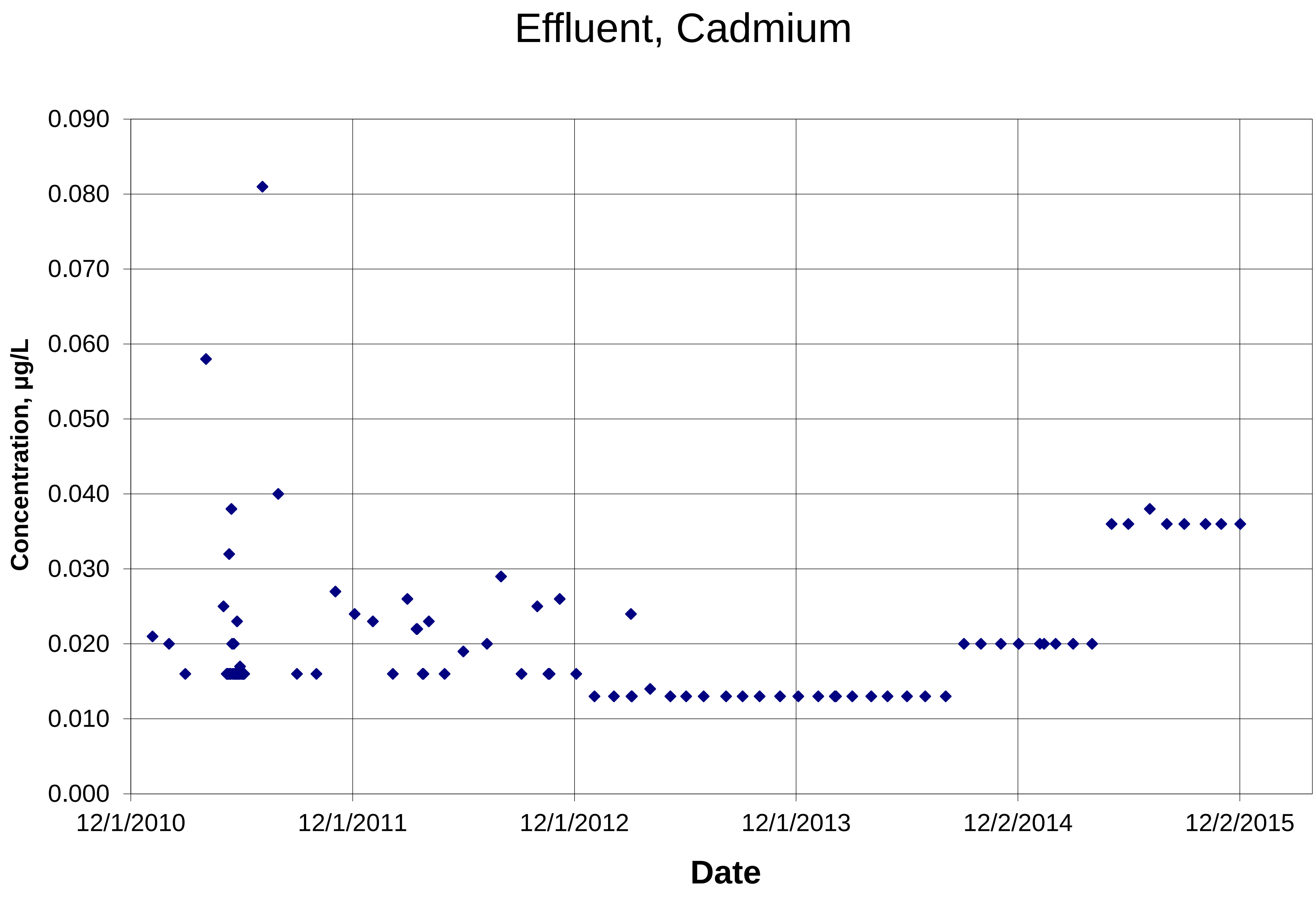

Influent, Arsenic
Concentration, µg/L
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date



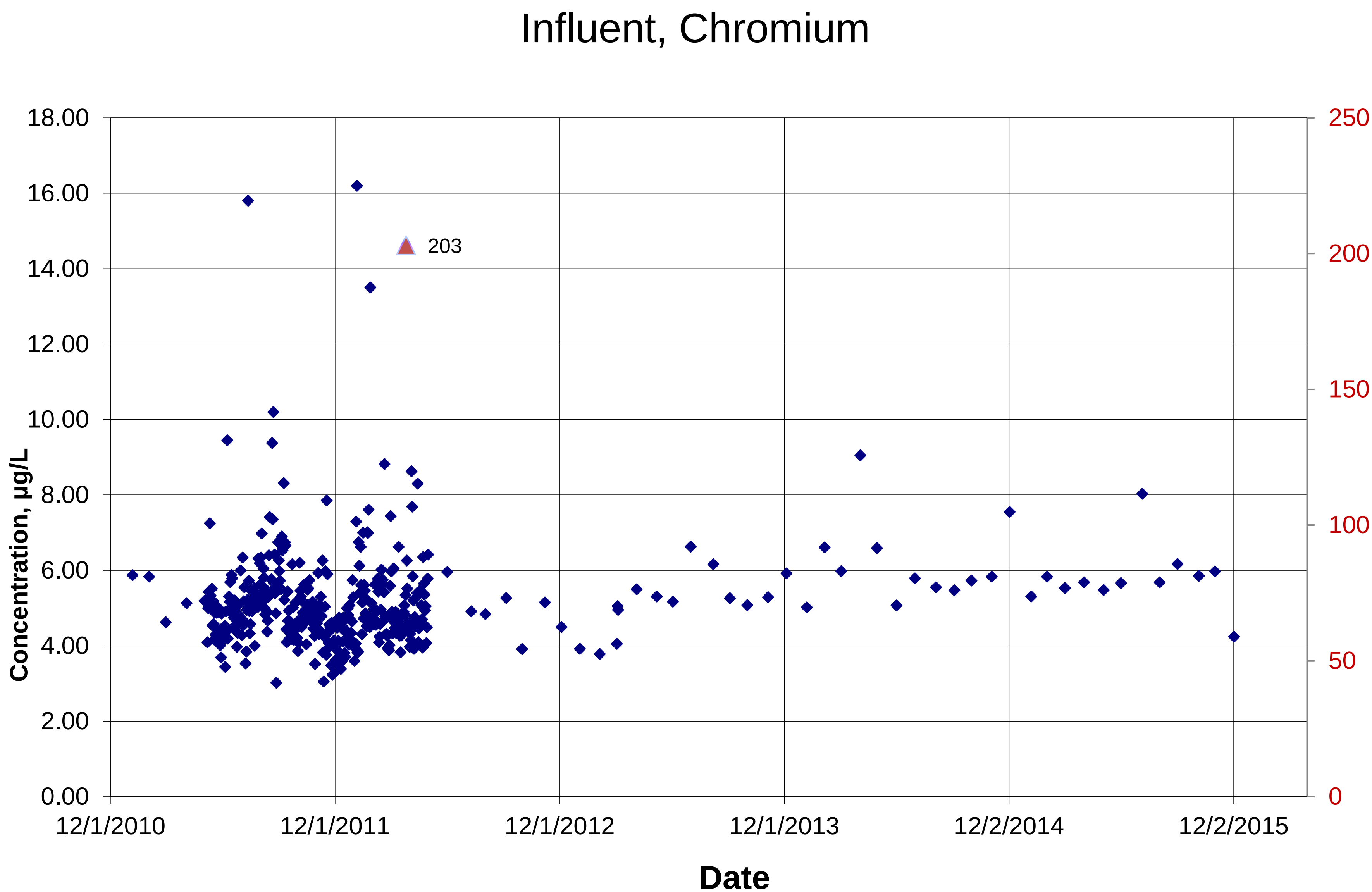
Effluent, Arsenic
Concentration, µg/L
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date



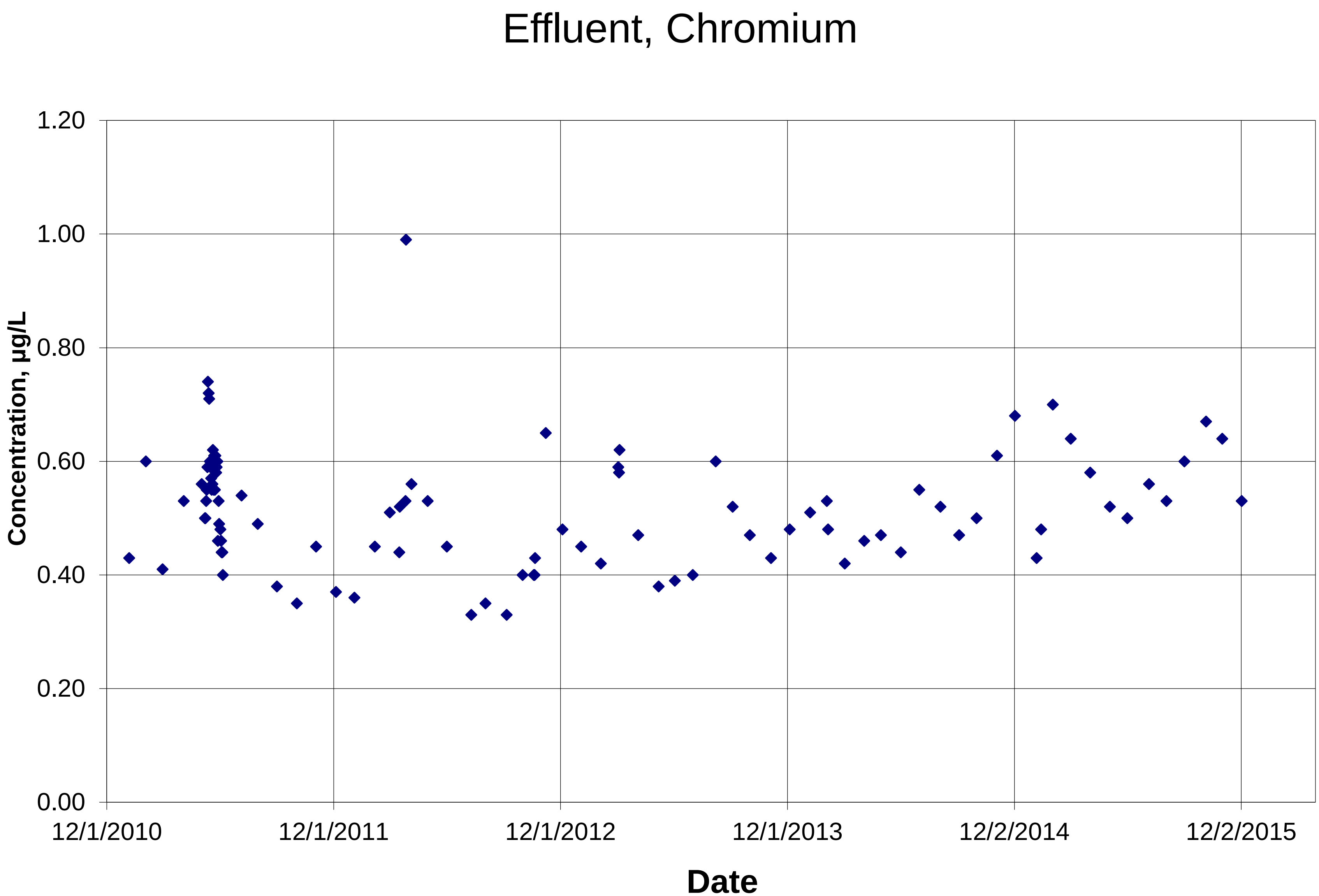
Influent, Cadmium
Concentration, µg/L
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

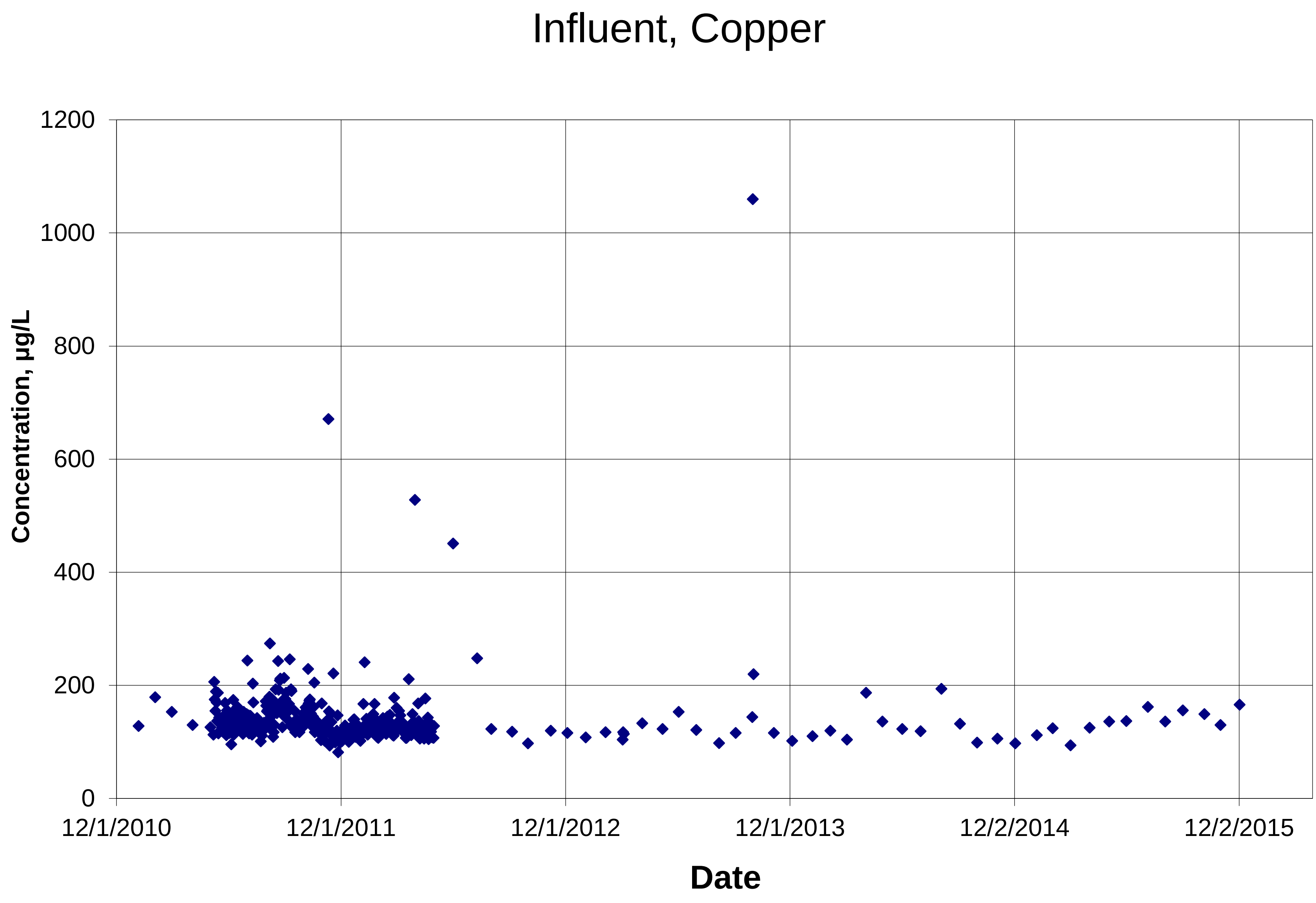


Effluent, Cadmium
Concentration, µg/L
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

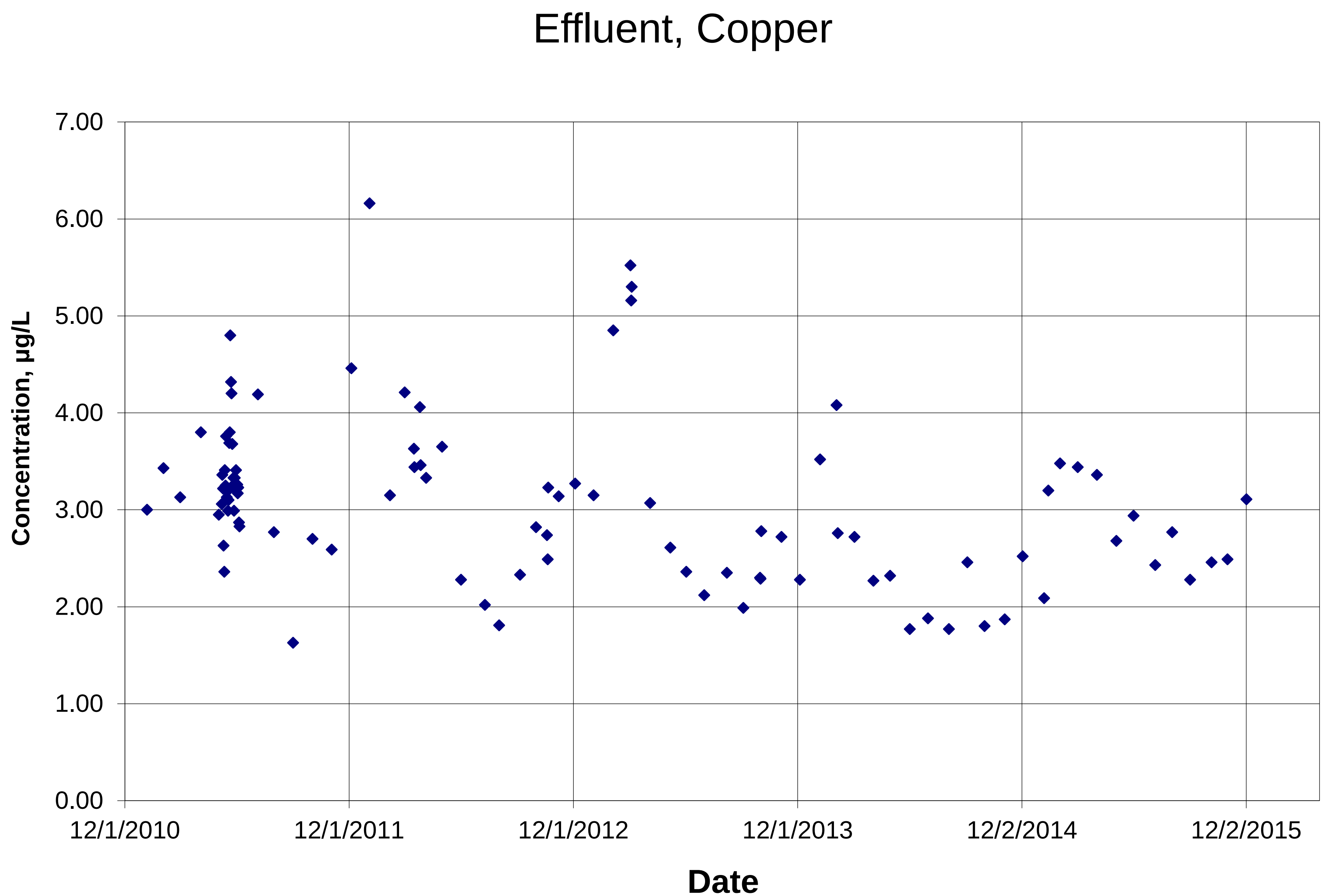


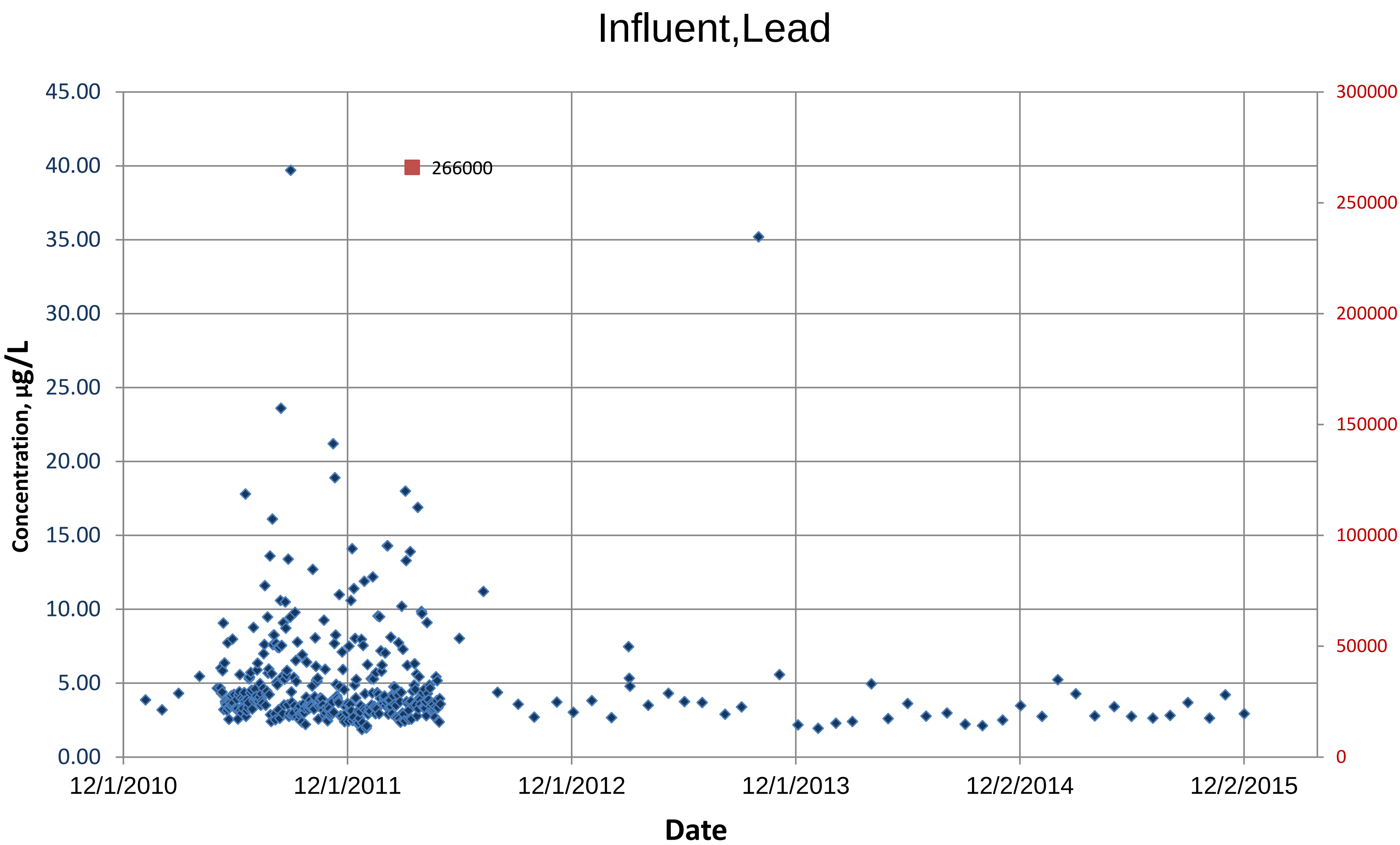
Influent, Chromium
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
250
200
150
100
50
0
203
Concentration, µg/L
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date


Effluent, Chromium
Concentration, µg/L
1.20
1.00
0.80
0.60
0.40
0.20
0.00
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

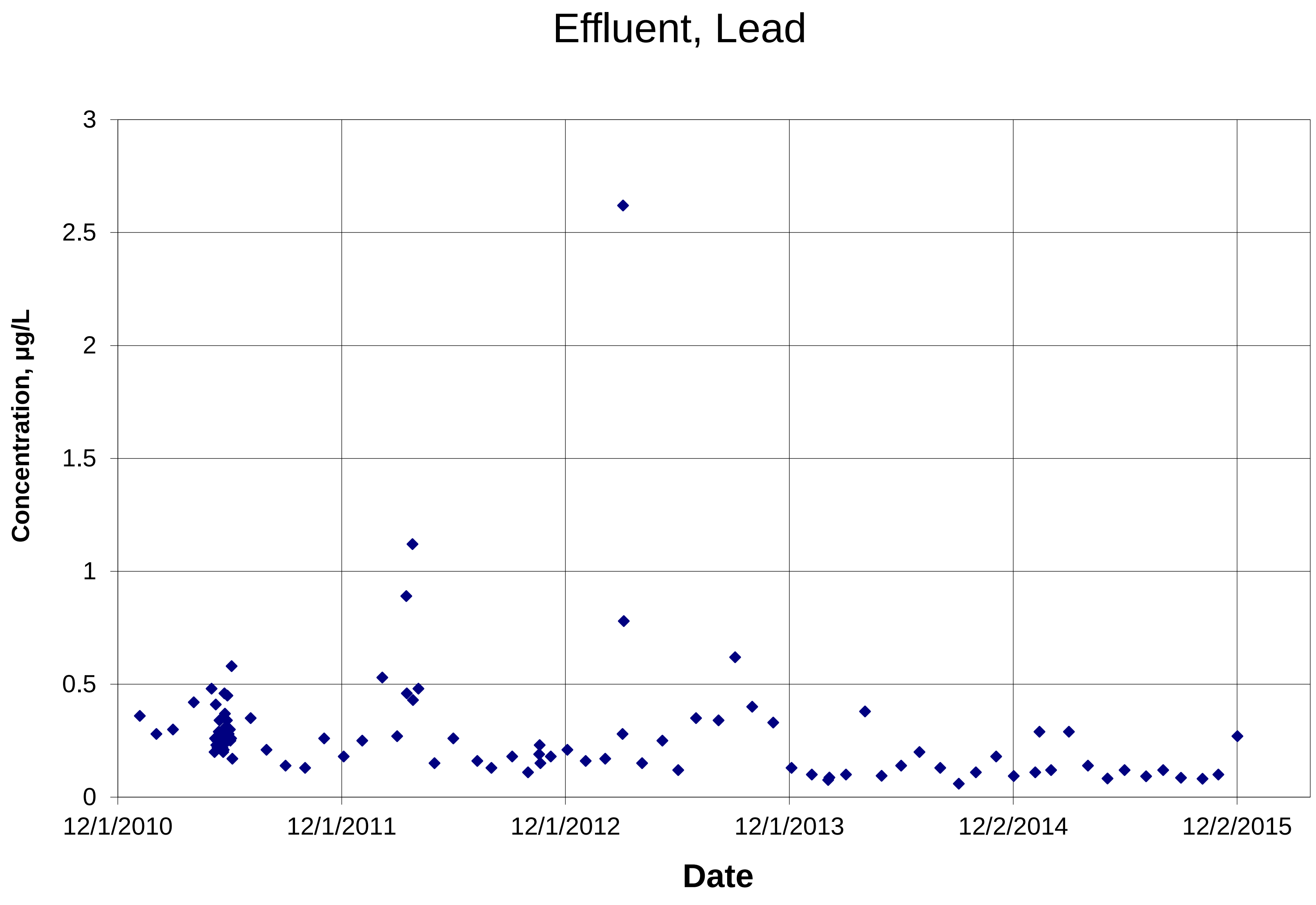


Influent, Copper
1200
1000
800
600
400
200
0
Concentration, µg/L
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

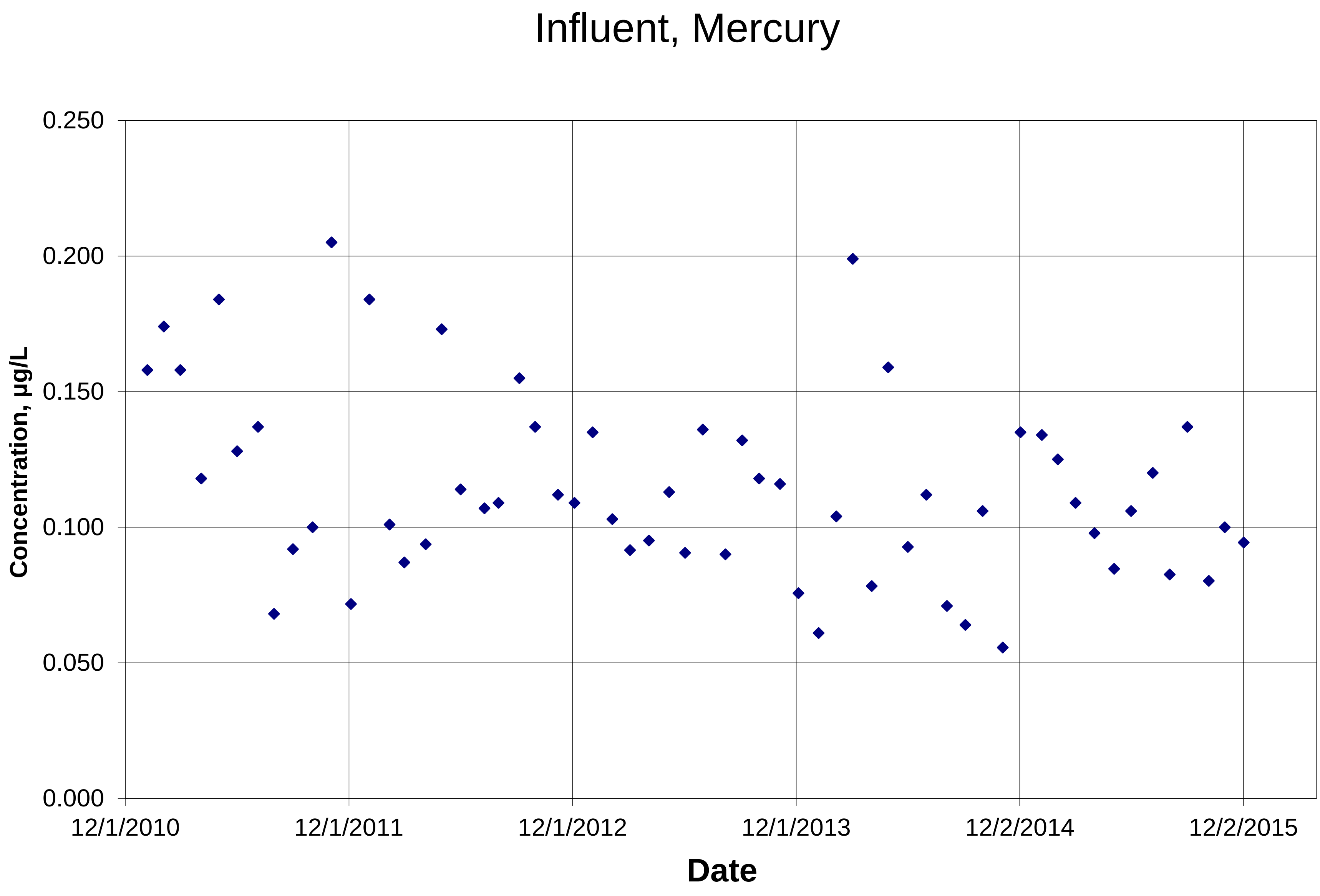

Effluent, Copper
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Concentration, µg/L
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date



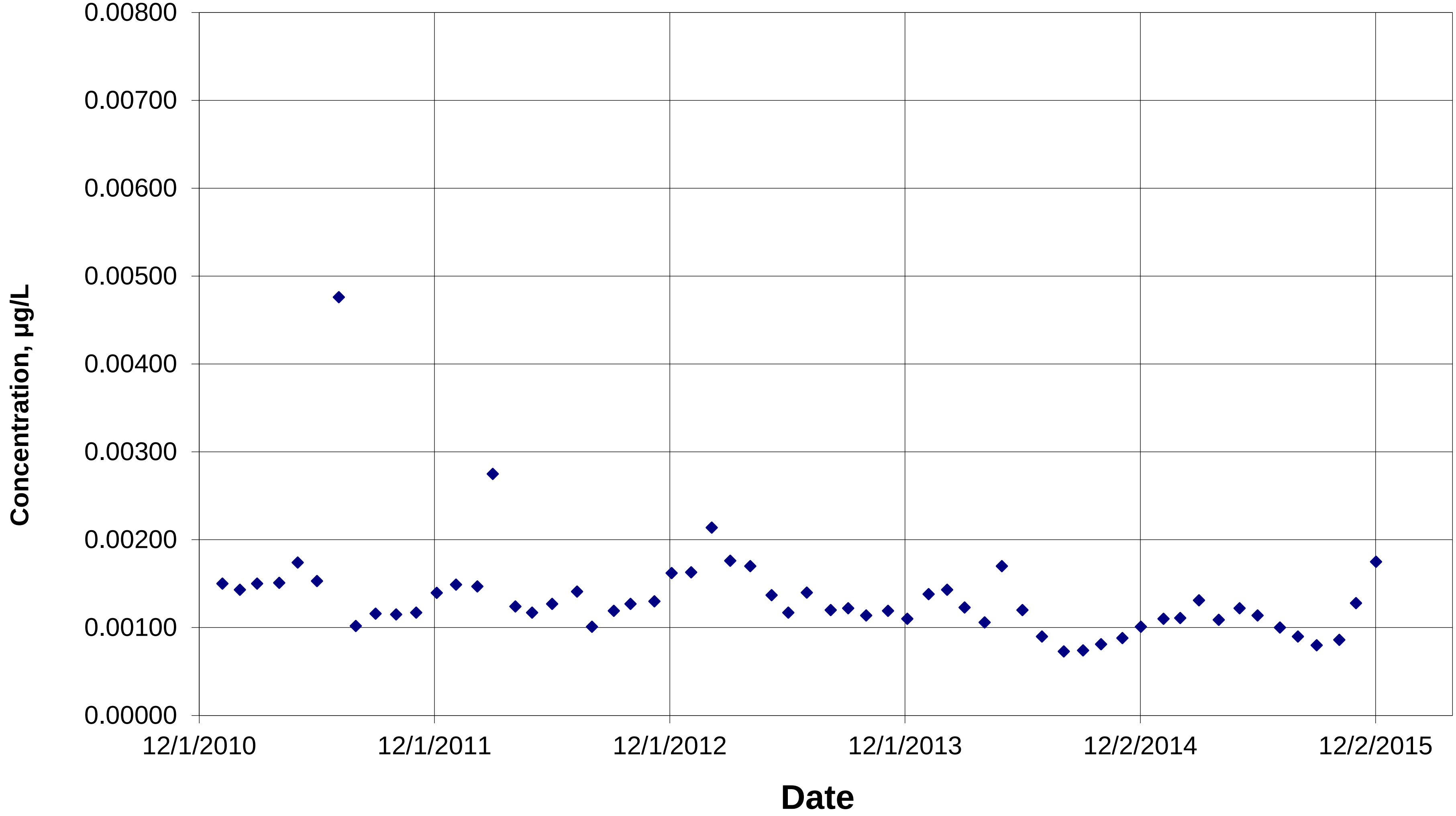
Influent,Lead
Concentration, µg/L
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
300000
250000
200000
150000
100000
50000
0
266000
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

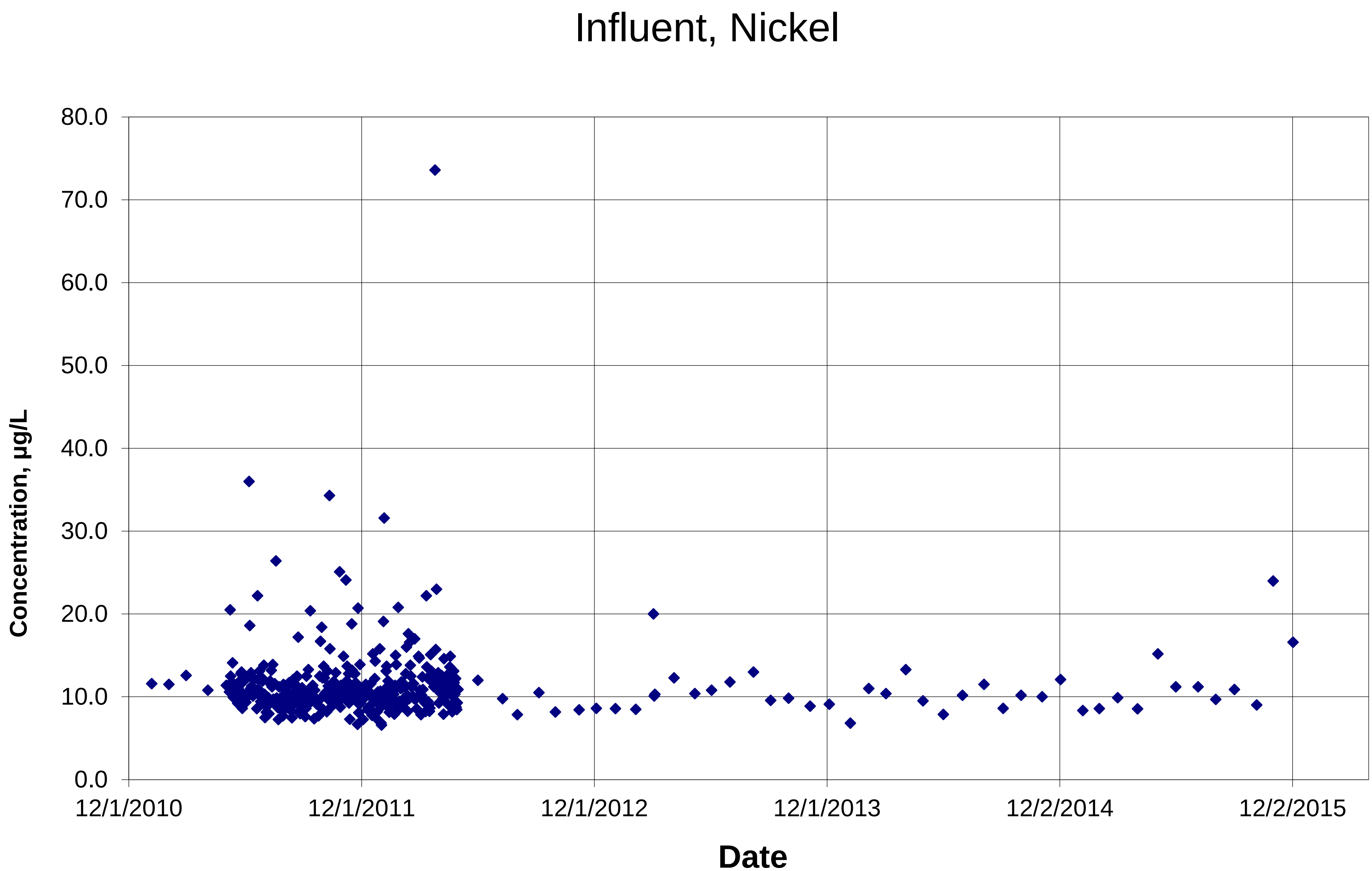


Effluent, Lead
Concentration, µg/L
3
2.5
2
1.5
1
0.5
0
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

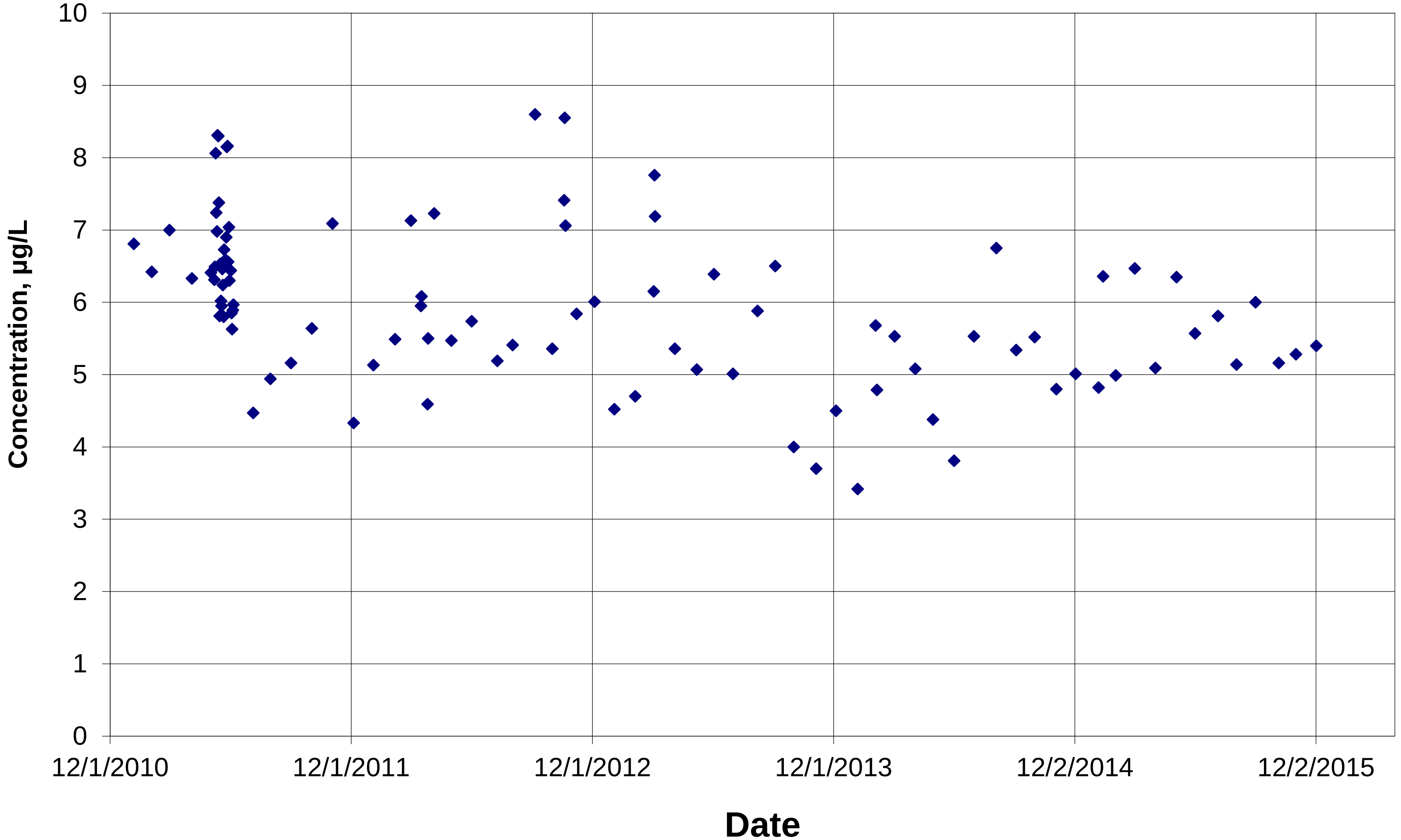

Influent, Mercury
Concentration, µg/L
0.250
0.200
0.150
0.100
0.050
0.000
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

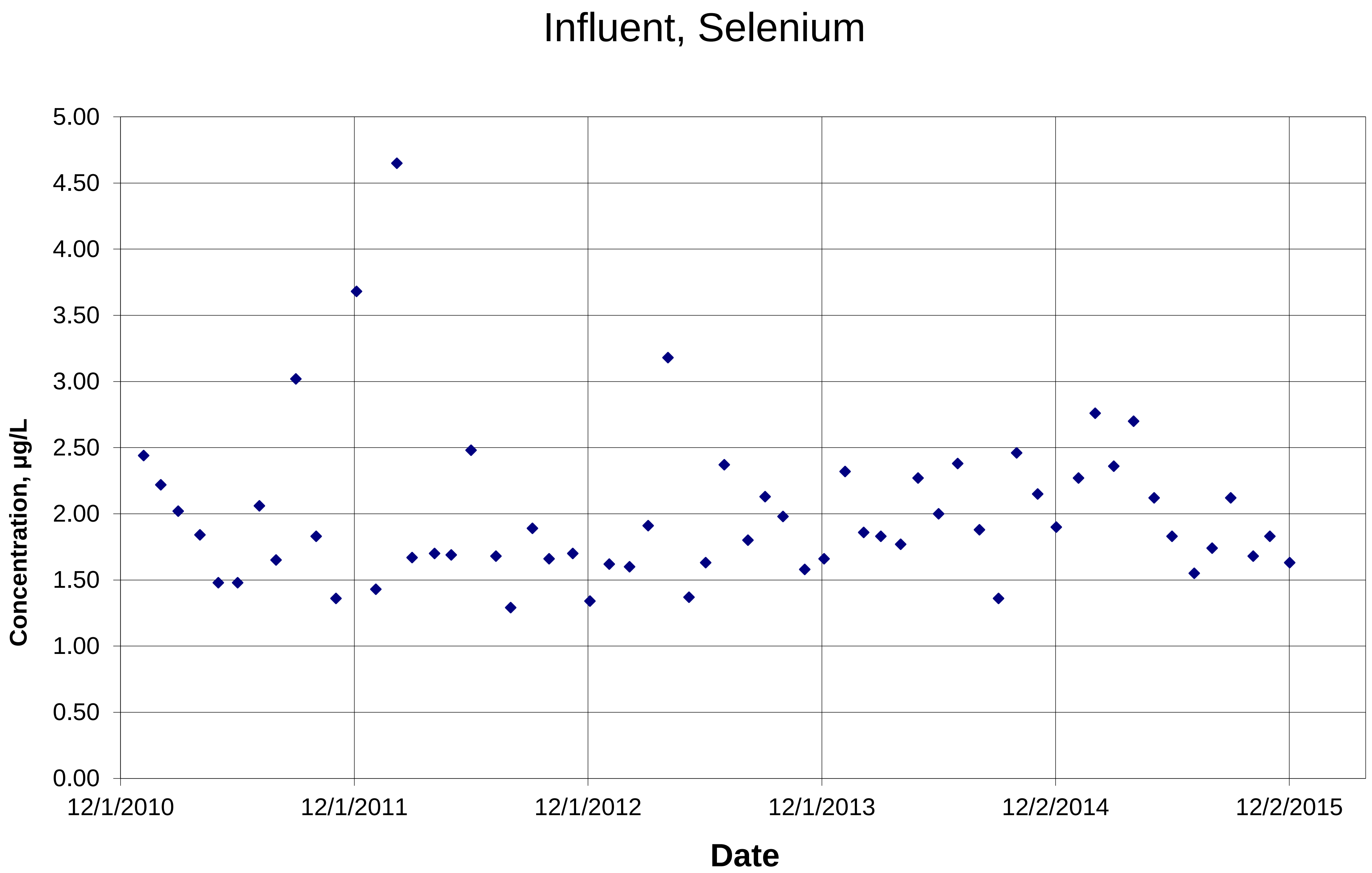
Effluent, Mercury




Influent, Nickel
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Concentration, µg/L
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

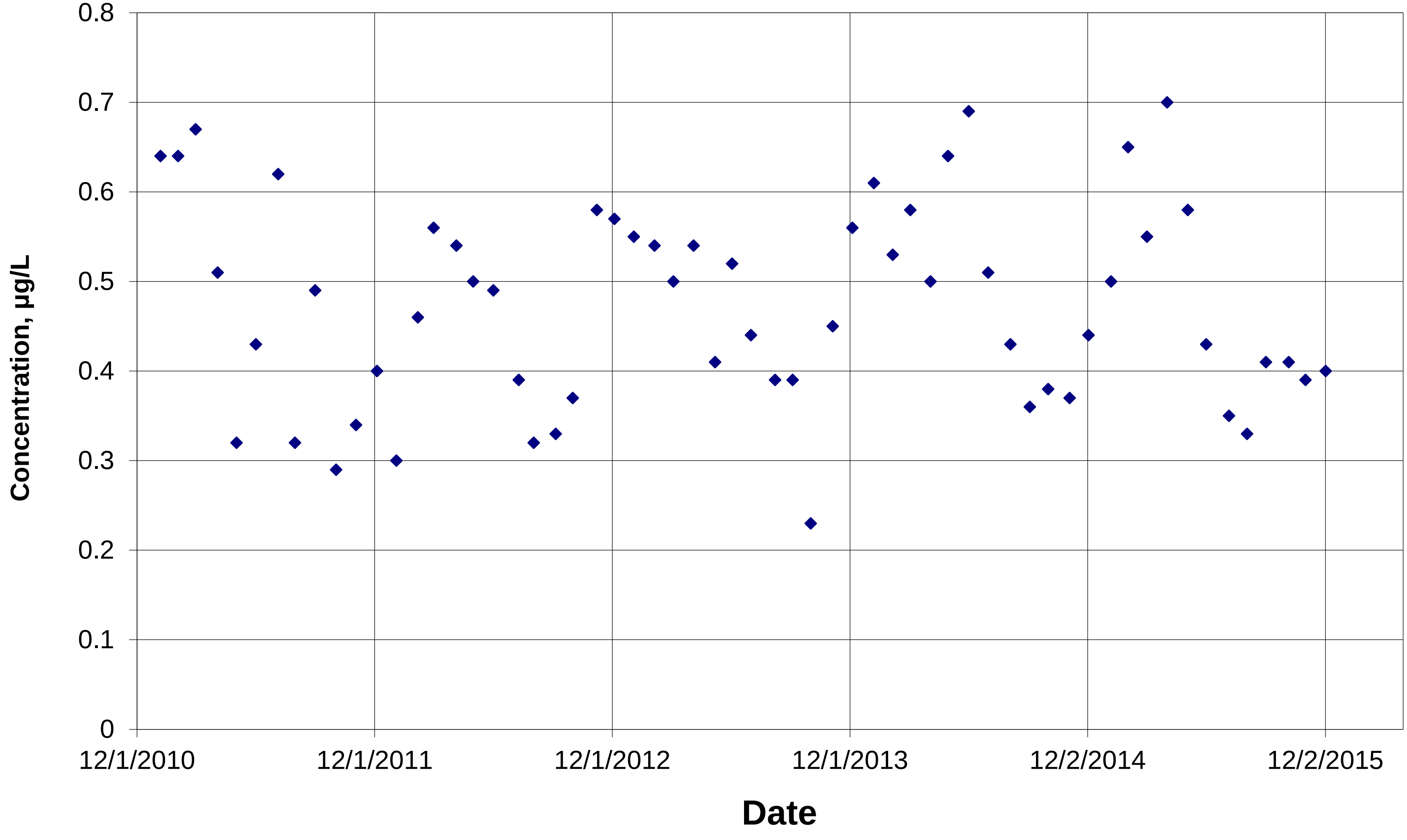
Effluent, Nickel

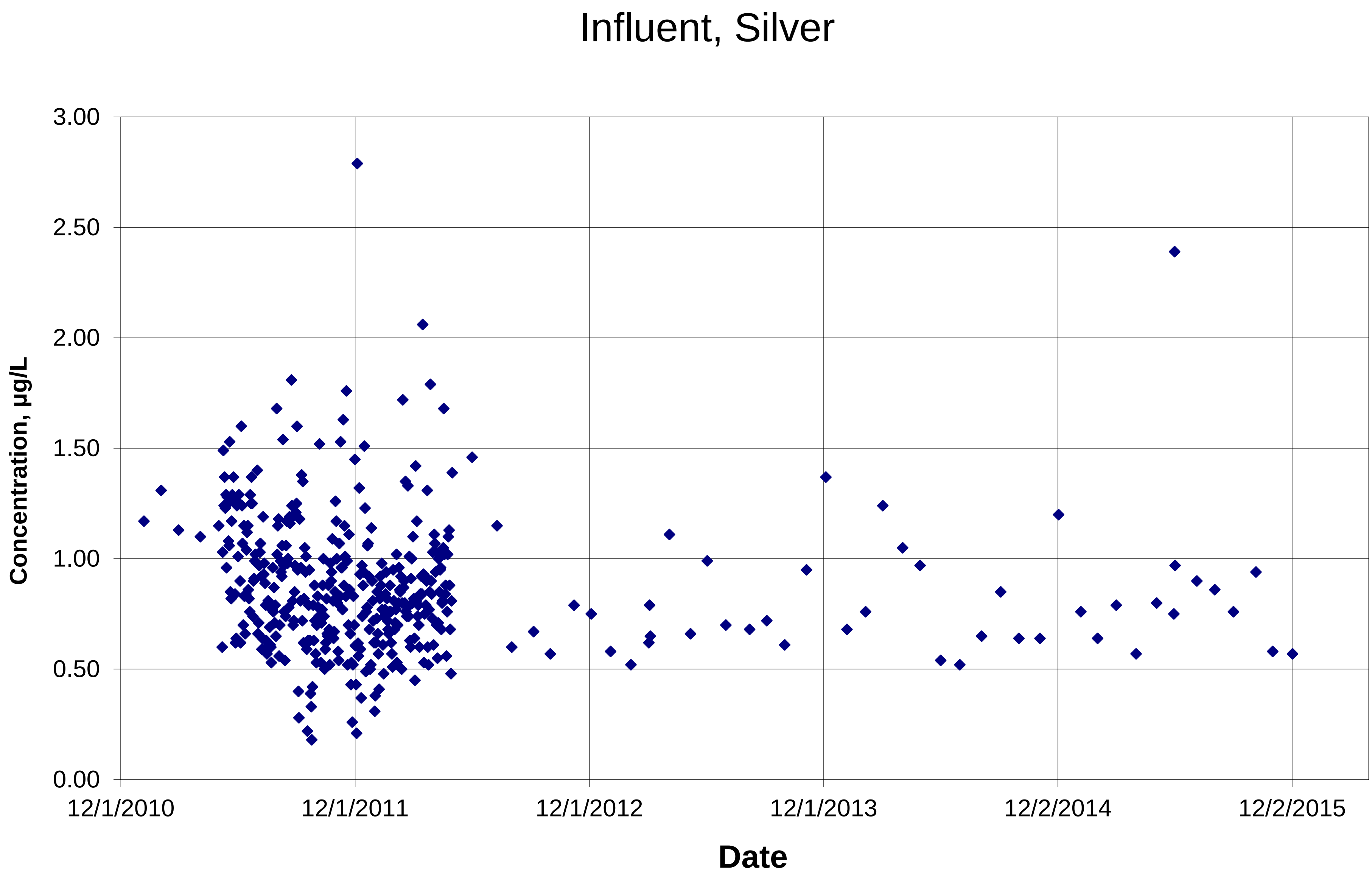




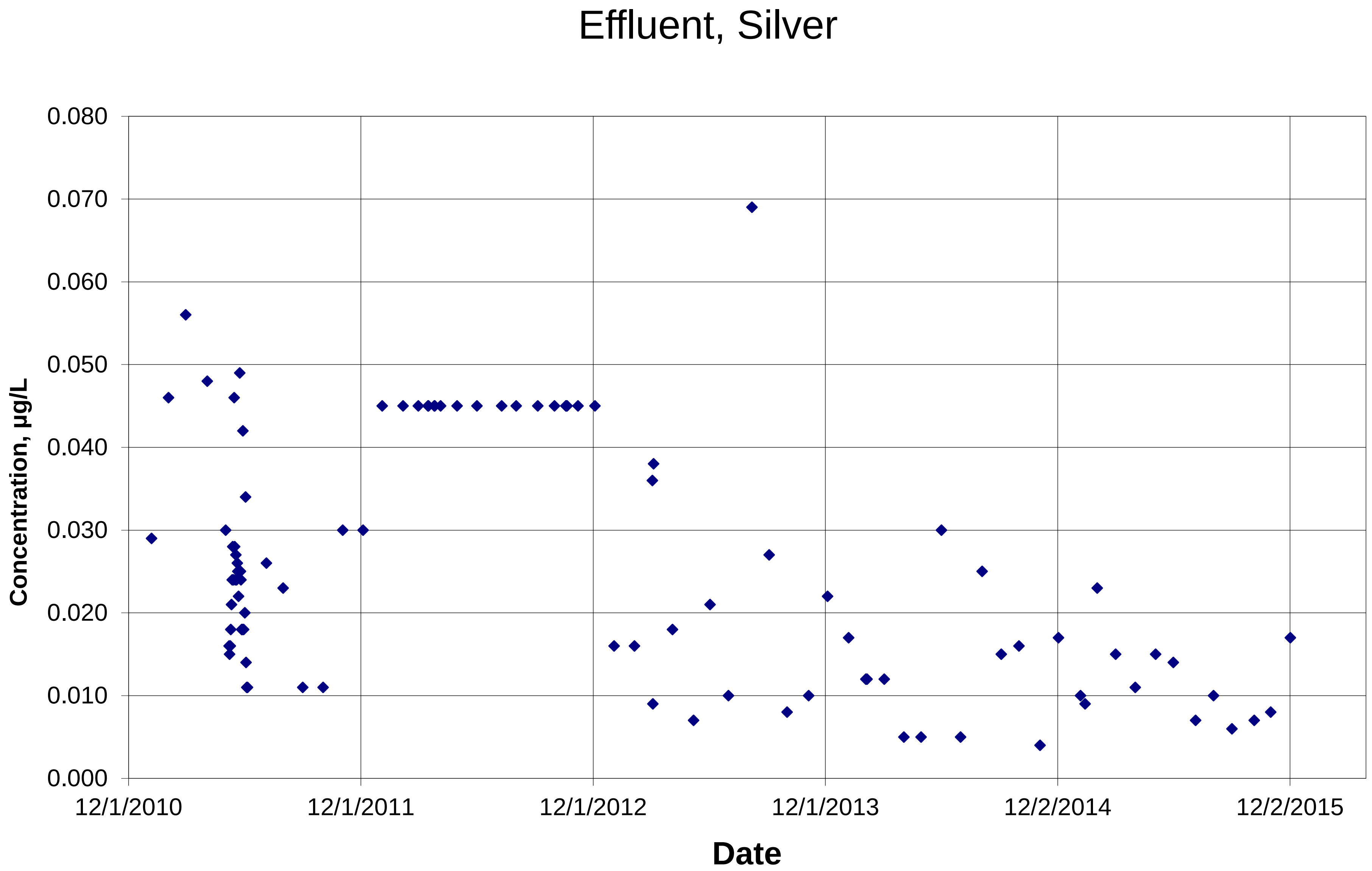
Influent, Selenium
Concentration, µg/L
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

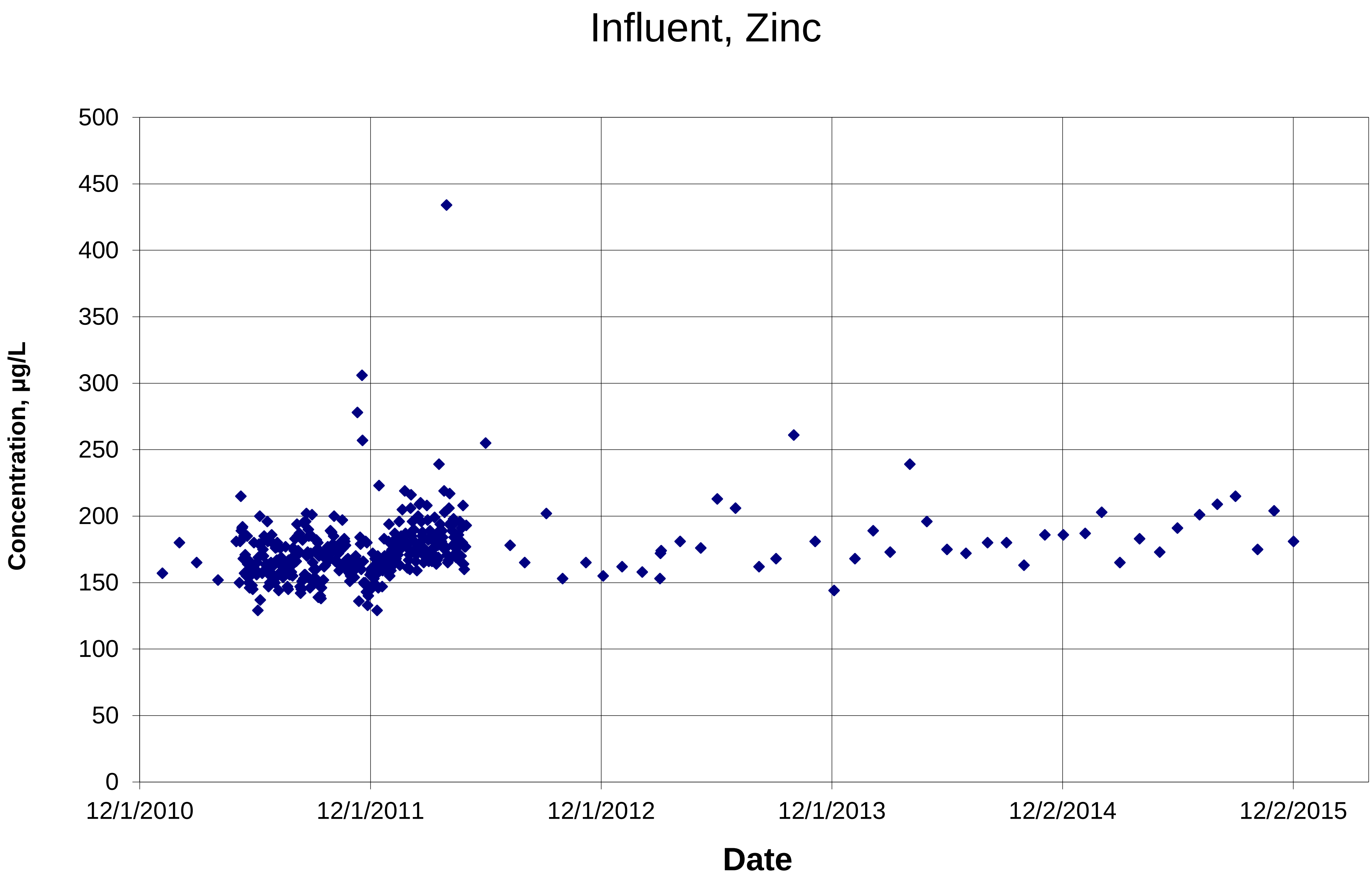
Effluent, Selenium

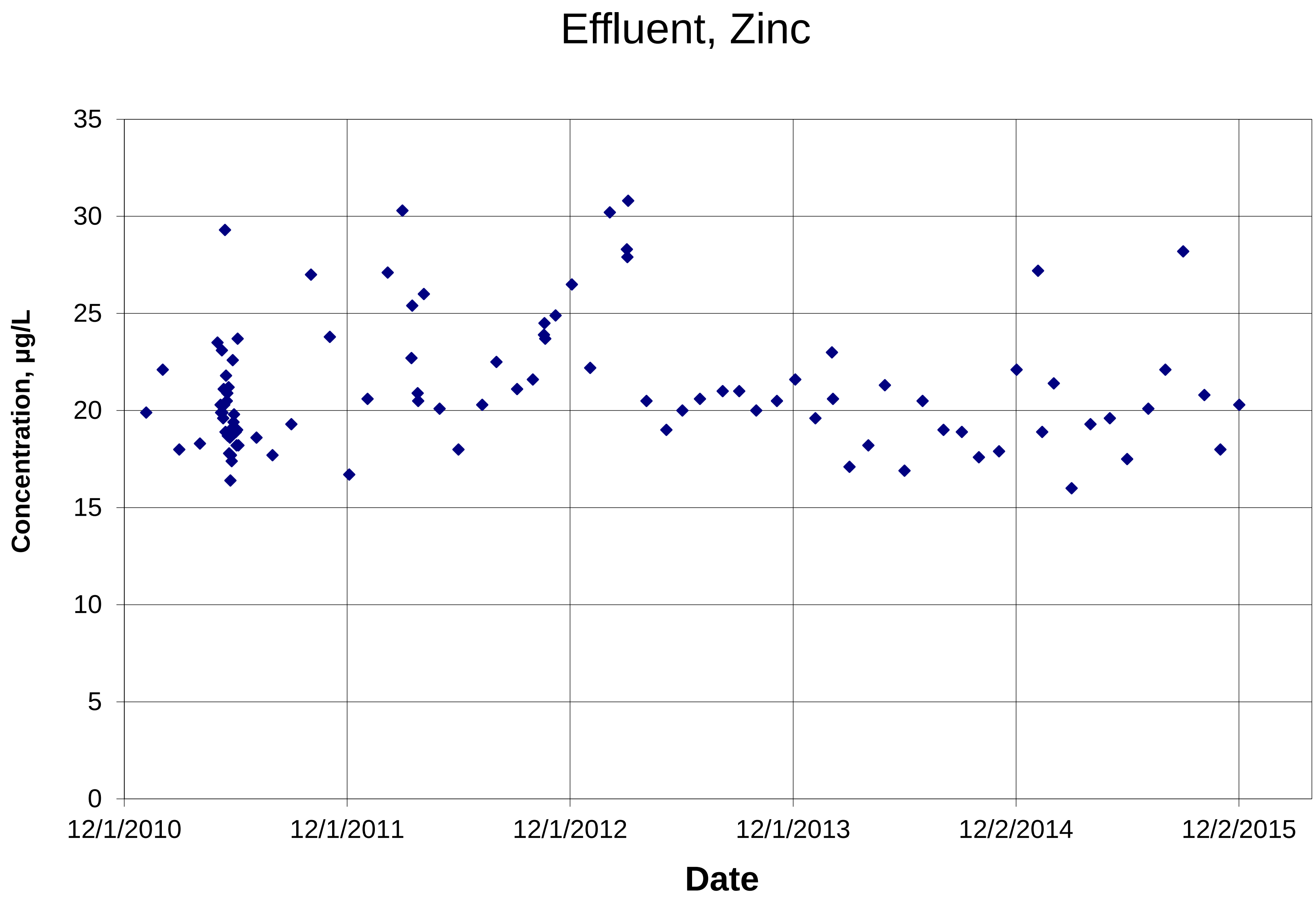


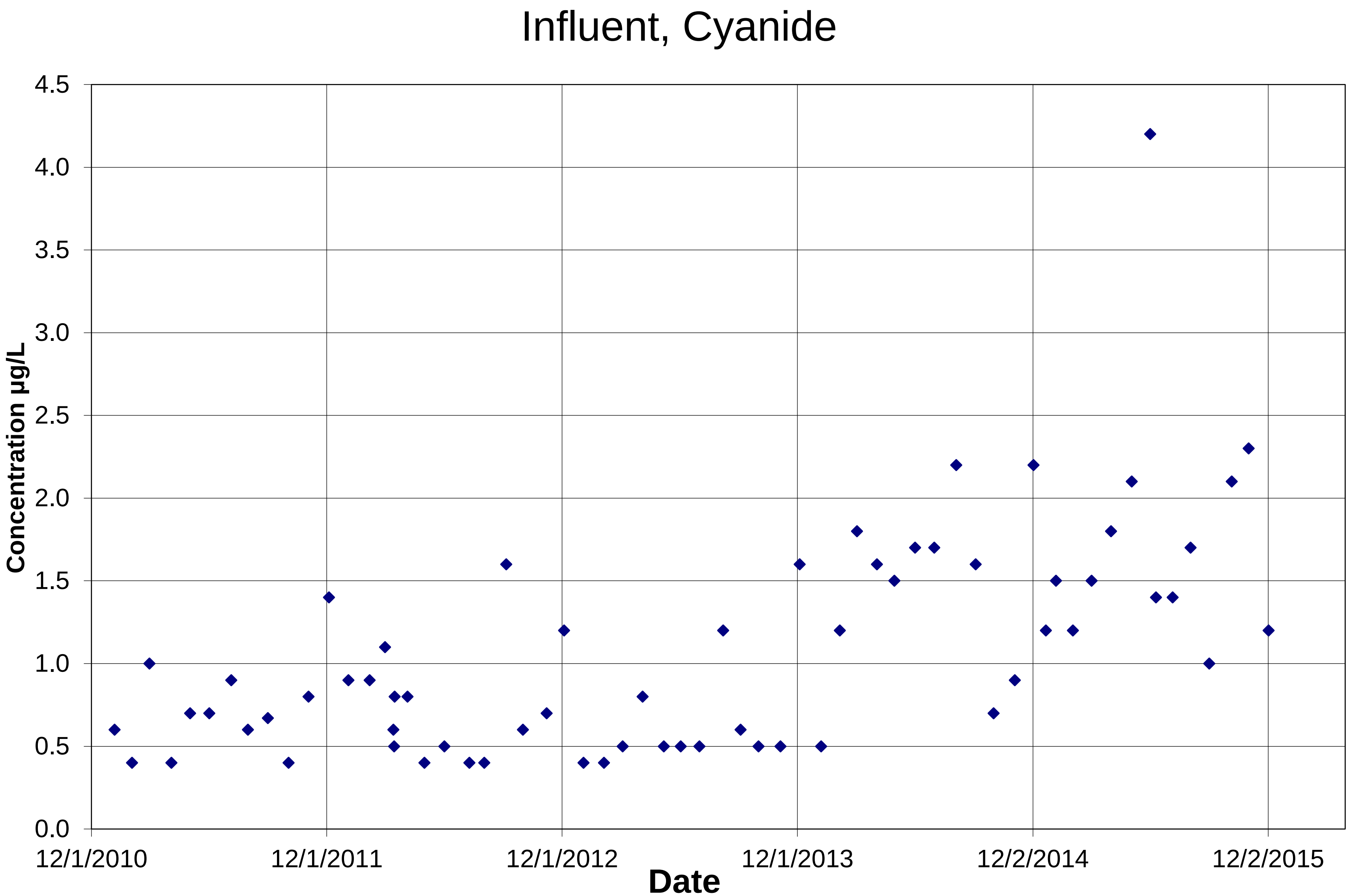


Influent, Silver
Concentration, µg/L
3.00
2.50
2.00
1.50
1.00
0.50
0.00
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

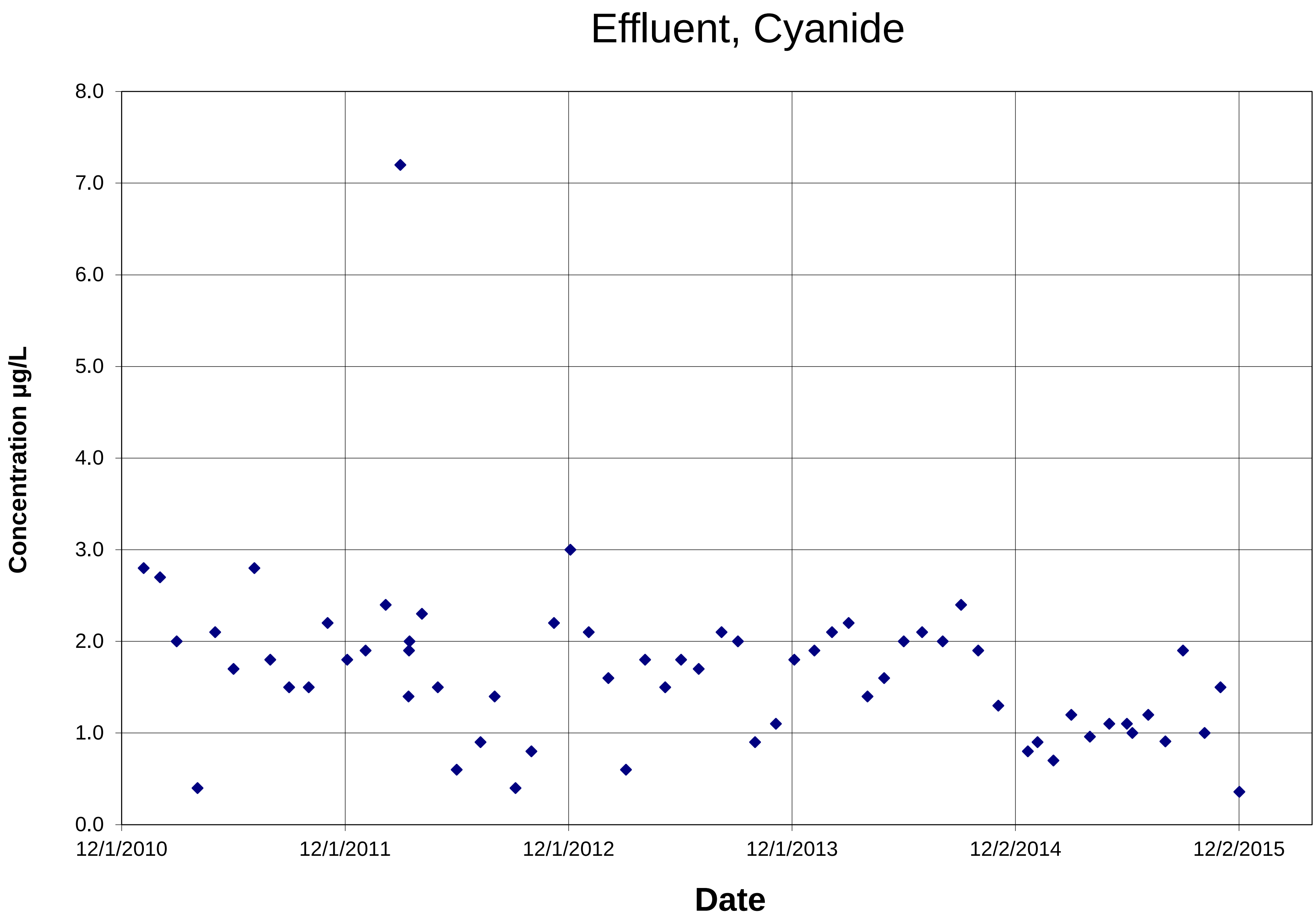

Effluent, Silver
Concentration, µg/L
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date


Influent, Zinc
Concentration, µg/L
500
450
400
350
300
250
200
150
100
50
0
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date


Effluent, Zinc
Concentration, µg/L
35
30
25
20
15
10
5
0
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date



Influent, Cyanide
Concentration µg/L
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date



Effluent, Cyanide
Concentration µg/L
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
12/1/2010
12/1/2011
12/1/2012
12/1/2013
12/2/2014
12/2/2015
Date

Inspection, Sampling, and Enforcement Programs

This section of the annual report provides summaries of the frequencies and procedures for the City of San Jose's (City's) inspection and sampling program for 2015. Included are the following:

- Inspection and Sampling Frequency Criteria,
- Inspection Format Procedures, and
- Chain of Custody Procedures.

Inspection and Sampling Frequency Criteria

This section summarizes the normal condition sampling and frequency criteria for different types of industrial users.

Inspection Format Procedures

This section summarizes key elements required to perform different types of inspections.

Chain of Custody Procedures

This section summarizes the chain of custody procedure to ensure the integrity of samples collected and analyzed by City inspection and laboratory personnel.

Enforcement Procedures

This section details the enforcement procedures used by the City to ensure violations are enforced consistently.

2015 Inspection and Sampling Frequency Criteria

To collect samples that are representative of an SIU's variable discharge practices, the dischargers are designated into three groups which are based on discharge type: Consistent, Variable, and Extremely Variable. A consistent discharger would continue to sample with a frequency of semiannually. An SIU would be considered a Variable discharger if the following are all true.

- Discharge is more than 5000 GPD.
- Processes produce discharge that changes over time or days.
- Treatment of wastewaters does not include ion exchange, membrane or ultra filtration, or batch discharge.
- Discharger may treat concentrated baths.

A discharger that fits these criteria would be considered a Variable discharger, and sampled quarterly. Dischargers that are 40 CFR 437 facilities, which have large variability in their discharge, would be considered "Extremely Variable" and sample monthly.

The annual inspection and sampling frequency established for the three groups is summarized in the following table, entitled "Inspection and Sampling Frequency."

Table 2: Inspection and Sampling Frequency

Discharge Type	Inspection Frequency	City Sampling	SIU Sampling
Consistent	2	2	2
Variable	4	4	4
Extremely Variable	4	12	12

Inspection Format Procedures

Permit Inspection

A permit inspection is conducted as part of the permitting process. There are three parts to a permit inspection.

1. The first part involves reviewing the following:
    a. Permit application,
    b. Previous permit, fact sheets, and permit applications,
    c. Information in the Environmental Enforcement Database Management System (EEDMS),
    d. Industrial User (IU) compliance history with all applicable limits, and
    e. Other file information such as sample results, IU, and City correspondence, etc.
2. The second part involves discussing the permit application and pertinent documents with the IU during a scheduled inspection. IU interviews include the following elements, as applicable:
    a. Reviewing the permit application with the IU and resolving any discrepancies,
    b. Verifying the correct name of the company,
    c. Identifying responsible contacts and their roles, particularly the executive officer, the waste treatment operator, and sampling contacts,
    d. Reviewing hours of operation, shifts, number of employees, and future expansion plans,
    e. Determining time periods used for data submittals,
    f. Reviewing flow data, both influent and effluent,
    g. Verifying flow and disposal data for mass and flow balances,
    h. Determining location and types of water sources,
    i. Determining location of all wastewater discharge points,
    j. Reviewing sanitary sewer connections and storm sewer routing,
    k. Reviewing sewer treatment plant fee status,
    l. Reviewing compliance status,
    m. Reviewing the processes listed for any production or treatment equipment changes since the last permit was issued,
    n. Evaluating the treatment system,
    o. Reviewing the site plan and process equipment layout to identify sample points and documentation of flow meter types and locations,
    p. Reviewing in-house monitoring practices,
    q. Reviewing hazardous materials plan and chemical inventory list,
    r. Reviewing Slug Plan, Spill Prevention Plan, and Containment Plan, where applicable,
    s. Reviewing waste manifests,
    t. Reviewing pollution prevention strategies, and

u. Reviewing water efficiency strategies and applicability of the Water Efficient Technologies Program.

3. The third part involves the physical inspection of the IU facility. Permit inspections include the following elements, as applicable:

   a. Inspecting products and wastewater generating processes and activities,
   b. Verifying compliance with previous permit conditions,
   c. Verifying that the layout of the facility, processes, and treatment equipment correspond to the application,
   d. Reviewing pollution prevention and water efficiency measures,
   e. Verifying plumbing layout corresponds to application,
   f. Verifying that all connections to the sewer and storm drain correspond to application,
   g. Verifying that the sample points are in the correct location and meet the permit requirements,
   h. Reviewing in house self monitoring records,
   i. Reviewing that the location of flow meters corresponds to application,
   j. Identifying flow meter primary and secondary device types,
   k. Reviewing all in house flow meter records,
   l. Inspecting chemical storage areas and waste storage areas for any chemicals not listed on the application,
   m. Inspecting site for general housekeeping, and
   n. Inspecting site for stormwater issues.

Compliance Inspection

A routine inspection to determine compliance status and to identify practices which may lead to noncompliance. Compliance inspections are normally not scheduled and are not as in depth as a permit or an annual inspection. Compliance inspections include the following elements, as applicable:

1. Interviewing the IU's contact,
2. Reviewing the IU facilities for system and process improvements or change,
3. Reviewing with IU the facility's compliance history and self monitoring reports,
4. Discussing programs on scheduled improvements of wastewater treatment systems and improved practices furthering compliance,
5. Reviewing records of wastes not discharged to the sanitary sewer,
6. Inspecting wastewater producing areas, noting and discussing practices that might lead to noncompliance and faulty equipment,
7. Inspecting wastewater monitoring equipment, noting and discussing any faulty equipment,
8. Reviewing all wastewater monitoring logs, noting and discussing any discrepancies,
9. Inspecting chemical and waste storage areas, noting and discussing any careless practices or spills,

10. Reviewing facility's in-house self monitoring records, noting and discussing any discrepancies,
11. Inspecting sampling point and monitoring station and equipment, noting and discussing any bypassing or other compliance issues,
12. Reviewing IU's industrial waste discharge permit and verifying that all permit conditions are being met,
13. Reviewing and signing off pH chart recorder, and
14. Collecting a sample if determined to be needed during the inspection. Ongoing compliance sampling is conducted by Assistant Environmental Inspectors and discussed in the Sampling Inspection Section

Annual Inspection

These inspections are similar to the compliance inspections and include all the items above; however, they are more detailed and require more time to conduct. Often these inspections are scheduled in advance to allow the IU the ability to have all required materials and records prepared in advance to facilitate the inspection. In addition to the elements described for compliance inspections, annual inspections include the following elements, as applicable:

1. Reviewing in depth all of the IU's files and the database prior to the inspection including the layout of the facility, the processes, the permit application, the permit, and fact sheet, the compliance history and the IU's Self Monitoring Reporting schedule,
2. Reviewing and verifying contact information,
3. Reviewing with IU hours of operation and number of shifts,
4. Discussing with IU any future expansion plans,
5. Reviewing all waste and storage records,
6. Reviewing with IU the facility flow diagram and facility layout for new processes or new equipment,
7. Inspecting facility processes for any bypasses, dilution streams, process and equipment changes, and documenting any changes not discussed previously,
8. Inspecting facility processes for dilution streams,
9. Inspecting wastewater treatment system and documenting any changes,
10. Inspecting and reviewing calibration of flow, pH monitoring, and other monitoring equipment,
11. Review pH chart recorder as applicable, noting and discussing any discrepancies and potential violations, and
12. Reviewing requirements for slug discharge plan by completing slug plan evaluation checklist or reviewing updates to existing slug discharge plan.

Enforcement Inspection

An enforcement inspection is the same as a compliance inspection, but is targeted on determining the causes of violations discovered according to the *Source Control Enforcement Response Plan*. The purpose of these types of inspections is also to verify the responses to the violation including how the IU will prevent future violations.

Special Investigation Inspection

A special investigation inspection is an inspection used to verify that adequate measures are being implemented to prevent violations of local, state, or federal regulations governing discharge due in response to a spill to the storm or sanitary sewer, emergency or other special matter, or in response to a complaint. This inspection is performed in response to a notification of a spill to the storm or sanitary sewer.

Sampling Inspection

These inspections are performed by the Assistant Environmental Inspectors during routine sampling events conducted by the City. Sampling inspections include the following elements, as applicable:

1. Collecting compliance and revenue samples as required,
2. Checking samples for pH using pH meter and recording the results,
3. Recording pH from final pH meter and comparing to pH meter readings of sample collected,
4. Recording flow readings from flow meters and verifying last calibration date,
5. Recording results of last in-house testing with time and date,
6. Recording any observations of sample point and sampling equipment,
7. Recording any abnormalities observed in effluent conditions, and
8. Recording any abnormalities observed in treatment system.

Closure Inspection

These inspections are performed when a discharger is in the process of closing. Several inspections may be required to review the company's progress toward closure. These inspections may include the following elements, as applicable:

1. Verifying removal of all process equipment from the facility,
2. Verifying removal of all process chemistries from the facility,
3. Reviewing waste manifests for verifications that all waste has been hauled from the facility,
4. Verifying and recording the date of last discharge to sanitary sewer,
5. Recording any influent water meter readings, and
6. Verifying that IU has filed a closure plan with the fire department.

Chain of Custody Procedures

All sampling performed by City personnel involves the use of a chain of custody record. The chain of custody record is part of the Laboratory Analysis Request form. This form indicates who took the sample, who witnessed the taking of the sample, and to whom the sample was released. It is intended to document every person that has had access to the sample. Samples are always in the secure custody of the sampling person until released to the laboratory. Once in the laboratory, samples are held in a locked area, accessible only to the last person signing for the samples.

Enforcement Procedures

The Pretreatment Program's Enforcement Response Plan (ERP) was prepared in accordance with EPA's Guidance for Developing Control Authority ERPs. The latest revision of the ERP was included with the 2009 Annual Report. The Pretreatment Program continues to follow the guidelines of this ERP.

Updated List of Regulated Significant Industrial Users

This section consists of three tables summarizing the changes made to the list of Significant Industrial User (SIU) facilities that discharge to the Wastewater Facility. As of December 31, 2015 there were 149 SIUs discharging to the Wastewater Facility. These facilities were classified as SIUs because they are either classified as having a categorical industrial user (CIU) process or have a discharge that is over 25,000 gallons per day. The following describes each table:

- **Updated List of Regulated SIUs – 2015** contains a complete listing of all SIUs as of December 31, 2015. Each SIU is listed in alphabetical order by facility name. The table also includes the discharger's permit number, address, and reason why each discharger is classified as an SIU.
- **Deleted SIUs – 2015** lists all SIUs that are no longer permitted, or are no longer an SIU. Each SIU listed shows the permit number, the discharger's address, the federal category under 40 CFR for the discharger where applicable, and a reason that the discharger was deleted or is no longer an SIU.
- **Newly Permitted SIUs – 2015** lists all SIUs that received a new permit in 2015, the new permit number, the discharger's address, and the federal category under 40 CFR for each SIU where applicable.

Updated List of Regulated SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	Reason SIU
1	A & E Anodizing	SJ-314B	652-A Charles St	San Jose	95112	433A
2	Advanced Component Labs	SC-360B	990 Richard Ave, Unit 118	Santa Clara	95050	433A
3	Advanced Electropolishing Technology	MI-120B	398 Railroad Ct	Milpitas	95035	433A
4	Advanced Surface Finishing Inc.	SJ-514B	1181 N 4th St, Suite 50	San Jose	95112	433A
5	Agilent Technologies, Inc.	SC-454B	5301 Stevens Creek Blvd	Santa Clara	95051	433A
6	Ahead Magnetics dba AheadTek	SJ-500B	6410 Via del Oro	San Jose	95119	433A
7	Allergan, Inc.	WV-044B	503-F Vandell Way	Campbell	95008	439A
8	Alsco	SJ-546B	2275 Junction Ave	San Jose	95131	>25K GPD
9	Altaflex, Inc.	SC-316B	336 Martin Ave	Santa Clara	95050	433A
10	Amalar, Inc.	SC-134B	2317 Calle de Luna	Santa Clara	95054	433A
11	Amex Plating, Inc.	SC-182B	3333 Woodward Ave	Santa Clara	95054	433A
12	APCT, Inc.	SC-434A	3495 De la Cruz Blvd	Santa Clara	95054	433A
13	Apple, Inc.	SC-461B	3250 Scott Blvd	Santa Clara	95054	>25K GPD
14	Applied Anodize, Inc.	SJ-025B	622 Charcot Ave, Suite B	San Jose	95131	433A
15	Applied Materials, Bldgs. 2 & 3	SC-092A	3300 Scott Blvd	Santa Clara	95054	433A
16	Arnold's Metal Finishing	SC-369B	805 Aldo Ave, Unit 104	Santa Clara	95054	433A
17	Averatek Corp.	SC-406B	550 Nuttman St	Santa Clara	95054	433A
18	B R & F Spray	SC-449Z	3380 De la Cruz Blvd	Santa Clara	95054	433A
19	Babbitt Bearing Company, Inc.	SJ-555Z	1170 N 5th St	San Jose	95112	413(L)A-H
20	Beam On Technology	SC-355B	2318 Calle de Luna	Santa Clara	95054	433A
21	Bi-CMOS Foundry	SC-349B	975 Comstock St	Santa Clara	95054	469A
22	California Auto Tinting and Polishing	WV-059Z	130 E Sunnyoaks Ave	Campbell	95008	433A
23	Calpine Corp. dba Los Esteros Critical Energy	SJ-488A	800 Thomas Foon Chew Way	San Jose	95134	423
24	CBR Circuits, Inc.	MI-140B	116 Minnis Cir	Milpitas	95035	433A
25	Cirexx International, Inc	SC-428B	3391 Keller St	Santa Clara	95054	433A
26	Clean Harbors San Jose, LLC	SJ-487A	1021 Berryessa Rd	San Jose	95133	437D
27	Coast Engraving, Inc.	SJ-612B	1097 N 5th St	San Jose	95112	433A
28	Coatek	SC-026B	2272 Calle de Luna	Santa Clara	95054	433A
29	Cobham Advanced Electronic Solutions	SJ-591B	5350 Hellyer Ave	San Jose	95138	433A, 469A
30	Coherent, Inc.	SC-173B	5100 Patrick Henry Dr	Santa Clara	95054	469A
31	Cordova Printed Circuits	MI-017B	1648 Watson Ct	Milpitas	95035	433A
32	Cortec Precision Sheetmetal	SJ-658Z	2231 Will Wool Dr	San Jose	95112	433A
33	Crain Cutter Co. Inc.	MI-070C	1155 Wrigley Way	Milpitas	95035	433A
34	Crea, LLC	SC-441B	807 Aldo Ave, # 107	Santa Clara	95054	433A
35	Crystallume Corporation	SC-312B	3397 De la Cruz Blvd	Santa Clara	95054	433A

Updated List of Regulated SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	Reason SIU
36	CSL Operating, LLC	SC-427B	529 Aldo Ave	Santa Clara	95054	433A
37	Diana Fruit Company	SC-002C	651 Mathew St	Santa Clara	95050	>25K GPD
38	Du All Anodizing Company	SJ-010B	730 Chestnut St	San Jose	95110	433A
39	DVR Power Plant, dba Silicon Valley Power	SC-354B	850 Duane Ave	Santa Clara	95054	423
40	Eagle Tech, Inc.	SJ-520B	2299 Ringwood Ave, Unit C-3	San Jose	95131	433A
41	E-Fab, Inc.	SC-096B	1075 Richard Ave	Santa Clara	95050	433A
42	Elcon Precision, LLC	SJ-640B	1009 Timothy Dr	San Jose	95133	433A
43	Electropolishing Shop	SC-424Z	3475 Victor St, Unit A	Santa Clara	95054	433A
44	ENS Technology LLC	SC-252A	3165 Molinaro St	Santa Clara	95054	433A
45	EPZ, Inc.	SC-328B	3005 Copper Rd	Santa Clara	95051	433A
46	EPZ, Inc.	SC-458B	2262 Calle Del Mundo	Santa Clara	95054	433A
47	Etched Media Corporation	WV-068B	101 Gilman Ave	Campbell	95008	433A
48	Evoqua Water Technologies LLC	MI-145B	960 Ames Ave	Milpitas	95035	>25K GPD
49	Flex Interconnect Technologies	MI-116B	1603 Watson Ct	Milpitas	95035	433A
50	Four-D Metal Finishing, Inc.	SC-447B	1065 Memorex Dr	Santa Clara	95050	433A
51	Fujifilm Dimatix, Inc.	SC-422B	2230 Martin Ave	Santa Clara	95050	433A
52	GE Mobile Water, Inc.	SJ-393A	5900 Silver Creek Valley Rd	San Jose	95138	>25K GPD
53	Glencore Recycling, Inc.	SJ-556Z	1695 Monterey Rd	San Jose	95112	421X
54	Gold Plating Services, Inc.	SC-432Z	3475 Victor St, Unit C	Santa Clara	95054	433A
55	Gordon Biersch Brewing Company, Inc.	SJ-352C	357 E Taylor St	San Jose	95112	>25K GPD
56	Gorilla Circuits	SJ-449B	1509 Berger Dr	San Jose	95112	433A
57	Graphic Packaging International, Inc.	SC-412A	2600 De La Cruz Blvd	Santa Clara	95050	430J
58	Grinding, Dicing Services, Inc. dba GDSI	SJ-599B	925 Berryessa Rd	San Jose	95133	469A
59	Haro's Anodizing Specialists	SC-222B	630 Walsh Ave	Santa Clara	95050	433A
60	Haro's Metal Finishing, Inc.	SJ-655Z	439 Reynolds Cir	San Jose	95112	433A
61	Headway Technologies, Inc.	MI-057A	497 S Hillview Dr	Milpitas	95035	433A
62	Headway Technologies, Inc. STT Bldg 5	MI-118B	463 S Milpitas Blvd	Milpitas	95035	433A, 469A
63	HGST, Inc.	SJ-495A	5601 Great Oaks Pkwy	San Jose	95119	433A
64	Highland Metals, Inc.	SJ-676B	411 Perrymont Ave	San Jose	95125	433A
65	INTA Technologies	SC-307B	2281 Calle de Luna	Santa Clara	95054	433A
66	Intel Corporation, SC1/SC2	SC-440A	3065 Bowers Ave	Santa Clara	95052	433A
67	International Disposal Corporation, Inc	SJ-437A	700 Los Esteros Rd	San Jose	95134	>25K GPD
68	Intevac, Inc.	SC-259B	3580 Bassett St	Santa Clara	95054	469A
69	Italix Company, Inc.	SC-410Z	2232 Calle del Mundo	Santa Clara	95054	433A
70	J & B Enterprises	SC-388Z	1650 Russell Ave	Santa Clara	95054	421X

Updated List of Regulated SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	Reason SIU
71	Jennings Technology Corporation	SJ-216B	970 McLaughlin Ave	San Jose	95122	433A, 468A
72	Johnson Matthey, Inc	SJ-574Z	1070 Commercial St, Suite 108	San Jose	95112	471C
73	Kearney Pattern Works and Foundry	SJ-557Z	40 S Montgomery St	San Jose	95110	464
74	Kion Technology, Inc.	SJ-191B	2190 Old Oakland Rd	San Jose	95131	433A
75	KLA-Tencor Corporation	MI-137B	5 Technology Dr	Milpitas	95035	433A
76	KMIC Technology, Inc.	SJ-561B	2095 Ringwood Ave, Suite 10	San Jose	95131	433A
77	Leiter's Compounding Pharmacy	SJ-001NSC	17 Great Oaks Blvd	San Jose	95119	439D
78	Lenthor Engineering, Inc.	MI-132B	1478 Gladding Ct	Milpitas	95035	433A
79	Lenthor Engineering, Inc.	MI-141B	311 Turquoise St	Milpitas	95035	433A
80	Linear Technology Corp.	MI-006A	1630 McCarthy Blvd	Milpitas	95035	433A
81	Linear Technology Corporation	MI-088B	275 S Hillview Dr	Milpitas	95035	469A
82	List Biological Laboratories, Inc	WV-064B	540 Division St	Campbell	95008	439A
83	Lumentum Operations LLC	SJ-674B	1750 Automation Pkwy	San Jose	95131	433A
84	Lumentum Operations, LLC	SJ-673B	80 Rose Orchard Way	San Jose	95134	469A
85	Lumileds LLC	SJ-528B	370 W Trimble Rd	San Jose	95131	469A
86	Magic Spray	SC-453Z	930 George St	Santa Clara	95054	433A
87	Mannington Mills dba Burke Industries	SJ-594B	2250 S 10th St	San Jose	95112	428G
88	Mantrex, Inc. dba Wit Sales & Refining	SJ-559Z	538 Phelan Ave	San Jose	95112	421X
89	Mass Precision, Inc.	SJ-664B	2110 Oakland Rd	San Jose	95131	433A
90	Metal Finishing Solutions, Inc.	SC-438B	870 Comstock St	Santa Clara	95054	433A
91	Metcalf Energy Center LLC	SJ-515B	1 Blanchard Rd	Coyote	95013	423
92	Micrel, Inc.	SJ-258A	1849 Fortune Dr	San Jose	95131	469A
93	Micro-Chem, Inc.	SC-218B	2986 Oakmead Village Ct	Santa Clara	95051	433A
94	Microsemi, Inc.	SC-380B	3000 Oakmead Village Dr	Santa Clara	95051	469A
95	Mohawk Packing, Div. of John Morrell	SJ-373C	1660 Old Bayshore Hwy	San Jose	95112	>25K GPD
96	Momentum Technologies Corp. dba Momentum Metal Finishing	SC-381B	1232 Memorex Dr	Santa Clara	95050	433A
97	M-Pulse Microwave, Inc.	SJ-035B	576 Charcot Ave	San Jose	95131	469A
98	Multitest	SC-301B	3021 Kenneth St	Santa Clara	95054	433A
99	Newport Corporation	SC-416B	3635 Peterson Way	Santa Clara	95054	433A
100	Noel Technologies, Inc.	WV-071B	1510 Dell Ave	Campbell	95008	433A, 469A
101	OLS Energy-Agnews, Inc.	SJ-388B	3800 Cisco Way	San Jose	95134	423
102	Pacific Photo Lithography	SC-460Z	1440 Norman Ave	Santa Clara	95054	433A
103	PacTech USA	SC-343B	328 Martin Ave	Santa Clara	95050	433A
104	Parlex Corporation	SJ-459B	1756 Junction Ave	San Jose	95112	433A

Updated List of Regulated SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	Reason SIU
105	PerkinElmer, Inc.	SC-264A	2175 Mission College Blvd	Santa Clara	95054	469A
106	PK Selective Metal Plating, Inc.	SC-013B	415 Mathew St	Santa Clara	95050	433A
107	Process Stainless Lab, Inc.	SC-276B	1280 Memorex Dr	Santa Clara	95050	433A
108	Prodigy Surface Tech, Inc.	SC-344B	807 Aldo Ave, Suite 102	Santa Clara	95054	433A
109	Prudential Overall Supply	MI-040B	1429 N Milpitas Blvd	Milpitas	95035	>25K GPD
110	Quality Plating, Inc.	SJ-079B	1680 Almaden Expy, Suite H & I	San Jose	95125	433A
111	QualTech Circuits, Inc.	SC-345B	1101 Comstock St	Santa Clara	95054	433A
112	QuantumClean	SJ-545B	1710 Ringwood Ave	San Jose	95131	433A
113	R. C. Refinishing	SJ-567Z	1617 Pomona Ave	San Jose	95110	433A
114	Reed & Graham, Inc.	SJ-461B	690 Sunol St	San Jose	95126	443A
115	S.J. Valley Plating, Inc.	SC-017B	491 Perry Ct	Santa Clara	95054	433A
116	San Jose Die Casting Corp.	SJ-554Z	2475 Autumnvale Dr	San Jose	95131	464A
117	San Jose State University Cogen Plant	SJ-448B	260 S 9th St	San Jose	95112	>25K GPD
118	San Jose Water Company	WV-902B	21200 Congress Springs Rd	Saratoga	95070	>25K GPD
119	Sanmina Corp Plant I	SJ-022A	2101 O'Toole Ave	San Jose	95131	433A
120	Sanmina Corp Plant II	SJ-043A	2068 Bering Dr	San Jose	95131	433A
121	Santa Clara Plating Co.	SC-029B	1769 Grant St	Santa Clara	95050	433A
122	Scientific Metal Finishing, Inc.	SC-450Z	3180 Molinaro St	Santa Clara	95054	433A
123	Semiconductor Tooling Services, Inc.	SJ-657B	6781 Via del Oro	San Jose	95119	433A
124	Silicon Microstructures	MI-108B	1701 McCarthy Blvd	Milpitas	95035	469A
125	Solexel Inc.	MI-128B	1532 McCarthy Blvd	Milpitas	95035	469A
126	Streamline Circuits	SC-350A	1415 Richard Ave	Santa Clara	95050	433A
127	Sun Surface Technology	SJ-510B	950 Rincon Cir	San Jose	95131	433A
128	Superior Chrome	SJ-263B	1616 Pomona Ave	San Jose	95110	433A
129	SV Probe, Inc.	SC-385Z	4251 Burton Dr	Santa Clara	95054	433A
130	Swift Metal Finishing	SC-035B	1161 Richard Ave	Santa Clara	95050	433A
131	T. Marzetti Co.- West	MI-004C	876 Yosemite Dr	Milpitas	95035	>25K GPD
132	Telewave, Inc	SJ-471B	660 Giguere Ct	San Jose	95133	433A
133	THAT Corporation	MI-078B	505 Fairview Way	Milpitas	95035	469A
134	The Newark Group, Inc. dba California Paperboard Corp.	SC-459B	525 Mathew St	Santa Clara	95050	430J
135	Thin Film Electronics, Inc.	SJ-665B	2865 Zanker Rd	San Jose	95132	469A
136	Triad Tool & Engineering, Inc.	SJ-671Z	1750 Rogers Ave	San Jose	95112	464A, 464D
137	TTM Technologies, Inc - Santa Clara Division	SC-374A	359 Mathew St	Santa Clara	95050	>25K GPD
138	Uni-Flex Circuits, Inc.	SJ-399B	1782 Angela St	San Jose	95125	433A

Updated List of Regulated SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	Reason SIU
139	United Supertek, Inc.	SJ-122B	118 Charcot Ave	San Jose	95131	433A
140	Universal Semiconductor	SJ-150B	1925 Zanker Rd	San Jose	95112	433A, 469A
141	University Plating	SJ-028B	650 University Ave	San Jose	95110	433A
142	Vacuum Engineering & Materials Co.	SC-443B	390 Reed St	Santa Clara	95050	471D
143	Vector Fabrication	MI-059B	1629 Watson Ct	Milpitas	95035	433A
144	Viasystems Corporation	SJ-625B	335 Turtle Creek Ct	San Jose	95125	433A
145	Viasystems, Inc.	MI-014A	1831 Tarob Ct	Milpitas	95035	433A
146	Vishay/Siliconix	SC-282A	2201 Laurelwood Rd	Santa Clara	95054	433A, 469A
147	Wafer Reclaim Service, LLC	SJ-552B	2240 Ringwood Ave	San Jose	95131	433A
148	WD Media, Inc.	SJ-551A	1710 Automation Pkwy	San Jose	95131	>25K GPD
149	Winslow Automation, Inc., dba SIX SIGMA	MI-106B	905 Montague Expy	Milpitas	95035	433A

Deleted SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	SIU Reason	Reason for Deletion
1	Advanced Metal Finishers, LLC	SJ-667B	1291 Oakland Rd	San Jose	95112	433A	Facility Closure
2	Airtronics Metal Products, Inc.	SJ-608B	1991 Senter Rd	San Jose	95112	433A	Facility Moved Out of Jurisdiction
3	California Paperboard Corp.	SC-005C	525 Mathew St	Santa Clara	95050	430J	Change of Ownership
4	Highland Metals, Inc.	SJ-628B	411 Perrymont Ave	San Jose	95125	433A	Change of Ownership
5	Leiter's Compounding Pharmacy	SJ-663B	17 Great Oaks Blvd	San Jose	95119	439D	Recategorized to Non-Significant Categorical Industrial User
6	Lenthor Engineering, Inc.	MI-018B	1514 Gladding Ct	Milpitas	95035	433A	Facility Moved
7	Maxim Integrated Products, Inc.	SJ-369B	3725 N 1st St	San Jose	95134	469A	Facility Closure
8	Nu-Metal Finishing, Inc.	SC-452B	2262 Calle Del Mundo	Santa Clara	95054	433A	Ownership Change
9	Pacific Photo Lithography	SC-393Z	3255 Woodward Ave	Santa Clara	95054	433A	Facility Moved
10	Pyramid Circuits, Inc.	SC-429B	1405 Richard Ave	Santa Clara	95050	433A	Facility Closure
11	Siemens Water Technologies LLC	MI-065C	960 Ames Ave	Milpitas	95035	>25 GPD	Ownership Change
12	Silicon Valley Electroplating Corp.	MI-055B	1486 Gladding Ct	Milpitas	95035	433A	Facility Closure
13	Solar Junction Inc.	SJ-624B	401 Charcot Ave	San Jose	95131	469A	Facility Closure
14	Supertex, Inc.	SJ-398B	71 Vista Montana Dr	San Jose	95134	469A	Facility Closure
15	Toppan Photomasks, Inc.	SC-050B	2970 Coronado Dr	Santa Clara	95054	433A	Facility Closure

Newly Permitted SIUs - 2015

	Company Name	Permit No.	Address	City	Zip	Reason SIU
1	Apple, Inc.	SC-461B	3250 Scott Blvd	Santa Clara	95054	>25 GPD
2	Crea, LLC	SC-441B	807 Aldo Ave, # 107	Santa Clara	95054	433A
3	EPZ, Inc.	SC-458B	2262 Calle Del Mundo	Santa Clara	95054	433A
4	Evoqua Water Technologies LLC	MI-145B	960 Ames Ave	Milpitas	95035	>25 GPD
5	Highland Metals, Inc.	SJ-676B	411 Perrymont Ave	San Jose	95125	433A
6	Lumentum Operations LLC	SJ-674B	1750 Automation Pkwy	San Jose	95131	433A
7	Lumentum Operations LLC	SJ-673B	80 Rose Orchard Way	San Jose	95134	469A
8	Pacific Photo Lithography	SC-460Z	1440 Norman Ave	Santa Clara	95054	433A
9	The Newark Group, Inc. dba California Paperboard Corp.	SC-459B	525 Mathew St	Santa Clara	95050	430J

Enforcement Summary 2015

This section contains a summary of compliance and enforcement activities during 2015. Note the following tables list enforcement actions "issued" in 2015. Therefore, some enforcement actions in 2015 were issued for 2014 City of San José (City) sample results or self monitoring report violations that were not available until after January 1, 2015. In addition, some of the later 2015 violations listed in the 2015 Second Semi-Annual Industrial User Violation Report will also not be included until the 2016 Annual Report since some of the enforcement actions were not issued until January 2016. The following summarizes where in the section (or in other report sections) the various enforcement actions are located:

- The tables entitled "Compliance Activities 2015" lists each significant industrial user (SIU) alphabetically with a summary of the number of City inspections, and City and IU sampling events for each quarter in 2015. This table also provides the compliance status for each quarter and a summary of all the enforcement actions that were issued for each site in 2015.
- Administrative Orders – None were issued in 2015.
- Civil Actions – None were issued in 2015.
- Criminal Actions – None were issued in 2015.
- Assessment of monetary penalties – The table entitled "Table of Administrative Citations Issued in 2015" lists all the Administrative Citations issued for violations of the City's Industrial Waste Discharge Regulations in 2015.
- Order to restrict/suspend discharge to the San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) – None were issued in 2015.
- Order to disconnect a discharge from entering the Wastewater Facility – None were issued in 2015.

Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
A & E Anodizing 652-A Charles St San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-314B	1 2 3 4	 1 2 	1 1 	 1 1 	CC CC CC NS	Consistent Compliance in 2015.
Advanced Component Labs 990 Richard Ave, Unit 118 Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-360B	1 2 3 4	1 3 	 2 2 2	1 2 	CC CC SNF CC	A Warning Notice was issued for federal monthly average, federal daily maximum, and local maximum allowable zinc concentration limit violations in the third quarter of 2015. The SNF status in the third quarter of 2015 was based on the number of samples exceeding the local maximum allowable zinc concentration limit TRC 33%+ criteria.
Advanced Electropolishing Technology 398 Railroad Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-120B	1 2 3 4	 1 1	2 1 	1 1 1	IF/IL CC CC CC	A Warning Notice was issued for a local maximum allowable chromium concentration limit violation and failure to report the violation in the first quarter of 2015.
Advanced Metal Finishers, LLC* 1291 Oakland Rd San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-667B	1 2 3 4	5 	1 		IF/IL NS NS NS	A Notice of Violation was issued for failure to maintain a continuous pH recorder, failure to notify of significant change, and failure to meet permit conditions in the first quarter of 2015. The IU ceased operation and was de-permitted in the first quarter of 2015.
Advanced Surface Finishing Inc.* 1181 N 4th St, Suite 50 San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-514B	1 2 3 4	2 2 	1 1 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.

All significant industrial users are regulated by local limits. In addition, categorical industrial users are regulated by the applicable federal categorical limits as described in the Federal Standards section of this Annual Industrial User Pretreatment Compliance Report.

Compliance Status Key

SNF - Significant Noncompliance, Federal Limits
SNL - Significant Noncompliance, Local Limits
UN - Unknown
IL - Inconsistent Compliance, Local Limits
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NS - Not scheduled to be Sampled for Compliance
* - Under an Approved Solvent Management Plan
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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051 40 CFR 433.17 Subpart A	SC-454B	1 2 3 4	 1 2 	 2 2	1 1 	CC CC CC CC	Consistent Compliance in 2015.
Ahead Magnetics dba AheadTek* 6410 Via del Oro San Jose, CA 95119 40 CFR 433.17 Subpart A	SJ-500B	1 2 3 4	 1 1 	 1 1	 1 	NS CC CC CC	Consistent Compliance in 2015.
Airtronics Metal Products, Inc.* 1991 Senter Rd San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-608B	1 2 3 4	1 			NS NS NS NS	Consistent Compliance in 2015. The IU ceased operation and was de-permitted in the first quarter of 2015.
Allergan, Inc. 503-F Vandell Way Campbell, CA 95008 40 CFR 439 Subpart A	WV-044B	1 2 3 4	1 2 1 1	 2 1	 2 1 	CC IF/IL IF/IL CC	A Notice of Violation was issued for four federal and local pH violations that lasted eight to 81 minutes, for federal and local failure to report violations, and for failure to install continuous pH recorder in the second quarter of 2015. A Notice of Violation was issued for federal and local pH violations that lasted two minutes each and for federal and local failure to report violations in the third quarter of 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Alsco 2275 Junction Ave San Jose, CA 95131 SIU based on flow	SJ-546B	1 2 3 4	2 1 1 	7 7 7 7	2 1 3 	CC CC SNL CC	A Warning Notice was issued for a local maximum allowable oil and grease limit violation in the first quarter of 2015. Two Notices of Violation and two Administrative Citations were issued for local maximum allowable oil and grease limit violations in the third quarter of 2015. A Compliance Schedule (from 10/6/2015 Compliance Meeting) was issued for local maximum allowable oil and grease limit violations in the third quarter of 2015. The SNL status in the third quarter of 2015 was based on the number of samples exceeding the local maximum allowable oil and grease concentration limit TRC 33%+ criteria.
Altaflex, Inc.* 336 Martin Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-316B	1 2 3 4	 1 1 1	1 1 	 1 1	CC CC CC CC	Consistent Compliance in 2015.
Amalar, Inc. 2317 Calle de Luna Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-134B	1 2 3 4	 1 1 	1 1 	 2 1	CC IF/IL CC IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, and late submittal of a self monitoring report (SMR), 16 to 30 days late, in the second quarter of 2015. A Notice of Violation was issued for inappropriate sample frequency, a permit condition violation, in the fourth quarter of 2015.
Amex Plating, Inc.* 3333 Woodward Ave Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-182B	1 2 3 4	1 2 	 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-434A	1 2 3 4	2 1 2 1	3 2 3 2	2 1 1 1	IF/IL CC CC CC	A Warning Notice and Notice of Violation were issued for local pH violations that lasted three minutes, for federal and local failure to report violations, and for failure to maintain pH monitoring equipment, a permit condition violation, in the first quarter of 2015.
Apple, Inc. 3250 Scott Blvd Santa Clara, CA 95054 SIU based on flow	SC-461B	1 2 3 4	 2 1			UN UN UN NS	Consistent Compliance in 2015. The IU was issued permit number SC-461B in the fourth quarter of 2015.
Applied Anodize, Inc. 622 Charcot Ave, Suite B San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-025B	1 2 3 4	 1 1 	 1 1	1 1 	CC CC IL CC	A Verbal Warning was issued for late submittal of an SMR, five to 15 days late, in the third quarter of 2015.
Applied Materials, Bldgs. 2 & 3 3300 Scott Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-092A	1 2 3 4	1 1 	 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.
Arnold's Metal Finishing* 805 Aldo Ave, Unit 104 Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-369B	1 2 3 4	2 2 	 1 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Averatek Corp.* 550 Nuttman St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-406B	1 2 3 4	1 1 2 	1 2	 2 1 	CC IF/IL CC CC	A Verbal Warning was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2015.
B R & F Spray 3380 De la Cruz Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-449Z	1 2 3 4	 1 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Babbitt Bearing Company, Inc. 1170 N 5th St San Jose, CA 95112 40 CFR 413(L) Subparts A-H	SJ-555Z	1 2 3 4	 1 2			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Bi-CMOS Foundry 975 Comstock St Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-349B	1 2 3 4	 1 3 	1 2 	 1 1 	CC IF/IL IF/IL NS	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2015. A Warning Notice was issued for a local pH violation that lasted one minute, federal and local failure to report violations, and failure to maintain sample point, a permit condition violation, in the third quarter of 2015.
California Auto Tinting and Polishing 130 E Sunnyoaks Ave Campbell, CA 95008 40 CFR 433.17 Subpart A	WV-059Z	1 2 3 4	1 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
California Paperboard Corp. 525 Mathew St Santa Clara, CA 95050 40 CFR 430 Subpart J	SC-005C	1 2 3 4	1	7 6	1	CC CC NS NS	Consistent Compliance in 2015. The IU changed ownership in the second quarter of 2015. The IU name changed to The Newark Group, Inc. dba California Paperboard Corp. and was re-permitted under permit number SC-459B.
Calpine Corp. dba Los Esteros Critical Energy 800 Thomas Foon Chew Way San Jose, CA 95134 40 CFR 423	SJ-488A	1 2 3 4	1 1	 1 2	1 1 	CC CC CC CC	Consistent Compliance in 2015.
CBR Circuits, Inc. 116 Minnis Cir Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-140B	1 2 3 4	 1 2 1	2 3 2 4	1 1 	CC CC CC IL	A Verbal Warning was issued for late submittal of an SMR, 16 to 30 days late, in the fourth quarter of 2015.
Cirexx International, Inc 3391 Keller St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-428B	1 2 3 4	1 1 2 1	3 3 4 3	2 2 2 2	IF/IL CC CC CC	A Warning Notice was issued in the second quarter for a local pH violation that lasted 30 minutes and for federal and local failure to report violations in the first quarter of 2015
Clean Harbors San Jose, LLC* 1021 Berryessa Rd San Jose, CA 95133 40 CFR 437.47 Subpart D	SJ-487A	1 2 3 4	1 1 1 3	12 14 15 12	3 3 3 3	CC CC CC CC	Consistent Compliance in 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Coast Engraving, Inc.* 1097 N 5th St San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-612B	1	1	1	1	IF/IL	A Notice of Violation was issued for late submittal of a Wastewater Discharge Permit Application, 31 to 45 days late, in the first quarter of 2015.
		2	1		1	CC	
		3	1	1		CC	
		4			1	CC	
Coatek 2272 Calle de Luna Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-026B	1		2	1	IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, and late submittal of an SMR, 16 to 30 days late, in the first quarter of 2015. A Warning Notice was issued for local maximum allowable lead and nickel concentration limit violations in the second quarter of 2015. The SNL status in the second quarter of 2015 was based on the number of samples exceeding the local maximum allowable nickel concentration limit TRC 33%+ criteria.
		2	2	2	1	SNL	
		3	2	4	1	CC	
		4	2		1	CC	
Cobham Advanced Electronic Solutions* 5350 Hellyer Ave San Jose, CA 95138-1003 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	SJ-591B	1		2	1	CC	Consistent Compliance in 2015.
		2	2			NS	
		3	2	4	2	CC	
		4				NS	
Coherent, Inc.* 5100 Patrick Henry Dr Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-173B	1	1			NS	Consistent Compliance in 2015.
		2		1	1	CC	
		3	1			NS	
		4		2	1	CC	

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Cordova Printed Circuits 1648 Watson Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-017B	1 2 3 4	1 2 2	2 4 3 5	1 1 1	CC CC IF/IL IF/IL	A Verbal Warning and a Warning Notice were issued for failure to maintain pH monitoring equipment and failure to maintain monitoring facilities, both permit condition violations, in the third quarter of 2015. A Verbal Warning was issued for federal monthly average, federal daily maximum, and local maximum allowable copper concentration limit violations in the fourth quarter of 2015.
Cortec Precision Sheetmetal 2231 Will Wool Dr San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-658Z	1 2 3 4	 1 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Crain Cutter Co. Inc.* 1155 Wrigley Way Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-070C	1 2 3 4	 1 1			NS NS NS NS	Consistent Compliance in 2015. No discharge in 2015.
Crea, LLC 807 Aldo Ave, # 107 Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-441B	1 2 3 4	 1 1			UN NS NS NS	Consistent Compliance in 2015. The IU was issued permit number SC-441B in the second quarter of 2015. No discharge in 2015.
Crystallume Corporation 3397 De la Cruz Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-312B	1 2 3 4	 1 1 	 2 2	 1 1	NS CC NS CC	Consistent Compliance in 2015.

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CSL Operating, LLC	SC-427B	1		1		CC	Consistent Compliance in 2015.
529 Aldo Ave		2	1		1	CC	
Santa Clara, CA 95054		3	2	2		CC	
40 CFR 433.17 Subpart A		4			2	CC	
Diana Fruit Company	SC-002C	1	1	10	1	CC	Consistent Compliance in 2015.
651 Mathew St		2		9		CC	
Santa Clara, CA 95050		3	1	11		CC	
SIU based on flow		4		9		CC	
Du All Anodizing Company	SJ-010B	1	1	2		CC	Consistent Compliance in 2015.
730 Chestnut St		2			1	CC	
San Jose, CA 95110		3		1		CC	
40 CFR 433.17 Subpart A		4	1		2	CC	
DVR Power Plant, dba Silicon Valley Power	SC-354B	1	1	1	2	IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the first quarter of 2015.
850 Duane Ave		2				NS	
Santa Clara, CA 95054		3	1	1	1	CC	
40 CFR 423		4				NS	
Eagle Tech, Inc.	SJ-520B	1			1	CC	A Verbal Warning was issued for a local maximum allowable copper concentration limit violation in the fourth quarter of 2015.
2299 Ringwood Ave, Unit C-3		2	1	2		CC	
San Jose, CA 95131		3			1	CC	
40 CFR 433.17 Subpart A		4	2	3	1	CC	

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San José-Santa Clara Regional Wastewater Facility

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				POTW	IU		
E-Fab, Inc.	SC-096B	1			1	CC	Consistent Compliance in 2015.
1075 Richard Ave		2	1	1		CC	
Santa Clara, CA 95050		3	1		1	CC	
40 CFR 433.17 Subpart A		4	1	1		CC	
Elcon Precision, LLC*	SJ-640B	1			1	CC	Consistent Compliance in 2015.
1009 Timothy Dr		2		2		CC	
San Jose, CA 95133		3	1		1	CC	
40 CFR 433.17 Subpart A		4	1	2		CC	
Electropolishing Shop	SC-424Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2015.
3475 Victor St, Unit A		2	1			NS	
Santa Clara, CA 95054		3	1			NS	
40 CFR 433.17 Subpart A		4	1			NS	
ENS Technology LLC	SC-252A	1	1	3	2	CC	Consistent Compliance in 2015.
3165 Molinaro St		2	1	2	2	CC	
Santa Clara, CA 95054		3	2	2	1	CC	
40 CFR 433.17 Subpart A		4	1	2	1	CC	
EPZ, Inc.*	SC-458B	1	1			UN	Consistent Compliance in 2015. The IU was formerly named Nu-Metal Finishing, Inc. and was permitted under permit number SC-452B.
2262 Calle Del Mundo		2	2	2	1	CC	
Santa Clara, CA 95054		3	1			NS	
40 CFR 433.17 Subpart A		4		1	1	CC	

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EPZ, Inc.*	SC-328B	1	1	1		CC	Consistent Compliance in 2015.
3005 Copper Rd		2	1	1	1	CC	
Santa Clara, CA 95051		3		1		CC	
40 CFR 433.17 Subpart A		4	1		1	CC	
Etched Media Corporation*	WV-068B	1	1			NS	Consistent Compliance in 2015.
101 Gilman Ave		2		3		CC	
Campbell, CA 95008		3	1			NS	
40 CFR 433.17 Subpart A		4		1	1	CC	
Evoqua Water Technologies LLC	MI-145B	1				UN	Consistent Compliance in 2015. The IU was formerly named Siemens Water Technologies and was permitted under permit number MI-065C.
960 Ames Ave		2				UN	
Milpitas, CA 95035		3				UN	
SIU based on flow		4	2		1	CC	
Flex Interconnect Technologies	MI-116B	1			1	CC	Consistent Compliance in 2015.
1603 Watson Ct		2	1	1		CC	
Milpitas, CA 95035		3	1		1	CC	
40 CFR 433.17 Subpart A		4		1		CC	
Four-D Metal Finishing, Inc.*	SC-447B	1	2	5	4	CC	A Verbal Warning was issued for federal daily maximum and local maximum allowable zinc concentration limit violations in the first quarter of 2015.
1065 Memorex Dr		2		1	2	CC	
Santa Clara, CA 95050		3	1	1		CC	
40 CFR 433.17 Subpart A		4			1	CC	

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Fujifilm Dimatix, Inc.	SC-422B	1	1	1	1	CC	Consistent Compliance in 2015.
		2				NS	
2230 Martin Ave Santa Clara, CA 95050-2704		3	1	1	1	CC	
40 CFR 433.17 Subpart A		4	1			NS	
GE Mobile Water, Inc.	SJ-393A	1	1	7	1	CC	Consistent Compliance in 2015.
		2		6		NS	
5900 Silver Creek Valley Rd San Jose, CA 95138		3	1	7	1	CC	
SIU based on flow		4		6		NS	
Glencore Recycling, Inc.	SJ-556Z	1	1			NS	Zero Categorical Discharge. Consistent Compliance in 2015.
		2				NS	
1695 Monterey Rd San Jose, CA 95112		3	1			NS	
40 CFR 421 Subpart X		4				NS	
Gold Plating Services, Inc.	SC-432Z	1	1			NS	Zero Categorical Discharger. Consistent Compliance in 2015.
		2				NS	
3475 Victor St, Unit C Santa Clara, CA 95054		3	1			NS	
40 CFR 433.17 Subpart A		4	2			NS	
Gordon Biersch Brewing Company, Inc.	SJ-352C	1		8		CC	Consistent Compliance in 2015.
		2	1	7	1	CC	
357 E Taylor St San Jose, CA 95112-3105		3		7		CC	
SIU based on flow		4	1	6	1	CC	

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San José-Santa Clara Regional Wastewater Facility

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Gorilla Circuits 1509 Berger Dr San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-449B	1 2 3 4	1 1 2 1	10 7 11 6	2 1 2 1	CC IF/IL CC IL	Two Notices of Violation, an Administrative Citation, and a Compliance Schedule (from 7/21/2015 Compliance Meeting) were issued for an IU reported federal and local pH violation that lasted 120 minutes, for a local pH violation that lasted five minutes, and for federal and local failure to report violations in the second quarter of 2015. A Warning Notice and Administrative Citation were issued for late submittal of an SMR, five to 15 days late, in the fourth quarter of 2015.
Graphic Packaging International, Inc. 2600 De La Cruz Blvd Santa Clara, CA 95050 40 CFR 430 Subpart J	SC-412A	1 2 3 4	1 1 2 	7 7 8 6	1 1 1 	CC IL CC NS	A Warning Notice was issued for IU reported local pH violations that lasted 50 minutes in the second quarter of 2015.
Grinding, Dicing Services, Inc. dba GDSI 925 Berryessa Rd San Jose, CA 95133 40 CFR 469 Subpart A	SJ-599B	1 2 3 4	 1 1	 1 1	 1 1	NS CC IF/IL IL	Two Warning Notices and an Administrative Citation were issued for inappropriate sample frequency, a permit condition violation, and late submittal of an SMR, 31 to 45 days late, in the third quarter of 2015. A Notice of Violation and an Administrative Citation were issued for late submittal of reports requested in response to enforcement actions, 16 to 30 and 31 to 45 days late, in the fourth quarter of 2015.
Haro's Anodizing Specialists* 630 Walsh Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-222B	1 2 3 4	1 1 	 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.

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Haro's Metal Finishing, Inc. 439 Reynolds Cir San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-655Z	1 2 3 4	 1 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Headway Technologies, Inc. STT Bldg 5 463 S Milpitas Blvd Milpitas, CA 95035 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	MI-118B	1 2 3 4	 1 1 	5 3 5 2	1 1 	CC CC CC NS	Consistent Compliance in 2015.
Headway Technologies, Inc. 497 S Hillview Dr Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-057A	1 2 3 4	 1 1 	3 2 3 2	2 2 	CC CC CC NS	Consistent Compliance in 2015.
HGST, Inc. 5601 Great Oaks Pkwy San Jose, CA 95119 40 CFR 433.17 Subpart A	SJ-495A	1 2 3 4	1 1 1 1	7 8 7 7	1 1 1 	CC CC CC CC	Consistent Compliance in 2015.

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Highland Metals, Inc. 411 Perrymont Ave San Jose, CA 95125 40 CFR 433.17 Subpart A	SJ-676B	1 2 3 4	 2	 1	 1	UN UN UN CC	Consistent Compliance in 2015. The IU was formerly permitted under permit number SJ-628B under the same name.
Highland Metals, Inc. 411 Perrymont Ave San Jose, CA 95125 40 CFR 433.17 Subpart A	SJ-628B	1 2 3 4	1 3 	1 1 	 1 1	CC CC CC CC	Consistent Compliance in 2015. The IU changed ownership in the fourth quarter of 2015. The IU name did not change but the IU was re-permitted under permit number SJ-676B.
INTA Technologies 2281 Calle de Luna Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-307B	1 2 3 4	 2 1 	1 1 	1 1 	CC NS CC NS	Consistent Compliance in 2015.
Intel Corporation, SC1/SC2* 3065 Bowers Ave Santa Clara, CA 95052 40 CFR 433.17 Subpart A	SC-440A	1 2 3 4	 1 1	 2 4	2 1 	CC CC CC CC	Consistent Compliance in 2015.
International Disposal Corporation, Inc 700 Los Esteros Rd San Jose, CA 95134 SIU based on flow	SJ-437A	1 2 3 4	 1 1	1 2 	1 1 1	CC NS CC CC	Consistent Compliance in 2015.

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Intevac, Inc.*	SC-259B	1	1	1	2	CC	Consistent Compliance in 2015.
3580 Bassett St		2		1		CC	
Santa Clara, CA 95054-2704		3	1	2	1	CC	
40 CFR 469 Subpart A		4				NS	
Italix Company, Inc.	SC-410Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2015.
2232 Calle del Mundo		2	1			NS	
Santa Clara, CA 95054		3				NS	
40 CFR 433.17 Subpart A		4	1			NS	
J & B Enterprises	SC-388Z	1	1			NS	Zero Categorical Discharger. Consistent Compliance in 2015.
1650 Russell Ave		2				NS	
Santa Clara, CA 95054		3	1			NS	
40 CFR 421 Subpart X		4				NS	
JDS Uniphase*	SJ-493B	1	1	2	1	CC	Consistent Compliance in 2015. The IU changed ownership in the third quarter of 2015. The IU name changed to Lumentum and was re-permitted under permit number SJ-673B.
80 Rose Orchard Way		2	1	2	1	CC	
San Jose, CA 95134		3	1	2	1	CC	
40 CFR 469 Subpart A		4				NS	

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San José-Santa Clara Regional Wastewater Facility

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Jennings Technology Corporation* 970 McLaughlin Ave San Jose, CA 95122 40 CFR 468 Subpart A 40 CFR 433.17 Subpart A	SJ-216B	1 2 3 4	1 1 1 	2 2 3 2	1 1 3 1	IF CC CC CC	A Notice of Violation, Administrative Citation, and Compliance Schedule (from 6/24/2015 Compliance Meeting) were issued in the second quarter for a federal monthly average TTO concentration limit violation in the first quarter of 2015.
Johnson Matthey, Inc 1070 Commercial St, Suite 108 San Jose, CA 95112-1420 40 CFR 471 Subpart C	SJ-574Z	1 2 3 4	 1 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Kearney Pattern Works and Foundry 40 S Montgomery St San Jose, CA 95110 40 CFR 464	SJ-557Z	1 2 3 4	 1 1			NS NS IL NS	Zero Categorical Discharger. A Verbal Warning was issued for late submittal of a Zero Discharge Certification, five to 15 days late, in the third quarter of 2015.
Kion Technology, Inc.* 2190 Old Oakland Rd San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-191B	1 2 3 4	1 1 1 1	 3 1 2	1 3 	CC SNF IF/IL CC	A Warning Notice was issued for federal monthly average and federal daily maximum cyanide concentration limit violations in the second quarter of 2015. The SNF status in the second quarter of 2015 was based on the number of samples exceeding the federal monthly average and federal daily maximum cyanide concentration limits chronic 66%+ and TRC 33%+ criteria. A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the third quarter of 2015.

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KLA-Tencor Corporation*	MI-137B	1		1		CC	Consistent Compliance in 2015.
5 Technology Dr		2	1		1	CC	
Milpitas, CA 95035		3		1		CC	
40 CFR 433.17 Subpart A		4	1		1	CC	
KMIC Technology, Inc.*	SJ-561B	1				NS	Consistent Compliance in 2015.
2095 Ringwood Ave, Suite 10		2	1	1	1	CC	
San Jose, CA 95131		3				NS	
40 CFR 433.17 Subpart A		4	1	1	1	CC	
Leiter's Compounding Pharmacy	SJ-001NSC	1				NS	Consistent Compliance in 2015. The IU was formerly permitted under permit number SJ-663B and was re-permitted in the first quarter of 2015 as a Non-Significant Categorical Industrial User (NSCIU) under permit number SJ-001NSC.
17 Great Oaks Blvd		2				NS	
San Jose, CA 95119		3				NS	
40 CFR 439 Subpart D		4	1	3		CC	
Leiter's Compounding Pharmacy	SJ-663B	1	1			NS	Consistent Compliance in 2015. The IU was formerly permitted under permit number SJ-663B and was re-permitted in the first quarter of 2015 as a Non-Significant Categorical Industrial User (NSCIU) under permit number SJ-001NSC.
17 Great Oaks Blvd		2				NS	
San Jose, CA 95119		3				NS	
40 CFR 439 Subpart D		4				NS	
Lenthor Engineering, Inc.	MI-141B	1	1	3	2	CC	A Verbal Warning will be issued for a federal monthly average, federal daily maximum, and local maximum allowable copper concentration limit violation in the first quarter of 2016.
311 Turquoise St		2	1	3	1	CC	
Milpitas, CA 95035		3	1	3	1	CC	
40 CFR 433.17 Subpart A		4	2	3	2	IF/IL	

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San José-Santa Clara Regional Wastewater Facility

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Lenthor Engineering, Inc. 1478 Gladding Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-132B	1 2 3 4	2 1 3 	1 3 	1 1 1 	CC CC CC NS	Consistent Compliance in 2015.
Lenthor Engineering, Inc. 1514 Gladding Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-018B	1 2 3 4	1 1 	3 	1 	CC NS NS NS	Consistent Compliance in 2015. The IU ceased operation and was de-permitted in the second quarter of 2015.
Linear Technology Corp. 1630 McCarthy Blvd Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-006A	1 2 3 4	1 1 	3 2 3 2	 1 1	CC CC CC IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the fourth quarter of 2015.
Linear Technology Corporation* 275 S Hillview Dr Milpitas, CA 95035 40 CFR 469 Subpart A	MI-088B	1 2 3 4	1 1 1	4 1 5 2	 1 1	CC CC CC IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the fourth quarter of 2015.
List Biological Laboratories, Inc 540 Division St Campbell, CA 95008 40 CFR 439 Subpart A	WV-064B	1 2 3 4	 1 1 	 1 1	 1 	NS CC NS SNF	A Notice of Violation and Compliance Schedule will be issued in the first quarter of 2016 for federal monthly average and federal daily maximum chloroform concentration limit violations in the fourth quarter of 2015. The SNF status in the fourth quarter of 2015 was based on the number of samples exceeding the federal monthly average and federal daily maximum chloroform concentration limits TRC 33%+ criteria.

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Lumentum Operations LLC* 1750 Automation Pkwy San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-674B	1				UN	Consistent Compliance in 2015. The IU was re-permitted in the third quarter of 2015 due to an ownership change and significant change. The IU was formerly named JDS Uniphase and was permitted under permit number SJ-493B as a Non-Significant Industrial User (NSU).
		2				UN	
		3	1			NS	
		4	1	2	1	CC	
Lumentum Operations, LLC* 80 Rose Orchard Way San Jose, CA 95134 40 CFR 469 Subpart A	SJ-673B	1				UN	Consistent Compliance in 2015. The IU was formerly named JDS Uniphase and was permitted under permit number SJ-606B.
		2				UN	
		3	1			NS	
		4	1	2	1	CC	
Lumileds LLC* 370 W Trimble Rd San Jose, CA 95131 40 CFR 469 Subpart A	SJ-528B	1		8	1	CC	Consistent Compliance in 2015. The IU was formerly named Philips Lumileds Lighting Company, LLC.
		2	2	6	1	CC	
		3		7	1	CC	
		4	1	6		NS	
Magic Spray 930 George St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-453Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2015.
		2	1			NS	
		3				NS	
		4	1			NS	

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San José-Santa Clara Regional Wastewater Facility

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Mannington Mills dba Burke Industries 2250 S 10th St San Jose, CA 95112 40 CFR 428 Subpart G	SJ-594B	1 2 3 4	 1 1 1	 3 2 4	1 2 1	CC SNL CC IL	A Warning Notice was issued in the third quarter for a local maximum allowable oil and grease concentration limit violation in the second quarter of 2015. The SNL status in the second quarter of 2015 was based on the number of samples exceeding the local maximum allowable oil and grease concentration limit TRC 33%+ criteria. A Warning Notice was issued for a local maximum allowable zinc concentration limit violation in the fourth quarter of 2015.
Mantrex, Inc. dba Wit Sales & Refining 538 Phelan Ave San Jose, CA 95112 40 CFR 421 Subpart X	SJ-559Z	1 2 3 4	1 1 			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Mass Precision, Inc.* 2110 Oakland Rd San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-664B	1 2 3 4	 1 1	1 2 	1 2 1	CC CC CC CC	Consistent Compliance in 2015.
Maxim Integrated Products, Inc.* 3725 N 1st St San Jose, CA 95134 40 CFR 469 Subpart A	SJ-369B	1 2 3 4	 1 3	6 8 6 8	2 1 	CC CC CC CC	Consistent Compliance in 2015. A Warning Notice was issued for IU reported federal and local pH violations that lasted five minutes in the second quarter of 2015. The IU ceased operation and was de-permitted in the fourth quarter of 2015.

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				POTW	IU		
Metal Finishing Solutions, Inc.*	SC-438B	1	1		1	CC	A Warning Notice was issued for a federal monthly average, federal daily maximum, and local maximum allowable zinc concentration limit violations in the fourth quarter. The SNF status in the fourth quarter of 2015 was based on the number of samples exceeding the federal monthly average zinc concentration limit TRC 33%+ criteria.
870 Comstock St		2	1	1		CC	
Santa Clara, CA 95054		3	2		1	CC	
40 CFR 433.17 Subpart A		4	1	2	4	SNF	
Metcalf Energy Center LLC	SJ-515B	1		1	1	CC	Consistent Compliance in 2015.
1 Blanchard Rd		2	1			NS	
Coyote, CA 95013		3			1	CC	
40 CFR 423		4	1	1		CC	
Micrel, Inc.	SJ-258A	1	1	8		CC	A Verbal Warning was issued for IU reported local pH violations that lasted two and 55 minutes in the third quarter of 2015. A Verbal Warning and two Warning Notices were issued for IU reported local pH violations that lasted two, three, and 40 minutes in the fourth quarter of 2015.
1849 Fortune Dr		2		6	1	CC	
San Jose, CA 95131		3		6		IL	
40 CFR 469 Subpart A		4	2	8	1	IF/IL	
Micro-Chem, Inc.	SC-218B	1			1	CC	A Verbal Warning and a Notice of Violation were issued for local maximum allowable copper and lead concentration limit violations in the second quarter of 2015. A Verbal Warning was issued for failure to maintain pH monitoring equipment, a permit condition violation, in the fourth quarter of 2015.
2986 Oakmead Village Ct		2	3	4	3	IL	
Santa Clara, CA 95051		3			1	CC	
40 CFR 433.17 Subpart A		4	2	2		IL	
Microsemi, Inc.*	SC-380B	1	1	2		CC	Consistent Compliance in 2015.
3000 Oakmead Village Dr		2			1	CC	
Santa Clara, CA 95051		3		1		CC	
40 CFR 469 Subpart A		4	1		1	CC	

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Mohawk Packing, Div. of John Morrell 1660 Old Bayshore Hwy San Jose, CA 95112 SIU based on flow	SJ-373C	1 2 3 4	1 1 	7 7 8 8	2 2 1	CC CC IL IL	A Warning Notice was issued for IU reported local pH violations that lasted five minutes in the first quarter of 2015. A Verbal Warning and Warning Notice were issued for IU reported local pH violations that lasted four minutes and a local maximum allowable oil and grease concentration limit violation in the third quarter of 2015. Three Warning Notices were issued for IU reported federal and local pH violations that lasted five, 10, and 40 minutes in the fourth quarter of 2015.
Momentum Technologies Corp. dba Momentum Metal Finishing* 1232 Memorex Dr Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-381B	1 2 3 4	 1 1 	 2 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.
M-Pulse Microwave, Inc.* 576 Charcot Ave San Jose, CA 95131 40 CFR 469 Subpart A	SJ-035B	1 2 3 4	 1 2	1 1 	 2 1	CC IF/IL IF/IL CC	Two Warning Notices were issued in the third quarter for inappropriate sample frequency, a permit condition violation, in the third quarter, federal and local pH violations that lasted one and 15 minutes in the first and second quarters, and for federal and local failure to report violations in the third quarter of 2015.
Multitest 3021 Kenneth St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-301B	1 2 3 4	1 1 1 1	2 2 2 3	6 3 2 1	IF/IL CC CC IF/IL	A Warning Notice was issued in the fourth quarter for federal and local pH violations that lasted two minutes in the first quarter and for federal and local failure to report violations in the fourth quarter of 2015.

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Newport Corporation*	SC-416B	1	1	1	1	CC	Consistent Compliance in 2015.
3635 Peterson Way		2				NS	
Santa Clara, CA 95054		3	1	2	1	CC	
40 CFR 433.17 Subpart A		4				NS	
Noel Technologies, Inc.*	WV-071B	1	2		5	CC	Consistent Compliance in 2015.
1510 Dell Ave		2	1	1		CC	
Campbell, CA 95008		3	1		1	CC	
40 CFR 469 Subpart A 40 CFR 433.17 Subpart A		4	1	1	3	CC	
Nu-Metal Finishing, Inc.	SC-452B	1	1			NS	Consistent Compliance in 2015. The IU changed ownership in the second quarter of 2015. The IU name changed to EPZ, Inc. and was re-permitted under permit number SC-458B.
2262 Calle Del Mundo		2	1	1		CC	
Santa Clara, CA 95054		3				UN	
40 CFR 433.17 Subpart A		4				UN	
OLS Energy-Agnews, Inc.	SJ-388B	1			1	CC	Consistent Compliance in 2015.
3800 Cisco Way		2	1	1		CC	
San Jose, CA 95134		3		1	1	CC	
40 CFR 423		4	1	1		CC	

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Pacific Photo Lithography	SC-460Z	1				UN	Zero Categorical Discharger. Consistent Compliance in 2015. The IU was formerly permitted under permit number SC-393Z.
1440 Norman Ave		2	1			NS	
Santa Clara, CA 95054		3				NS	
40 CFR 433.17 Subpart A		4	1			NS	
Pacific Photo Lithography	SC-393Z	1	1			NS	Zero Categorical Discharger. Consistent Compliance in 2015. The IU moved in the first quarter of 2015 and was issued permit number SC-460Z.
3255 Woodward Ave		2				UN	
Santa Clara, CA 95054		3				UN	
40 CFR 433.17 Subpart A		4				UN	
PacTech USA	SC-343B	1		1		CC	Consistent Compliance in 2015.
328 Martin Ave		2	1		1	CC	
Santa Clara, CA 95050		3	1	1		CC	
40 CFR 433.17 Subpart A		4	1		1	CC	
Parlex Corporation*	SJ-459B	1	1	1		CC	Consistent Compliance in 2015.
1756 Junction Ave		2			1	CC	
San Jose, CA 95112		3		1		CC	
40 CFR 433.17 Subpart A		4	1		1	CC	
PerkinElmer, Inc.	SC-264A	1	1	2		CC	A Notice of Violation was issued for IU reported local pH violations that lasted 87 minutes in the second quarter of 2015.
2175 Mission College Blvd		2	1	1	2	IL	
Santa Clara, CA 95054		3		1		CC	
40 CFR 469 Subpart A		4	1		1	CC	

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PK Selective Metal Plating, Inc.*	SC-013B	1	1	1		CC	A Warning Notice was issued for late submittal of an SMR, five to 15 days late, and for inappropriate sample frequency, a permit condition violation, in the second quarter of 2015.
415 Mathew St		2			1	IF/IL	
Santa Clara, CA 95050		3	2	1		CC	
40 CFR 433.17 Subpart A		4			2	NS	
Process Stainless Lab, Inc.	SC-276B	1	1	1		CC	Consistent Compliance in 2015.
1280 Memorex Dr		2	1		1	CC	
Santa Clara, CA 95050		3		1		CC	
40 CFR 433.17 Subpart A		4	1		1	CC	
Prodigy Surface Tech, Inc.*	SC-344B	1	1		1	CC	A Warning Notice was issued in the third quarter for local pH violations in the second quarter that lasted one minute each and for federal and local failure to report violations in the third quarter of 2015.
807 Aldo Ave, Suite 102		2		2		CC	
Santa Clara, CA 95054		3	2		1	IF/IL	
40 CFR 433.17 Subpart A		4	1	2		CC	
Prudential Overall Supply	MI-040B	1	1	2		CC	Consistent Compliance in 2015.
1429 N Milpitas Blvd		2		3	1	CC	
Milpitas, CA 95035		3	1	4		CC	
SIU based on flow		4		4	1	CC	
Pyramid Circuits, Inc.	SC-429B	1	1			NS	Consistent Compliance in 2015. The IU ceased operation and was de-permitted in the second quarter of 2015.
1405 Richard Ave		2				NS	
Santa Clara, CA 95050		3				NS	
40 CFR 433.17 Subpart A		4				NS	

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Quality Plating, Inc.	SJ-079B	1	1	1	1	CC	Consistent Compliance in 2015.
1680 Almaden Expy, Suite H & I		2		1		CC	
San Jose, CA 95125-1324		3	1	1	1	CC	
40 CFR 433.17 Subpart A		4				NS	
QualTech Circuits, Inc.	SC-345B	1	1	1		CC	A Warning Notice was issued for a federal monthly average cadmium concentration limit violation and for federal and local failure to report the violation in the fourth quarter of 2015. The SNF status in the fourth quarter of 2015 was based on the number of samples exceeding the federal monthly average cadmium concentration limit TRC 33%+ criteria. Only one sample was collected in the fourth quarter of 2015.
1101 Comstock St		2		1	1	CC	
Santa Clara, CA 95054		3	2	1		CC	
40 CFR 433.17 Subpart A		4			3	SNF/IL	
QuantumClean	SJ-545B	1	1			NS	Consistent Compliance in 2015.
1710 Ringwood Ave		2		1	1	CC	
San Jose, CA 95131-1711		3	1			NS	
40 CFR 433.17 Subpart A		4		2		CC	
R. C. Refinishing	SJ-567Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2015.
1617 Pomona Ave		2	1			NS	
San Jose, CA 95110		3	1			NS	
40 CFR 433.17 Subpart A		4				NS	
S.J. Valley Plating, Inc.*	SC-017B	1	2	1	1	CC	Consistent Compliance in 2015.
491 Perry Ct		2	1		1	CC	
Santa Clara, CA 95054		3	1	2		CC	
40 CFR 433.17 Subpart A		4			1	NS	

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San Jose Die Casting Corp. 2475 Autumnvale Dr San Jose, CA 95131 40 CFR 464 Subpart A	SJ-554Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2015.
		2	1			NS	
		3				NS	
		4	1			NS	
San Jose State University Cogen Plant 260 S 9th St San Jose, CA 95112 SIU based on flow	SJ-448B	1	1	2	1	CC	Consistent Compliance in 2015.
		2				NS	
		3		1	1	CC	
		4	1			NS	
San Jose Water Company 21200 Congress Springs Rd Saratoga, CA 95070 SIU based on flow	WV-902B	1		1	1	CC	Consistent Compliance in 2015.
		2	1			NS	
		3			1	CC	
		4	1	1		CC	
Sanmina Corp Plant I 2101 O'Toole Ave San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-022A	1	1	7	2	CC	A Verbal Warning and a Warning Notice were issued for IU reported federal and local pH violations that lasted 20 minutes and for failure to maintain refrigerated sampling equipment, a permit condition violation, in the second quarter of 2015. A Verbal Warning was issued for a local maximum allowable nickel concentration limit violation in the third quarter of 2015. A Warning Notice was issued for improper use of diluting waters in the fourth quarter of 2015.
		2	1	7	1	IF/IL	
		3	2	11	1	CC	
		4	1	7	2	IF/IL	

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Sanmina Corp Plant II*	SJ-043A	1	1	8		CC	Consistent Compliance in 2015.
2068 Bering Dr		2		6		CC	
San Jose, CA 95131-2009		3	1	9	1	CC	
40 CFR 433.17 Subpart A		4	1	7		CC	
Santa Clara Plating Co.*	SC-029B	1	1		1	CC	Consistent Compliance in 2015.
1769 Grant St		2		2	1	CC	
Santa Clara, CA 95050		3	1			NS	
40 CFR 433.17 Subpart A		4		1	1	CC	
Scientific Metal Finishing, Inc.	SC-450Z	1				NS	Zero categorical discharger. Consistent Compliance in 2015.
3180 Molinaro St		2	1			NS	
Santa Clara, CA 95054		3	1			NS	
40 CFR 433.17 Subpart A		4	1			NS	
Semiconductor Tooling Services, Inc.*	SJ-657B	1	1	1	1	CC	Consistent Compliance in 2015.
6781 Via del Oro		2				NS	
San Jose, CA 95119		3	1	1	1	CC	
40 CFR 433.17 Subpart A		4				NS	

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Siemens Water Technologies LLC 960 Ames Ave Milpitas, CA 95035 SIU based on flow	MI-065C	1 2 3 4	 1 	4 1 4 1	 1 	IF/IL IF/IL IF/IL CC	A Verbal Warning was issued for late submittal of an SMR, five to 15 days late, in the first quarter of 2015. A Warning Notice and a Notice of Violation were issued in the third quarter for inappropriate sample frequency and failure to notify of ownership change, both permit condition violations, in the second and third quarters of 2015. The IU changed ownership in the first quarter of 2014. The IU name changed to Evoqua Water Technologies LLC and was re-permitted under permit number MI-145B.
Silicon Microstructures 1701 McCarthy Blvd Milpitas, CA 95035 40 CFR 469 Subpart A	MI-108B	1 2 3 4	1 1 	 2 1 1	 2 	NS CC IF/IL CC	A Warning Notice was issued for IU reported federal and local pH violations that lasted 30 minutes in the third quarter of 2015.
Silicon Valley Electroplating Corp. 1486 Gladding Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-055B	1 2 3 4	 1 		1 	CC NS NS NS	Consistent Compliance in 2015. The IU ceased operation and was de-permitted in the second quarter of 2015.
Solar Junction Inc.* 401 Charcot Ave San Jose, CA 95131 40 CFR 469 Subpart A	SJ-624B	1 2 3 4				NS NS NS NS	Consistent Compliance in 2015. The IU ceased operation and was de-permitted in the first quarter of 2015.

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Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 SIU based on flow	MI-128B	1 2 3 4	 2 1 2	2 3 2 4	1 1 	IF/IL IL IF/IL SNF/SNL	A Warning Notice and Notice of Violation were issued in the fourth quarter for 13 federal and local pH violations in the first, second, third, and fourth quarters that lasted three to 25 minutes and for federal and local failure to report violations in the fourth quarter, and for late submittal of an SMR, 31 to 45 days late, and late submittal of an SMR, 91 + days late, in the third and fourth quarters of 2015. The SNF/SNL status in the fourth quarter of 2015 was based on late submittal of an SMR, greater than 45 days late.
Streamline Circuits 1415 Richard Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-350A	1 2 3 4	1 2 2 1	3 4 3 2	1 4 2 1	CC IL CC CC	A Notice of Violation was issued for a local maximum allowable copper concentration limit violation in the second quarter of 2015.
Sun Surface Technology 950 Rincon Cir San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-510B	1 2 3 4	1 1 	 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.
Superior Chrome* 1616 Pomona Ave San Jose, CA 95110-3510 40 CFR 433.17 Subpart A	SJ-263B	1 2 3 4	 4 1 	1 1 	 1 1	CC CC IF/IL CC	A Warning Notice was issued for failure to maintain pH monitoring equipment, a permit condition violation, in the third quarter of 2015.

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San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Supertex, Inc.* 71 Vista Montana Dr San Jose, CA 95134 40 CFR 469 Subpart A	SJ-398B	1 2 3 4	2 1 3 	9 8 4 	1 	CC CC SNL NS	A Verbal Warning was issued for a local maximum allowable nickel concentration limit violation in the third quarter of 2015. The SNL status in the third quarter of 2015 is based on the number of samples exceeding the local maximum allowable nickel concentration limit chronic 66%+ and TRC 33%+ criteria. Only one sample was collected in the third quarter of 2015. The IU ceased operation and was de-permitted in the third quarter of 2015.
SV Probe, Inc. 4251 Burton Dr Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-385Z	1 2 3 4	1 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015.
Swift Metal Finishing* 1161 Richard Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-035B	1 2 3 4	1 1 2 	 1 1	3 1 1 	CC CC IF/IL IL	A Warning Notice was issued in the fourth quarter for late submittal of an SMR in the fourth quarter, 16 to 30 days late, and for inappropriate sample frequency, a permit condition violation, in the third quarter of 2015.
T. Marzetti Co.- West 876 Yosemite Dr Milpitas, CA 95035 SIU based on flow	MI-004C	1 2 3 4	1 1 1	3 3 3 3	3 4 3 3	CC CC CC CC	Consistent Compliance in 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Telewave, Inc 660 Giguere Ct San Jose, CA 95133 40 CFR 433.17 Subpart A	SJ-471B	1 2 3 4	 1 1	 1 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.
THAT Corporation* 505 Fairview Way Milpitas, CA 95035 40 CFR 469 Subpart A	MI-078B	1 2 3 4	1 1 1 1	 1 1	1 1 	CC CC IF/IL CC	A Warning Notice was issued in the fourth quarter for local pH violations that lasted one minute each and for federal and local failure to report violations in the third quarter of 2015.
The Newark Group, Inc. dba California Paperboard Corp. 525 Mathew St Santa Clara, CA 95050 40 CFR 430 Subpart J	SC-459B	1 2 3 4	 1 1	 7 6	 1	UN NS CC IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, and for late submittal of an SMR, 16 to 30 days late, in the fourth quarter of 2015. The IU was formerly named California Paperboard Corp. and was permitted under permit number SC-005C.
Thin Film Electronics, Inc.* 2865 Zanker Rd San Jose, CA 95132 40 CFR 469 Subpart A	SJ-665B	1 2 3 4	 1 1	 2 1	1 1 	CC CC CC CC	Consistent Compliance in 2015.
Toppan Photomasks, Inc.* 2970 Coronado Dr Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-050B	1 2 3 4	 1 2 	 1 	1 1 	CC CC CC NS	Consistent Compliance in 2015. The IU ceased operation and was de-permitted in the fourth quarter of 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

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Triad Tool & Engineering, Inc. 1750 Rogers Ave San Jose, CA 95112 40 CFR 464 Subpart D 40 CFR 464 Subpart A	SJ-560Z	1 2 3 4	1 1 			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015. The IU changed ownership in the first quarter of 2015. The IU was formerly permitted under permit number SJ-560Z and was re-permitted under permit number SJ-671Z.
Triad Tool & Engineering, Inc. 1750 Rogers Ave San Jose, CA 95112 40 CFR 464 Subpart D 40 CFR 464 Subpart A	SJ-671Z	1 2 3 4	 1			NS NS NS NS	Zero Categorical Discharger. Consistent Compliance in 2015. The IU changed ownership in the first quarter of 2015. The IU was formerly permitted under permit number SJ-560Z and was re-permitted under permit number SJ-671Z.
TTM Technologies, Inc - Santa Clara Division* 359 Mathew St Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-374A	1 2 3 4	1 2 2 1	2 3 3 2	1 1 2 2	CC CC CC CC	Consistent Compliance in 2015.
Uni-Flex Circuits, Inc. 1782 Angela St San Jose, CA 95125-1253 40 CFR 433.17 Subpart A	SJ-399B	1 2 3 4	1 1	1 2 	1 1 	CC NS CC NS	Consistent Compliance in 2015.

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San José-Santa Clara Regional Wastewater Facility

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United Supertek, Inc. 118 Charcot Ave San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-122B	1 2 3 4	 1 1	1 1 	1 1 	CC NS CC IL	A Verbal Warning was issued for late submittal of an SMR, five to 15 days late, in the fourth quarter of 2015.
Universal Semiconductor* 1925 Zanker Rd San Jose, CA 95112 40 CFR 469 Subpart A 40 CFR 433.17 Subpart A	SJ-150B	1 2 3 4	 1 1 	2 2 	 1 1	CC CC CC CC	Consistent Compliance in 2015.
University Plating 650 University Ave San Jose, CA 95110 40 CFR 433.17 Subpart A	SJ-028B	1 2 3 4	1 1 1 1	1 1 1 1	2 1 1	CC CC CC CC	Consistent Compliance in 2015.

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Compliance Activities 2015

San José-Santa Clara Regional Wastewater Facility

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Vacuum Engineering & Materials Co. 390 Reed St Santa Clara, CA 95050 40 CFR 471 Subpart D	SC-443B	1 2 3 4	1 1	2 1 1	2 2	SNF NS CC SNF/IL	A Verbal Warning was issued for a federal monthly average copper concentration limit violation in the first quarter of 2015. A Verbal Warning was issued for a federal monthly average copper concentration limit violation in the fourth quarter of 2015. A Notice of Violation was issued for a federal monthly average and federal daily maximum copper concentration limit violation, for federal and local failure to report violations, and for inappropriate sample frequency, a permit condition violation, in the fourth quarter of 2015. The SNF status in the first quarter of 2015 was based on the number of samples exceeding the federal monthly average copper concentration limit chronic 66%+ and TRC 33%+ criteria. The SNF status in the fourth quarter of 2015 was based on the number of samples exceeding the federal monthly average copper concentration limit TRC 33%+ criteria.
Vector Fabrication 1629 Watson Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-059B	1 2 3 4	 1 1		 1 	NS NS CC NS	Consistent Compliance in 2015. No discharge in 2015. IU Sample collected was from the last water discharged to the sample point.
Viasystems Corporation 335 Turtle Creek Ct San Jose, CA 95125 40 CFR 433.17 Subpart A	SJ-625B	1 2 3 4	1 2 1 1	8 8 8 8	2 1 1 1	CC CC CC CC	Consistent Compliance in 2015.
Viasystems, Inc. 1831 Tarob Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-014A	1 2 3 4	1 1 1 2	4 4 8 5	1 1 1 1	CC CC CC SNF/SNL	A Notice of Violation and Compliance Schedule (from 1/20/2016 Compliance Meeting) were issued for falsification of information in the fourth quarter of 2015. The SNF/SNL status in the fourth quarter was based on falsification of information.

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FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES POTW	SAMPLES IU	COMPLIANCE STATUS	NOTES
Vishay/Siliconix* 2201 Laurelwood Rd Santa Clara, CA 95054 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	SC-282A	1 2 3 4	 1 1 	 3 3	1 1 	CC CC CC CC	Consistent Compliance in 2015.
Wafer Reclaim Service, LLC 2240 Ringwood Ave San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-552B	1 2 3 4	 1 1	7 6 7 6	 1 1	CC CC CC CC	Consistent Compliance in 2015.
WD Media, Inc. 1710 Automation Pkwy San Jose, CA 95131 SIU based on flow	SJ-551A	1 2 3 4	1 1 	2 1 	 1 1	CC CC CC CC	Consistent Compliance in 2015.
Winslow Automation, Inc., dba SIX SIGMA 905 Montague Expy Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-106B	1 2 3 4	 1 1	 2 1	 1 1	NS CC NS CC	Consistent Compliance in 2015.

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Table of Administrative Citations Issued in 2015

Company Name	Permit #	Date Issued	Date of Violation	Amount	ViolationType	Parameter
Restoration Management Co		3/13/15	3/6/15	$ 500.00	Discharge Reports {Late Reporting (31 - 45 days late)}	Late SMR
Eggo Company	SJ-021C	4/10/15	4/6/15	$ 500.00	Discharge Reports {Late Reporting (31 - 45 days late)}	Late SMR
Silicon Quest International, Inc.	SJ-638B	5/8/15	5/1/15	$ 625.00	Discharge Reports {Late Reporting (31 - 45 days late)}	Late SMR
Well Test, Inc.	SJ-247T	5/22/15	5/7/15	$ 500.00	Discharge Reports {Late Reporting (31 - 45 days late)}	Late SMR
California Site Services	SP-019A	6/4/15	3/26/15	$ 500.00	Permit Conditions	
Nor Cal Portable Services, Inc.	SP-010A	6/4/15	4/28/15	$ 500.00	Permit Conditions	
Gorilla Circuits	SJ-449B	6/12/15	5/10/15	$ 625.00	Corrosive Matter pH greater than or equal to 12.5	pH
Restoration Management Co		6/15/15	6/9/15	$ 1,000.00	Discharge Reports {Late Reporting (61-90 days late)}	Late SMR
AIET	SJ-623B	6/18/15	5/26/15	$ 312.50	Discharge Reports {Late Reporting (16 - 30 days late)}	Late SMR
Grinding, Dicing Services, Inc. dba GDSI	SJ-599B	9/22/15	9/9/15	$ 500.00	Discharge Reports {Late Reporting (31 - 45 days late)}	Late SMR
Skanska Shimmick Herzog Joint Venture	SJ-246T	9/22/15	9/16/15	$ 375.00	Discharge Reports {Late Reporting (5 - 15 days late)}	Late SMR
Skanska Shimmick Herzog Joint Venture	SJ-242T	9/22/15	9/16/15	$ 1,125.00	Discharge Reports {Late Reporting (46-60 days late)}	Late SMR
Skanska-Shimmick-Herzog JV	SJ-260T	9/22/15	9/16/15	$ 1,500.00	Discharge Reports {Late Reporting (90+ days late)}	Late SMR
Skanska-Shimmick-Herzog, JV	SJ-264T	9/22/15	9/17/15	$ 375.00	Discharge Reports {Late Reporting (16 - 30 days late)}	Late SMR
Mercedes- Benz of Stevens Creek	SJ-170B	9/25/15	9/3/15	$ 1,500.00	Exceeding Concentration Maximum Limit	Lead
Alsco	SJ-546B	9/28/15	7/31/15	$ 250.00	Exceeding Concentration Maximum Limit	Oil and Grease
Alsco	SJ-546B	9/28/15	8/4/15	$ 312.50	Exceeding Concentration Maximum Limit	Oil and Grease
California Site Services	SP-019A	12/2/15	10/29/15	$ 160.00	Source Certification	
Gorilla Circuits	SJ-449B	12/3/15	11/11/15	$ 250.00	Discharge Reports {Late Reporting (5 - 15 days late)}	Late SMR
Grinding, Dicing Services, Inc. dba GDSI	SJ-599B	12/4/15	10/23/15	$ 500.00	Discharge Reports {Late Reporting (31 - 45 days late)}	Late SMR
			Total	$17,910.00		

Federal Categorical Standards

This section includes a list of all EPA categories and standards that are regulated by the Wastewater Facility. The following tables are included in this section:

- List of EPA federal categories that are regulated by the Wastewater Facility with their descriptions.
- List of the Wastewater Facility's other regulated categories.
- Table summarizing the number of Categorical Industrial Users (CIUs) and the federal standard limits for each category. Some of these categories do not include limits, since the limits are production based and all of these regulated facilities are zero discharge.
- List of industrial users subject to limits based on combined waste formulas and the calculations for the combined waste stream generated limits for each applicable CIU.

The Compliance Activities 2015 tables includes a list of applicable federal categories for each site.

List of EPA Categories and Their Descriptions

40 CFR 413(L) Subparts A-H	**Electroplating - Existing Source Job Shops Discharging Less than 10,000 GPD**
40 CFR 421 Subpart X	**Nonferrous Metals Manufacturing - Secondary Precious Metals**
40 CFR 423	**Steam Electric Power Generating - New Source**
40 CFR 428 Subpart G	**Rubber Manufacturing**
40 CFR 430 Subpart J	**Pulp, Paper and Paperboard**
40 CFR 433.17 Subpart A	**Metal Finishing - New Source**
40 CFR 437.47 Subpart D	**Multiple Wastestreams, (PSNS), (d) Combined Waste Receipts from Subpart A and C**
40 CFR 439 Subpart A	**Pharmaceutical Manufacturing**
40 CFR 439 Subpart D	**Pharmaceutical Manufacturing**
40 CFR 443 Subpart A	**Asphalt Emulsion Subcategory**
40 CFR 464	**Metal Molding and Casting**
40 CFR 464 Subpart A	**Metal Molding and Casting - Aluminum**
40 CFR 464 Subpart D	**Metal Molding and Casting - Zinc**
40 CFR 468 Subpart A	**Copper Forming**
40 CFR 469 Subpart A	**Electrical and Electronic Components - Semiconductor**
40 CFR 471 Subpart C	**Nonferrous Metals Forming and Metal Powders**
40 CFR 471 Subpart D	**Nonferrous Metals Forming and Metal Powders**

Other Regulated Categories

MISC	**All Other IUs Non-Categorical**
AUTO	**Automotive Repair Facilities**
CBMF	**Corrugated Box Manufacturing**
EPMN	**Electronics Parts Manufacturing Non-Categorical**
FPNS	**Food Processing - Non-Seasonal**
INLA	**Industrial Laundries**
PHPR	**Photographic Processing - Non-Categorical**

Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	**Maximum Limit**	**Monthly Average Limit**
Asphalt Emulsion Subcategory 40 CFR 443 Subpart A No. of CIUs: 1	Oil and Grease	100 mg/L	
Copper Forming	Cadmium	0.34 mg/L	0.13 mg/L
	Chromium Total	1.37 mg/L	0.85 mg/L
	Copper	1.71 mg/L	1.04 mg/L
	Lead	0.34 mg/L	0.21 mg/L
	Nickel	2.00 mg/L	1.20 mg/L
	Oil and Grease	0.40 mg/L	0.24 mg/L
	pH	>5.0 S.U.	
	Silver	0.21 mg/L	0.12 mg/L
	Total Toxic Organics	1.06 mg/L	0.01 mg/L
	Zinc	1.31 mg/L	0.74 mg/L
40 CFR 468 Subpart A No. of CIUs: 1			
Electrical and Electronic Components - Semiconductor 40 CFR 469 Subpart A No. of CIUs: 24	Total Toxic Organics	1.37 mg/L	
Electroplating - Existing Source Job Shops Discharging Less than 10,000 GPD	Cadmium	1.2 mg/L	
	Cyanide Amenable	5.0 mg/L	
	Lead	0.6 mg/L	
	Total Toxic Organics	4.57 mg/L	
40 CFR 413(L) Subparts A-H No. of CIUs: 1			
Metal Finishing - New Source	Cadmium	0.11 mg/L	0.07 mg/L
	Chromium Total	2.77 mg/L	1.71 mg/L
	Copper	3.38 mg/L	2.07 mg/L
	Cyanide Total	1.20 mg/L	0.65 mg/L
	Lead	0.69 mg/L	0.43 mg/L
	Nickel	3.98 mg/L	2.38 mg/L
	Silver	0.43 mg/L	0.24 mg/L
	Total Toxic Organics	2.13 mg/L	
	Zinc	2.61 mg/L	1.48 mg/L
40 CFR 433.17 Subpart A No. of CIUs: 108			
Metal Molding and Casting - Aluminum 40 CFR 464 Subpart A No. of CIUs: 2			

The count of Industrial Users and Categorical Industrial Users for each secton in this table entitled, "Categorical Standards," includes all companies including those that have gone out of business in the reporting year and those who are listed under multiple categories. The actual number of active permit as per the date of publishing may be less than those shown.

Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Metal Molding and Casting - Zinc 40 CFR 464 Subpart D No. of CIUs: 1			
Metal Molding and Casting 40 CFR 464 No. of CIUs: 1			
Multiple Wastestreams, (PSNS), (d) Combined Waste Receipts from Subpart A and C	2,4,6-Trichlorophenol	0.155 mg/L	0.106 mg/L
	Antimony	0.249 mg/L	0.206 mg/L
	Arsenic	0.162 mg/L	0.104 mg/L
	Cadmium	0.474 mg/L	0.0962 mg/L
	Chromium Total	15.5 mg/L	3.07 mg/L
	Cobalt	0.192 mg/L	0.124 mg/L
	Copper	4.14 mg/L	1.06 mg/L
	Lead	1.32 mg/L	0.283 mg/L
	Mercury	0.00234 mg/L	0.000739 mg/L
	Nickel	3.95 mg/L	1.45 mg/L
	o-Cresol	1.92 mg/L	0.561 mg/L
	p-Cresol	0.698 mg/L	0.205 mg/L
	Silver	0.120 mg/L	0.0351 mg/L
	Tin	0.409 mg/L	0.120 mg/L
	Titanium	0.0947 mg/L	0.0618 mg/L
	Vanadium	0.218 mg/L	0.0662 mg/L
	Zinc	2.87 mg/L	0.641 mg/L
40 CFR 437.47 Subpart D No. of CIUs: 1			
Nonferrous Metals Forming and Metal Powders 40 CFR 471 Subpart C No. of CIUs: 1			
Nonferrous Metals Forming and Metal Powders	Cadmium	0.02 mg/L	0.01 mg/L
	Copper	0.12 mg/L	0.07 mg/L
	Cyanide Total	0.02 mg/L	0.01 mg/L
	pH	>5.0 SU	
	Silver	0.03 mg/L	0.01 mg/L
40 CFR 471 Subpart D No. of CIUs: 1			
Nonferrous Metals Manufacturing - Secondary Precious Metals 40 CFR 421 Subpart X No. of CIUs: 3			

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Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Pharmaceutical Manufacturing	1,2-Dichlorobenzene	20.7 mg/L	8.2 mg/L
	1,2-Dichloroethane	20.7 mg/L	8.2 mg/L
	Acetone	20.7 mg/L	8.2 mg/L
	Benzene	3.0 mg/L	0.7 mg/L
	Chlorobenzene	3.0 mg/L	0.7 mg/L
	Chloroform	0.1 mg/L	0.03 mg/L
	Cyanide Total	33.5 mg/L	9.4 mg/L
	Diethylamine	255.0 mg/L	100 mg/L
	Diisopropyl ether	20.7 mg/L	8.2 mg/L
	Ethylacetate	20.7 mg/L	8.2 mg/L
	Hexane	3.0 mg/L	0.7 mg/L
	Isobutyraldehyde	20.7 mg/L	8.2 mg/L
	Isopropylacetate	20.7 mg/L	8.2 mg/L
	Methyl formate	20.7 mg/L	8.2 mg/L
	Methyl isobutyl ketone	20.7 mg/L	8.2 mg/L
	Methylene Chloride	3.0 mg/L	0.7 mg/L
	n-Amyl Acetate	20.7 mg/L	8.2 mg/L
	n-Butyl acetate	20.7 mg/L	8.2 mg/L
	n-Heptane	3.0 mg/L	0.7 mg/L
	Tetrahydrofuran	9.2 mg/L	3.4 mg/L
	Toluene	0.3 mg/L	0.2 mg/L
	Triethylamine	255.0 mg/L	100 mg/L
	Xylene	3.0 mg/L	0.7 mg/L
40 CFR 439 Subpart A No. of CIUs: 2			
Pharmaceutical Manufacturing	Acetone	20.7 mg/L	8.2 mg/L
	Ethylacetate	20.7 mg/L	8.2 mg/L
	Isopropylacetate	20.7 mg/L	8.2 mg/L
	Methylene Chloride 6	20.7 mg/L	8.2 mg/L
	n-Amyl Acetate	20.7 mg/L	8.2 mg/L
40 CFR 439 Subpart D No. of CIUs: 1			
Pulp, Paper and Paperboard	Pentachlorophenol	0.00096 mg/L	
	Trichlorophenol	0.00030 mg/L	
40 CFR 430 Subpart J No. of CIUs: 3			
Rubber Manufacturing	Oil and Grease	100.00 mg/L	
40 CFR 428 Subpart G No. of CIUs: 1			

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Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Steam Electric Power Generating - New Source 40 CFR 423 No. of CIUs: 4	Chromium Total	0.2 mg/L	0.2 mg/L
	Copper	1.0 mg/L	1.0 mg/L
	Zinc	1.0 mg/L	1.0 mg/L

The count of Industrial Users and Categorical Industrial Users for each secton in this table entitled, "Categorical Standards," includes all companies including those that have gone out of business in the reporting year and those who are listed under multiple categories. The actual number of active permit as per the date of publishing may be less than those shown.

List of Industrial Users Subject to Limits Based on Combined Waste Stream Formulas 2015

Permit #	Company Name
SJ-546B	Alsco
SJ-591B	Cobham Advanced Electronic Solutions
SC-173B	Coherent, Inc.
MI-118B	Headway Technologies, Inc. STT Bldg 5
SJ-495A	HGST, Inc.
SC-307B	INTA Technologies
SJ-493B	JDS Uniphase (Rose) (inactive)
SJ-216B	Jennings Technology Corporation
MI-141B	Lenthor Engineering, Inc.
MI-088B	Linear Technology Corporation
WV-064B	List Biological Laboratories, Inc
SJ-673B	Lumentum Operations LLC
SJ-528B	Lumileds LLC
WV-071B	Noel Technologies, Inc.
SJ-388B	OLS Energy-Agnews, Inc.
SC-343B	PacTech USA
SC-264A	PerkinElmer, Inc.
SC-429B	Pyramid Circuits, Inc. (inactive)
SC-350A	Streamline Circuits
MI-078B	THAT Corporation
SJ-150B	Universal Semiconductor
SC-282A	Vishay/Siliconix

Combined Wastestream Calculations for Alsco

Alternate Concentration Limit Formula
When total number of regulated wastestreams = 1, the following formula will apply;

$$Ct = \frac{Ci\,Fi}{Fi} \times \frac{(Ft - Fd)}{Ft}$$

Where,

Ct = Alternate concentration limit for the pollution in the combined wastestream
Ci = Concentration-based categorical pretreatment standard for pollutant in regulated stream i
Fi = Average daily flow (at least 30 day average) of regulated stream i
Fd = Average daily flow (at least 30 day average) of dilute wastestream(s)
Ft = Average daily flow (at least 30 day average) through the combined treatment facility (including regulated, unregulated, and dilute wastestreams)

Number of regulated streams =1
Therefore

$$\text{Ct for fats, oils, and grease} = \frac{195\ \text{mg/l} \times 51410\ \text{gpd}}{51410\ \text{gpd}} \times \frac{(55785\ \text{gpd} - 4375\ \text{gpd})}{55785\ \text{gpd}}$$

Ct = 180 mg/l fats, oils, and grease

Combined Wastestream Formula Calculations

For Sample Point 01

COBHAM DEFENSE ELECTRONICS
Permit No. SJ-591B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 469: 1.37 mg/l for TTOs
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 433: 2.13 mg/l for TTOs
Fi1 = Regulated Semiconductor flowstream, average daily flow: 2126 gpd
Fi2 = Regulated Metal Finishing flowstream, average daily flow: 264 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 2390 gpd

$$Ct = \frac{(1.37\text{ mg/l})\ (2126\text{ gpd}) + (2.13\text{ mg/l})\ (264\text{ gpd})}{(2126 + 264\text{ gpd})} \times \frac{(2390\text{ gpd} - 0\text{ gpd})}{2390\text{ gpd}}$$

$$Ct = \frac{2912.62 + 562.32}{2390}$$

Ct = 1.453 mg/l ~ 1.45 mg/l

Therefore, new modified TTO limit at sample point 01 = 1.45 mg/l

Combined Wastestream Formula Calculations for Coherent Federal TTO Limit

Federal TTO Limit for Semiconductor Manufacturing (40 CFR 469.12(a) = 1.37 mg/l

Semiconductor Manufacturing Flow Rate = 7,763 gallons per day

Laser Manufacturing Dilution Flow Rate = 8,606 gallons per day

Total Flow = 7,763 + 8,606 = 16,369 gallons per day

Coherent Federal TTO Limit =
(Federal TTO Limit for Semiconductor Manufacturing * Semiconductor Manufacturing Flow) / Total Flow

Coherent Federal TTO Limit =
(1.37 mg/l x 7,763 gal per day) / 16,369 gal = **0.65 mg/l**

Combined Wastestream Formula Calculations

For TTO limit at Sample Point #1

Magic Technologies, Inc.
Permit No. MI-118B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17 (a): 2.13 mg/l for TTOs
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 469.18 (a): 1.37 mg/l for TTOs

Fi1 = Regulated stream, average daily flow: 4610 gpd
Fi2 = Regulated stream, average daily flow: 13,266 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 17876 gpd

$$Ct = \frac{(1.37 \text{ mg/l})\ (13{,}266 \text{ gpd}) + (2.13 \text{ mg/l})\ (4{,}610\text{gpd})}{(13266 \text{ gpd}) + (4{,}610 \text{ gpd})} \times \frac{(17876 \text{ gpd} - 0 \text{ gpd})}{17876 \text{ gpd}}$$

Ct = 1.565 mg/l

Therefore**, new TTO limit** at sample point #1 = 1.57 mg/l

COMBINED WASTESTREAM FORMULA CALCULATIONS
HGST, INC.
SJ-495A
FEDERAL CATEGORICAL LIMITS

Outfall 050

Total Flow = 397,400 gpd

Dilution Flow = 187,900 gpd

Process Flow = 209,500 gpd

Example Calculation: Cadmium Daily Maximum Limit = 0.11 mg/l * 209,500 / 397,400 = 0.06 mg/l

Parameter	Metal Finishing Daily Maximum Limit from 40CFR433.17 (mg/l)	Metal Finishing Monthly Average Limit from 40CFR433.17 (mg/l)	HGST Daily Maximum Limit Adjusted by the Combined Wastestream Formula (mg/l)	HGST Monthly Average Limit Adjusted by the Combined Wastestream Formula (mg/l)
Cadmium	0.11	0.07	0.06	0.04
Chromium	2.77	1.71	1.46	0.90
Copper	3.38	2.07	1.78	1.09
Cyanide	1.20	0.65	0.64	0.34
Lead	0.69	0.43	0.36	0.23
Nickel	3.98	2.38	2.10	1.25
Silver	0.43	0.24	0.23	0.13
TTOs	2.13		1.12	
Zinc	2.61	1.48	1.38	0.78

Process flow includes manufacturing and scrubber discharges.
Dilution flow includes R.O. reject, boiler blowdown, D.I. regeneration, and domestic discharges.

Combined Wastestream Formula Calculations

For sample Point 1 & 2

INTA Technologies, LLC
Permit No. SC-307B

- Combined Wastestream Formula (CWF) -

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,

Ct = Modified concentration limit for the combined wastestream for **CN**

Ci = Categorical pretreatment standard concentration limit for parameter (i)

Fi= (i) wastewater flow Ft=Total wastewater flow Fd=Dilution wastewater flow

Applying the CWF to one regulated parameter with the same limit in two waste streams:

$$Ct1 = [(\Sigma C1F1)/(\Sigma F1)] \times [(Ft\text{-}Fd)/(Ft)] = [(C1\Sigma F1)/(\Sigma F1)] \times [(Ft\text{-}Fd)/(Ft)]$$
$$= C1 \times [(Ft\text{-}Fd)/(Ft)]$$

- CWF Limit Calculation for D_{max} -

Under 40 CFR 433.17(a): the daily concentration limit is Ci = 1.2 mg/l for **CN**

Fd = Dilution = noncyanide average daily flow regulated 40 CFR 433.17(a) = 95 gpd

Ft = Average total process flow through both the sample points: 123.5 gpd

Ct = (1.2 mg/l) x [(123.5 gpd – 95 gpd) / (123.5 gpd)]

Ct = 1. 2 x 0.23 mg/l

Ct = 0.276 ~ 0.28 mg/l

D_{max} = Ct = 0.28 mg/l

New D_{max} limit for CN at sample point 1 & 2 is 0.28 mg/l.

- CWF Limit Calculations for M_{avg} -

Under 40 CFR 433.17(a), the average monthly limit is Ci = 0.65 mg/l for **CN**

Fd = Dilution = noncyanide average daily flow regulated 40 CFR 433.17(a) = 95 gpd

Ft = Average total process flow through both the sample points: 123.5 gpd

As before: (CWF): Ct = Ci1 x [(Ft-Fd)/(Ft)]

Ct = (0.65mg/l) x [(123.5 gpd – 95 gpd) / (123.5 gpd)]

Ct = 0.65 x 0.23 mg/l

Ct = 0.150 ~ 0.15 mg/l

M_{max} = Ct = 0.15 mg/l

New M_{avg} limit for CN at sample point 1 & 2 is 0.15 mg/l.

Combined Wastestream Formula Calculations for JDS Uniphase Sample Point 02 Federal TTO Limit
WTS2 Elementary Neutralization

Federal TTO Limit for Semiconductor Manufacturing (40 CFR 469.12(a)) = 1.37 mg/l

Semiconductor Manufacturing Flow Rate = 13,395 gallons per day

RO DI Reject Dilution Flow Rate = 10,687 gallons per day

Total Flow = 13,395 + 10,687 = 24,082 gallons per day

JDS Uniphase Federal TTO Limit =
(Federal TTO Limit for Semiconductor Manufacturing * Semiconductor Manufacturing Flow) / Total Flow

JDS Uniphase Federal TTO Limit =
(1.37 mg/l x 13,395 gal per day) / 24,082 gal = **0.76 mg/l**

Jennings Technology Corporation
SJ-216B

Jennings Technology Corporation (Jennings) manufactures products using processes regulated under both the Copper Forming and Metal Finishing federal categories. They have a single area for wet chemistry that processes work pieces from both categories. There is one pretreatment system for the combined wastewater. The copper forming production based limits must be converted from mg/off-kg units as given in 40 CFR 468 to equivalent concentration limits in mg/liter. The copper forming limits are then combined with the 40 CFR 433 metal finishing limits using the combined wastestream formula to calculate the federal limits for Jennings.

The production process for copper formed parts includes pickling baths, pickling rinses, and surface coating. In addition, there is a pickling fume scrubber discharge, tumbling, and miscellaneous waste streams. The number of times the average copper formed part undergoes a given process is shown as the multiplier. Each of these process steps has an associated allowance of pollutants in the generated wastewater that are summed together into a total allowance for each pollutant for both daily maximum and monthly average (See Table 1).

Jennings forms copper parts using dies and presses. They assemble the copper parts with other work pieces and perform plating on the pieces and assemblies. The plating and other aqueous processes associated with the copper parts are regulated under the Copper Forming category. The plating of the other parts is regulated under the Metal Finishing category. Jennings has operated at this location since the 1940s, performing the same type of work. However, they have changed their wet processes over time and added additional pretreatment processes (ion exchange) in the mid 1990s. They are considered a new source. Jennings will be regulated under the New Source Metal Finishing and New Source Copper Forming categories under 40 CFR 433.17 and 40 CFR 468.15. Jennings performs operations defined as Pickling, Pickling Rinse, Pickling Fume Scrubbing, Tumbling, and Miscellaneous under the Copper Forming category, 40 CFR 468.15(k),(m),(n),(o),(q).

Jennings has completed the process for approval of a sampling waiver for four organic solvents (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) as neither present nor expected to be present. Jennings submitted a technical evaluation of their facility demonstrating that these compounds are not present. In addition, Jennings sampled their incoming water and the wastewater from a number of locations to demonstrate the four organic pollutants are not added to the water during processing. Jennings will certify with each Self-Monitoring Report that the four specific organic solvents are not present or expected to be present in their wastewater, and also that they are following a Solvent Management Plan for all TTOs.

Table 1 - Jennings Technology Corporation Production Based Limits information

Copper Forming Production Based Daily Maximum Limits (mg/off-kg)	**Multiplier**	**Cr**	**Cu**	**Pb**	**Ni**	**Zn**	**TTO**	**O&G**
468.15(k) Pickling Rinse	7.95	0.216	0.748	0.058	0.321	0.596	0.198	5.85
468.15(m) Pickling Bath	8.45	0.042	0.148	0.011	0.063	0.118	0.039	1.16
468.15(n) Pickling Fume Scrubber	8.45	0.231	0.801	0.062	0.344	0.638	0.212	6.26
468.15(o) Tumbling or Burnishing	1	0.215	0.746	0.058	0.32	0.594	0.198	5.83
468.15(q) Miscellaneous Waste Streams	3	0.008	0.027	0.0021	0.011	0.022	0.007	0.218
$468D_{max}$		4.263	14.793	1.142	6.344	11.786	3.914	115.69
Copper Forming Production Based Monthly Average Limits (mg/off-kg)								
468.15(k) Pickling Rinse	7.95	0.087	0.356	0.052	0.216	0.245	0.198	5.85
468.15(m) Pickling Bath	8.45	0.017	0.07	0.01	0.042	0.048	0.039	1.16
468.15(n) Pickling Fume Scrubber	8.45	0.093	0.381	0.056	0.231	0.262	0.212	6.26
468.15(o) Tumbling or Burnishing	1	0.087	0.355	0.052	0.215	0.244	0.198	5.83
468.15(q) Miscellaneous Waste Streams	3	0.003	0.013	0.0019	0.008	0.009	0.007	0.218
$468M_{avg}$		1.717	7.035	1.029	4.263	4.838	3.914	115.69

Table 2 – Jennings Technology Corporation Production Data

Production Variable	Annual Quantity
Copper Forming product (lbs/yr)	6353
Metal Finishing product (lbs/yr)	6487
Number of Working Days (avg/yr)	235
468 Average Daily Flow(gpd)	3393
433 Average Daily Flow (gpd)	3464
Total Average Discharge (gpd)	6857

The values in Table 2 are based on the three year period from July 2010 to June 2013

Copper Forming Production Based standards to Concentration Based

40 CFR 468, Subpart A-Copper Forming Point Source Category

Max Daily Calculations:-

Chromium [Cr]-

Subpart A, 468.15 (k) - Pickling Rinse PSNS

0.216 mg/off-kg x 7.95 = 1.717 mg/off-kg

Subpart A, 468.15 (m) - Pickling Bath PSNS

0.042 mg/off-kg x 8.45 = 0.355 mg/off-kg

Subpart A, 468.15 (n) - Pickling Fume Scrubber PSNS

0.231 mg/off-kg x 8.45 = 1.952 mg/off-kg

Subpart A, 468.15 (o) - Tumbling or Burnishing PSNS

0.215 mg/off-kg x 1 = 0.215 mg/off-kg

Subpart A, 468.15 (q) - Miscellaneous Waste Stream PSNS

0.008 mg/off-kg x 3 = 0.024 mg/off-kg

Cr 468D$_{max}$ = 1.717 + 0.355 + 1.952 + 0.215 + 0.024 = 4.263 mg/off-kg

Similarly, 468 D_{max} for the other pollutants and 468M_{avg} for all the pollutants were calculated.

Production Based Limit Calculations for Daily Maximum (D_{max}) :

The Production Based Limit is calculated from:

$$D_{max} = 468\ D_{max} \text{ x Copper Formed / (468 Flow Rate x 3.785 liters/gallon)}$$

Where,
D_{max} = Production based daily concentration limit for the 40 CFR 468 wastestream in milligrams per liter.
468D_{max} = Production based Categorical pretreatment standard daily limit for the 40 CFR 468 wastestream in milligrams per off kilogram.
468 Flow Rate = Average daily flow of the wastestream regulated under 40 CFR 468 in gallons per day
Copper Formed = mass of copper or copper alloy formed in off-kilograms per day

As a sample calculation, for chromium,
D_{max} = 4.263 mg/off-kg x 6353 off-lbs/yr / (235 days/yr x 2.2 off-lbs/off-kg x 3393 gpd x 3.785 l/gal) = 0.004 mg/l

Similar calculations were performed for each pollutant for both Daily Maximum and Monthly Average Limits

Table 3

Jennings Technology Corporation
SJ-216B

Copper Forming Equivalent Concentration Pretreatment Standards (mg/l)

Pollutants	Cr	Cu	Pb	Ni	Zn	TTO	O&G
Maximum Daily Discharge Limit – $\mathbf{D_{max}}$	0.004	0.014	0.001	0.006	0.011	0.004	0.11
Maximum Average Monthly Discharge Limit - $\mathbf{M_{avg}}$	0.002	0.007	0.001	0.004	0.005	0.004	0.11

$\mathbf{D_{max}}$ is the maximum daily discharge limit in mg/l, calculated specifically for Jennings Technology Corporation, based upon their production data.

$\mathbf{M_{avg}}$ is the average monthly discharge limit in mg/l, calculated specifically for Jennings Technology Corporation, based upon their production data.

Table 4

Jennings Technology Corporation
SJ-216B

Metal Finishing Pretreatment standards for new sources (PSNS) (mg/l)

Pollutants	Cd	Cr	Cu	CN(T)	Pb	Ni	Ag	TTO	Zn
Maximum Daily Discharge Limit	0.11	2.77	3.38	1.2	0.69	3.98	0.43	2.13	2.61
Maximum Average Monthly Discharge Limit	0.07	1.71	2.07	0.65	0.43	2.38	0.24		1.48

Jennings Technology Corporation

SJ-216B

Table 5 Daily Maximum Limits

Pollutants	433 D_{max}	433 Flow	468 D_{max}	468 Flow	Total Flow	CWF Limit
	mg/l	gpd	mg/l	gpd	gpd	mg/l
Cd	0.11	3464	0.11*	3393	6857	0.11
Cr	2.77	3464	0.004	3393	6857	1.40
Cu	3.38	3464	0.014	3393	6857	1.71
Pb	0.69	3464	0.001	3393	6857	0.35
Ni	3.98	3464	0.006	3393	6857	2.01
Ag	0.43	3464	0.43*	3393	6857	0.43
Zn	2.61	3464	0.011	3393	6857	1.32
CN [T]	1.2	3464	1.2*	3393	6857	1.20
TTO	2.13	3464	0.004	3393	6857	1.08
O&G	0.11*	3464	0.11	3393	6857	0.11

There are no 468.15 limits for Cd, Ag, or CN.
There is no 433 limit for O&G.
*These unregulated wastestreams are allocated the same limits as the regulated wastestreams they are combined with. There are no dilution wastestreams.

Table 6 Monthly Average Limits

Pollutants	433 M_{Avg}	433 Flow	468 M_{Avg}	468 Flow	Total Flow	CWF Limit
	mg/l	g/d	mg/d	g/d	g/d	mg/l
Cd	0.07	3464	0.07*	3393	6905	0.07
Cr	1.71	3464	0.002	3393	6905	0.86
Cu	2.07	3464	0.007	3393	6905	1.05
Pb	0.43	3464	0.001	3393	6905	0.22
Ni	2.38	3464	0.004	3393	6905	1.20
Ag	0.24	3464	0.24*	3393	6905	0.24
Zn	1.48	3464	0.005	3393	6905	0.75
CN [T]	0.65	3464	0.65*	3393	6905	0.65
TTO	0.004*	3464	0.004	3393	6905	0.004
O&G	0.11*	3464	0.11	3393	6905	0.11

There are no 468.15 limits for Cd, Ag, or CN.
There is no 433 limit for O&G.
There is no 433 monthly average limit for TTOs.
*These unregulated wastestreams are allocated the same limits as the regulated wastestreams they are combined with. There are no dilution wastestreams

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

An example calculation for chromium is shown:

Combined Wastestream Formula Calculations for D_{max} :
Ct = Modified concentration limit for the combined wastestream for **Cr**
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17(a): 2.77 mg/l for **Cr**
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 468.15(a): 0.004 mg/l for **Cr**
Fi1 = Regulated stream, average daily flow 40 CFR 433: 3464 gpd
Fi2 = Regulated stream, average daily flow 40 CFR 468: 3393 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 6857 gpd

$$Ct = \frac{[(2.77 \text{ mg/l})\ (3464 \text{ gpd})] + (0.004 \text{ mg/l})(3393 \text{ gpd})}{[(3464 \text{ gpd}) + (3393 \text{ gpd})]} \times \frac{(6857 \text{ gpd} - 0 \text{ gpd})}{(6857 \text{ gpd})}$$

Ct = 1.40 mg/l

Combined Wastestream Formula Calculations for M_{avg} :-
Ct = Modified concentration limit for the combined wastestream for **Cr**
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17(a): 1.71 mg/l for **Cr**
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 468.15(a): 0.002 mg/l for **Cr**
Fi1 = Regulated stream, average daily flow 40 CFR 433: 3464 gpd
Fi2 = Regulated stream, average daily flow 40 CFR 468: 3393 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 6857 gpd

$$Ct = \frac{(1.71 \text{ mg/l})\ (3464 \text{ gpd}) + (0.002 \text{ mg/l})(3393 \text{ gpd})}{(3464 \text{ gpd}) + (3393 \text{ gpd})} \times \frac{(6857 \text{ gpd} - 0 \text{ gpd})}{(6857 \text{ gpd})}$$

Ct = 0.86 mg/l

Similarly, limits for other pollutants are calculated and shown in Table 7.

Table 7

Final Pollutant Limits Calculated Using CWF		
Parameter	**Daily Avg**	**Monthly Avg**
Cadmium	0.11	0.07
Chromium	1.40	0.86
Copper	1.71	1.05
Cyanide*	1.2	0.65
Lead	0.35	0.22
Nickel	2.01	1.20
Silver	0.43	0.24
Zinc	1.32	0.75
TTO	1.08	0.004
Oil & Grease**	0.11	0.11

*Cyanide limits are monitored at Sample Point 2, after treatment of all cyanide-bearing wastewater.

**Jennings Technology Corporation will not be allowed to monitor for Oil & Grease as an alternative to monitoring for TTOs because the alternate Oil & Grease limits are below detection using standard analytical methods.

Jennings Technology Corporation submitted a request for a sampling waiver for bromodichloromethane, bromoform, chloroform, and dibromochloromethane generated from Copper Forming and Metal Finishing. This request included a technical evaluation of their facility to demonstrate that these compounds are not present in their discharge above background levels. Sample results show that the four substances are not present in the discharge above background levels. Jennings Technology Corporation submitted the certification statement as described in 40 CFR 403.6(a)(2)(ii). The request for a sampling waiver is granted with this Permit.

Lenthor Engineering, Inc. Combined Wastestream Formula Calculations

Lenthor Engineering has an outdoor pretreatment system open to the atmosphere that will collect rainwater during storms. The entire pad is secondarily contained, and the accumulated rain will be pumped through the treatment system due to the possibility of contamination. This rainwater is considered a dilution stream. A sample calculation is given. The adjustment to the limits is very small, and in many cases does not change the limit after rounding to two decimal places.

Process Flow: 15,000 gallons per day (gpd)

Area exposed to rain: 20 x 80 feet = 1600 square feet

Average rainfall in Milpitas: 14.9 inches per year = 1.242 feet/year

Average volume of rain: 1600 x 1.242 = 1986.7 cubic feet per year

Conversion to gallons: 7.48 gallons = 1 cubic foot

Average volume of rain: 1986.7 cubic feet per year x 7.48 gallons per cubic foot = 14,860.27 gallons per year

Lenthor Engineering discharges 365 days per year due to their fume scrubber operation

Daily volume of dilution due to rain: 14,860.27 gallons per year / 365 days per year = 41 gpd

Dilution factor: 15,000 / 15,041 = 0.997

Sample calculation: Chromium Daily Maximum: 2.77 mg/L x 0.997 = 2.76 mg/L

Lenthor Engineer Federal Limits at Sample Point 01 adjusted for Rainwater Dilution

Pollutant	Daily Maximum (mg/L)	Monthly Average (mg/L
Cadmium	0.11	0.07
Chromium	2.76	1.71
Copper	3.38	2.06
Cyanide, Total	1.2	0.65
Lead	0.69	0.43
Nickel	3.97	2.37
Silver	0.43	0.24
TTOs	2.12	
Zinc	2.60	1.48

Combined Wastestream Formula Calculations

For Sample Point 01

Linear Technology Corporation

Permit # MI-088B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci = Categorical pretreatment standard concentration limit under 40 CFR 469: 1.37 mg/l for TTOs
Fi = Regulated Semiconductor flowstream, average daily flow: 114,639.5 – 7,500 = 107,139.5 gpd
Fd = Dilution stream: 7,500 gpd
Ft = Average total flow through sample point: 114,639.5 gpd

$$Ct = \frac{(1.37 \text{ mg/l})\ (107{,}139.5)}{(107{,}139.5 \text{ gpd})} \times \frac{(114{,}639.5 \text{ gpd} - 7500 \text{ gpd})}{114{,}639.5 \text{ gpd}}$$

Ct = 0.9346 x 1.37

Ct = 1.280 mg/l ~ 1.28 mg/l

Therefore, new modified TTO limit at sample point 01 = 1.28 mg/l

Combined Wastestream Formula Calculations
For Sample Point 01

List Biological Laboratories, Inc.
Permit No. WV-064B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,

Ct = Alternative concentration limit for the combined wastestream for **Acetone** in mg/l
Ci = Categorical pretreatment standard concentration limit under 40 CFR 439.17 for **Acetone** in mg/l
Fi = Regulated stream, average daily flow: 786 gpd
Fd = Dilution stream: 160 + 105+ 28 = 293 gpd
 RO Reject – 160 gpd
 Boiler Blowdown – 105 gpd
 Chiller Blowdown – 28 gpd
Ft = Average total flow through sample point: 1079 gpd

Combined Wastestream Formula Calculations for D_{max} :

$$Ct = \frac{(20.7\ mg/l)\ (786\ gpd)}{(786\ gpd)} \times \frac{(1079\ gpd - 293\ gpd)}{1079\ gpd}$$

Ct = 20.7 * 0.7285

Ct = 15.0799 mg/l ~ 15.08 mg/l

Combined Wastestream Formula Calculations for M_{avg} :

$$Ct = \frac{(8.2\ mg/l)\ (786\ gpd)}{(786\ gpd)} \times \frac{(1079\ gpd - 293\ gpd)}{1079\ gpd}$$

Ct = 8.2 * 0.7285

Ct = 5.9737 mg/l ~ 5.97 mg/l

Similarly, limits for other parameters are calculated and shown in the table below:

Pollutant	Federal Daily Max mg/l	Modified Daily Max mg/l	Federal Monthly Average mg/l	Modified Monthly Average mg/l	Total Average Flow gpd	Dilution Flow gpd
Acetone	20.7	15.080	8.2	5.974	1079	293
Benzene	3.0	2.186	0.7	0.510	1079	293
Chlorobenzene	3.0	2.186	0.7	0.510	1079	293
Chloroform	0.1	0.073	0.03	0.022	1079	293
Cyanide Total	33.5	24.405	9.4	6.848	1079	293
1,2-Dichloroethane	20.7	15.080	8.2	5.974	1079	293
Diethyl amine	255.0	185.768	100	72.850	1079	293
Isopropyl ether	20.7	15.080	8.2	5.974	1079	293
Ethyl acetate	20.7	15.080	8.2	5.974	1079	293
n-Hexane	3.0	2.186	0.7	0.510	1079	293
Isobutyraldehyde	20.7	15.080	8.2	5.974	1079	293
Isopropyl acetate	20.7	15.080	8.2	5.974	1079	293
Methyl formate	20.7	15.080	8.2	5.974	1079	293
4-Methyl-2-pentanone (MIBK)	20.7	15.080	8.2	5.974	1079	293
Methylene Chloride	3.0	2.186	0.7	0.510	1079	293
n-Amyl acetate	20.7	15.080	8.2	5.974	1079	293
n-Butyl acetate	20.7	15.080	8.2	5.974	1079	293
n-Heptane	3.0	2.186	0.7	0.510	1079	293
o-Dichlorobenzene	20.7	15.080	8.2	5.974	1079	293
Tetrahydrofuran	9.2	6.702	3.4	2.477	1079	293
Toluene	0.3	0.219	0.2	0.146	1079	293
Triethyl amine	255.0	185.768	100	72.850	1079	293
Xylene	3.0	2.186	0.7	0.510	1079	293

Lumentum Operations LLC
Combined Wastestream Formula Calculations
Sample Point 02
WTS2 Elementary Neutralization
Federal TTO Limit

Federal TTO Limit for Semiconductor Manufacturing (40 CFR 469.12(a)) = 1.37 mg/l

Semiconductor Manufacturing Flow = 11,912 gallons per day

RO DI Reject Dilution Flow = 4,376 gallons per day

Total Flow = 11,912 + 4,376 = 16,288 gallons per day

Lumentum Operations Federal TTO Limit =
(Federal TTO Limit for Semiconductor Manufacturing * Semiconductor Manufacturing Flow) / Total Flow

Lumentum Operations Federal TTO Limit =
(1.37 mg/l x 11,912 gal per day) / 16,288 gal = **1.00 mg/l**

Combined Wastestream Formula Calculations

Lumileds LLC
Permit No. SJ-528B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTO's
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 469.18 (a): 1.37 mg/l for TTO's

Fi1 = Regulated stream, average daily flow: 221,500 gpd
Fd = Dilution stream: Cooling Tower Blowdown = 3,400 gpd
Ft = Average total flow through sample point: 224,900 gpd

$$Ct = \frac{(1.37\text{ mg/l})\ (221{,}500)}{(221{,}500)\text{ gpd}} \times \frac{(224{,}900\text{ gpd} - 3{,}400\text{ gpd})}{(224{,}900)\text{ gpd}}$$

Ct = 1.37 x 0.985
Ct = 1.35 mg/l

Therefore**, new TTO limit** at final sample point = 1.35 mg/l

Noel Technologies Combined Wastestream Formula Calculations

Pollutant	Metal Finishing Daily Max Limits (mg/L)	Metal Finishing Monthly Average Limits (mg/L)	Semiconductor Manufacturing Daily Max Limit (mg/L)
Cadmium	0.11	0.07	
Chromium	2.77	1.71	
Copper	3.38	2.07	
Cyanide Total	1.20	0.65	
Lead	0.69	0.43	
Nickel	3.98	2.38	
Silver	0.43	0.24	
TTO-F	2.13		1.37
Zinc	2.61	1.48	

Daily average discharge flow from metal finishing processes – 550 gallons

Daily average discharge flow from semiconductor manufacturing processes – 1550 gallons

For the metal finishing metal and cyanide limits the semiconductor manufacturing wastewater is considered an unregulated stream since those pollutants are not regulated by a categorical standard from that category. The unregulated semiconductor manufacturing discharge is assigned the same limits as metal finishing discharges for use in the combined wastestream formula for metals and cyanide. For the TTO limit, the limits from each category are combined into the final limit based on the standard categorical limits and the discharge flows.

TTO Daily Maximum Calculation

(2.13 mg/L*550 gpd) + 1.37 mg/L*1550 gpd) / (550 gpd + 1550 gpd) = 1.57 mg/L

Final Limits for Noel Technologies from the use of the Combined Wastestream Formula

Pollutant	Daily Maximum Limits (mg/L)	Monthly Average Limits (mg/L)
Cadmium	0.11	0.07
Chromium	2.77	1.71
Copper	3.38	2.07
Cyanide Total	1.20	0.65
Lead	0.69	0.43
Nickel	3.98	2.38
Silver	0.43	0.24
TTO-F	1.57	
Zinc	2.61	1.48

OLS ENERGY – AGNEWS
Combined Wastestream Formula Calculations

Permitted Concentration Limit = Categorical Concentration Limit from 40CFR423 * (Total Flow – Dilution Flow) / Total Flow

Categorical Concentration Limits from 40CFR423 – Daily maximum (mg/L)

Chromium – 0.2 Cooling Tower Blowdown
Copper – 1.0 Chemical Metal Cleaning Wastes
Zinc – 1.0 Cooling Tower Blowdown

Process Flow = 33,100 gpd, Cooling Tower Blowdown (Total Flow – Dilution Flow)
Dilution Flow = 25,735 gpd, RO Reject, Boiler Blowdown, Sanitary
Total Flow = 58,835 gpd

There is no chemical cleaning performed at this facility. The only categorical wastestream is the cooling tower blowdown. The federal categorical limits of 0.2 mg/l of chromium and 1.0 mg/l of zinc are applicable to this discharger, but not the federal categorical limit for copper.

None of the 126 priority pollutants from Appendix A of 40CFR423 are included on the hazardous materials chemical inventory for this facility. Testing for these compounds will not be required.

OLS Energy-Agnews Daily Maximum Limits from Combined Wastestream Formula

Chromium = 0.2 * 33,100 / 58,835 = 0.11 mg/L

Zinc = 1.0 * 33,100 / 58,835 = 0.56 mg/L

Combined Wastestream Formula (CWF) Calculation for Cyanide (CN)

Pac Tech USA Packing Technologies

Calculation:

Note: For calculation of a combined wastestream formula limit for Cyanide any non-cyanide process flows are considered dilution.

CWF Limit = Federal Categorical CN Limit *CN Process Flow / Total Process Flow

Federal Categorical Cyanide Limit for Metal Finishing:

Daily Maximum Limit = 1.20 mg/l

Monthly Average Limit = 0.65 mg/l

Total Process Flow = Non-CN Process Flow & CN Process Flows
Total Process Flow = 9,980 gallons per day (gpd)

CN Process Flow = 890 gpd

Daily Maximum Limit = (1.20 mg/l*890 gpd) / 9,980 gpd = 0.11 mg/l

Monthly Average Limit = (0.65 mg/l*890 gpd) / 9,980 gpd = 0.060 mg/l

New CWF Cyanide limits:

Cyanide Daily Maximum Limit = 0.11 mg/l

Cyanide Monthly Average Limit = 0.060 mg/l

Combined Wastestream Formula Calculations

For Sample Point

Pyramid Circuits, Inc.

Permit No. SC- 429B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for **Cd** in mg/l
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17: 0.11mg/l for **Cd**
Fi1 = Regulated stream, average daily flow: 1067 gpd
Fd = Dilution stream: 48 gpd
Ft = Average total flow through sample point: 1115 gpd

Combined Wastestream Formula Calculations for D_{max} :

$$Ct = \frac{(0.11\ mg/l)\ (1067\ gpd)}{(1067\ gpd\ )} \times \frac{(1115\ gpd - 48\ gpd)}{1115\ gpd}$$

Ct = 0.1052 mg/l ~ 0.11 mg/l

Combined Wastestream Formula Calculations for M_{avg} :

$$Ct = \frac{(0.07\ mg/l)\ (1067\ gpd)}{(1067\ gpd\ )} \times \frac{(1115\ gpd - 48\ gpd)}{1115\ gpd}$$

Ct = 0.0669 mg/l ~ 0.07 mg/l

Similarly, limits for other parameters were calculated.

Combined Wastestream Calculations for Sample Point 1

STREAMLINE CIRCUITS
Permit SC-350A

Alternate Concentration Limit Formula
When total number of regulated wastestreams = 1, the following formula will apply;

$$Ct = \frac{Ci\ Fi}{Fi} \times \frac{(Ft - Fd)}{Ft}$$

Where,

Ct = Alternate concentration limit for combined wastestream for Cd in mg/l
Ci = Categorical pretreatment standard concentration limit under 40 CFR 433.17a for Cd in regulated stream i
Fi = Average daily flow (at least 30 day average) of regulated stream (78,356.6) gpd)
Fd = Average daily flow (at least 30 day average) of dilute wastestream (80.4 gpd)
Ft = Average daily flow (at least 30 day average) through the combined treatment facility (including regulated, unregulated, and dilute wastestreams) (78,437 gpd)

Number of regulated streams =1
Therefore
Ct for Daily Maximum Limit for Cd

$$\text{Ct for Cd} = \frac{0.11\text{ mg/l x }78{,}356.6\text{ gpd}}{78{,}356.6\text{ gpd}} \times \frac{(78{,}437\text{ gpd} - 80.4\text{ gpd})}{78{,}437\text{ gpd}}$$

Ct for Cd= 0.11 mg/l

Ct for Monthly Average for Cd

$$\text{Ct for Cd} = \frac{0.07\text{ mg/l x }78{,}356.6\text{ gpd}}{78{,}356.6\text{ gpd}} \times \frac{(78{,}437\text{ gpd} - 80.4\text{ gpd})}{78{,}437\text{ gpd}}$$

Ct for Cd= 0.07 mg/l

Similarly, limits for other parameters were calculated.

THAT CORPORATION COMBINED WASTE STREAM FORMULA CALCULATIONS

The Combined Wastestream Formal (CWF):

$$C_t = \left[\frac{\left(\sum C_i F_i\right)}{\left(\sum F_i\right)} \right] \times \left[\frac{\left(F_t - F_d\right)}{\left(F_t\right)} \right]$$

C_t = Modified concentration limit for the combined wastestream for 40 CFR 469 Subpart A TTO concentration

C_i = Concentration limit of regulated wastewater discharges = 40 CFR 469 Subpart A TTO concentration

F_i = Individual regulated wastewater flowrates = 40 CFR 469 Subpart A Categorical Process Water = Semiconductor Sink and Rinse Process Water Flow Rate and City Water entering Aspirators and Scrubbers Processes Flow Rate

F_t = Total Industrial Process Water

F_d = Dilution wastewater flow = Reverse osmosis reject = 744 gpd

Assuming dilution wastewater concentration for TTO is zero

C_i =	1.37	mg/l
F_i =	3450	mg/l
F_t =	4194	gpd
F_d =	744	gpd

$$C_t = \left[\frac{\left(\sum 1.37 \text{ mg/l} \times 3450 \text{ gpd}\right)}{\left(\sum 3450 \text{ gpd}\right)} \right] \times \left[\frac{\left(4194 \text{ gpd} - 744 \text{ gpd}\right)}{\left(4194 \text{ gpd}\right)} \right]$$

C_t = 1.13 mg/l

Combined Wastestream Formula Calculations

For Sample Point 01

Universal Semiconductor
Permit No. SJ-150B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,

Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 469.18 (a): 1.37 mg/l for TTOs
Fi1 = Regulated stream, average daily flow: 6465 gpd
Fd = Dilution stream: 1016 gpd
Ft = Average total flow through sample point: 7481 gpd

$$Ct = \frac{(1.37\text{ mg/l})\ (6465\text{ gpd})}{(6465\text{ gpd})} \times \frac{(7481\text{ gpd} - 1016\text{ gpd})}{7481\text{ gpd}}$$

Ct = 1.37 x .864

Ct = 1.183 mg/l

Therefore, new modified TTO limit at sample point 01 = 1.18 mg/l

Combined Wastestream Formula Calculation for alternate Cyanide limit

For sample Point #1

Vishay/Siliconix
Permit No. SC-282A

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft\text{-}Fd)}{(Ft)}$

Where,

Ct = Alternative/Adjusted concentration limit for the combined wastestream for CN
Ci = Categorical pretreatment standard concentrations limit under 40 CFR 433.17 (a)
Daily Maximum Limit= 1.2 mg/L for CN
Monthly Average Limit= 0.65 mg/L for CN
Fi = Average Daily Flow, regulated CN process stream [40 CFR 433]: 1,875 gpd
Fd= Dilution stream, regulated non-CN process stream: 8,125 gpd
Ft = Average total flow through sample point: 10,000 gpd

Therefore,

Daily Maximum Limit,

$$Ct = \frac{(1.20\text{ mg/l})\ (1{,}875\text{ gpd})}{(1{,}875\text{ gpd})} \times \frac{(10{,}000\text{ gpd} - 8{,}125\text{ gpd})}{(10{,}000\text{ gpd})}$$

Ct = (1.20) (0.1875)
Ct = 0.225 ~ 0.23 mg/L

New Daily Maximum CN limit at sample point #1 = 0.23 mg/l

Monthly Average Limit,

$$Ct = \frac{(0.65\text{ mg/l})\ (1{,}875\text{ gpd})}{(1{,}875\text{ gpd})} \times \frac{(10{,}000\text{gpd} - 8{,}125\text{ gpd})}{(10{,}000\text{ gpd})}$$

Ct = (0.65) (0.1875)
Ct = 0.122 ~ 0.12 mg/L

New Monthly Average CN limit at sample point #1 = 0.12 mg/l

1. The permittee uses a Cyanide process for Gold and Zinc plating. Due to space and plumbing constraints the permittee is unable to install a Federal Cyanide sample point after the Cyanide process.

2. Cyanide will be monitored at Sample Point 01, the effluent from plating line [Cyanide + Non-Cyanide process]. Cyanide limits at this sample point have been modified using the combined wastestream formula [above].

3. The permittee reclaims 100% of their treated heavy metal wastewater as scrubber makeup water.

2015 Local Standards

This section includes a list of the local standards that are regulated by the Wastewater Facility. This table lists local limits for parameters applicable to standard and low flow industrial dischargers.

2015 Local Standards

Toxic Substance	Standard Discharger Maximum Allowable Concentration*	Low Flow Discharger Maximum Allowable Concentration**
Antimony	5.0 mg/l	5.0 mg/l
Arsenic	1.0 mg/l	1.0 mg/l
Beryllium	0.75 mg/l	0.75 mg/l
Cadmium	0.7 mg/l	0.7 mg/l
Chromium, Total	1.0 mg/l	1.0 mg/l
Copper	2.3 mg/l	2.7 mg/l
Cyanide	0.5 mg/l	0.5 mg/l
Lead	0.4 mg/l	0.4 mg/l
Mercury	0.010 mg/l	0.010 mg/l
Nickel	0.5mg/l	2.6 mg/l
Oil and Grease (O&G)	150 mg/l	150 mg/l
pH	6 – <12.5	6 – <12.5
Phenol & derivatives	30.0 mg/l	30.0 mg/l
Selenium	1.0 mg/l	1.0 mg/l
Silver	0.7 mg/l	0.7 mg/l
Zinc	2.6 mg/l	2.6 mg/l

* Standard Discharger – Any Industrial Discharger who is not a low flow discharger.

** Low Flow Discharger – An Industrial User whose average process flow, as shown on the Discharger's Application to Discharge and as measured as a rolling six month average, is less than one thousand (1,000) gallons per day.

Baseline Monitoring Report for 2015

Company	Permit No.	BMR Due	IU Notified	Submitted	BMR Comments
Lenthor Engineering, Inc.	MI-141B	03/31/2015	09/02/2014	04/02/2015	The BMR was received within 90 days of initial discharge.
Lumentum Operations LLC	SJ-674B	12/13/2015	09/22/2015	11/25/2015	The BMR was received within 90 days of initial permit issuance.
Noel Technologies, Inc.	WV-071B	12/27/2015	12/10/2015	12/22/2015	The first BMR was submitted on 2/25/15. A second BMR for the additional metal finishing pollutants was submitted on 12/22/15.

The permit number is retrieved from the permit active on the last day of the year.

2015 Pretreatment Program Changes

Organizational Changes

In 2015, the City hired one Environmental Inspector and brought back an additional Environmental Inspector from another division to fill vacancies created by retirements. One Sanitary Engineer position was left vacant. Three Assistant Environmental Inspectors were hired to replace Assistant Inspector vacancies created by promotions or departures.

Sections of the Pollution Prevention workgroup transitioned into a different division and the Source Control and Environmental Engineering workgroups. This organizational change eliminated one Supervising Environmental Service Specialist and two Environmental Service Specialist positions. One Environmental Inspector position was moved to the Source Control workgroup.

The Lab hired three Laboratory Technicians during 2015. An updated organization chart is included in the section entitled "Pretreatment Program Expenses."

2014 Pretreatment Compliance Inspection

On August 27, 2014, the City received the 2014 City of San José Pretreatment Compliance Inspection (PCI) Summary Report (2014 PCI Summary Report) for an inspection conducted by EPA contractors from Tetra Tech on January 28-31, 2014. The City has responded to all findings of the 2014 PCI Summary Report; a summary is included as Attachment 1. The response is organized by the type of finding. Table 1 addresses all requirements and Table 2 addresses all recommendations.

Sewer Use Ordinance Update

The City made no changes to the City of San José Municipal Code Chapter 15.14 in 2015. The other tributary agencies made changes to their Sewer Use Ordinances adopting the code revisions made by the City of San José which were adopted on September 30, 2014.

Non-Significant Categorical Industrial Users

The City issued its first permit for a non-significant categorical industrial user on May 6, 2015, under the provisions of the Streamlining Rule adopted into the Sewer Use Ordinance in 2013.

Enforcement Response Plan

The City is in the process of revising its Enforcement Response Plan (ERP). The ERP revisions are expected to be submitted for approval by the RWQCB in 2016 for approval before implementation.

Attachment 1

Table 1: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Requirements

#	Description	Response	Target Date
1	A cursory review of the City's current SUO revealed that it contains additional revisions that were not presented in the January 3, 2012, SUO amendment, nor were these revisions in the SUO given to the auditing team during the PCA. The City, therefore, is required to review all of the SUO revisions since the 2009 PCA and determine if the City notified the Water Board of all modifications. If any of the modifications were considered to be substantial, as defined at 40 CFR 403.18(b), the City is required to follow the procedures set forth at 40 CFR 403.18(c) and must obtain the Water Board's approval before implementation. (Section 4.1, Sewer Use Ordinance Modifications)	The City has reviewed all SUO amendments since 2009 and determined that the Water Board was notified by letter of all proposed modifications. The majority of ordinance changes adopted since 2009 were required or recommended by Pretreatment Compliance Audit and Inspection Summary Reports. In addition, the City provided timelines for initiating ordinance changes in each PCA and PCI Summary Report progress update. Copies of all notifications were included as Attachment 1 in the 10/31/2014 Pretreatment Compliance Inspection Summary Report Response (10/31/2014 Response).	Completed
2	The site visits revealed that BR&F Spray and Scientific Metal Finishing both perform phosphating processes that are regulated at 40 CFR Part 433, but neither facility discharges any categorical process wastewater. As such, the City should have classified the facilities as zero-discharging CIUs. Because the City permits zero-discharging CIUs, the City must have adequate procedures in place to ensure that all zero-dischargers are correctly identified, classified, and permitted. In addition, the City is required to ensure that it has adequate procedures to comply with the requirements at 40 CFR 403.8(f)(2). Therefore, it is strongly recommended that the City conduct inspections of all its previously de-permitted categorical facilities at least once every 2 years. (Section 7, Nondomestic Discharger Characterization and Section 9.2, Compliance Inspections)	As noted in the PCI Summary Report, both BR&F Spray and Scientific Metal Finishing had discontinued Categorical operations when they were de-permitted by the City in 2001 and 2008, respectively. Given that both facilities have subsequently reinitiated Categorical operations, the City has issued enforcement actions for failure to provide proper notification. The City issued zero discharge permits to BR&F Spray and Scientific Metal Finishing on 4/25/2014 and 5/9/2014, respectively. The City has finalized an update of its Industrial User Identification and Inventory Program. This update fully modernizes the identification processes, as well as includes reinspection of closed or previously de-permitted Industrial Users on a more frequent basis. These updates will ensure the City correctly identifies and locates Industrial Users which might be subject to Pretreatment Program requirements. The City will continue to monitor the implementation of this program and make adjustments, as necessary to promote compliance as per available resources.	Completed

Table 1: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Requirements

#	Description	Response	Target Date
3	The permits reviewed do not clearly establish specific monitoring or certification periods. (Section 8.1, Specific Monitoring or Certification Periods)	The City has clarified the monitoring or certification periods and report due dates for all permitted Industrial Users. The City has notified by letter all permitted Industrial Users of these clarifications. Additionally, all future permits will clearly specify monitoring or certification periods and the due dates of Self-Monitoring Reports (SMR) or Certification Statements. An example of one of these letters was included as Attachment 2 in the 10/31/2014 Response.	Completed
4	The inspection team was uncertain if Metal Finishing Solutions' single grab sample for cyanide and TTOs would be considered representative of the facility's discharge because of the variability of the facility's discharge and the number of batches the facility discharges per day. The City, therefore, is required to assess the variability of Metal Finishing Solutions' batch discharges to determine if multiple grab samples are needed to ensure a representative sample. Furthermore, it is strongly recommended that the City evaluate all dischargers that are required to collect only one grab sample to determine whether one grab sample is adequate to ensure a representative sample. (Section 8.3, Self-monitoring Grab Sampling Requirements)	During the inspection at Metal Finishing Solutions, the Industrial User indicated it planned to implement a batch treatment process and discontinue hauling of certain waste streams in the near future. The City conducted a follow-up inspection on 9/26/2014 to verify if Metal Finishing Solutions has implemented the batch treatment process. During the inspection, the City reminded Metal Finishing Solutions that changing its processes as described would constitute a significant change and that the City would need formal notification of any such changes including a review of plans and specifications for any plumbing changes and an updated San Jose/Santa Clara Water Pollution Control Plant Permit Application. During that follow-up inspection, the City also reviewed the variability of all production and treatment processes. Based on the City's follow-up inspection, and a review of historical monitoring data, the degree of variability observed does not warrant a change in the grab sampling requirements for cyanide and TTOs at this time. A copy of the 9/26/2014 inspection report was included as Attachment 3 in the 10/31/2014 Response. The City will continue to assess variability at its Industrial Users through compliance inspections.	Completed
5	The file reviews revealed that the City failed to collect samples for all regulated pollutants during all compliance monitoring events and have not conducted semiannual compliance monitoring at all SIUs. The City, therefore, is required to review its compliance monitoring procedures to ensure that the City conducts adequate compliance monitoring per its established compliance monitoring frequency. (Section 9.1, Compliance Sampling)	The City did complete compliance monitoring events for all SIUs in 2013. Since the PCI, the City located the second 10/28/2013 City Sampling Results for Wafer Reclaim, which was in pre-file processing during the PCI. The City will continue to regularly identify any compliance monitoring issues and update compliance Standard Operating Procedures (SOPs) as applicable. The 10/28/2013 City Sample Results were included as Attachment 4 of the 10/31/2014 Response.	Completed

Table 1: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Requirements

#	Description	Response	Target Date
6	The file reviews revealed that the City failed to identify all instances of reporting and sampling noncompliance. The City, therefore, is required to ensure that it has adequate procedures for receiving, reviewing, and analyzing all reports submitted by its SIUs. In addition, the City is required to take the appropriate enforcement actions, as established by the City's ERP, for all violations. (Section 9.4, Requesting, Receiving, and Analyzing Reports)	The City has reviewed its procedures for receiving, reviewing, and analyzing all reports submitted in accordance with the provisions at 40 CFR 403.12, has updated the SMR Review Checklist to match the language found in the City's SOPs for processing SMRs, and has provided staff training specific to this issue. The City has also notified all Industrial Users of the requirement for documenting the times of collection and analysis of pH samples for self monitoring. Additionally, the City will continue to enforce on all violations of self monitoring report requirements in accordance with its ERP.	Completed
7	The inspection team performed a cursory review of the City's current ERP and the multijurisdictional agreements and noticed an inconsistency regarding whether the City or the member agency is responsible for issuing enforcement actions. The City, therefore, is required to review its multijurisdictional agreements with its member agencies to determine whether the agreement gives the City the authority to issue any and all enforcement actions to dischargers outside of the City's jurisdiction. Furthermore, the City is required to revise its ERP accordingly once the City determines which entity (the City or its member agencies) will be responsible for taking enforcement actions within each jurisdiction. (Section 10.2, Enforcement Response Plan)	The enforcement responsibilities are currently under revision as part of Enforcement Response Plan (ERP) update and multijurisdictional agreement review. The ERP update will include changes to enforcement responsibilities based on review with member agencies and clarification of responsibilities as needed. These changes will be submitted to the Water Board as part of the ERP approval submittal.	Completed

Table 1: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Requirements

#	Description	Response	Target Date
8	The inspection team is concerned that the City's definition of *consistent compliance,* as presented in the annual report, can be misconstrued to mean facilities with no violations whatsoever. The City, therefore, is required to discuss their definition of *consistent compliance* with the Water Board to determine whether the Water Board concurs with how the City is reporting SIU compliance status. (Section 10.3, City's Definition of Consistent Compliance)	The City's definition of *consistent compliance* was included in the last ERP revision, which was approved by the Water Board in 2009. This definition is also provided in each Annual Pretreatment Compliance Report. Additionally, this definition appears to be widely used by pretreatment programs throughout the state. On 10/27/2014, the City discussed with the Water Board the definition of *consistent compliance* . The City will continue to use the existing definition unless otherwise notified by the Water Board.	Completed
9	Special Comment - In Section 8.2 the Summary Report states that permits specify requirements for City compliance monitoring and that including City obligations within the discharger's permit, the permit could be considered invalid or unenforceable if the City failed to comply with these obligations. The report found that no further action is necessary due to City personnel indicating that new permit renewals would remove City obligations.	The City did not commit to changing its permit template to remove any City sampling notifications. Further, the City discussed this matter with City attorneys and determined that permits containing City obligations are both valid and enforceable.	Completed

Table 2: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Recommendations

#	Description	Response	Target Date
1	The inspection team did not review the local ordinances from the City's member agencies as part of this PCI, it is strongly recommended that the City review the local ordinances to ensure that all applicable provisions were revised accordingly. (Section 4.1, Sewer Use Ordinance Modifications)	The City has completed a review of all revised ordinances for all member agencies and all updated provisions were included.	Completed
2	Even though the City has determined that it has the authority to enforce its phenol and derivatives local limit, it is strongly recommended that the City clearly document how this limit was developed, which phenol derivatives were evaluated during its local limits evaluation, and define in the SUO the pollutants regulated by the City's "phenol and derivatives" local limit. (Section 5, Local Limits)	The list of interfering substances or local limits adoption resulted from local limits in 1994 after a phenol limit was included in the 1993 San Jose/Santa Clara Water Pollution Control Plant NPDES Permit (Permit). At that time, EPA Test Method 420.1 was the only test available for testing total phenols. "Total phenols" is synomonous with "Phenol and its Derivatives". Therefore, the compounds tested in this method is the same as phenol and its deratives. There is no list of specific phenol compounds listed EPA Test Method 420.1 and the method is still listed in 40 CFR 136 as the approved industrial wastewater method for total phenols. Therefore, there is no further definition required.	Completed
3	City staff indicated that they have adopted some of the optional streamlining provisions, but the City has not established SOPs for implementing these provisions. It is strongly recommended that the City develop SOPs for implementing the NSCIU classification and for the monitoring waivers for pollutant not present. In addition, the City should incorporate the SOPs as part of the City's pretreatment program implementation documents. (Section 6, Legal Authority)	The City has developed procedures for implementing the Waiver of Pollutants not Present and NCIU Classification provisions. These provision were added to the Sewer Use Ordinance (SUO) following discussions with, and recommendations from, the EPA in 2011 related to one specific Industrial User discharge limit issue. The City has already implemented the Waiver of Pollutants not Present provision for that one industrial user and also plans to implement NCIU Classification provision this year.	Completed

Table 2: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Recommendations

#	Description	Response	Target Date
4	In an email to Tetra Tech dated February 14, 2014, City staff indicated that the City will expand its IU identification and inventory program. It is strongly recommended that the City formally document and submit to the Water Board details outlining the expanded identification and characterization program. This documentation should include the frequency of inspections of the de-permitted or closed users as well as the frequency and types of additional staff training sessions. (Section 7, Nondomestic Discharger Characterization)	The City has finalized an update of its Industrial User Identification and Inventory Program. This update fully modernizes the identification processes and better utilizes the Environmental Enforcement Data Management System to incorporate the various member agency databases and reporting and improve tracking and documentation. The expanded program includes more frequent inspections of de-permitted or closed Industrial Users, improved documentation of Industrial User assessment and inspection activities, additional identification and characterization training for inspection staff, and improved interaction with member agencies and other regulatory agencies. Additionally, the City has updated guidance documents and SOPs for the Industrial User Identification and Inventory Program. On 10/27/2014 the City met with the Water Board and discussed the Industrial User Identification and Inventory Program.	Completed
5	The Mantrex zero-discharge permit does not specify whether the facility is an existing or new source subject to 40 CFR 421subpart X. It is strongly recommended that the permit clearly specify whether the discharger is subject to existing or new source pretreatment standards [40 CFR 403.8(f)(1)(ii)]. It is also strongly recommended that the City review all CIU permits to ensure that they clearly state the complete classification of each CIU. (Section 8.5, Designation of Existing or New Source)	The City has in the past provided zero categorical discharge permits for facilities such as Mantrex, Inc. dba Wit Sales & Refining without "Existing" versus "New Source" identification since these facilities do not discharge from the categorical process, there are no pretreatment standards to apply. However, if a zero categorical discharger ever does begin to discharge, that would be considered a significant change and the pretreatment standards would be for a "New Source", as stated in the zero discharge categorical permit documents. This determination is documented in the facility's Permit Fact Sheet.	Completed

Table 2: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Recommendations

#	Description	Response	Target Date
6	Accu-Burr Metal Finishing does not discharge any federally regulated process wastewater, but the facility does discharge wastewater from its tumbling process. Therefore, the City should characterize the wastewater discharged from the tumbler to determine if the facility should be permitted as a noncategorical SIU. (Section 9.3, Nondomestic Discharger Site Visits Conducted During the Inspection)	The City previously characterized Accu-Burr Metal Finishing's tumbler discharge and did not observe elevated concentrations of locally regulated pollutants. As such, the facility was classified as a Zero Discharging Categorical Industrial User since the tumbling is not a categorical process. The City conducted follow-up inspections on 5/29/2014 and 7/30/2014 and verified the Accu-Burr Metal Finishing has ceased all categorical operations and is in the process of closing. Copies of the 5/29/2014 and 7/30/2014 Inspection Reports were included as Attachment 5 in the 10/31/2014 Pretreatment Compliance Inspection Summary Report Response (10/31/2014 Response).	Completed
7	Even though the City has instructed Automated Metal Finishing to remove the potential bypass, City staff did not indicate whether they inspected the clarifier to determine whether it is operational. It is strongly recommended that the City conduct a follow-up inspection to the facility to determine if additional actions are needed to verify if the clarifier is operational. (Section 9.3, Nondomestic Discharger Site Visits Conducted During the Inspection)	The City conducted a follow-up inspection at Automated Metal Finishing on 2/14/2014 and verified removal of any potential to bypass treatment and completion of recommended plumbing changes. All wastewater discharges to a clarifier that appeared to be operating normally during the inspection. A copy of the 2/14/2014 Inspection Report was included as Attachment 6 in the 10/31/2014 Response.	Completed
8	During the Gold Plating site visit the inspection team noticed that nitric acid was stored in the caustic storage area. It is recommended that the City conduct a follow-up inspection to the facility to ensure that incompatible chemicals are properly stored and segregated. (Section 9.3, Nondomestic Discharger Site Visits Conducted During the Inspection)	The City conducted a follow-up inspection at Gold Plating on 2/12/2014 and verified labeling, segregation, and secondary containment of virgin and waste chemicals, including nitric acid and caustic soda. A copy of the 2/12/2014 Inspection Report was included as Attachment 7 in the 10/31/2014 Response.	Completed

Table 2: February 29, 2016 Response to 2014 Pretreatment Compliance Inspection Summary Report - Recommendations

#	Description	Response	Target Date
9	During the site visit to Mannington Mills, the inspection team noted that the roll-off dumpster used for spent oil storage was not labeled as containing hazardous waste. In addition, the inspection team observed that several carboys of boiler treatment chemicals (in the boiler room) were not contained and stored in close proximity to an open floor drain. It is recommended that the City follow up with the facility to ensure the implementation of adequate chemical storage and housekeeping practices. (Section 9.3, Nondomestic Discharger Site Visits Conducted During the Inspection)	The City conducted a follow-up inspection at Mannington Mills dba Burke Industries on 2/12/2014 and verified labeling of the roll-off dumpster. The City also conducted another inspection on 7/16/2014 and verified secondary containment of the boiler treatment chemicals. Copies of the 2/12/2014 and 7/16/2014 Inspection Reports were included as Attachment 8 in the 10/31/2014 Response.	Completed
10	Mantrex, Inc.'s most recent waste liquids manifest was not available for review; inspectors requested a copy be submitted. The City inspector also requested that the leaky faucet be fixed, which the facility representative said would be completed by the next site visit (by removing sink altogether). It is recommended that the City follow up with the facility to ensure that these items have been completed. (Section 9.3, Nondomestic Discharger Site Visits Conducted During the Inspection)	The City conducted a follow-up inspection at Mantrex, Inc. dba Wit Sales & Refining on 2/7/2014 and verified removal of the leaky sink faucet. The City also verified the facility has located all corrosive waste manifests. A copy of the 2/7/2014 Inspection Report was included as Attachment 9 in the 10/31/2014 Response.	Completed
11	RC Finishing's 2013 liquids waste manifests were not available for review during the inspection; the City inspectors requested a copy be submitted. It is recommended that the City follow up with the facility to ensure that all requested materials are submitted. (Section 9.3, Nondomestic Discharger Site Visits Conducted During the Inspection)	RC Finishing has submitted all 2013 liquid waste manifests to the City. Furthermore, the City conducted a follow-up inspection on 9/24/2014 and verified with the business owner that slowing business has resulted in a reduction of waste to be hauled off site. The City will continue to monitor the facility. A copy of the 9/24/2014 Inspection Report was included as Attachment 10 in the 10/31/2014 Response.	Completed

Pretreatment Program Expenses For Fiscal Year 2014-2015

The total number of staff devoted to the pretreatment program including staff in Source Control, the Laboratory, Fats, Oil, and Grease (FOG), Pollution Prevention, and Engineering is 49.02 full-time employees. Personal service expenses, including fringe benefits, and non-personal expenses were $6.5 million. The table entitled, "Pretreatment Program Expenses for Fiscal Year 2014/2015," is a breakdown of these expenses.

Non-personnel expenses include supplies, training, printing reports, dues, and subscriptions. The table includes line items for outreach materials and contract work.

The Laboratory personnel distribution was based on sample work load, type of analysis (wet chemistry or using advanced instruments), level of training or experience of the staff, and requested turn-around times. Lab Assignments typically include:

- Sample bottle preparation and preservation,
- Sample log-in and chain of custody tracking,
- Analysis using advanced laboratory instruments and the Laboratory Integrated Management System (LIMS),
- Data entry and report generation in LIMS, and
- Review and validation of data and reports.

The source of the funding is the Treatment Plant Operating Fund (Fund 513), comprised of funding from the tributary agencies. Revenue for this fund is generated through the collection of sewer use fees on the customer's property tax bill in San José and payments from the other tributary agencies.

Pretreatment Program Expenses
for Fiscal Year 2014-2015

Position Title	FTEs for 2014-2015		Salary & Fringe/Retire
Deputy Director	0.60	$	173,160
Laboratory Supervisor (LAB)	0.80	$	129,779
Lab Manager (LAB)	0.25	$	52,683
Environmental Program Manager (PT)	1.00	$	156,872
Environmental Program Manager (FOG)	0.50	$	101,258
Senior Environmental Inspector (PT)	1.00	$	151,394
Senior Environmental Inspector (FOG)	1.00	$	188,842
Supervising Environmental Services Specialist (P2)	1.00	$	118,389
Associate Engineer (ENG)	1.00	$	172,888
Sanitary Engineer (ENG)	3.00	$	446,102
Environmental Inspector (PT)	9.00	$	1,170,197
Environmental Inspector (FOG)	7.00	$	959,602
Environmental Inspector (ENG)	3.00	$	348,352
Environmental Services Specialist (P2)	2.00	$	211,448
Assistant Environmental Inspector (PT)	3.00	$	103,168
Laboratory Technician (LAB)	5.00	$	362,415
Chemist (LAB)	4.50	$	683,434
Office Specialist (SUP)	2.07	$	153,625
Senior Office Specialist (SUP)	1.38	$	135,844
Principal Office Specialist (SUP)	0.60	$	64,222
Staff Specialist (SUP)	0.69	$	81,111
Analyst II (SUP)	0.625	$	91,507
Personnel Total	**49.02**	**$**	**6,056,291**

SUP = Support
ENG = Engineering
FOG = Fats Oil and Grease
LAB = Laboratory
P2 = Pollution Prevention
PT = Pretreatment

Non-Personal Expenses		
Source Control Supplies	$	16,030
Engineering Supplies	$	1,047
Pollution Prevention Supplies	$	683
Fats, Oil, and Grease Supplies	$	20,623
Computers/Software	$	21,676
Laboratory Supplies	$	179,714
Printing and Duplicating	$	12,151
Training (all travel expenses)	$	11,411
Dues & Subscriptions	$	11,151
Non-Personal Total	**$**	**274,488**
Contractual Services		
Source Control Training	$	500
Temporary Contract Staff	$	203,626
Lab Services (outside testing)	$	18,645
Contractual Services Total	**$**	**222,771**
Outreach Expenses		
Outreach Support	$	6,865
Outreach Expenses Total	**$**	**6,865**
Total Pretreatment Program Expenses FY 2014-2015	**$**	**6,560,415**

Watershed Protection Division

Deputy Director
Napp Fukuda 7678

Analyst II
Sue Toy 15819

Principal Office Specialist
Sharona Rozario 2246

Stormwater Management

Env Services Program Manager
Sharon Newton 2172

Supervising ESS
James Downing 7033

Env Services Spec
Jordan Ciprian 7483
Sandra Freitas 7988
Carol Boland 16327
Amber Schat 18233

Supervising ESS
Jeffrey Sinclair 16249

Env Services Spec
Suzanne Thomas 16277

Associate ESS
Patrick Hansen 15340
Kenneth Rosales 7482

Supervising ESS
Jennifer Seguin 16611

Env Services Spec
VACANT 7471
Liz Neves 16278
Brad Hunt 18768

Comm Activity Worker P/T
Natalie Lopez 17099
Paul Gonzales 17099

Pretreatment & Program Support

Env Services Program Manager
Casey Fitzgerald 16484

Clerical

Staff Specialist
Joann Douglas 16104

Sr. Office Specialist
Eduardo Dominguez 16250
Mary Taylor 4016

Office Specialist II
Leslie Martin 8486
Rebecca Ponce 7966
Tina Yu-Taylor 8482

Env Engineering

Associate Engineer
Hossein Rahnema 16109

Sanitary Engineer
Stephen Lowes 7751
Anju Whig 7668
VACANT 7752

Env Inspector I/II
Sharon Terwilliger 7665
Leela Correa 9065
Zuhayl Lambert 7748

Source Control

Sr. Env Inspector
Alleyne Long 4101

Env Inspector I/II
Varsha Patel 9048
Jack Dickinson 4922
Matt Lambert 6266
Chris Fivecoat 15641
Gerardo Nieves 8129
TinTin Myint 16105
John Fosnaugh 16107
Brian Fontes 7669
Jack Judkins 9067

Assist Env Inspector
Isaac Tam 15081
Hugo Hernandez 15085
Maile Pujalet 15091

Environmental Enforcement

Env Services Program Manager
Steven Osborn 5245

Watershed Enforcement

Sr. Env Inspector
Cathy Hoang-Mendoza 15175

Env Inspector I/II
Maria Begiebing 16276
Wanda Wong 16355
Alma Zavala 16106
Shara Sedaghatpour 4105
Erica Colunga 16356
Nick Ajluni 7194

Sr. Env Inspector
Chris Donaldson 15084

Env Inspector I/II
Kort Jackson 5391
Osvaldo Cordero 7750
Pradnya Jadhav 16354
Bahar Ghofraniha 15642
Eric Uldrick 7891
Phil Ody 16275
Jessica Arellano 9049
Laura Markel 7731
Joshua Villa 7727

Asst Env Inspector
Jamal Kazemi 7970
VACANT (Frozen) 4106

FOG and Sewer Investigations

Sr. Env Inspector
Mary Morse 16274

Env Inspector I/II
Steven Hildebrand 15090
Mahmoud Jillo 16103
Andrew Luong 4104
Jon Reger 7889
Pascal Roubineau 4102
Rina Laxamana 5561
Brandon Massey 7725

Laboratory Services

Environmental Laboratory Manager
Noel Enoki 15298

Wastewater Support

Env Laboratory Sup
Payal Sarkar 8008

Biologist
Priti Mugatwala 16784

Microbiologist
Yanru Yang 16326

Aquatic Toxicologist
VACANT 8009

Chemist
Felicia Hamilton 8133
Julie Lee 6289
Kim T. Nguyen 18472

Lab Technician I/II
Scott Moser 4740
VACANT 4212
Bryan Escamilla 6272
Kunning Zhu 4741
Kelsey Friedt 8140
Linda Duong 15649
Rami Hijazeen 7754

Trace Analytical & Client Support

Env Laboratory Sup
Jo A-Bunnell 7753

Chemist
Rey Honrada 8134
Raymundo Partido 8136
James Powars 9063
Cora Bautista 16457
Michael Chien 15648

Lab Technician I/II
Ranak Majmudar 4158
VACANT 4148
Vacant 4155
Xia Wang 5082
Sonia Chan 9062
Austin Lau 4149

QA Chemist
Kim N. Nguyen 4147

CITY OF
SAN JOSE
CAPITAL OF SILICON VALLEY

Memorandum

TO: Toni Taber
City Clerk

FROM: Kerrie Romanow

SUBJECT: SEE BELOW

DATE: February 2, 2016

Approved

Date

SUBJECT: PUBLICATION OF LEGAL NOTICE FOR INDUSTRIAL WASTE DISCHARGERS IN SIGNIFICANT NON-COMPLIANCE WITH EPA AND LOCAL PRETREATMENT STANDARDS IN 2015

BACKGROUND

The Environmental Services Department of the City of San José, as control authority for the San José-Santa Clara Regional Wastewater Facility, is required by Federal Pretreatment Regulations to publish annually a list of industrial wastewater dischargers who, during the previous twelve months were in Significant Non-Compliance of applicable EPA and Local Pretreatment Standards. The San José-Santa Clara Regional Wastewater Facility's definition of Significant Non-Compliance is consistent with the EPA General Pretreatment Regulations. The definition is as follows:

- Chronic violations of wastewater Discharge limits, defined here as those in which 66 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement, including instantaneous limits, as defined by 40 CFR 403.3(l).
- Technical Review Criteria (TRC) violations, defined here as those in which 33 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period equal or exceed the product of the numeric Pretreatment Standard or Requirement including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil, and grease, and 1.2 for all other pollutants except pH).
- Any other violation of a Pretreatment Standard or Requirement as defined by 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative Standard) that the POTW determines has caused, alone or in combination with other Discharges, Interference or Pass Through (including endangering the health of POTW personnel or the general public).
  Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment or has resulted in the POTW's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge.

- Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a local control mechanism or enforcement order for starting construction, completing construction, or attaining final compliance.
- Failure to provide, within 45 days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules.
- Failure to accurately report non-compliance.
- Any other violation or group of violations, which may include a violation of Best Management Practices, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment program.
- For pH chart recorder violations SNC is evaluated when:

  - The industrial discharger caused corrosion to the sanitary sewer system,
  - The violations have a common cause and the industrial discharger has failed to respond to the violations, and/or
  - The number of days the pH chart recorder indicates the discharge is outside of permit limits 66 percent or more of the days in operation within the compliance period.

There were 12 industrial wastewater dischargers found to be in Significant Non-Compliance in 2015. Of these dischargers, four are located in the City of San José, five are located in the City of Santa Clara, two are located in the City of Milpitas, and one is located in the West Valley Sanitation District. One of these dischargers is now out of business; five of these dischargers have now achieved inconsistent or consistent compliance, whereas six facilities were still in Significant Non-Compliance at the end of the fourth quarter. These include: List Biological Laboratories Inc., Metal Finishing Solutions, Inc., QualTech Circuits, Inc., Solexel, Inc., Vacuum Engineering & Materials Co., and Viasystems, Inc. The City is working with these facilities to achieve consistent compliance.

ACTION REOUIRED

Please process the attached Notice of Non-Compliance for a one day publication in the San Jose Mercury News.

for Kerrie Romanow
Director, Environmental Services

Attachment: Notice of Non-Compliance

cc: Norberto Duenas, City Manager
Jennie Loft, ESD

ATTACHMENT
CITY OF SAN JOSÉ - NOTICE OF NON-COMPLIANCE
WITH PRETREATMENT STANDARDS FOR DISCHARGE OF INDUSTRIAL
WASTEWATER TO THE SEWERAGE SYSTEM

Under Environmental Protection Agency (EPA) General Pretreatment Regulations (40 CFR 403.8 (f)(2)(viii)), the Environmental Services Department of the City of San José is required to publish annually a list of industrial wastewater dischargers located within the tributary area who, during the previous calendar year, were in Significant Non-Compliance with applicable federal and local Pretreatment Standards for their industry consistent with the definition contained in 40 CFR 403.8 (f)(2)(viii)(A-H). The dischargers are listed below for the calendar year 2015.

Advanced Component Labs
990 Richard Ave., Unit 118, Santa Clara, CA 95050
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average zinc concentration limit Technical Review Criteria (TRC) for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

Alsco
2275 Junction Ave., San Jose, CA 95131
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and City of San Jose Municipal Code 15.14.565
VIOLATION: Exceeded the local maximum allowable oil and grease concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

Coatek
2272 Calle de Luna, Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and City of Santa Clara City Code 13.10.310
VIOLATION: Exceeded the local maximum allowable lead and nickel concentration limits TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 2nd

Kion Technology, Inc.
2190 Old Oakland Rd., San Jose, CA 95131
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average and federal daily maximum cyanide concentration limit for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 2nd

List Biological Laboratories, Inc.
540 Division St., Campbell, CA 95008
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 439.17
VIOLATION: Exceeded the federal monthly average and federal daily maximum chloroform concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Mannington Mills dba Burke Industries
2250 S. 10th St., San Jose, CA 95112
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and of San Jose Municipal Code 15.14.565
VIOLATION: Exceeded the local maximum allowable oil and grease concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 2nd

Metal Finishing Solutions, Inc.
870 Comstock St., Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average zinc concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

QualTech Circuits, Inc.
1101 Comstock St., Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average cadmium concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal, Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Solexel, Inc.
1532 McCarthy Blvd., Milpitas, CA 95035
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(F), 40 CFR 403.12(h), and City of Milpitas Municipal Code 5.46
VIOLATION: Failed to submit Self-Monitoring Report within 45 days
CURRENT STATUS: Significant Non-Compliance Federal and Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4^{th}

Supertex, Inc.
71 Vista Montana Dr., San Jose, CA 95134
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B) and City of San Jose Municipal Code 15.14.585
VIOLATION: Exceeded the local maximum allowable nickel concentration limit for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Out of Business
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3^{rd}

Vacuum Engineering & Materials Co.
390 Reed St., Santa Clara, CA 95050
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B) and 40 CFR 471.45(q)
VIOLATION: Exceeded the federal monthly average copper concentration limit for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period representing the 1^{st} quarter and exceeded the federal monthly average copper concentration limit TRC for 33%+ of the measurements taken during a six month period representing the 4^{th} quarter
CURRENT STATUS: Significant Non-Compliance Federal, Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 1^{st}, 4^{th}

Viasystems, Inc.
1831 Tarob Ct., Milpitas, CA 95035
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(G) and City of Milpitas Municipal Code 5.47
VIOLATION: Falsification of Information
CURRENT STATUS: Significant Non-Compliance Federal and Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4^{th}

San Jose Mercury News
4 N. 2nd Street, Suite 800
San Jose, CA 95113
408-920-5332

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1002150

CITY OF SAN JOSE
OFFICE THE CITY GROUP/BRENDA CHARLES
200 E SANTA CLARA STREET
2ND FLOOR WING
SAN JOSE, CA 95113

PROOF OF PUBLICATION IN THE CITY OF SAN JOSE IN THE STATE OF CALIFORNIA COUNTY OF SANTA CLARA

FILE NO. K.Handford

In the matter of

San Jose Mercury News

The undersigned, being first duly sworn, deposes and says: That at all times hereinafter mentioned affiant was and still is a citizen of the United States, over the age of eighteen years, and not a party to or interested in the above entitled proceedings; and was at and during all said times and still is the principal clerk of the printer and publisher of the San Jose Mercury News, a newspaper of general circulation printed and published daily in the City of San Jose, County of Santa Clara, State of California as determined by the court's decree dated June 27, 1952, Case Numbers 84096 and 84097, and that said San Jose Mercury News is and was at all times herein mentioned a newspaper of general circulation as that term is defined by Sections 6000; that at all times said newspaper has been established, printed and published in the said County and State at regular intervals for more than one year preceding the first publication of the notice herein mentioned. Said decree has not been revoked, vacated or set aside.

I declare that the notice, of which the annexed is a true printed copy, has been published in each regular or entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

02/10/2016

Dated at San Jose, California
February 10, 2016

I declare under penalty of perjury that the foregoing is true and correct.

Principal clerk of the printer and publisher of the San Jose Mercury News

Legal No. **0005665801**

ATTACHMENT
CITY OF SAN JOSÉ -
NOTICE OF NON-COMPLIANCE WITH PRETREATMENT STANDARDS FOR DISCHARGE OF INDUSTRIAL WASTEWATER TO THE SEWERAGE SYSTEM

Under Environmental Protection Agency (EPA) General Pretreatment Regulations (40 CFR 403.8 (f)(2)(viii)), the Environmental Services Department of the City of San José is required to publish annually a list of industrial wastewater dischargers located within the tributary area who, during the previous calendar year, were in Significant Non-Compliance with applicable federal and local Pretreatment Standards for their industry consistent with the definition contained in 40 CFR 403.8 (f)(2)(viii)(A-H). The dischargers are listed below for the calendar year 2015.

Advanced Component Labs
990 Richard Ave., Unit 118, Santa Clara, CA 95050
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average zinc concentration limit Technical Review Criteria (TRC) for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

Alsco
2275 Junction Ave., San Jose, CA 95131
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and City of San Jose Municipal Code 15.14.565
VIOLATION: Exceeded the local maximum allowable oil and grease concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

Coatek
2272 Calle de Luna, Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and City of Santa Clara City Code 13.10.310
VIOLATION: Exceeded the local maximum allowable lead and nickel concentration limits TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 2nd

Kion Technology, Inc.
2190 Old Oakland Rd., San Jose, CA 95131
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average and federal daily maximum cyanide concentration limit for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 2nd

List Biological Laboratories, Inc.
540 Division St., Campbell, CA 95008
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 439.17
VIOLATION: Exceeded the federal monthly average and federal daily maximum chloroform concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Mannington Mills dba Burke Industries
2250 S. 10th St., San Jose, CA 95112
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and of San Jose Municipal Code 15.14.565
VIOLATION: Exceeded the local maximum allowable oil and grease concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 2nd

Metal Finishing Solutions, Inc.
870 Comstock St., Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average zinc concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

QualTech Circuits, Inc.
1101 Comstock St., Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly

average cadmium concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal, Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Solexel, Inc.
1532 McCarthy Blvd., Milpitas, CA 95035
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(F), 40 CFR 403.12(h), and City of Milpitas Municipal Code 5.46
VIOLATION: Failed to submit Self-Monitoring Report within 45 days
CURRENT STATUS: Significant Non-Compliance Federal and Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Supertex, Inc.
71 Vista Montana Dr., San Jose, CA 95134
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B) and City of San Jose Municipal Code 15.14.585
VIOLATION: Exceeded the local maximum allowable nickel concentration limit for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Out of Business
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

Vacuum Engineering & Materials Co.
390 Reed St., Santa Clara, CA 95050
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B) and 40 CFR 471.45(q)
VIOLATION: Exceeded the federal monthly average copper concentration limit for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period representing the 1st quarter and exceeded the federal monthly average copper concentration limit TRC for 33%+ of the measurements taken during a six month period representing the 4th quarter
CURRENT STATUS: Significant Non-Compliance Federal, Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 1st, 4th

Viasystems, Inc.
1831 Tarob Ct., Milpitas, CA 95035
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(G) and City of Milpitas Municipal Code 5.47
VIOLATION: Falsification of Information
CURRENT STATUS: Significant Non-Compliance Federal and Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

SJMN#5665801; February 10, 2016

San José-Santa Clara
Regional Wastewater Facility

January 29, 2016

Dr. Lauren V. Fondahl
Biosolids Coordinator, Clean Water Act Compliance Office, WTR-7
U S EPA, Region 9
75 Hawthorne St.
San Francisco, CA 94105-3901

Subject: San José-Santa Clara Regional Wastewater Facility - 2015 Biosolids Reuse Report

Dear Dr. Fondahl:

This report satisfies the requirements of 40 CFR Part 503 and Section D, and NPDES Permit number CA0037842, (Order number R2-2014-0038). The EPA Biosolids Annual Report Format at www.epa.gov/region09/water/npdes/sludge.html was used to compile this report. Laboratory results are attached.

During calendar year 2015, a total of 55,118 dry tons (50,002 dry metric tons) of biosolids were reused by International Disposal Corporation as alternate daily cover at the Newby Island Landfill.

If you need additional information, or have questions, contact Jim Ervin, at (408) 635-4018, or Ryan Mayfield, at (408) 635-4033.

Sincerely,

Joanna De Sa

Joanna De Sa

Enclosures (3)
cc: Ms. Marcia Liao, RWQCB

General Facility Information	
	Please type information into the cells below.
Permit No. (NPDES permit if applicable)	**CA0037842**
Facility Name	San Jose-Santa Clara Regional Wastewater Facility
Authority Name	San Jose-Santa Clara Regional Wastewater Facility
Regional Board Number (California only)	R2-2014-0034
Facility Physical Address	
Street	700 Los Esteros Road
City	San Jose
County	Santa Clara
State or Tribal Nation	California
Zip Code	95134
Phone	408-635-6600
Facility Mailing Address	
Street	Same as above
City	
State	
Zip Code	
Responsible Official	
Name	Joanna De Sa
Title	Deputy Director, Environmental Services Department
Biosolids Contact Person	
Name	Jim Ervin
Title	Environmental Compliance Manager
E-mail	James.Ervin@sanjoseca.gov
Phone	408-635-4018
Fax	n/a
Average Daily Influent Flow to plant, millions of gallons per day (MGD) (if this is a wastewater treatment plant)	110 MGD
Annual biosolids production, in dry metric tons per year (DMTY), 100% dry weight basis	30,000 - 72,000 DMTY
Does this facility have a design capacity equal to or greater than 1 million gallons per day (MGD)? (Y/N)	Yes
Is Pretreatment Required? (Y/N)	Yes
Does this facility receive sludge from upstream treatment plants? If so, enter name of upstream plant(s), influent flow of plants, mgd of sludge received from plants (if piped), or dry metric tons (if received dewatered).	No
Is this a "sludge-only" facility (no treatment of wastewater)? (Y/N)	No
Does the facility send biosolids out of county? (Y/N). If so, list counties to which sent (one entry per column), and volume (DMTY) sent.	No
Volume, dry metric tons/year sent to other county	
Name of county	
Name of state or tribal nation	
Type of facility (enter code(s) listed below that pertains to your facility on this line)	
Publicly owned treatment works: POTW	
Federal Facility: FOTW	
State Facility: SOTW	
Privately owned treatment works: PROTW	
Compost operation: Comp	
Alkali treatment operation: Alk	
Heat drying operation: Htdry	
Land application operation: Land	
Other (fill in):	

Description of processes

Give a brief description of your sewage sludge treatment and use/disposal practices

The San Jose/Santa Clara Regional Wastewater Facility is a 167 mgd advanced wastewater treatment facility. Wastewater treatment processes include: pretreatment screening and grit removal, primary sedimentation, biological treatment, dual media filtration, and chlorine disinfection.

Biosolids are process from wastewater through dissolved air flotation thickening and anaerobic digestion. Approximately one million gallons per day of digested sludge, at approximately 2% solids, is pumped to storage lagoons where the sludge stabilizes for two to three years. The sludge is then solar dried in drying beds for three to five months with assistance of mechanical mixing equipment. Anaerobic digestion achieves vector attraction reduction on all stockpiles by reducing volatile solids by a minimum of 38% (40 CFR Part 503.33(b)(1)). Additionally, anaerobic digestion, long-term lagoon stabilization, and solar drying significantly reduce pathogens 40 CFR Part 503, Appendix B, Nos. 2 & 3). Microbiological testing is performed on biosolids to demonstrate Class A certification (40 CFR Part 503.32(a)(6)).

Describe any changes to your operations, any unique features or operational issues encountered during past year

No changes to operations in 2015

Describe any instances of non-compliance and measures taken to correct it.

No instances of non-compliance.

Contractors			
Please include all contractors used for biosolids land application, treatment, disposal, and hauling this year. (Add additional rows if more than 3 contractors)			
	Please type information into this column.		
Contractor 1			
Name	International Disposal Corporation (IDC)		
Street	1601 Dixon Landing Road		
City	Milpitas		
State	California		
County of Operations	Santa Clara		
Zip Code	95035		
Contact Name	Gil Cheso		
Contact Phone	408-635-1406		
Contact e-mail	gil.cheso@awin.com		
Type of operation(s)	Landfill		
Dry metric tons handled	30,000-72,000 DMTY		
Contractor 2			
Name			
Street			
City			
State			
County of Operations			
Zip Code			
Contact Name			
Contact Phone			
Contact e-mail			
Type of operation(s)			
Dry metric tons handled			
Contractor 3			
Name			
Street			
City			
State			
County of Operations			
Zip Code			
Contact Name			
Contact Phone			
Contact e-mail			
Type of operation(s)			
Dry metric tons handled			

BIOSOLIDS TREATMENT PROVIDED	

For each treatment type, please indicate which method(s) your facility uses to treat its solids. For example, if three anaerobic digesters are used, enter the code for anaerobic digesters followed by the number three in parentheses. The number entered will look like 6(3). If more than one method is used for each process, please separate the codes with commas. For example, if 3 digesters, 2 centrifuges, and 10 drying beds are being used, enter 6(3), 18(10), 21(2).

	Type the thickening code(s) into the box below:
THICKENING	**2**
Codes to use for thickening:	
1. Gravity	
2. Dissolved-Air Flotation (DAF)	
3. Centrifuge (enter number of centrifuges in use)	
4. Other (briefly describe in the cell to the right of the "Thickening" code box)	
	Type the stabilization code(s) into the box below:
Stabilization/Pathogen Reduction	7 (7)
Codes to use for stabilization:	
5. Aerobic Digestion	
6. Thermophilic aerobic digestion	
7. Anaerobic Digestion	
8. Thermophilic anaerobic digestion	
9. Pasteurization	
10. Chemical (Alkali) Stabilization	
11. Composting	
12. Other (briefly describe in the cell to the right of the "Stabilization" code box)	
	Type the conditioning code(s) into the box below:
CONDITIONING	n/a
Codes to use for conditioning:	
13. Chemical Conditioning (add type of polymer to right of code box)	
14. Other (briefly describe in the cell to the right of the "Conditioning" code box)	
	Type dewatering code(s) into the box below:
DEWATERING	19 (20), 18 (15)
Codes to use for dewatering:	
15. Vacuum Filter	
16. Pressure Filter	
17. Belt Filter	
18. Drying Beds	
19. Drying Lagoon	
20. Heat Drying Units	
21. Centrifuge	
22. Other (briefly describe in the cell to the right of the "Dewatering" code box)	
	Type other applicable code(s) into the box below:
OTHER	
Codes to use for "other":	
23. Wastewater Lagoon	
24. Oxidation Ditch	
25. Incineration	
26. Fuel (briefly describe in cell to the right of the "other" code box)	
27. Septage	
28. Other (briefly describe in the cell to the right of the "Other" code box)	

Final Use and Disposal Practices

Total Annual Production	Please type amount in the cell below. Weight units must be Dry Metric Tons (DMT), 100% dry weight basis. Composters specify biosolids received in this column
	45,057 DMT

Land application is spreading or injection of Class A or Class B biosolids, or materials derived from biosolids, for the purpose of growing crops or vegetation.

Land Application of Class B biosolids:	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons for the Year (DMTY).
Agricultural Land	
Range Land	
Forest	
Reclamation Site	
Land Application of Class A biosolids:	
Agricultural Land	
Range Land	
Forest	
Public Contact Site	
Reclamation Site	
Sold or Given Away	

Surface disposal is spreading, injection, or filling for the purpose of disposal. It includes sludge-only units at landfills.

SURFACE DISPOSAL	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons for the Year (DMTY).
With Liner & LCS	
Without Liner & LCS	

LANDFILL	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
Landfill Disposal	
Landfill Cover (ADC or final)	50,002 DMT
Landfill Name	Newby Island Landfill
Does Landfill meet 40CFR258? (Y/N)	Yes

RECEIVED FROM ANOTHER FACILITY	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons per year (DMTY).
Amount Received From Other Faciliteis	Tonnage received: None
Name of facility (fill out a column for each facility)	N/A
Address of facility	
Type of facility (POTW, other)	

TRANSFERRED TO ANOTHER FACILITY	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
Amount Transferred To Other Facilities	Tonnage transferred:
Name of the other facility	
Address of facility	
Type of facility (POTW, composter, other)	

	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
Amount Subjected to Other Use or Disposal	None
Please specify the other use or disposal METHOD in the cell to the right:	
Amount Stored	
Amount stored from current year	
Amount stored from previous years	
Age of stored sludge	
Amount in Long-Term Treatment in Lagoons	

Pathogen and Vector Attraction Reduction (VAR)
Please note: this page of the spreadsheet must be printed out, signed at the bottom by the responsible official, and mailed to the EPA, as well as being returned with the rest of this spreadsheet (as an electronic file).

Pathogen Reduction for Class A Biosolids	If this facility produces Class A biosolids, please enter the appropriate code(s) in the box below. Include fecal coliform/salmonella results with monitoring results.
Code numbers to use for Pathogen Reduction of Class A Biosolids:	Code Description: **N/A**
Alternative 1	Time/Temperature (T&T)
Alternative 2	Alkaline Treatment (pH and T&T)
Alternative 3	Testing for 3 categories of pathogens, operational paramenters
Alternative 4	Testing of accumulated biosolids for 3 categories of pathogens
PFRP 1	Composting
PFRP 2	Heat drying
PFRP 3	Heat treatment of liquid biosolids
PFRP 4	Thermophilic aerobic digestion
PFRP 5	Beta ray irradiation
PFRP 6	Gamma ray irradiation
PFRP 7	Pasteurization
Alternative 6	Equivalent PFRP

Pathogen Reduction for Class B Biosolids	If this facility produces Class B biosolids, please enter the appropriate code(s) in the box below. Include fecal coliform results, if applicable, with monitoring results.
Code numbers to use for Pathogen Reduction of Class B Biosolids:	Code Description: **PSRP3**
Alternative 1	Testing for fecal coliform, geometric mean of seven samples
PSRP 1	PSRP Method: aerobic digestion
PSRP 2	PSRP Method: air drying
PSRP 3	PSRP Method: anaerobic digestion
PSRP 4	PSRP Method: composting
PSRP 5	PSRP Method: lime stabilization
Alternative 3	Equivalent PSRP

Vector Attraction Reduction (VAR)	Please enter the appropriate VAR compliance code in the box below:
Codes to use for VAR compliance:	Code Description: **7**
1	38% Volatile Solids Reduction
2	BENCH - Anaerobic Digestion
3	BENCH - Aerobic Digestion
4	Aerobic Digestion (SOUR)
5	"Aerobic Process": Composting
6	Alkaline stabilization: pH 12 for 2 hours, 11.5 for 22 hours
7	Drying: digested biosolids to 75%
8	Drying: undigested biosolids to 90%
9	Injection
10	Incorporation
11	Surface Disposal Daily Cover
12	Septage: pH 12 for 30 minutes
999	Not Applicable

Preparer's Certification Statement for Pathogen and Vector Attraction Reduction
40 CFR 503.17, as amended August 4, 1999

Please enter the compliance method number(s) in the statement below:

" I certify, under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in 503.32 __________ [and the vector attraction reduction requirements in 503.33 ____]* was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Signature of responsible official: ______________________

*when vector attraction reduction is achieved during treatment

Drying Bed Record: If this facility used drying beds during the reporting year, please fill in this table. Enter dates in mm/dd/yyyy format.

	Drying Bed #	Date start to fill	Date filling completed	Date removal from drying bed started
1	1	1/21/2015	2/21/2015	9/28/2015
2	2	1/5/2015	1/21/2015	9/28/2015
3	3	11/11/2014	1/5/2015	9/28/2015
4	4	10/9/2014	11/11/2014	9/28/2015
5	5	12/3/2014	1/13/2015	9/28/2015
6	6	3/31/2015	5/7/2015	9/28/2015
7	7	2/24/2015	3/31/2015	9/28/2015
8	8	1/13/2015	2/24/2015	9/28/2015
9	9	1/21/2015	2/21/2015	9/28/2015
10	10	2/21/2015	3/11/2015	9/28/2015
11	11	4/10/2015	5/7/2015	9/28/2015
12	12	10/7/2014	12/3/2014	9/28/2015
13	13	1/15/2015	1/21/2015	9/28/2015
14	14	11/13/2014	1/5/2015	9/28/2015
15	14	4/6/2015	5/7/2015	9/28/2015
16	15	10/9/2014	11/13/2014	9/28/2015
17	16	5/7/2015	5/22/2015	9/28/2015
18	17	Not in Serivce	Not in Serivce	9/28/2015
19	18	Not in Serivce	Not in Serivce	9/28/2015
20	19	10/1/2013	12/1/2013	9/28/2015
21	20	2/20/2014	3/21/2014	9/28/2015
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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-117185-1
Client Project/Site: Plant Operations

For:
City of San Jose Water Pollution Control
700 Los Esteros Road
San Jose, California 95134

Attn: Ms. Jo Andrade Bunnell

Authorized for release by:
8/24/2015 1:59:15 PM

Janice Hsu, Project Manager I
(949)261-1022
janice.hsu@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-117185-14	LD40069	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-15	LD40070	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-16	LD40071	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-17	LD40072	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-18	LD40073	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-19	LD40074	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-20	LD40075	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-21	LD40076	Solid	08/04/15 10:30	08/05/15 10:00
440-117185-22	LD40077	Solid	08/04/15 10:30	08/05/15 10:00

Job ID: 440-117185-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-117185-1

Comments
No additional comments.

Receipt
The samples were received on 8/5/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The continuing calibration verification (CCV) associated with batch 440-271807 recovered above the upper control limit for N-Nitrosodi-n-propylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270C: The source sample for the MS/MSD associated with batch 440-271520 was diluted due to the nature of the sample matrix: (LCS 440-271520/2-A). As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported.

Method(s) 8270C: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with analytical batch 440-272209 : Hexachlorocyclopentadiene, N-Nitrosodi-n-propylamine and 4-Chloroaniline . These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. A standard was run at the reporting limit for this compound to demonstrate sufficient instrument sensitivity.

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: LD40070 (440-117185-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: The source sample for the MS/MSD associated with batch 440-271561 was diluted due to abundance of target analytes: (LCS 440-271561/2-A). As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported.

Method(s) 8081A: The following sample was diluted due to the nature of the sample matrix: LD40072 (440-117185-17). Elevated reporting limits (RLs) are provided.

Method(s) 8081A: Surrogate recovery for the following sample was outside control limits: LD40072 (440-117185-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 271851 recovered above the upper control limit for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, Dieldrin, Endosulfan I, Endosulfan II, Endrin, Heptachlor, Heptachlor epoxide and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: LD40072 (440-117185-17) and (CCVRT 440-271851/33).

Method(s) 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: LD40071 (440-117185-16), (LCS 440-271587/2-A), (MB 440-271587/1-A), (440-117185-A-16-A MS) and (440-117185-A-16-B MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 440-271891 contained Copper above the reporting limit (RL). All reported samples associated with this CCB were greater than 10X the value found in the CCB; therefore, re-analysis of samples was

1 2 3 4 5 6 7 8 9 10 11 12 13

Job ID: 440-117185-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

not performed. LD40074 (440-117185-19)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 9014: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-271623 and analytical batch 440-271659 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9014: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-271623 and analytical batch 440-271659 was outside control limits. Sample matrix interference is suspected.

Method(s) 9095A: The following sample for Paint filter, 9095A analysis in batch 272364 does not have enough sample for 100gLD40077 (440-117185-22) The sample was extracted with all remains in the container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: LD40070 (440-117185-15). Elevated reporting limits (RLs) are provided.

Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: LD40072 (440-117185-17). Elevated reporting limits (RLs) are provided.

Method(s) 3546: The following samples was diluted due to the nature of the sample matrix: LD40071 (440-117185-16), (440-117185-A-16 MS) and (440-117185-A-16 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 3546: The following samples was diluted due to the nature of the sample matrix: LD40076 (440-117185-21), (440-117185-A-21 MS) and (440-117185-A-21 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-117185-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-117185-2

Comments
No additional comments.

Receipt
The samples were received on 8/5/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

Metals
Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 440-271891 contained Copper above the reporting limit (RL). All reported samples associated with this CCB were greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. LD40074 (440-117185-19)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: LD40069 — Lab Sample ID: 440-117185-14

Date Collected: 08/04/15 10:30 — **Matrix: Solid**

Date Received: 08/05/15 10:00 — **Percent Solids: 44.9**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,1,1-Trichloroethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,1,2,2-Tetrachloroethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,1,2-Trichloroethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,1-Dichloroethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,1-Dichloroethene	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,1-Dichloropropene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2,3-Trichlorobenzene	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2,3-Trichloropropane	ND		2200	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2,4-Trichlorobenzene	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2,4-Trimethylbenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2-Dibromo-3-Chloropropane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2-Dibromoethane (EDB)	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Acrolein	ND		22000	8800	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2-Dichlorobenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2-Dichloroethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,2-Dichloropropane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,3,5-Trimethylbenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,3-Dichlorobenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Acrylonitrile	ND		22000	4400	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,3-Dichloropropane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
1,4-Dichlorobenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
2,2-Dichloropropane	ND		880	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
2-Chlorotoluene	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
4-Chlorotoluene	ND		1100	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Benzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Bromobenzene	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Bromochloromethane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Bromodichloromethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Bromoform	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Bromomethane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Carbon tetrachloride	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Chlorobenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Chloroethane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Chloroform	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Chloromethane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
cis-1,2-Dichloroethene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
cis-1,3-Dichloropropene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Dibromochloromethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Dibromomethane	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Dichlorodifluoromethane	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Isopropyl Ether (DIPE)	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Ethanol	ND		66000	33000	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Ethyl-t-butyl ether (ETBE)	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Ethylbenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
2-Chloroethyl vinyl ether	ND		2200	1100	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Hexachlorobutadiene	ND		1100	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
Isopropylbenzene	ND		440	220	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100
m,p-Xylene	ND		880	440	ug/Kg	¤	08/10/15 09:39	08/10/15 15:33	100

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis.

Client Sample ID: LD40069 Lab Sample ID: 440-117185-14

Date Collected: 08/04/15 10:30 **Matrix: Solid**
Date Received: 08/05/15 10:00 **Percent Solids: 44.9**

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		4400	2200	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Methyl-t-Butyl Ether (MTBE)	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Naphthalene	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
n-Butylbenzene	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
N-Propylbenzene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
o-Xylene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
sec-Butylbenzene	ND		1100	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Styrene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Tert-amyl-methyl ether (TAME)	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
tert-Butyl alcohol (TBA)	ND		22000	11000	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
tert-Butylbenzene	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Tetrachloroethene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Toluene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
trans-1,2-Dichloroethene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
trans-1,3-Dichloropropene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Trichloroethene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Trichlorofluoromethane	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Vinyl chloride	ND		1100	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
Xylenes, Total	ND		880	440	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100
p-Isopropyltoluene	ND		440	220	ug/Kg	☼	08/10/15 09:39	08/10/15 15:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*60 - 140*	*08/10/15 09:39*	*08/10/15 15:33*	*100*
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*	*08/10/15 09:39*	*08/10/15 15:33*	*100*
Dibromofluoromethane (Surr)	*113*		*55 - 140*	*08/10/15 09:39*	*08/10/15 15:33*	*100*

Client Sample ID: LD40070 Lab Sample ID: 440-117185-15

Date Collected: 08/04/15 10:30 **Matrix: Solid**
Date Received: 08/05/15 10:00 **Percent Solids: 44.8**

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
1,2-Dichlorobenzene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
1,2-Diphenylhydrazine(as Azobenzene)	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
1,3-Dichlorobenzene	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
1,4-Dichlorobenzene	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,4,5-Trichlorophenol	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,4,6-Trichlorophenol	ND		5.8	1.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,4-Dichlorophenol	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,4-Dimethylphenol	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,4-Dinitrophenol	ND		12	5.8	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,4-Dinitrotoluene	ND		5.8	1.4	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2,6-Dinitrotoluene	ND		5.8	1.7	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2-Chloronaphthalene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2-Chlorophenol	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2-Methylnaphthalene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2-Methylphenol	ND		5.8	1.4	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
2-Nitroaniline	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4

Note: ☼ is listed under the "D" column to designate that the result is reported on a dry weight basis.

Client Sample ID: LD40070 | **Lab Sample ID: 440-117185-15**
Date Collected: 08/04/15 10:30 | **Matrix: Solid**
Date Received: 08/05/15 10:00 | **Percent Solids: 44.8**

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
3,3'-Dichlorobenzidine	ND		15	2.6	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
3-Methylphenol + 4-Methylphenol	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
3-Nitroaniline	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4,6-Dinitro-2-methylphenol	ND		7.4	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4-Bromophenyl phenyl ether	ND		5.8	1.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4-Chloro-3-methylphenol	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4-Chloroaniline	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4-Chlorophenyl phenyl ether	ND		5.8	1.5	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4-Nitroaniline	ND		15	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
4-Nitrophenol	ND		15	2.5	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Acenaphthene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Acenaphthylene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Aniline	ND		7.4	1.5	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Anthracene	ND		5.8	1.4	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzidine	ND		24	12	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzo[a]anthracene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzo[a]pyrene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzo[b]fluoranthene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzo[g,h,i]perylene	ND		5.8	1.9	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzo[k]fluoranthene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzoic acid	ND		15	6.0	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Benzyl alcohol	ND		5.8	2.6	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
bis (2-chloroisopropyl) ether	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Bis(2-chloroethoxy)methane	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Bis(2-chloroethyl)ether	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Bis(2-ethylhexyl) phthalate	**3.4**	**J**	5.8	1.6	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Butyl benzyl phthalate	ND		5.8	1.4	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Chrysene	ND		5.8	1.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Dibenz(a,h)anthracene	ND		7.4	1.8	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Dibenzofuran	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Diethyl phthalate	ND		5.8	1.7	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Dimethyl phthalate	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Di-n-butyl phthalate	ND		5.8	1.6	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Di-n-octyl phthalate	ND		5.8	1.6	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Fluoranthene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Fluorene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Hexachlorobenzene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Hexachlorobutadiene	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Hexachlorocyclopentadiene	ND		15	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Hexachloroethane	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Indeno[1,2,3-cd]pyrene	ND		5.8	2.3	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Isophorone	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Naphthalene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Nitrobenzene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
N-Nitrosodi-n-propylamine	ND		4.4	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
N-Nitrosodiphenylamine	ND		5.8	1.4	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Pentachlorophenol	ND		15	6.0	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4
Phenanthrene	ND		5.8	1.2	mg/Kg	☼	08/06/15 15:53	08/10/15 21:24	4

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis.

Client Sample Results

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Client Sample ID: LD40070

Lab Sample ID: 440-117185-15

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid
Percent Solids: 44.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.8	1.6	mg/Kg	¤	08/06/15 15:53	08/10/15 21:24	4
Pyrene	ND		5.8	1.4	mg/Kg	¤	08/06/15 15:53	08/10/15 21:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 147*	*08/06/15 15:53*	*08/10/15 21:24*	*4*
2-Fluorobiphenyl	*62*		*42 - 113*	*08/06/15 15:53*	*08/10/15 21:24*	*4*
2-Fluorophenol (Surr)	*62*		*18 - 138*	*08/06/15 15:53*	*08/10/15 21:24*	*4*
Nitrobenzene-d5 (Surr)	*65*		*39 - 104*	*08/06/15 15:53*	*08/10/15 21:24*	*4*
Phenol-d6 (Surr)	*61*		*37 - 125*	*08/06/15 15:53*	*08/10/15 21:24*	*4*
Terphenyl-d14 (Surr)	*63*		*43 - 125*	*08/06/15 15:53*	*08/10/15 21:24*	*4*

Client Sample ID: LD40071

Lab Sample ID: 440-117185-16

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid
Percent Solids: 44.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1
Aroclor 1221	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1
Aroclor 1232	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1
Aroclor 1242	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1
Aroclor 1248	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1
Aroclor 1254	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1
Aroclor 1260	ND		570	190	ug/Kg	¤	08/06/15 16:54	08/08/15 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*08/06/15 16:54*	*08/08/15 15:04*	*1*

Client Sample ID: LD40072

Lab Sample ID: 440-117185-17

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid
Percent Solids: 44.9

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
4,4'-DDE	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
4,4'-DDT	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Aldrin	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
alpha-BHC	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
beta-BHC	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Chlordane (technical)	ND		2200	450	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
delta-BHC	ND		450	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Dieldrin	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Endosulfan I	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Endosulfan II	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Endosulfan sulfate	ND		450	90	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Endrin	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Endrin aldehyde	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
Endrin ketone	ND		220	90	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10
gamma-BHC (Lindane)	ND		220	67	ug/Kg	¤	08/06/15 15:45	08/07/15 19:06	10

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis.

Client Sample ID: LD40072
Lab Sample ID: 440-117185-17
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00
Percent Solids: 44.9

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		220	90	ug/Kg	☼	08/06/15 15:45	08/07/15 19:06	10
Heptachlor epoxide	ND		220	90	ug/Kg	☼	08/06/15 15:45	08/07/15 19:06	10
Methoxychlor	ND		220	67	ug/Kg	☼	08/06/15 15:45	08/07/15 19:06	10
Toxaphene	ND		9000	2200	ug/Kg	☼	08/06/15 15:45	08/07/15 19:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*106*		*35 - 115*	*08/06/15 15:45*	*08/07/15 19:06*	*10*
DCB Decachlorobiphenyl (Surr)	*41*	*X*	*45 - 120*	*08/06/15 15:45*	*08/07/15 19:06*	*10*

Client Sample ID: LD40073
Lab Sample ID: 440-117185-18
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	**43**		0.050	0.050	%			08/07/15 14:41	1
Total Volatile Solids	**26**		0.050	0.050	%			08/07/15 14:41	1

Client Sample ID: LD40074
Lab Sample ID: 440-117185-19
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00
Percent Solids: 45.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		22	11	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Arsenic	**6.3**	**J**	6.5	3.3	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Barium	**410**		3.3	1.6	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Beryllium	ND		1.1	0.55	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Cadmium	**1.5**		1.1	0.55	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Chromium	**75**		2.2	1.1	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Cobalt	**14**		2.2	1.1	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Copper	**430**	**^**	4.4	2.2	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Lead	**31**		4.4	2.2	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Molybdenum	**7.4**		4.4	2.2	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Nickel	**72**		4.4	2.2	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Selenium	**6.8**		6.5	3.3	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Thallium	ND		22	11	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Vanadium	**63**		2.2	1.1	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Zinc	**620**		11	5.5	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5
Silver	**7.6**		3.3	1.6	mg/Kg	☼	08/07/15 07:37	08/07/15 17:12	5

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**1.1**		0.22	0.087	mg/L	☼		08/15/15 15:59	20
Copper	ND		0.44	0.13	mg/L	☼		08/15/15 15:59	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.043	0.026	mg/Kg	☼	08/06/15 14:42	08/06/15 16:21	1

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis.

Client Sample ID: LD40075
Lab Sample ID: 440-117185-20
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00
Percent Solids: 45.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1 F2	0.044	0.038	mg/Kg	¤	08/06/15 18:53	08/06/15 21:20	1

Client Sample ID: LD40076
Lab Sample ID: 440-117185-21
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00
Percent Solids: 43.8

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C22	**640**		49	24	mg/Kg	¤	08/08/15 09:21	08/10/15 12:09	1
C18-C40	**2900**		49	24	mg/Kg	¤	08/08/15 09:21	08/10/15 12:09	1
C10-C28	**1400**	**F1 F2**	49	24	mg/Kg	¤	08/08/15 09:21	08/10/15 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*40 - 140*	*08/08/15 09:21*	*08/10/15 12:09*	*1*

Client Sample ID: LD40077
Lab Sample ID: 440-117185-22
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	ND		0.10	0.10	mL/100g			08/11/15 08:54	1

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis.

Method Summary

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
9014	Cyanide	SW846	TAL IRV
9095A	Paint Filter	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Client Sample ID: LD40069
Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Lab Sample ID: 440-117185-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40069
Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Lab Sample ID: 440-117185-14
Matrix: Solid
Percent Solids: 44.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	10 mL	272134	08/10/15 09:39	HR	TAL IRV
Total/NA	Analysis	8260B		100	5.04 g	10 mL	272102	08/10/15 15:33	HR	TAL IRV

Client Sample ID: LD40070
Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Lab Sample ID: 440-117185-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40070
Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Lab Sample ID: 440-117185-15
Matrix: Solid
Percent Solids: 44.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.59 g	1 mL	271520	08/06/15 15:53	KDP	TAL IRV
Total/NA	Analysis	8270C		4	7.59 g	1 mL	272209	08/10/15 21:24	AI	TAL IRV

Client Sample ID: LD40071
Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Lab Sample ID: 440-117185-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40071
Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Lab Sample ID: 440-117185-16
Matrix: Solid
Percent Solids: 44.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			2.99 g	2 mL	271587	08/06/15 16:54	BAW	TAL IRV
Total/NA	Analysis	8082		1	2.99 g	2 mL	271554	08/08/15 15:04	JM	TAL IRV

Client Sample ID: LD40072
Lab Sample ID: 440-117185-17
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40072
Lab Sample ID: 440-117185-17
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00
Percent Solids: 44.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.45 g	2 mL	271561	08/06/15 15:45	KDP	TAL IRV
Total/NA	Analysis	8081A		10	7.45 g	2 mL	271851	08/07/15 19:06	KS	TAL IRV

Client Sample ID: LD40073
Lab Sample ID: 440-117185-18
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV
Total/NA	Analysis	SM 2540G		1		10.041 g	271838	08/07/15 14:41	MMH	TAL IRV

Client Sample ID: LD40074
Lab Sample ID: 440-117185-19
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40074
Lab Sample ID: 440-117185-19
Date Collected: 08/04/15 10:30
Matrix: Solid
Date Received: 08/05/15 10:00
Percent Solids: 45.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.07 g	500 mL	272839	08/12/15 19:10	CH	TAL IRV
STLC Citrate	Analysis	6010B		20			273498	08/15/15 15:59	EN	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	271707	08/07/15 07:37	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	271891	08/07/15 17:12	TK	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	271453	08/06/15 14:42	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	271579	08/06/15 16:21	EN	TAL IRV

Lab Chronicle

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Client Sample ID: LD40075

Lab Sample ID: 440-117185-20

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40075

Lab Sample ID: 440-117185-20

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid
Percent Solids: 45.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			50 mL	50 mL	271623	08/06/15 18:53	SN	TAL IRV
Total/NA	Analysis	9014		1	50 mL	50 mL	271659	08/06/15 21:20	SN	TAL IRV

Client Sample ID: LD40076

Lab Sample ID: 440-117185-21

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Client Sample ID: LD40076

Lab Sample ID: 440-117185-21

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid
Percent Solids: 43.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			3.52 g	1 mL	271977	08/08/15 09:21	KDP	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1	3.52 g	1 mL	272170	08/10/15 12:09	QCT	TAL IRV

Client Sample ID: LD40077

Lab Sample ID: 440-117185-22

Date Collected: 08/04/15 10:30
Date Received: 08/05/15 10:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9095A		1		51.8 g	272364	08/11/15 08:54	CH	TAL IRV
Total/NA	Analysis	Moisture		1			271649	08/06/15 20:29	MMH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-272102/5
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			08/10/15 08:34	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,1-Dichloroethane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,1-Dichloroethene	ND		250	100	ug/Kg			08/10/15 08:34	100
1,1-Dichloropropene	ND		100	50	ug/Kg			08/10/15 08:34	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			08/10/15 08:34	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			08/10/15 08:34	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			08/10/15 08:34	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			08/10/15 08:34	100
1,2-Dibromoethane (EDB)	ND		100	50	ug/Kg			08/10/15 08:34	100
Acrolein	ND		5000	2000	ug/Kg			08/10/15 08:34	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
1,2-Dichloroethane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,2-Dichloropropane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
Acrylonitrile	ND		5000	1000	ug/Kg			08/10/15 08:34	100
1,3-Dichloropropane	ND		100	50	ug/Kg			08/10/15 08:34	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
2,2-Dichloropropane	ND		200	100	ug/Kg			08/10/15 08:34	100
2-Chlorotoluene	ND		250	100	ug/Kg			08/10/15 08:34	100
4-Chlorotoluene	ND		250	50	ug/Kg			08/10/15 08:34	100
Benzene	ND		100	50	ug/Kg			08/10/15 08:34	100
Bromobenzene	ND		250	100	ug/Kg			08/10/15 08:34	100
Bromochloromethane	ND		250	100	ug/Kg			08/10/15 08:34	100
Bromodichloromethane	ND		100	50	ug/Kg			08/10/15 08:34	100
Bromoform	ND		250	100	ug/Kg			08/10/15 08:34	100
Bromomethane	ND		250	100	ug/Kg			08/10/15 08:34	100
Carbon tetrachloride	ND		250	100	ug/Kg			08/10/15 08:34	100
Chlorobenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
Chloroethane	ND		250	100	ug/Kg			08/10/15 08:34	100
Chloroform	ND		100	50	ug/Kg			08/10/15 08:34	100
Chloromethane	ND		250	100	ug/Kg			08/10/15 08:34	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			08/10/15 08:34	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			08/10/15 08:34	100
Dibromochloromethane	ND		100	50	ug/Kg			08/10/15 08:34	100
Dibromomethane	ND		100	50	ug/Kg			08/10/15 08:34	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			08/10/15 08:34	100
Isopropyl Ether (DIPE)	ND		250	100	ug/Kg			08/10/15 08:34	100
Ethanol	ND		15000	7500	ug/Kg			08/10/15 08:34	100
Ethyl-t-butyl ether (ETBE)	ND		250	100	ug/Kg			08/10/15 08:34	100
Ethylbenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
2-Chloroethyl vinyl ether	ND		500	250	ug/Kg			08/10/15 08:34	100
Hexachlorobutadiene	ND		250	100	ug/Kg			08/10/15 08:34	100
Isopropylbenzene	ND		100	50	ug/Kg			08/10/15 08:34	100

TestAmerica Irvine

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-272102/5
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		200	100	ug/Kg			08/10/15 08:34	100
Methylene Chloride	ND		1000	500	ug/Kg			08/10/15 08:34	100
Methyl-t-Butyl Ether (MTBE)	ND		250	100	ug/Kg			08/10/15 08:34	100
Naphthalene	ND		250	100	ug/Kg			08/10/15 08:34	100
n-Butylbenzene	ND		250	100	ug/Kg			08/10/15 08:34	100
N-Propylbenzene	ND		100	50	ug/Kg			08/10/15 08:34	100
o-Xylene	ND		100	50	ug/Kg			08/10/15 08:34	100
sec-Butylbenzene	ND		250	50	ug/Kg			08/10/15 08:34	100
Styrene	ND		100	50	ug/Kg			08/10/15 08:34	100
Tert-amyl-methyl ether (TAME)	ND		250	100	ug/Kg			08/10/15 08:34	100
tert-Butyl alcohol (TBA)	ND		5000	2500	ug/Kg			08/10/15 08:34	100
tert-Butylbenzene	ND		250	100	ug/Kg			08/10/15 08:34	100
Tetrachloroethene	ND		100	50	ug/Kg			08/10/15 08:34	100
Toluene	ND		100	50	ug/Kg			08/10/15 08:34	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			08/10/15 08:34	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			08/10/15 08:34	100
Trichloroethene	ND		100	50	ug/Kg			08/10/15 08:34	100
Trichlorofluoromethane	ND		250	100	ug/Kg			08/10/15 08:34	100
Vinyl chloride	ND		250	100	ug/Kg			08/10/15 08:34	100
Xylenes, Total	ND		200	100	ug/Kg			08/10/15 08:34	100
p-Isopropyltoluene	ND		100	50	ug/Kg			08/10/15 08:34	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*60 - 140*		*08/10/15 08:34*	*100*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*		*08/10/15 08:34*	*100*
Dibromofluoromethane (Surr)	*113*		*55 - 140*		*08/10/15 08:34*	*100*

Lab Sample ID: LCS 440-272102/6
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2720		ug/Kg		109	70 - 140
1,1,1-Trichloroethane	2500	2510		ug/Kg		100	65 - 140
1,1,2,2-Tetrachloroethane	2500	2580		ug/Kg		103	55 - 135
1,1,2-Trichloroethane	2500	2940		ug/Kg		118	65 - 130
1,1-Dichloroethane	2500	2610		ug/Kg		104	65 - 130
1,1-Dichloroethene	2500	2470		ug/Kg		99	75 - 140
1,1-Dichloropropene	2500	2550		ug/Kg		102	70 - 130
1,2,3-Trichlorobenzene	2500	2910		ug/Kg		117	60 - 135
1,2,3-Trichloropropane	2500	2580		ug/Kg		103	55 - 130
1,2,4-Trichlorobenzene	2500	3000		ug/Kg		120	65 - 135
1,2,4-Trimethylbenzene	2500	2690		ug/Kg		107	70 - 125
1,2-Dibromo-3-Chloropropane	2500	2380		ug/Kg		95	45 - 135
1,2-Dibromoethane (EDB)	2500	2860		ug/Kg		114	70 - 130
1,2-Dichlorobenzene	2500	2690		ug/Kg		108	70 - 120
1,2-Dichloroethane	2500	2700		ug/Kg		108	60 - 145
1,2-Dichloropropane	2500	3010		ug/Kg		120	75 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-272102/6
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	2500	2550		ug/Kg		102	70 - 125
1,3-Dichlorobenzene	2500	2570		ug/Kg		103	70 - 125
1,3-Dichloropropane	2500	2850		ug/Kg		114	65 - 130
1,4-Dichlorobenzene	2500	2690		ug/Kg		108	70 - 125
2,2-Dichloropropane	2500	2590		ug/Kg		104	60 - 145
2-Chlorotoluene	2500	2560		ug/Kg		102	70 - 125
4-Chlorotoluene	2500	2670		ug/Kg		107	70 - 125
Benzene	2500	2690		ug/Kg		108	65 - 120
Bromobenzene	2500	2670		ug/Kg		107	70 - 120
Bromochloromethane	2500	2790		ug/Kg		112	65 - 125
Bromodichloromethane	2500	2820		ug/Kg		113	65 - 135
Bromoform	2500	2680		ug/Kg		107	50 - 130
Bromomethane	2500	2070		ug/Kg		83	30 - 140
Carbon tetrachloride	2500	2440		ug/Kg		98	65 - 145
Chlorobenzene	2500	2760		ug/Kg		110	70 - 125
Chloroethane	2500	2170		ug/Kg		87	40 - 140
Chloroform	2500	2750		ug/Kg		110	75 - 130
Chloromethane	2500	1710		ug/Kg		69	30 - 140
cis-1,2-Dichloroethene	2500	2640		ug/Kg		106	65 - 130
cis-1,3-Dichloropropene	2500	2920		ug/Kg		117	70 - 130
Dibromochloromethane	2500	2760		ug/Kg		111	65 - 140
Dibromomethane	2500	2750		ug/Kg		110	65 - 130
Dichlorodifluoromethane	2500	921		ug/Kg		37	10 - 155
Isopropyl Ether (DIPE)	2500	3100		ug/Kg		124	60 - 140
Ethanol	125000	152000		ug/Kg		121	35 - 160
Ethyl-t-butyl ether (ETBE)	2500	3160		ug/Kg		126	60 - 140
Ethylbenzene	2500	2660		ug/Kg		106	80 - 120
2-Chloroethyl vinyl ether	2500	2930		ug/Kg		117	25 - 170
Hexachlorobutadiene	2500	2520		ug/Kg		101	60 - 135
Isopropylbenzene	2500	2710		ug/Kg		108	70 - 125
m,p-Xylene	2500	2780		ug/Kg		111	70 - 125
Methylene Chloride	2500	2750		ug/Kg		110	60 - 140
Methyl-t-Butyl Ether (MTBE)	2500	3050		ug/Kg		122	55 - 145
Naphthalene	2500	2820		ug/Kg		113	50 - 140
n-Butylbenzene	2500	2600		ug/Kg		104	70 - 130
N-Propylbenzene	2500	2540		ug/Kg		102	70 - 130
o-Xylene	2500	2740		ug/Kg		110	70 - 125
sec-Butylbenzene	2500	2430		ug/Kg		97	70 - 125
Styrene	2500	2940		ug/Kg		117	70 - 135
Tert-amyl-methyl ether (TAME)	2500	3080		ug/Kg		123	60 - 145
tert-Butyl alcohol (TBA)	25000	23600		ug/Kg		94	65 - 140
tert-Butylbenzene	2500	2470		ug/Kg		99	70 - 125
Tetrachloroethene	2500	2480		ug/Kg		99	65 - 125
Toluene	2500	2660		ug/Kg		106	80 - 120
trans-1,2-Dichloroethene	2500	2770		ug/Kg		111	65 - 130
trans-1,3-Dichloropropene	2500	2860		ug/Kg		114	65 - 135
Trichloroethene	2500	2700		ug/Kg		108	70 - 130
Trichlorofluoromethane	2500	2040		ug/Kg		82	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-272102/6
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	2500	1460		ug/Kg		58	10 - 120
p-Isopropyltoluene	2500	2580		ug/Kg		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*60 - 140*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*
Dibromofluoromethane (Surr)	*113*		*55 - 140*

Lab Sample ID: LCSD 440-272102/7
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2500	2740		ug/Kg		110	70 - 140	1	20
1,1,1-Trichloroethane	2500	2480		ug/Kg		99	65 - 140	1	20
1,1,2,2-Tetrachloroethane	2500	2550		ug/Kg		102	55 - 135	1	25
1,1,2-Trichloroethane	2500	2950		ug/Kg		118	65 - 130	0	20
1,1-Dichloroethane	2500	2620		ug/Kg		105	65 - 130	0	20
1,1-Dichloroethene	2500	2440		ug/Kg		98	75 - 140	1	20
1,1-Dichloropropene	2500	2540		ug/Kg		101	70 - 130	0	20
1,2,3-Trichlorobenzene	2500	2790		ug/Kg		112	60 - 135	4	20
1,2,3-Trichloropropane	2500	2470		ug/Kg		99	55 - 130	5	25
1,2,4-Trichlorobenzene	2500	2950		ug/Kg		118	65 - 135	2	20
1,2,4-Trimethylbenzene	2500	2670		ug/Kg		107	70 - 125	0	20
1,2-Dibromo-3-Chloropropane	2500	2240		ug/Kg		90	45 - 135	6	25
1,2-Dibromoethane (EDB)	2500	2770		ug/Kg		111	70 - 130	3	20
1,2-Dichlorobenzene	2500	2700		ug/Kg		108	70 - 120	0	20
1,2-Dichloroethane	2500	2750		ug/Kg		110	60 - 145	2	20
1,2-Dichloropropane	2500	3070		ug/Kg		123	75 - 125	2	20
1,3,5-Trimethylbenzene	2500	2550		ug/Kg		102	70 - 125	0	20
1,3-Dichlorobenzene	2500	2620		ug/Kg		105	70 - 125	2	20
1,3-Dichloropropane	2500	2910		ug/Kg		117	65 - 130	2	20
1,4-Dichlorobenzene	2500	2680		ug/Kg		107	70 - 125	0	20
2,2-Dichloropropane	2500	2560		ug/Kg		102	60 - 145	1	25
2-Chlorotoluene	2500	2530		ug/Kg		101	70 - 125	1	20
4-Chlorotoluene	2500	2660		ug/Kg		106	70 - 125	1	20
Benzene	2500	2680		ug/Kg		107	65 - 120	0	20
Bromobenzene	2500	2700		ug/Kg		108	70 - 120	1	20
Bromochloromethane	2500	2810		ug/Kg		113	65 - 125	1	20
Bromodichloromethane	2500	2930		ug/Kg		117	65 - 135	4	20
Bromoform	2500	2650		ug/Kg		106	50 - 130	1	25
Bromomethane	2500	2040		ug/Kg		81	30 - 140	2	30
Carbon tetrachloride	2500	2450		ug/Kg		98	65 - 145	0	20
Chlorobenzene	2500	2760		ug/Kg		110	70 - 125	0	20
Chloroethane	2500	2120		ug/Kg		85	40 - 140	3	25
Chloroform	2500	2810		ug/Kg		112	75 - 130	2	20
Chloromethane	2500	1650		ug/Kg		66	30 - 140	4	25
cis-1,2-Dichloroethene	2500	2690		ug/Kg		108	65 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-272102/7
Matrix: Solid
Analysis Batch: 272102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	2500	2960		ug/Kg		118	70 - 130	1	20
Dibromochloromethane	2500	2810		ug/Kg		113	65 - 140	2	20
Dibromomethane	2500	2760		ug/Kg		110	65 - 130	0	20
Dichlorodifluoromethane	2500	886		ug/Kg		35	10 - 155	4	30
Isopropyl Ether (DIPE)	2500	3180		ug/Kg		127	60 - 140	3	20
Ethanol	125000	144000		ug/Kg		115	35 - 160	5	30
Ethyl-t-butyl ether (ETBE)	2500	3220		ug/Kg		129	60 - 140	2	20
Ethylbenzene	2500	2680		ug/Kg		107	80 - 120	1	20
2-Chloroethyl vinyl ether	2500	2870		ug/Kg		115	25 - 170	2	30
Hexachlorobutadiene	2500	2460		ug/Kg		98	60 - 135	2	20
Isopropylbenzene	2500	2710		ug/Kg		108	70 - 125	0	20
m,p-Xylene	2500	2830		ug/Kg		113	70 - 125	2	20
Methylene Chloride	2500	2810		ug/Kg		112	60 - 140	2	20
Methyl-t-Butyl Ether (MTBE)	2500	3040		ug/Kg		122	55 - 145	0	25
Naphthalene	2500	2650		ug/Kg		106	50 - 140	6	25
n-Butylbenzene	2500	2570		ug/Kg		103	70 - 130	1	20
N-Propylbenzene	2500	2540		ug/Kg		101	70 - 130	0	20
o-Xylene	2500	2750		ug/Kg		110	70 - 125	0	20
sec-Butylbenzene	2500	2410		ug/Kg		96	70 - 125	1	20
Styrene	2500	2940		ug/Kg		118	70 - 135	0	20
Tert-amyl-methyl ether (TAME)	2500	3130		ug/Kg		125	60 - 145	2	25
tert-Butyl alcohol (TBA)	25000	23700		ug/Kg		95	65 - 140	0	20
tert-Butylbenzene	2500	2480		ug/Kg		99	70 - 125	0	20
Tetrachloroethene	2500	2510		ug/Kg		100	65 - 125	1	20
Toluene	2500	2650		ug/Kg		106	80 - 120	0	20
trans-1,2-Dichloroethene	2500	2810		ug/Kg		112	65 - 130	1	20
trans-1,3-Dichloropropene	2500	2880		ug/Kg		115	65 - 135	1	20
Trichloroethene	2500	2700		ug/Kg		108	70 - 130	0	20
Trichlorofluoromethane	2500	1980		ug/Kg		79	50 - 145	3	25
Vinyl chloride	2500	1370		ug/Kg		55	10 - 120	6	30
p-Isopropyltoluene	2500	2530		ug/Kg		101	70 - 125	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*60 - 140*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*
Dibromofluoromethane (Surr)	*114*		*55 - 140*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-271520/1-A
Matrix: Solid
Analysis Batch: 271807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1

1 2 3 4 5 6 7 8 9 10 11 12 13

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-271520/1-A
Matrix: Solid
Analysis Batch: 271807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,4-Dinitrophenol	ND		0.66	0.33	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2,6-Dinitrotoluene	ND		0.33	0.095	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4,6-Dinitro-2-methylphenol	ND		0.42	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4-Chlorophenyl phenyl ether	ND		0.33	0.085	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
4-Nitrophenol	ND		0.83	0.14	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Acenaphthene	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Aniline	ND		0.42	0.085	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Anthracene	ND		0.33	0.080	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzidine	ND		1.3	0.66	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzoic acid	ND		0.83	0.34	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.090	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Chrysene	ND		0.33	0.075	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Dibenz(a,h)anthracene	ND		0.42	0.10	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Diethyl phthalate	ND		0.33	0.095	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Di-n-butyl phthalate	ND		0.33	0.090	mg/Kg		08/06/15 13:20	08/07/15 13:06	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-271520/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 271807
Prep Batch: 271520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		0.33	0.090	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Fluoranthene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Fluorene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Isophorone	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Naphthalene	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Pentachlorophenol	ND		0.83	0.34	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Phenanthrene	ND		0.33	0.067	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Phenol	ND		0.33	0.090	mg/Kg		08/06/15 13:20	08/07/15 13:06	1
Pyrene	ND		0.33	0.080	mg/Kg		08/06/15 13:20	08/07/15 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 147*	*08/06/15 13:20*	*08/07/15 13:06*	*1*
2-Fluorobiphenyl	*71*		*42 - 113*	*08/06/15 13:20*	*08/07/15 13:06*	*1*
2-Fluorophenol (Surr)	*78*		*18 - 138*	*08/06/15 13:20*	*08/07/15 13:06*	*1*
Nitrobenzene-d5 (Surr)	*73*		*39 - 104*	*08/06/15 13:20*	*08/07/15 13:06*	*1*
Phenol-d6 (Surr)	*77*		*37 - 125*	*08/06/15 13:20*	*08/07/15 13:06*	*1*
Terphenyl-d14 (Surr)	*69*		*43 - 125*	*08/06/15 13:20*	*08/07/15 13:06*	*1*

Lab Sample ID: LCS 440-271520/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 271807
Prep Batch: 271520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	3.33	2.23		mg/Kg		67	42 - 111
1,2-Dichlorobenzene	3.33	2.30		mg/Kg		69	38 - 110
1,2-Diphenylhydrazine(as Azobenzene)	3.37	2.78		mg/Kg		83	38 - 121
1,3-Dichlorobenzene	3.33	2.21		mg/Kg		66	37 - 106
1,4-Dichlorobenzene	3.33	2.29		mg/Kg		69	37 - 108
2,4,5-Trichlorophenol	3.33	2.73		mg/Kg		82	51 - 125
2,4,6-Trichlorophenol	3.33	2.70		mg/Kg		81	48 - 126
2,4-Dichlorophenol	3.33	2.58		mg/Kg		77	49 - 127
2,4-Dimethylphenol	3.33	2.58		mg/Kg		77	41 - 122
2,4-Dinitrophenol	6.67	4.16		mg/Kg		62	34 - 124
2,4-Dinitrotoluene	3.33	2.61		mg/Kg		78	46 - 126
2,6-Dinitrotoluene	3.33	2.58		mg/Kg		77	48 - 126
2-Chloronaphthalene	3.33	2.60		mg/Kg		78	43 - 120
2-Chlorophenol	3.33	2.65		mg/Kg		79	43 - 125
2-Methylnaphthalene	3.33	2.41		mg/Kg		72	44 - 119
2-Methylphenol	3.33	2.94		mg/Kg		88	42 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-271520/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 271807 **Prep Batch: 271520**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	3.33	2.97		mg/Kg		89	40 - 131
2-Nitrophenol	3.33	2.49		mg/Kg		75	44 - 124
3,3'-Dichlorobenzidine	3.33	2.04		mg/Kg		61	28 - 114
3-Methylphenol + 4-Methylphenol	3.33	2.85		mg/Kg		85	42 - 138
3-Nitroaniline	3.33	2.66		mg/Kg		80	39 - 129
4,6-Dinitro-2-methylphenol	6.67	6.12		mg/Kg		92	38 - 137
4-Bromophenyl phenyl ether	3.33	2.53		mg/Kg		76	52 - 126
4-Chloro-3-methylphenol	3.33	2.59		mg/Kg		78	45 - 128
4-Chloroaniline	3.33	2.25		mg/Kg		67	25 - 130
4-Chlorophenyl phenyl ether	3.33	2.45		mg/Kg		74	46 - 121
4-Nitroaniline	3.33	2.60		mg/Kg		78	40 - 126
4-Nitrophenol	6.67	5.22		mg/Kg		78	35 - 130
Acenaphthene	3.33	2.56		mg/Kg		77	40 - 118
Acenaphthylene	3.33	2.52		mg/Kg		76	47 - 125
Aniline	3.33	2.45		mg/Kg		73	23 - 105
Anthracene	3.33	2.69		mg/Kg		81	51 - 122
Benzidine	3.33	1.39		mg/Kg		42	5 - 61
Benzo[a]anthracene	3.33	2.68		mg/Kg		80	50 - 123
Benzo[a]pyrene	3.33	2.62		mg/Kg		79	52 - 125
Benzo[b]fluoranthene	3.33	2.42		mg/Kg		72	52 - 125
Benzo[g,h,i]perylene	3.33	2.38		mg/Kg		71	38 - 149
Benzo[k]fluoranthene	3.33	2.79		mg/Kg		84	50 - 132
Benzoic acid	3.33	2.07		mg/Kg		62	28 - 120
Benzyl alcohol	3.33	2.22		mg/Kg		67	20 - 133
bis (2-chloroisopropyl) ether	3.33	2.73		mg/Kg		82	25 - 116
Bis(2-chloroethoxy)methane	3.33	2.57		mg/Kg		77	39 - 119
Bis(2-chloroethyl)ether	3.33	2.61		mg/Kg		78	32 - 114
Bis(2-ethylhexyl) phthalate	3.33	2.76		mg/Kg		83	49 - 127
Butyl benzyl phthalate	3.33	2.84		mg/Kg		85	48 - 130
Chrysene	3.33	2.67		mg/Kg		80	51 - 127
Dibenz(a,h)anthracene	3.33	2.74		mg/Kg		82	45 - 136
Dibenzofuran	3.33	2.53		mg/Kg		76	47 - 120
Diethyl phthalate	3.33	2.43		mg/Kg		73	46 - 122
Dimethyl phthalate	3.33	2.56		mg/Kg		77	48 - 122
Di-n-butyl phthalate	3.33	2.62		mg/Kg		79	43 - 128
Di-n-octyl phthalate	3.33	2.79		mg/Kg		84	47 - 133
Fluoranthene	3.33	2.45		mg/Kg		74	44 - 123
Fluorene	3.33	2.65		mg/Kg		80	48 - 123
Hexachlorobenzene	3.33	2.51		mg/Kg		75	52 - 125
Hexachlorobutadiene	3.33	2.17		mg/Kg		65	40 - 114
Hexachlorocyclopentadiene	3.33	1.40		mg/Kg		42	17 - 119
Hexachloroethane	3.33	2.37		mg/Kg		71	34 - 107
Indeno[1,2,3-cd]pyrene	3.33	2.58		mg/Kg		77	46 - 148
Isophorone	3.33	2.63		mg/Kg		79	38 - 119
Naphthalene	3.33	2.47		mg/Kg		74	42 - 115
Nitrobenzene	3.33	2.61		mg/Kg		78	38 - 116
N-Nitrosodi-n-propylamine	3.33	2.88		mg/Kg		86	31 - 124
N-Nitrosodiphenylamine	5.42	4.68		mg/Kg		86	48 - 130

1 2 3 4 5 6 7 8 9 10 11 12 13

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-271520/2-A
Matrix: Solid
Analysis Batch: 271807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	6.67	4.83		mg/Kg		72	40 - 121
Phenanthrene	3.33	2.65		mg/Kg		79	51 - 122
Phenol	3.33	2.64		mg/Kg		79	42 - 133
Pyrene	3.33	2.92		mg/Kg		87	54 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 147*
2-Fluorobiphenyl	*75*		*42 - 113*
2-Fluorophenol (Surr)	*83*		*18 - 138*
Nitrobenzene-d5 (Surr)	*75*		*39 - 104*
Phenol-d6 (Surr)	*85*		*37 - 125*
Terphenyl-d14 (Surr)	*76*		*43 - 125*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-271977/1-A
Matrix: Solid
Analysis Batch: 272169

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 271977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C22	ND		5.0	2.5	mg/Kg		08/08/15 09:21	08/10/15 09:58	1
C18-C40	ND		5.0	2.5	mg/Kg		08/08/15 09:21	08/10/15 09:58	1
C10-C28	ND		5.0	2.5	mg/Kg		08/08/15 09:21	08/10/15 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*08/08/15 09:21*	*08/10/15 09:58*	*1*

Lab Sample ID: LCS 440-271977/2-A
Matrix: Solid
Analysis Batch: 272169

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 271977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.7	48.4		mg/Kg		73	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*71*		*40 - 140*

Lab Sample ID: 440-117185-21 MS
Matrix: Solid
Analysis Batch: 272170

Client Sample ID: LD40076
Prep Type: Silica Gel Cleanup
Prep Batch: 271977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1400	F1 F2	549	2180	F1	mg/Kg	☼	133	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*82*		*40 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-117185-21 MSD
Matrix: Solid
Analysis Batch: 272170

Client Sample ID: LD40076
Prep Type: Silica Gel Cleanup
Prep Batch: 271977

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1400	F1 F2	660	853	F1 F2	mg/Kg	☼	-90	40 - 120	87	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*53*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-271561/1-A
Matrix: Solid
Analysis Batch: 271851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Aldrin	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
alpha-BHC	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
beta-BHC	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Chlordane (technical)	ND		50	10	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
delta-BHC	ND		10	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Dieldrin	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Endosulfan I	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Endosulfan II	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Endrin	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Endrin ketone	ND		5.0	2.0	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Heptachlor	ND		5.0	2.0	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Methoxychlor	ND		5.0	1.5	ug/Kg		08/06/15 15:45	08/07/15 17:43	1
Toxaphene	ND		200	50	ug/Kg		08/06/15 15:45	08/07/15 17:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*35 - 115*	*08/06/15 15:45*	*08/07/15 17:43*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*08/06/15 15:45*	*08/07/15 17:43*	*1*

Lab Sample ID: LCS 440-271561/2-A
Matrix: Solid
Analysis Batch: 271851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	11.3		ug/Kg		85	60 - 120
4,4'-DDE	13.3	11.3		ug/Kg		85	60 - 120
4,4'-DDT	13.3	13.0		ug/Kg		97	65 - 120
Aldrin	13.3	9.99		ug/Kg		75	50 - 115
alpha-BHC	13.3	9.74		ug/Kg		73	60 - 115

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-271561/2-A
Matrix: Solid
Analysis Batch: 271851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	13.3	9.59		ug/Kg		72	60 - 115
delta-BHC	13.3	9.63	J	ug/Kg		72	60 - 115
Dieldrin	13.3	10.9		ug/Kg		81	65 - 115
Endosulfan I	13.3	11.2		ug/Kg		84	40 - 120
Endosulfan II	13.3	11.3		ug/Kg		85	55 - 120
Endosulfan sulfate	13.3	9.98	J	ug/Kg		75	65 - 115
Endrin	13.3	10.9		ug/Kg		82	55 - 120
Endrin aldehyde	13.3	9.33		ug/Kg		70	55 - 115
Endrin ketone	13.3	10.9		ug/Kg		82	65 - 115
gamma-BHC (Lindane)	13.3	9.94		ug/Kg		75	55 - 115
Heptachlor	13.3	10.9		ug/Kg		82	55 - 115
Heptachlor epoxide	13.3	10.9		ug/Kg		82	55 - 115
Methoxychlor	13.3	12.8		ug/Kg		96	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-271587/1-A
Matrix: Solid
Analysis Batch: 271554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1
Aroclor 1221	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1
Aroclor 1232	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1
Aroclor 1242	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1
Aroclor 1248	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1
Aroclor 1254	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1
Aroclor 1260	ND		50	17	ug/Kg		08/06/15 16:54	08/08/15 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*08/06/15 16:54*	*08/08/15 14:09*	*1*

Lab Sample ID: LCS 440-271587/2-A
Matrix: Solid
Analysis Batch: 271554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	272		ug/Kg		102	65 - 115
Aroclor 1260	267	235		ug/Kg		88	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

QC Sample Results

Client: City of San Jose Water Pollution Control TestAmerica Job ID: 440-117185-1
Project/Site: Plant Operations

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-117185-16 MS **Client Sample ID: LD40071**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 271554 **Prep Batch: 271587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		2830	2290		ug/Kg	☼	81	50 - 120
Aroclor 1260	ND		2830	2240		ug/Kg	☼	79	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*

Lab Sample ID: 440-117185-16 MSD **Client Sample ID: LD40071**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 271554 **Prep Batch: 271587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		2790	2230		ug/Kg	☼	80	50 - 120	3	30
Aroclor 1260	ND		2790	2210		ug/Kg	☼	79	50 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-271707/1-A ^5 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 271891 **Prep Batch: 271707**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	4.9	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Arsenic	ND		2.9	1.5	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Barium	ND		1.5	0.74	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Beryllium	ND		0.49	0.25	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Cadmium	ND		0.49	0.25	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Chromium	ND		0.98	0.49	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Cobalt	ND		0.98	0.49	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Copper	ND		2.0	0.98	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Lead	ND		2.0	0.98	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Molybdenum	ND		2.0	0.98	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Nickel	ND		2.0	0.98	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Selenium	ND		2.9	1.5	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Thallium	ND		9.8	4.9	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Vanadium	ND		0.98	0.49	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Zinc	ND		4.9	2.5	mg/Kg		08/07/15 07:37	08/07/15 15:56	5
Silver	ND		1.5	0.74	mg/Kg		08/07/15 07:37	08/07/15 15:56	5

Lab Sample ID: LCS 440-271707/2-A ^5 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 271891 **Prep Batch: 271707**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	50.9		mg/Kg		102	80 - 120

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-271707/2-A ^5
Matrix: Solid
Analysis Batch: 271891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	48.2		mg/Kg		97	80 - 120
Barium	49.8	48.6		mg/Kg		98	80 - 120
Beryllium	49.8	46.8		mg/Kg		94	80 - 120
Cadmium	49.8	46.1		mg/Kg		93	80 - 120
Chromium	49.8	47.2		mg/Kg		95	80 - 120
Cobalt	49.8	48.3		mg/Kg		97	80 - 120
Copper	49.8	48.3		mg/Kg		97	80 - 120
Lead	49.8	47.5		mg/Kg		96	80 - 120
Molybdenum	49.8	48.5		mg/Kg		97	80 - 120
Nickel	49.8	49.0		mg/Kg		98	80 - 120
Selenium	49.8	42.2		mg/Kg		85	80 - 120
Thallium	49.8	45.9		mg/Kg		92	80 - 120
Zinc	49.8	44.8		mg/Kg		90	80 - 120
Silver	24.9	23.5		mg/Kg		95	80 - 120

Lab Sample ID: 440-116597-A-1-G MS ^5
Matrix: Solid
Analysis Batch: 271891

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 271707

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	49.8	30.0	F1	mg/Kg		60	75 - 125
Arsenic	5.2		49.8	49.5		mg/Kg		89	75 - 125
Barium	130		49.8	176		mg/Kg		101	75 - 125
Beryllium	0.49		49.8	43.7		mg/Kg		87	75 - 125
Cadmium	ND		49.8	40.6		mg/Kg		82	75 - 125
Chromium	12		49.8	57.5		mg/Kg		92	75 - 125
Cobalt	5.1		49.8	46.8		mg/Kg		84	75 - 125
Copper	15	^	49.8	62.8		mg/Kg		95	75 - 125
Lead	14		49.8	54.8		mg/Kg		82	75 - 125
Molybdenum	ND		49.8	41.8		mg/Kg		84	75 - 125
Nickel	10		49.8	54.5		mg/Kg		89	75 - 125
Selenium	ND		49.8	39.3		mg/Kg		79	75 - 125
Thallium	ND		49.8	39.8		mg/Kg		80	75 - 125
Zinc	65		49.8	115		mg/Kg		100	75 - 125
Silver	ND		24.9	22.5		mg/Kg		90	75 - 125

Lab Sample ID: 440-116597-A-1-H MSD ^5
Matrix: Solid
Analysis Batch: 271891

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 271707

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	49.5	29.5	F1	mg/Kg		60	75 - 125	1	20
Arsenic	5.2		49.5	49.4		mg/Kg		89	75 - 125	0	20
Barium	130		49.5	179		mg/Kg		108	75 - 125	2	20
Beryllium	0.49		49.5	45.2		mg/Kg		90	75 - 125	3	20
Cadmium	ND		49.5	42.2		mg/Kg		85	75 - 125	4	20
Chromium	12		49.5	58.6		mg/Kg		95	75 - 125	2	20
Cobalt	5.1		49.5	47.9		mg/Kg		87	75 - 125	2	20
Copper	15	^	49.5	64.8		mg/Kg		100	75 - 125	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-116597-A-1-H MSD ^5
Matrix: Solid
Analysis Batch: 271891
Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 271707

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	14		49.5	58.2		mg/Kg		90	75 - 125	6	20
Molybdenum	ND		49.5	42.9		mg/Kg		87	75 - 125	3	20
Nickel	10		49.5	55.9		mg/Kg		92	75 - 125	3	20
Selenium	ND		49.5	42.0		mg/Kg		85	75 - 125	7	20
Thallium	ND		49.5	41.3		mg/Kg		83	75 - 125	4	20
Zinc	65		49.5	104		mg/Kg		79	75 - 125	10	20
Silver	ND		24.8	23.4		mg/Kg		95	75 - 125	4	20

Lab Sample ID: MB 440-272839/1-A ^20
Matrix: Solid
Analysis Batch: 273498
Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10	0.040	mg/L			08/15/15 15:44	20
Copper	ND		0.20	0.060	mg/L			08/15/15 15:44	20

Lab Sample ID: LCS 440-272839/2-A ^20
Matrix: Solid
Analysis Batch: 273498
Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.2		mg/L		96	80 - 120
Copper	20.0	20.6		mg/L		103	80 - 120

Lab Sample ID: 440-116876-B-5-E MS ^20
Matrix: Solid
Analysis Batch: 273498
Client Sample ID: Matrix Spike
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.6		20.0	22.0		mg/L		102	75 - 125
Copper	ND		20.0	20.7		mg/L		104	75 - 125

Lab Sample ID: 440-116876-B-5-E MSD ^20
Matrix: Solid
Analysis Batch: 273498
Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.6		20.0	21.1		mg/L		97	75 - 125	4	20
Copper	ND		20.0	20.8		mg/L		104	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-271453/1-A
Matrix: Solid
Analysis Batch: 271579
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		08/06/15 09:42	08/06/15 16:02	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 440-271453/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271579 — **Prep Batch: 271453**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.800	0.818		mg/Kg		102	80 - 120		

Lab Sample ID: 440-117114-G-1-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271579 — **Prep Batch: 271453**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.018	J	0.942	0.866		mg/Kg	☼	90	70 - 130		

Lab Sample ID: 440-117114-G-1-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271579 — **Prep Batch: 271453**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.018	J	0.942	0.842		mg/Kg	☼	88	70 - 130	3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 440-271623/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271659 — **Prep Batch: 271623**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.020	0.017	mg/Kg		08/06/15 18:53	08/06/15 21:20	1

Lab Sample ID: LCS 440-271623/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271659 — **Prep Batch: 271623**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.200	0.210		mg/Kg		105	90 - 110		

Lab Sample ID: 440-117185-20 MS — **Client Sample ID: LD40075**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271659 — **Prep Batch: 271623**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND	F1 F2	0.441	0.221	F1	mg/Kg	☼	50	70 - 115		

Lab Sample ID: 440-117185-20 MSD — **Client Sample ID: LD40075**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 271659 — **Prep Batch: 271623**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND	F1 F2	0.441	0.0890	F1 F2	mg/Kg	☼	20	70 - 115	85	15

Method: 9095A - Paint Filter

Lab Sample ID: 440-117281-A-1 DU
Matrix: Solid
Analysis Batch: 272364

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Free Liquid	ND			ND		mL/100g				NC	20

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 440-271838/1
Matrix: Solid
Analysis Batch: 271838

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	ND		0.050	0.050	%			08/07/15 14:41	1

Lab Sample ID: 440-117346-A-1 DU
Matrix: Solid
Analysis Batch: 271838

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Solids	25			25.7		%				3	10

GC/MS VOA

Analysis Batch: 272102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-14	LD40069	Total/NA	Solid	8260B	272134
LCS 440-272102/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-272102/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 440-272102/5	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 272134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-14	LD40069	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 271520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-15	LD40070	Total/NA	Solid	3546	
LCS 440-271520/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-271520/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 271807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-271520/2-A	Lab Control Sample	Total/NA	Solid	8270C	271520
MB 440-271520/1-A	Method Blank	Total/NA	Solid	8270C	271520

Analysis Batch: 272209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-15	LD40070	Total/NA	Solid	8270C	271520

GC Semi VOA

Analysis Batch: 271554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-16	LD40071	Total/NA	Solid	8082	271587
440-117185-16 MS	LD40071	Total/NA	Solid	8082	271587
440-117185-16 MSD	LD40071	Total/NA	Solid	8082	271587
LCS 440-271587/2-A	Lab Control Sample	Total/NA	Solid	8082	271587
MB 440-271587/1-A	Method Blank	Total/NA	Solid	8082	271587

Prep Batch: 271561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-17	LD40072	Total/NA	Solid	3546	
LCS 440-271561/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-271561/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 271587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-16	LD40071	Total/NA	Solid	3546	
440-117185-16 MS	LD40071	Total/NA	Solid	3546	
440-117185-16 MSD	LD40071	Total/NA	Solid	3546	
LCS 440-271587/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-271587/1-A	Method Blank	Total/NA	Solid	3546	

1 2 3 4 5 6 7 8 9 10 11 12 13

GC Semi VOA (Continued)

Analysis Batch: 271851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-17	LD40072	Total/NA	Solid	8081A	271561
LCS 440-271561/2-A	Lab Control Sample	Total/NA	Solid	8081A	271561
MB 440-271561/1-A	Method Blank	Total/NA	Solid	8081A	271561

Prep Batch: 271977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-21	LD40076	Silica Gel Cleanup	Solid	3546	
440-117185-21 MS	LD40076	Silica Gel Cleanup	Solid	3546	
440-117185-21 MSD	LD40076	Silica Gel Cleanup	Solid	3546	
LCS 440-271977/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 440-271977/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 272169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-271977/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	271977
MB 440-271977/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	271977

Analysis Batch: 272170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-21	LD40076	Silica Gel Cleanup	Solid	8015B	271977
440-117185-21 MS	LD40076	Silica Gel Cleanup	Solid	8015B	271977
440-117185-21 MSD	LD40076	Silica Gel Cleanup	Solid	8015B	271977

Metals

Prep Batch: 271453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117114-G-1-H MS	Matrix Spike	Total/NA	Solid	7471A	
440-117114-G-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
440-117185-19	LD40074	Total/NA	Solid	7471A	
LCS 440-271453/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-271453/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 271579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117114-G-1-H MS	Matrix Spike	Total/NA	Solid	7471A	271453
440-117114-G-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	271453
440-117185-19	LD40074	Total/NA	Solid	7471A	271453
LCS 440-271453/2-A	Lab Control Sample	Total/NA	Solid	7471A	271453
MB 440-271453/1-A	Method Blank	Total/NA	Solid	7471A	271453

Prep Batch: 271707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116597-A-1-G MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-116597-A-1-H MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-117185-19	LD40074	Total/NA	Solid	3050B	
LCS 440-271707/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-271707/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 271891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116597-A-1-G MS ^5	Matrix Spike	Total/NA	Solid	6010B	271707
440-116597-A-1-H MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	271707
440-117185-19	LD40074	Total/NA	Solid	6010B	271707
LCS 440-271707/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	271707
MB 440-271707/1-A ^5	Method Blank	Total/NA	Solid	6010B	271707

Leach Batch: 272839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116876-B-5-E MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
440-116876-B-5-E MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	
440-117185-19	LD40074	STLC Citrate	Solid	CA WET Citrate	
LCS 440-272839/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
MB 440-272839/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 273498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116876-B-5-E MS ^20	Matrix Spike	STLC Citrate	Solid	6010B	272839
440-116876-B-5-E MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	272839
440-117185-19	LD40074	STLC Citrate	Solid	6010B	272839
LCS 440-272839/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	272839
MB 440-272839/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	272839

General Chemistry

Prep Batch: 271623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-20	LD40075	Total/NA	Solid	9010B	
440-117185-20 MS	LD40075	Total/NA	Solid	9010B	
440-117185-20 MSD	LD40075	Total/NA	Solid	9010B	
LCS 440-271623/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 440-271623/1-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 271649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-14	LD40069	Total/NA	Solid	Moisture	
440-117185-15	LD40070	Total/NA	Solid	Moisture	
440-117185-16	LD40071	Total/NA	Solid	Moisture	
440-117185-17	LD40072	Total/NA	Solid	Moisture	
440-117185-18	LD40073	Total/NA	Solid	Moisture	
440-117185-19	LD40074	Total/NA	Solid	Moisture	
440-117185-20	LD40075	Total/NA	Solid	Moisture	
440-117185-21	LD40076	Total/NA	Solid	Moisture	
440-117185-22	LD40077	Total/NA	Solid	Moisture	
440-117252-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 271659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-20	LD40075	Total/NA	Solid	9014	271623
440-117185-20 MS	LD40075	Total/NA	Solid	9014	271623
440-117185-20 MSD	LD40075	Total/NA	Solid	9014	271623

General Chemistry (Continued)

Analysis Batch: 271659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-271623/2-A	Lab Control Sample	Total/NA	Solid	9014	271623
MB 440-271623/1-A	Method Blank	Total/NA	Solid	9014	271623

Analysis Batch: 271838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-18	LD40073	Total/NA	Solid	SM 2540G	
440-117281-A-1 MS	Matrix Spike	Total/NA	Solid	SM 2540G	
440-117281-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	SM 2540G	
440-117346-A-1 DU	Duplicate	Total/NA	Solid	SM 2540G	
MB 440-271838/1	Method Blank	Total/NA	Solid	SM 2540G	

Analysis Batch: 272364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-117185-22	LD40077	Total/NA	Solid	9095A	
440-117281-A-1 DU	Duplicate	Total/NA	Solid	9095A	

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-117185-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Watershed Protection Division
Environmental Services Department

440-117185 Chain of Custody

Login Batch: 2015-08-04-017

CHAIN OF CUSTODY

Lab Supervisor / Designee

Date Request Printed: **8/4/2015 11:18:34AM**	Send Report To: **Rey Honrada**
Project ID / Sample Source: **PLANT OPERATIONS**	
Sample Collector: **BFRUEH**	Turn-around-Time: **15 calendar days**

Date & Time Collected	Sample ID	Client Sample ID	Containers	Analysis		Matrix	Preservation
8/4/2015 10:30:00AM	**LD40069**	Biosolids Comp-Volatiles	1 125 ml Glass	Volatile Organics	EPA 8260B	Sludge	6 C
8/4/2015 10:30:00AM	**LD40070**	Biosolids Comp-Semi-vol. incl. PAH	1 125 ml Glass	Semivolatile Organics	EPA 8270C	Sludge	6 C
8/4/2015 10:30:00AM	**LD40071**	Biosolids Comp-PCBs	1 125 ml Glass	PCBs	EPA 8082	Sludge	6 C
8/4/2015 10:30:00AM	**LD40072**	Biosolids Comp-Pesticides	1 125 ml Glass	Pesticides	EPA 8081	Sludge	6 C
8/4/2015 10:30:00AM	**LD40073**	Biosolids Comp-TS & VS	1 125 ml Glass	Solids, Total Drying Dishes	SM2540G	Sludge	6 C
				Solids, Volatile	SM2540G		
8/4/2015 10:30:00AM	**LD40074**	Biosolids Comp-CAM 17 metals	1 125 ml Glass	17 Metals TTLC (2)	EPA 6010B	Sludge	6 C
8/4/2015 10:30:00AM	**LD40075**	Biosolids Comp-Cyanide	1 125 ml Glass	Cyanide, Total in Solids	9012A	Sludge	6 C
8/4/2015 10:30:00AM	**LD40076**	Biosol.Comp-TPH Diesel&MotorOil w/silica gel clean	1 125 ml Glass	Diesel Range Organics (1) Motor Oil	EPA 8015B	Sludge	6 C
8/4/2015 10:30:00AM	**LD40077**	Biosolids Comp-Paint Filter Test (free liquids)	1 125 ml Glass	Free Liquid by Paint Filter	EPA 9095B	Sludge	6 C

Comments: (1) Perform Silica Gel ~~Cleanup for~~ [illegible] ~~[illegible]~~ h analysis for 17 Metals. Run STLC if TTLC ≥ 10x STLC Limit.

Relinquished by: NAdashefski Signature/Date:	Received by: Signature/Date:	Surrendered to Lab: 8/4/2015 10:45:00AM
Released by: Signature/Date: 1345	Received by: Signature/Date: 8-4-15 1345	Expenditure Identifier: 513-WPCP
Released by: 1645 Signature/Date: 8-4-15	Received By: Angel Perez Signature/Date:	Contract Lab: **TestAmerica** 1.7°C 3.4c / 4.3c IR-75

Fed-Ex#: 6425 6882 1530

8/24/2015

Sample Handling Instructions and Details

1. Twenty (20) individual Biosolids samples will be relinquished to your lab. Please composite these samples by equal weights into one (1) single sample to be analyzed for each analysis.

2. Silica Gel Cleanup is required for EPA 8015B – TPH/Diesel Motor Oil

3. Nine (9) separate sample ID's will be provided on a separate chain of custody (COC). These sample ID's are to be assigned to the correlating test method/set outlined on the COC.

4. Apply RUSH ANALYSIS for the TTLC Cam 17 Metals analysis. *For any result ≥ 10X the STLC limit, automatically initiate STLC analysis for the analyte in question.* (If necessary, report preliminary TTLC results to us and we can determine if STLC analysis should be run.)

5. Report all pollutant concentrations on a <u>dry weight basis</u> and indicate this on all applicable pages.

6. Data reports are needed within a 7-day turn-around time with exception of Metals analysis for which Rush Analysis is requested.

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Honrada, Rey

From: Honrada, Rey
Sent: Wednesday, July 29, 2015 8:14 AM
To: 'janice.hsu@testamericainc.com'
Cc: Andrade-Bunnell, Jo; Wang, Xia; Mayfield, Ryan
Subject: Biosolids Pickup & Analysis 8/4/15
Attachments: Biosolids Annual Analyte List.xlsx

Good Morning Janice,

Our annual Biosolids project is coming up next week so we need to schedule a courier as well as go over the details of sample analysis.

First, we need a courier scheduled to pickup samples on Tuesday, August 4th. Samples should be ready to go with all paperwork at noon the earliest.

Second, the analyses to be performed are as follows:

Rush Analysis on Metals

- EPA 8270C – Semi-volatile Organics w/ PAH addition
- EPA 8260B – Volatile Organics (Priority Pollutant List)
- EPA 8081A – Organochlorine Pesticides
- EPA 8082 – PCBs
- EPA 6010B/7174A – TTLC Cam 17 Metals (initiate STLC analysis for analytes that are ≥ 10 time STLC limit)
- EPA 8015B – Total Petroleum Hydrocarbons(TPH) – Diesel and Motor Oil
- SM2540G – Total Solids (%)
- SM2540G – Total Volatile Solids
- SM4500CN-E – Cyanide
- EPA 9095B – Paint Filter Liquids Test

There are some details unique to this sample set that needs to be addressed.

1. Twenty (20) individual Biosolids samples will be relinquished to your lab. Please composite these samples by equal weights into one (1) single sample to be analyzed for each analysis.
2. Silica Gel Cleanup is required for EPA 8015B – TPH/Diesel Motor Oil
3. Nine (9) separate sample ID's will be provided on a separate chain of custody. These sample ID's will be highlighted and are to be assigned to the correlating test method/set outlined on the COC.
4. For the TTLC Cam 17 Metals analysis: For any result ≥ 10X the STLC limit, automatically initiate STLC analysis for the analyte in question. (If necessary, report preliminary TTLC results to us and we can determine if STLC analysis should be run.)
5. Report all pollutant concentrations on a dry weight basis. All pages reporting these concentrations need to indicate this fact (see JOB ID:440-87481-1)
6. Data reports are needed within a 7-day turn-around time.

I have attached an excel file with analyte lists for the project. Please review this document and ensure that each analyte is analyzed and accounted for in the final report. I can't stress this enough since previous reports were missing some analytes. Regardless if an analytes does not pass QC, it needs to be put on the report in the sample results section with comments when applicable.

Please let me know if you have questions.

Thank You,

Login Sample Receipt Checklist

Client: City of San Jose Water Pollution Control

Job Number: 440-117185-1

Login Number: 117185
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Samples wre composited per client's request.
Residual Chlorine Checked.	N/A	

Watershed Protection Division
Environmental Services Department

LABORATORY REPORT

California Environmental Laboratory Registration Number 1313

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Analysis: Solids, Volatile
Method: SM2540G
Units: %

Work Request #: 2015-09-24-020
Project: BIOSOLIDS

Sample ID	Source	Customer ID	COMP/ GRAB	Date Collected	Result	Dilution Factor	ML	MDL	Start Date	End Date	Batch#	Qualifier
LD44202	Drying Bed #5		Grab	9/24/15 14:25	20.0	1	1.0	N.A.	9/25/15	9/26/15	95985	
LD44203	Drying Bed #12		Grab	9/24/15 14:45	22.0	1	1.0	N.A.	9/25/15	9/26/15	95985	
LD44204	Drying Bed #20		Grab	9/24/15 14:35	21.0	1	1.0	N.A.	9/25/15	9/26/15	95985	

9/28/15

Laboratory Supervisor/Designee
Date Reported: 9/28/2015

9/30/15

Laboratory QA Officer

MDL = Method Detection Limit as defined in 40 CFR part 13
ML = Minimum Level, the lowest quantifiable concentration in a sample and the concentration of the lowest standard in the calibration curve.

Watershed Protection Division
Environmental Services Department

LABORATORY REPORT

California Environmental Laboratory Registration Number 1313

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Analysis: Solids, Total Drying Dishes
Method: SM2540G
Units: %

Work Request #: 2015-09-24-020
Project: BIOSOLIDS

Sample ID	Source	Customer ID	COMP/ GRAB	Date Collected	Result	Dilution Factor	ML	MDL	Start Date	End Date	Batch#	Qualifier
LD44202	Drying Bed #5		Grab	9/24/15 14:25	83.0	1	1.0	0.1	9/25/15	9/26/15	95984	
LD44203	Drying Bed #12		Grab	9/24/15 14:45	85.0	1	1.0	0.1	9/25/15	9/26/15	95984	
LD44204	Drying Bed #20		Grab	9/24/15 14:35	93.0	1	1.0	0.1	9/25/15	9/26/15	95984	

9/28/15

Laboratory Supervisor/Designee
Date Reported: 9/28/2015

9/30/15

Laboratory QA Officer

MDL = Method Detection Limit as defined in 40 CFR part 13
ML = Minimum Level, the lowest quantifiable concentration in a sample and the concentration of the lowest standard in the calibration curve.

Other Subjects in 2015

Pollutant Anomaly Response

In response to elevated levels of arsenic, cyanide, and silver detected at San José-Santa Clara Regional Waterwater Facility's (Wastewater Facility) influent on June 2, 2015, the Pretreatment Program initiated a guided response outlined in the program's Bypass Prevention, Surveillance Monitoring, and Pollutant Anomaly Response Plan (Response Plan). This plan was developed in accordance with 40 CFR 403.2.

Cyanide and silver were detected at a trigger level of twice the average five-year background concentration, which was an indicator that a slug may have been discharged into the sanitary sewer system. Under the Response Plan, a Tier One response was initiated, which included increased headworks monitoring, loading calculations, and screening and inspections of Industrial Users (IUs). Additional headworks monitoring showed the anomalous results were narrowed to a single event.

IUs were screened based on pollutants of concern and compliance history to prioritize inspections. Loading calculations were also utilized to further prioritize potential contributors. The screening led to the investigation of 96 IUs. Of those, 75 were identified as needing an inspection to verify discharge data, potential spill or slug issues, chemical processes, and waste handling information. The results of the investigation lead to two potential contributors. Surveillance Monitoring will be conducted on those two IUs in 2016.

Surveillance Activities

In 2015, the City performed surveillance monitoring at three permitted IUs: Sanmina Corp Plant I, Silicon Quest International, and Superior Chrome. This monitoring was conducted in accordance with the City's Surveillance Monitoring Work Plan. Anomalies in excess of local discharge limits were identified at all three surveillance monitoring locations, although they could not be attributed to a specific discharger. Surveillance monitoring of Sanmina Corp Plant I, led to the identification of a non-permitted Zero Discharge Categorical IU subject to 40 CFR 433.17(a), Pacific Coast Metal, Inc. Pacific Coast Metal, Inc. has since been permitted. Surveillance monitoring of Superior Chrome will continue in 2016.

Afterhours Inspection Program

The City's Afterhours Inspection Program focuses on significant industrial users (SIUs) operating between the hours of 5:00 p.m. and 7:00 a.m. These inspections check wastewater treatment system discharges and look for bypasses to the sanitary sewer. Sites are selected based on the hours of operation, process related pollutants, and compliance history. The Afterhours Inspection Program works in conjunction with the Surveillance Monitoring and the Industrial User Identification Programs, which monitor wastewater discharges in the sewer mains and locates non-permitted businesses. In 2015, 32 IUs were inspected and 12 samples were collected. Two of the samples collected were in violation of local limits. The program also referred one permitted Zero Discharger to the City of Santa Clara for improper disposal of hazardous waste.

Discharger Identification Program

The Industrial User Identification and Inventory Program, also known as Industrial Surveys, includes several methods for identifying potential IUs. Methods include reviewing new business licenses, conducting internet searches, following-up on information collected during routine inspections and plan checks for new industries, and investigating referrals from other agencies. The program also includes more frequent inspections of de-permitted or closed IUs, improved documentation of IU assessment and inspection activities, additional identification and characterization training for inspection staff, and improved interaction with member agencies and other regulatory agencies. Additionally, the City has continued to update guidance documents and SOPs for the Industrial User Identification and Inventory Program.

In 2015, 47 potential IUs were identified and investigated. Of the 47 IUs investigated, one is still pending final evaluation, two were permitted, and 44 did not require a permit. Of the 44 that did not require a permit, eight were issued "No Permit Required" letters and 36 were notified in person. Additionally, three of those that did not require a permit were placed on a re-inspection schedule and one was out of business. Finally, one IU identified in 2014 is still undergoing a multi-agency investigation.

Table 1: Total IUs Investigated and Current Status.

Category	1st Quarter 2015	2nd Quarter 2015	3rd Quarter 2015	4th Quarter 2015	Annual Total
No Permit Required	18	6	14	6	44
Permitted	1	0	1	0	2
Under Investigation	0	0	1	0	1
Total Investigated	19	6	16	6	47

Additionally, during 2015, 18 new dental facility permit applications were mailed out. Of those 18 permit applications mailed out, a total of 10 were completed and returned.

Partnerships

Pretreatment staff played an instrumental role in arranging several partnerships between Industrial Users in 2015. Additionally, staff have participated in regional collaborative efforts with other public agencies. These collaborative efforts ultimately resulted in improved protection for the environment. Brief descriptions are provided below:

- Source Control staff arranged a meeting between JDS Uniphase and Silicon Quest International. Environmental Health and Safety staff from JDS Uniphase provided a tour of their wastewater treatment system to representatives from Silicon Quest International. JDS Uniphase provided information helping Silicon Quest International select and install an advanced alarm system, which uses telecommunications for notifying employees of wastewater treatment system problems.

- Source Control staff arranged a meeting between Quantum Labs and M-Pulse Microwave regarding upgrades to the acid waste neutralization system at Quantum Labs.

- The City's Pretreatment Program is working with Bay Area Clean Water Agencies (BACWA) Pretreatment regional agencies to develop regional Best Management Practices (BMPs) for mobile washers of exterior surfaces.

- Pretreatment staff helped the County of Santa Clara District Attorney's Office with two regional investigations related to mobile and restoration businesses. Pretreatment staff regularly attend and participate in the Santa Clara County District Attorney's Office Environmental Crimes Unit Task Force meetings.

Inspector Training

In 2015, Pretreatment staff attended the following training programs and or conferences:

- Bloodborne Pathogens, January 20
- Gas Meter Operation, January 21
- Regulatory Complaint Sewage Release Management, January 27
- California Water Environment Association (CWEA) Pretreatment, Pollution Prevention and Stormwater (P3S) Annual Conference, Napa, California, February 3
- Hazardous Waste Handling and Transportation, March 2
- Sample Preservation Training, March 11
- Confined Space Operations Training, March 17
- California Hazardous Materials Investigators Association (CHIMA) Annual Conference, April 15 – 17
- FEMA IS-100, 200, 700, and NIMS Trainings, various times
- Workplace Safety Training, May 6
- First Aid, May 11
- Standard Emergency Management System (SEMS), May 19
- Effective Accident Investigation, May 26
- Hazardous Waste Operations and Emergency Response, 8 hour Refresher Training, June 2 and June 16
- California Specialized Training Institute (CSTI) – Hazardous Materials Investigation, June 15 – June 19
- Santa Clara County Department of Environmental Health Haz Mat Subcommittee Training, July 7
- CPR/AED, July 8
- Traffic Safety Training, July 14
- Santa Clara County Department of Environmental Health Hazardous Materials Inspector Referral Training, July 16
- CWEA 2015 Northern Regional Training Conference, Sacramento, California, September 9

- Anatomy of an Investigation – Environmental Enforcement Training presented by CHIMA and Central Contra Costa Sanitary District, Martinez, California, September 30
- BACWA South Bay Pretreatment Training on Technical Requirements for Proper Sample Collection and Field Testing: A Pretreatment Program Perspective, October 22
- Cal/EPA Basic Inspector Academy, Santa Clara, California, November 3 – 6
- Internal Pretreatment Program Monthly meetings – staff conduct presentations that address cross-training topics

Industrial User Academy

Thirty Industrial Users sent participants to the City's annual Industrial User Academy on April 15, 2015. The Industrial User Academy is an interactive workshop that assists participants in understanding their Discharge Permit requirements and methods for maintaining compliance. Often, IUs send new employees or those responsible for the IU's Environmental Health and Safety issues to the training. At the Academy, numerous City inspectors presented hands-on modules that included review of user's current permit in small groups. Inspectors reviewed Self-Monitoring Reports (SMRs) and ways to avoid common errors that IU's make when completing SMR's. Inspectors described their field methodology for sampling, Chain of Custody and testing IU samples at the City's lab. In 2015, a total of 36 participants attended from 30 facilities. At the conclusion of the Academy, the exit survey indicated that 98% of attendees rated their knowledge of the program and permit requirements as average or better, up from 64% at the beginning of the day.

Other Presentations

On September 10, 2015, Gerardo Nieves, Source Control Inspector, presented "How to Identify and Track Industrial Users" at the 2015 CWEA 2015 Northern Regional Training Conference, held in Sacramento, CA.

On October 1, 2015, Gerardo Nieves, Source Control Inspector, Sharon Terwilliger, Environmental Engineering Inspector, and Anju Whig, Sanitary Engineer, presented "Recognizing Wastewater Permit Required Facilities" at the 2015 City of San José Watershed Protection Environmental Enforcement Program Retreat and Inspector Training Workshop.

Septic Hauler Monitoring Program

The City's Septic Hauler Program accepts only domestic wastes originating from sanitary uses, specifically septic tanks and portable toilets from homes and businesses. The Pretreatment Program continues to issue three year term permits to septic haulers. In 2015, the program issued one new permit and a total of nine haulers were permitted within the City's jurisdiction for discharge at the Wastewater Facility. To protect the Wastewater Facility, septic samples are collected from every load of septage delivered to the Wastewater Facility. In 2015, the City collected 900 samples from Septic Haulers of which 20 percent were randomly selected, analyzed, and screened for abnormal results. Of the samples collected, follow-up actions were performed in response to 20 samples that showed abnormal results. Abnormalities included samples with unusually high metal concentrations, and samples collected outside the tributary area. The City issued six Notices of Violation, three Administrative Citations, three Warning

Notices, four Verbal Warnings, and three Compliance Schedules to Septic Haulers for violations of the City of San José Municipal Code.

Temporary Discharge Permit Program

Temporary Discharge Permits are issued primarily for the discharge of contaminated groundwater or construction water associated with environmental remediation or dewatering of construction projects. Applicants must submit flow documentation, along with an analysis of water to be discharged. There were 18 Temporary Discharge Permits issued in 2015.

Plan Check Program

Under the City's Plan Check Program, new businesses, primarily food related businesses (restaurants, fast food establishments, grocery stores, etc.), must have plans reviewed and stamped by the City's Environmental Services Department. This program has been implemented to protect the collection system, and ultimately the Wastewater Facility, from oil and grease and other pollutants. Typically, a Plan Check includes the sizing of grease removal devices and additional pretreatment equipment and the implementation of best management practices. In 2015, 359 plan checks were performed. Of these plan checks, 140 were food services facilities, 102 were restaurants, 9 were dental facilities, 32 were industrial dischargers including potential permitted facilities, 8 were automotive, 23 were cultivation/dispensaries, and 45 were other types of facilities.

Restaurant Inspections

Food Service Establishments (FSEs) in San José are inspected for compliance with Best Management Practices (BMPs) related to grease management and grease removal device maintenance. For Fiscal Year (FY) 14-15, 653 FSEs were inspected in San José and 851 FSEs were inspected in the Tributary jurisdictions of the Cities of Cupertino, Milpitas, Santa Clara, Saratoga, Monte Sereno, Campbell, the Town of Los Gatos, and in the unincorporated portions of Santa Clara County served by the Burbank Sanitary District and County Sanitation Districts 2 & 3. FSEs in San José with Grease Control Devices (GCD) installed onsite also receive separate GCD inspections. In FY 14-15, 1,513 of the 2,287 GCDs in San Jose were inspected.

A major component of the FSE Inspection Program is educating food service owners, managers, and workers on ordinance requirements and grease controlling BMPs. Fats, Oils, and Grease (FOG)-related educational materials have been developed to assist with education efforts. During FY 14-15, more than 2,899 educational pieces were distributed during FSE inspections to help FSE operators achieve and maintain compliance.

Enforcement actions are taken against FSEs that do not clean grease control devices at the minimum frequency and/or fail to keep records documenting the cleaning. Facilities found to have violations are re-inspected and enforcement actions are escalated until all violations are corrected. FSEs receive subsequent inspections in future years based on an overflow risk-based approach. This approach, started in FY 13-14, prioritizes FSE inspections based upon whether a site is grease producing, has adequate pretreatment, the likelihood of an overflow to occur in that area, and the potential for the site to generate grease, in addition to the prior criteria of FOG violation history and last inspection date. This adaptive, risk-based approach to prioritizing FSE inspections increases inspection frequencies at locations most likely to cause or contribute to overflows. In FY 14-15, 717 of the 1,504 FSEs inspected had one or more violation (48%). A total of 893 discrete violations were documented, and 223 Official Warning Notices, 19 Compliance Meetings, and 24 Administrative Citations were issued.

Additionally, inspection staff from the FSE Inspection Program respond to reports of grease blockages in the sanitary sewer in San José and agencies throughout the Tributary area. These Grease Investigations involve inspecting FSEs near the grease blockages for compliance with code requirements for grease control device installation and maintenance. Corrective actions are taken as needed to bring facilities into compliance and to minimize grease discharges to the collection system. During FY 14-15, the City performed 19 grease investigations involving 54 facilities, with 148 inspections conducted in connection with these grease investigations. In 2015, 51 violations were documented, and 14 Official Warning Notices and 2 Administrative Citations were issued. As part of these grease investigations 161 FOG-related educational materials were distributed.

Tributary Tribune

The *Tributary Tribune* is a newsletter publication targeted specifically to the San Jose-Santa Clara Regional Wastewater Facility's approximately 253 IUs. The publication has continued in electronic version in 2015. The first issue was released in January 2015, followed by the second issue in May 2015, and the final issue in November 2015. The following articles were included:

January 2015

- Self-Monitoring Report (SMR) Monitoring Period Changes!
- pH Analysis Time Required on COCs
- Ask Your Inspector - Industrial User Academy
- Did You know? Proper CFL Disposal

May 2015

- Avoid Violations! Accuracy of In house testing
- Save Energy and Reduce Costs - Free Energy Audits
- Sewer Fees Explained
- New Certification Form! Zero Discharger
- Ask Your Inspector - Assistant Environmental Inspectors
- Ask Your Inspector - Assistant Environmental Inspectors

November 2015

- Permit Changes - Change of Ownership
- Facility Influent - Pollutants Detected
- Facility Influent - Pollutants Detected
- Surveillance Monitoring Program

Each newsletter also includes a "Watershed Workforce" section that profiles a different staff member in each issue. All issues are posted on the City's website at: http://www.sanjoseca.gov/index.aspx?nid=4594

Dental Amalgam Program

Identified as a controllable source of mercury entering the collection system, wastewater from Dental practices continues to be monitored through the City's Dental Amalgam permitting and inspection program. Implementation of a dental program to issue Dental Wastewater Discharge Permits began in 2009 and continued during 2015. Dental permits are issued on a five-year cycle and the program continues to reissue permits to dental practices in compliance with program requirements whose five-year permits were to expire. The Dental Amalgam Program issued 34 new permits in 2015 to dentists in the Tributary area, bringing the total number of permitted dental practices in the program to 828. This represents a 99% percent participation rate of all identified dentists.

Requirements of the program include implementation of dental amalgam best management practices, annual report submission, and installation of an amalgam separator. Amalgam Separator Installation and BMP Certifications have been received from 98% of dental practices. In 2015, compliance with annual report submission increased with 100% submission success rate, due in part to an increase in enforcement measures for late reports. Dental Amalgam Program Annual Report form, BMPs, and amalgam separator certifications are available for download on the City's website at: http://www.sanjoseca.gov/dental

Permit holders are inspected for compliance a minimum of once during the five-year permit cycle. Inspections in 2015 confirmed that amalgam separators were installed at over 99% of these practices, verifying the accuracy of their previously submitted self-certification statements. The remaining 1% represents newly identified dental facilities. Initial inspections of dental practices in the Tributary cities and follow up inspections in San José will continue in 2016. The Dental Amalgam Program identified 311 violations from Dental practices in 2015. The majority of these were late reporting or amalgam separator maintenance related. All violations were enforced and resolved.

Other Pollutant Reduction Activities

The San José-Santa Clara Regional Wastewater Facility implements programs to reduce pollutants from nondomestic users that are not classified as SIUs. Information for this section can be found in the 2015 Annual Pollution Prevention Report on the City's website: http://www.sanjoseca.gov/regulatoryreports

2015 PCS Data Entry Form

POTW Name: **San Jose/Santa Clara Water Pollution Control Plant** **NPDES Permit Number:** **CA0037842**

Period Covered By this Report: **01/01/15 (PSSD) Start Date** **12/31/15 (PSED) End Date**

Number of SIUs in Significant Non-Compliance (SNC) that are on a Pretreatment Compliance Schedule:	0	(SSNC)
Number of Notices of Violation and Administrative Orders Issued Against Significant Industrial Users:	18	(FENF)
Number of Civil & Criminal Judicial Actions Against Significant Industrial Users:	0	(JUDI)
Number of Significant Industrial Users with Significant Violations Published:	12	(SVPU)
Number of Significant Industrial Users from Which Penalties Have Been Collected	3	(IUPN)

PCS DATA ENTRY FORM

Documentation of Figures

- As of the December 31, 2015, zero SIUs in SNC were on a Pretreatment Compliance Schedule.
- The Number of NOVs and Administrative Orders includes, as listed in the Compliance Activities 2015 Table, in the Enforcement Summary section, 18 NOVs issued. There were no Administrative Orders issued in 2015.
- The Public Participation Summary section lists companies that were published, which had significant violations.
- The number of IUs from which penalties were collected was calculated as follows: three SIUs and nine Non Significant Industrial Users received Administrative Citations.

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY
2015 SECOND SEMIANNUAL INDUSTRIAL USER VIOLATION REPORT

COVER SHEET

NPDES Permit Holder or Sewer Authority Name	The Cities of San José and Santa Clara
Report Date	February 28, 2016
Period Covered by This Report	From 07/01/2015 to 12/31/2015
Period Covered by Previous Report	From 01/01/2015 to 06/30/2015
Name of Wastewater Treatment Plant	San Jose/Santa Clara Water Pollution Control Plant
NPDES Permit Number	CA-0037842

Person to contact concerning information contained in this report:

Name	Casey Fitzgerald
Title	Pretreatment Program Manager
Mailing Address	200 East Santa Clara St., 7th Floor, San Jose, CA 95113
Telephone Number	(408) 793-5378

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.

Napp Fukuda
Deputy Director
Environmental Services Department
Watershed Protection

2/28/16
Date

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY
2015 SECOND SEMIANNUAL INDUSTRIAL USER VIOLATION REPORT

I. SAMPLING PROCEDURES

A. SAMPLE LOCATIONS

1. **Influent -** Samples of influent are collected from the raw sewage wet well by automatic sampler and grab sampling. This location corresponds to Station INF-001 as set forth in the Wastewater Facility's NPDES Permit, CA-0037842.
2. **Effluent -** Samples of effluent are collected from the effluent wet well by automatic sampler and by grab sampling. This location corresponds to Station EFF-001 as set forth in the Wastewater Facility's NPDES Permit, CA-0037842.
3. **Biosolids –** Samples for biosolids were collected from the Sludge Management Wastewater Facility's drying beds for this monitoring period.

B. COLLECTION TIMES

1. **Automatic Sampling -** Automated sampling is performed using flow-proportioned, composite samplers that operate from midnight to midnight on consecutive days. Influent and effluent samples are taken during the same 24-hour period.
2. **Grab Sampling -** Grab samples are collected at a time corresponding to the Wastewater Facility's maximum peak flow at 12:30 hours.
3. **Grab Composite Sampling** – Grab samples are collected in six hour intervals at 00:30, 06:30, 12:30 and 18:30. The samples are combined in the Laboratory using flow weighing parameters.
4. **Biosolids Sampling -** Biosolid samples are collected if available, in March and August and within the same twenty-four hour period as when influent and effluent samples are collected.

C. COLLECTION METHOD

1. **Direct Collection -** Wastewater samples for volatile organic compounds, semi-volatile organics, mercury and cyanide analyses are composited with a minimum of four (4) discrete grab samples collected every six hours during a 24-hour sampling event. The samples are composited based on flow in the laboratory prior to analysis.
   Samples for the analysis of volatile organic compounds (VOCs) are collected directly into 40-mL glass vials with Teflon septum screw caps. The vials are filled to overflowing before being capped to avoid any headspace.
   Semi-volatile organic compounds (BNA-base, neutral, acids) are collected directly into 1-liter amber glass bottles. Samples are refrigerated and stored in the dark after collection.
   Mercury samples are collected directly into 1-liter acid rinsed amber glass bottles utilizing clean hands techniques.
   Cyanide samples are collected in 2 liter plastic amber containers.
2. **Automatic Collection -** Wastewater samples for influent and effluent metal analyses, except for mercury analysis, are collected using automated composite samplers. Samples are collected based on flow into plastic carboys within refrigerated samplers. Samples are then refrigerated and stored in the dark after collection.
3. **Biosolids Collection –** Dry and wet weather biosolid samples are collected from the Wastewater Facility's drying beds if available. Twenty grab samples are collected and then composited into a single sample for subsequent analyses. Samples are collected by employing a grid pattern map for sample locations. Biosolid grab samples are collected directly into 125ml borosilicate glass.

D. STORAGE, PRESERVATION, AND HOLDING TIMES

1. **EPA Method 624 -** Samples for volatile organic compound analysis are collected in 40-ml glass vials with no air bubbles using septum and Teflon-lined caps and stored at four to six

degrees centigrade. Sodium thiosulfate is used to remove residual chlorine when necessary. Samples are analyzed within three days.

2. **EPA Method 625 -** Samples for semi-volatile organic compound analysis are collected in one liter amber glass containers, with Teflon-lined caps at four to six degrees centigrade. Sodium thiosulfate is used to remove residual chlorine when necessary. Samples are extracted within seven days and the extracts analyzed within thirty days.
3. **Influent and Effluent Metals -** Samples for influent and effluent metal analysis, except for mercury, are collected in plastic or glass containers and stored at four to six degrees centigrade. Samples are preserved with Optima grade nitric acid to a pH < 2 and analyzed within six months. Samples for total mercury analysis are collected in one liter amber glass bottles, preserved with 5mL/L of BrCl solution and analyzed within ninety days.
4. **Influent and Effluent Cyanide** – Samples for influent and effluent cyanide analysis are collected in 2-liter amber plastic bottles and stored at four to six degrees centigrade. Prior to preservation with sodium hydroxide to pH>10, samples are checked and treated for oxidizers and sulfides. Preserved samples are analyzed within fourteen days.
5. **Biosolids -** Collected samples are stored and preserved at four to six degrees centigrade. Holdtimes vary with the analytical method application. Metals' holdtime is six months except for mercury with a holdtime of twenty-eight days. All organic analyses including Organochlorine pesticides, PCB aroclors, semi-volatile organics, and volatile organics have a holdtime of fourteen days.

II. METHOD OF SAMPLE DECHLORINATION

A. EFFLUENT SAMPLES

Dechlorination of effluent samples is not required since the samples are collected downstream of the Wastewater Facility's dechlorination process. The treatment plant uses sodium bisulfite injection for dechlorination.

B. INFLUENT SAMPLES

Influent may be pre-chlorinated at various times as an odor control measure. Sodium thiosulfate is used as a dechlorinating agent when necessary.

III. SAMPLE COLLECTION

A. INFLUENT AND EFFLUENT SAMPLES

Priority Pollutant Metals **-** Samples for priority pollutant metals analysis, except for mercury, are composited by automatic samplers based on the Wastewater Facility's flow rates.

Volatile organics, semi-volatile organics, mercury and cyanide samples are collected by grab sampling during the Wastewater Facility's peak flow period.

B. BIOSOLIDS

Twenty individual grab samples are composited and split into appropriate fractions for each individual analyses required.

IV. DATA VALIDATION

A. METHOD BLANKS

Method blanks are routinely analyzed to demonstrate that the entire laboratory analytical process and system does not introduce significant contaminant levels. A method blank is included in each sample preparation batch as required by the referenced analytical method.

B. TRAVEL BLANKS

Travel blanks are routinely submitted with collected wastewater samples to assess any significant contaminant levels that maybe introduced from the field or associated handling procedures during sample collection or transportation.

C. REPLICATES

Field replicates are routinely collected and analyzed to determine the precision of the sampling process.

Laboratory replicates are routinely analyzed to determine the precision of the analytical process.

D. SPIKED SAMPLES

Laboratory samples are routinely spiked with a known amount of the analyte(s) of interest to assess any sample matrix interferences or effects and determine the accuracy of the analytical process or system. The addition of a matrix spike duplicate will assess the precision of analytical process.

E. QA/QC CRITERIA

Acceptance criteria for the above listed chemical parameters follow protocol and/or guidelines of the EPA (40 CFR 136, EPA SW-846, EPA 600/4-79/020), Standard Methods for the Examination of Water and Wastewater and the California Environmental Laboratory Accreditation Program of the State Water Resources Board.

F. ANALYTICAL METHODOLOGY

Methods and techniques used for all chemical determinations strictly adhere to procedures published by the EPA (40 CFR 136, EPA SW-846, EPA 600/4-79/020) or as published in the approved edition of Standard Methods for the Examination of Water and Wastewater.

G. CERTIFICATION STATEMENT [ATTACHED]

V. SAMPLE RESULTS

A. DRY-WEATHER SEASON SAMPLING – AUGUST, 2015

See Appendix I - Data Tables.

VI. DISCUSSION OF RESULTS

A. INFLUENT DISCUSSION

Base Neutral Acids (BNA) EPA625

Bis(2-ethylhexyl)phthalate is a common plasticizer for polymeric materials. Bis(2-ethylhexyl)phthalate is used primarily as a plasticizer during polyvinyl chloride and polymer production and is likely released into wastewater after water contact with plastic materials. **Bis(2-ethylhexyl)phthalate was reported at DNQ value of 6.1µg/L**.

Phenol is used as a precursor in a number of industrial synthesis applications to produce resins, plastics, surfactants, detergents, emulsifiers, insecticides and medical antiseptics. Other uses of phenol include anesthetic applications in ointments, ear and nose drops and cold sore lotions; and as a slimicide for bacteria and fungi growth. **Phenol was detected and reported at 39µg/L.**

Diethylphthalate is ubiquitous in the environment based on its many applications. It is used as a plasticizer in many products and as a solvent for cosmetics, personal care products and insecticides. The degradation of this compound in a aqueous matrix is dependent on aerobic or anaerobic conditions for its breakdown in water. **Diethylphthalate was detected and reported at 4.8µg/L**.

All of the above compounds have typically been measured in this Wastewater Facility's influent.

Volatile Organic Compounds (VOCs) EPA624

Chloroform may enter the environment through its use as an industrial solvent, extracting reagent, cleaning agent and as a by-product from the chlorination of water, wastewater, and cooling water. Artificial or indirect sources of chloroform are primarily as a chlorinated by-product in water treatments, paper mills, and combustion of leaded gasoline. **Chloroform was detected and reported at 2.1µg/L.** Chloroform is typically detected in this Wastewater Facility's influent.

Toluene is used as a general purpose solvent, fuel additive, and chemical manufacturing constituent. Considerable amounts are discharged during the emissions, volatilization, storage, transport, and disposal of fuels and oils. **Toluene was detected and reported at 5.5µg/L**.

Polychlorinated Biphenyls and Pesticides EPA608

There were **no detectable amounts** of Aroclors (PCBs) or pesticides for this monitoring period in the Wastewater Facility's influent.

Priority Pollutant Metals

All priority pollutant metals measured during this period were at concentrations characteristic of influent typically received by this Wastewater Facility.

B. EFFLUENT DISCUSSION

Base Neutral Acids (BNA) EPA625

All priority pollutants for semivolatile BNA compounds in the Wastewater Facility's effluent for this monitoring period were reported as **non-detect**.

Volatile Organic Compounds (VOCs) EPA624

Chloroform enters into the wastewater stream as a by-product formed during the chlorination treatment processes of drinking water and wastewater. Chloroform may also enter the environment from artificial sources including automobile exhaust, extractants, solvents, dry cleaning agents, fumigants, and synthetic rubber. Primary loss of chloroform occurs by evaporation into the atmosphere. **Chloroform was detected and reported at 2.4µg/L.** Chloroform is a known disinfection byproduct in the wastewater treatment process.

Polychlorinated Biphenyls and Pesticides EPA608

There were **no detectable amounts** of PCBs (Aroclors) or pesticides for this monitoring period in the Wastewater Facility's effluent.

Priority Pollutant Metals

All priority pollutant metals were measured at concentrations characteristic of the effluent discharged by this Wastewater Facility. Priority pollutant metals detected and reported in the effluent were below NPDES permit limitations.

All detectable concentrations are below applicable Water Quality Criteria or Objectives.

C. BIOSOLIDS DISCUSSION

The concurrent collection of the Wastewater Facility's Biosolids with influent and effluent sampling occurred on August 4, 2015. Twenty sample aliquots were composited and subsequently analyzed for priority pollutant contaminants.

Semivolatile Organic Compounds (EPA8270)
The only detectable semi volatile organic (EPA Method 8270B) found in the biosolids analysis was **Bis(2-ethylhexyl)phthalate at a DNQ value of 3.4mg/Kg**, all other compounds were reported as less than the MDL. **Bis(2-ethylhexyl)phthalate** is a commonly used plasticizer in many products and is likely released into after water contact with plastic materials.

Volatile Organic Compounds (EPA8260)
All analytical results for volatile organics were reported as **non-detect** at the method detection limit.

Polychlorinated Biphenyls-Aroclors (EPA8082)
Analytical results of PCB Aroclors (EPA Method 8082) were all reported as **non-detect** at the method detection limit.

Organochlorine Pesticides (EPA8081)
Analysis results for Organochlorine Pesticides (EPA Method 8081A) were all reported as **non-detect** at the method detection limit.

Priority Pollutant Metals

Metals analysis of the Biosolids resulted in additional Soluble Threshold Limit Concentration (STLC) testing for **chromium** and **copper**. The subsequent STLC values were determined to be below any actionable levels. Priority pollutant metals were measured at concentrations characteristic of typical biosolid production at this Wastewater Facility.
No priority pollutant metals were detected in concentrations that would adversely affect Class A biosolids disposal options.

QA/QC CERTIFICATION STATEMENT

Quality Assurance/Quality Control validation data was reviewed for each of the analytical measurements performed and deemed acceptable. Acceptance criteria were established using methodologies from Standard Methods for the Examination of Water and Wastewater, EPA references (40 CFR 136, EPA SW-846, EPA 600/4-79/020), or as specified by the California Environmental Laboratory Accreditation Program of the State Water Resources Board.

Noel Enoki
Environmental Laboratory Manager

Appendix I

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)	Cyanide (influent)	Cyanide (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1/7/2015	1.82	0.95	DNQ0.12	ND	5.31	0.43	112	2.09	2.75	0.11	0.134	0.00110	8.36	4.82	2.27	0.50	0.76	DNQ0.010	187	27.2	DNQ1.5	DNQ0.9
1/14/2015	n.a.	1.23	n.a.	ND	n.a.	0.48	n.a.	3.20	n.a.	0.29	n.a.	n.a.	n.a.	6.36	n.a.	n.a.	n.a.	DNQ0.009	n.a.	18.9	n.a.	n.a.
2/2/2015	2.02	1.10	DNQ0.093	ND	5.83	0.70	124	3.48	5.24	0.12	0.125	0.00111	8.59	4.99	2.76	0.65	0.64	DNQ0.023	203	21.4	DNQ1.2	DNQ0.7
3/3/2015	1.82	1.08	ND	ND	5.53	0.64	94.0	3.44	4.29	0.29	0.109	0.00131	9.91	6.47	2.36	0.55	0.79	DNQ0.015	165	16.0	DNQ1.5	DNQ1.2
4/2/2015	2.02	1.38	DNQ0.32	ND	5.68	0.58	125	3.36	2.79	0.14	0.0978	0.00109	8.56	5.09	2.70	0.70	0.57	DNQ0.011	183	19.3	DNQ1.8	DNQ0.96
5/4/2015	2.76	1.54	DNQ0.33	ND	5.48	0.52	136	2.68	3.42	DNQ0.083	0.0847	0.00122	15.2	6.35	2.12	0.58	0.80	DNQ0.015	173	19.6	DNQ2.1	DNQ1.1
6/1/2015	2.31	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.75	n.a.	n.a.	n.a.	n.a.	n.a.
6/2/2015	3.01	1.46	DNQ0.24	ND	5.66	0.50	137	2.94	2.76	0.12	0.106	0.00114	11.2	5.57	1.83	0.43	2.39	DNQ0.014	191	17.5	4.20	DNQ1.1
6/3/2015	2.95	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.97	n.a.	n.a.	n.a.	n.a.	n.a.
6/11/2015	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	DNQ1.4	DNQ1.0
7/7/2015	2.45	1.62	DNQ0.34	DNQ0.038	8.03	0.56	162	2.43	2.64	DNQ0.092	0.120	0.00100	11.2	5.81	1.55	0.35	0.90	DNQ0.007	201	20.1	DNQ1.4	DNQ1.2
8/4/2015	2.54	1.79	DNQ0.27	ND	5.68	0.53	136	2.77	2.82	0.12	0.083	0.00090	9.69	5.14	1.74	0.33	0.86	DNQ0.010	209	22.1	DNQ1.7	DNQ0.9
9/2/2015	2.99	1.60	DNQ0.30	ND	6.17	0.60	156	2.28	3.69	DNQ0.086	0.137	0.00080	10.9	6	2.12	0.41	0.76	DNQ0.006	215	28.2	DNQ1.0	DNQ1.9
10/7/2015	2.51	1.88	DNQ0.20	ND	5.85	0.67	149	2.46	2.64	DNQ0.081	0.080	0.00086	9.01	5.16	1.68	0.41	0.94	DNQ0.007	175	20.8	DNQ2.1	DNQ1.0
11/2/2015	2.38	1.42	DNQ0.36	ND	5.97	0.64	130	2.49	4.21	0.10	0.100	0.00128	24.0	5.28	1.83	0.39	0.58	DNQ0.008	204	18.0	DNQ2.3	DNQ1.5
12/3/2015	2.23	1.35	DNQ0.23	ND	4.24	0.53	166	3.11	2.94	0.27	0.094	0.00175	16.6	5.40	1.63	0.40	0.57	DNQ0.017	181	20.3	DNQ1.2	DNQ0.36

n.a. = not available

RAW DATA

[available upon request]

Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By	Para-meter	Samples in Violation						Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)					
										Federal		Local			
	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Max	Avg	Max	Avg		
Advanced Component Labs 990 Richard Ave, Unit 118 Santa Clara, CA 95050 SC-360B **Flow =** 458 40 CFR 433.17 Subpart A	CC	SNF	CC	CC	7/21/2015	IU	Zn	3.11		2.61		2.6		WN	The violations were for exceeding the federal monthly average, the federal daily maximum, the local maximum allowable zinc concentration limits, and failure to report violations. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be deterioration of metal hose connections to the rinse water filtration system. The IU responded to the violation by replacing deteriorated hose connections. An inspection on 9/10/2015 verified the replacement of deteriorated hose connections. The results of subsequent samples collected by the IU on 9/4/2015 and collected by the City on 9/9/2015 were in compliance.

Compliance Status Key

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Enforcement Action Key

WN - Warning Notice
VW - Verbal Warning
SC - Sewer Surcharge
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	Current		Previous			POTW/ IU/ OTHER		Reported Level (mg/L)		Discharge Limit (mg/L)						
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg			
Advanced Component Labs 990 Richard Ave, Unit 118 Santa Clara, CA 95050 SC-360B **Flow =** 458 40 CFR 433.17 Subpart A	CC	SNF	CC	CC	7/31/2015	IU	Zn	3.11		1.48					WN	The violations were for exceeding the federal monthly average, the federal daily maximum, the local maximum allowable zinc concentration limits, and failure to report violations. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be deterioration of metal hose connections to the rinse water filtration system. The IU responded to the violation by replacing deteriorated hose connections. An inspection on 9/10/2015 verified the replacement of deteriorated hose connections. The results of subsequent samples collected by the IU on 9/4/2015 and collected by the City on 9/9/2015 were in compliance.

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Advanced Component Labs 990 Richard Ave, Unit 118 Santa Clara, CA 95050 SC-360B **Flow =** 458 40 CFR 433.17 Subpart A	CC	SNF	CC	CC	8/25/2015	OTHER								WN	The violations were for exceeding the federal monthly average, the federal daily maximum, the local maximum allowable zinc concentration limits, and failure to report violations. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be deterioration of metal hose connections to the rinse water filtration system. The IU responded to the violation by replacing deteriorated hose connections. An inspection on 9/10/2015 verified the replacement of deteriorated hose connections. The results of subsequent samples collected by the IU on 9/4/2015 and collected by the City on 9/9/2015 were in compliance.

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Allergan, Inc. 503-F Vandell Way Campbell, CA 95008 WV-044B **Flow =** 219 40 CFR 439 Subpart A	CC	IF/ IL	IF/ IL	CC	7/16/2015	OTHER	pH	3.9 (min)		5.0 (min)		6.0 (min)		NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. Both two minute pH violations were reported by the IU on 7/28/2015. The IU failed to report the 7/16/2015 pH violation within 24 hours. The causes of the violations were determined to be discharge of mop water down an emergency shower drain and discharge of dry ice down a mop sink. The IU responded to the violations by capping the drains, adding signage, and retraining employees, as verified during an inspection on 8/4/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 10/5/2015 were in compliance.

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Allergan, Inc. 503-F Vandell Way Campbell, CA 95008 WV-044B **Flow =** 219 40 CFR 439 Subpart A	CC	IF/ IL	IF/ IL	CC	7/27/2015	OTHER	pH	5.7 (min)				6.0 (min)		NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. Both two minute pH violations were reported by the IU on 7/28/2015. The IU failed to report the 7/16/2015 pH violation within 24 hours. The causes of the violations were determined to be discharge of mop water down an emergency shower drain and discharge of dry ice down a mop sink. The IU responded to the violations by capping the drains, adding signage, and retraining employees, as verified during an inspection on 8/4/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 10/5/2015 were in compliance.

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Allergan, Inc. 503-F Vandell Way Campbell, CA 95008 WV-044B **Flow =** 219 40 CFR 439 Subpart A	CC	IF/ IL	IF/ IL	CC	7/28/2015	OTHER								NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. Both two minute pH violations were reported by the IU on 7/28/2015. The IU failed to report the 7/16/2015 pH violation within 24 hours. The causes of the violations were determined to be discharge of mop water down an emergency shower drain and discharge of dry ice down a mop sink. The IU responded to the violations by capping the drains, adding signage, and retraining employees, as verified during an inspection on 8/4/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 10/5/2015 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)					
										Federal		Local			
	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Max	Avg	Max	Avg		
Alsco 2275 Junction Ave San Jose, CA 95131 SJ-546B **Flow =** 55,741 SIU based on flow	CC	SNL	CC	CC	7/31/2015	POTW	O&G	255				180		NV AC	The violations were for exceeding the local maximum allowable oil and grease concentration limit and failure to report violations. The IU failed to report the oil and grease violation within 24 hours. The cause of the violations was determined to be interference from new wash chemistry. The IU responded to the violations by submitting updated wash chemistry documents for modification of local discharge permit limits. The local discharge permit limits are in the process of being reviewed. Once the local discharge permit limits are determined samples will be collected by both the City and IU to verify compliance. See 10/6/2015 Compliance Meeting for additional details. $250.00 fine issued for Grease per San Jose Municipal Code 15.14.565.

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San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

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Alsco 2275 Junction Ave San Jose, CA 95131 SJ-546B **Flow =** 55,741 SIU based on flow	CC	SNL	CC	CC	8/4/2015	IU	O&G	275				180		NV	The violations were for exceeding the local maximum allowable oil and grease concentration limit and failure to report violations. The IU failed to report the oil and grease violation within 24 hours. The cause of the violations was determined to be interference from new wash chemistry. The IU responded to the violations by submitting updated wash chemistry documents for modification of local discharge permit limits. The local discharge permit limits are in the process of being reviewed. Once the local discharge permit limits are determined samples will be collected by both the City and IU to verify compliance. See 10/6/2015 Compliance Meeting for additional details.
														AC	$312.50 fine issued for Grease per San Jose Municipal Code 15.14.565.

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Alsco 2275 Junction Ave San Jose, CA 95131 SJ-546B **Flow =** 55,741 SIU based on flow	CC	SNL	CC	CC	8/20/2015	OTHER								NV	The violations were for exceeding the local maximum allowable oil and grease concentration limit and failure to report violations. The IU failed to report the oil and grease violation within 24 hours. The cause of the violations was determined to be interference from new wash chemistry. The IU responded to the violations by submitting updated wash chemistry documents for modification of local discharge permit limits. The local discharge permit limits are in the process of being reviewed. Once the local discharge permit limits are determined samples will be collected by both the City and IU to verify compliance. See 10/6/2015 Compliance Meeting for additional details.

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San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
														CM	At a Compliance Meeting on 10/6/2015, the violations and Compliance Agreement were discussed. The IU responded to the violations by performing tests to determine detergent interference, submitting a report, and requesting a review and adjustment of local discharge limits. The local discharge permit limits are in the process of being reviewed. Once the local discharge permit limits are determined, the IU will collect samples for three consecutive months. In addition to these requirements, the IU is required to generate an SOP for informing the POTW of any detergent changes.
Amalar, Inc. 2317 Calle de Luna Santa Clara, CA 95054 SC-134B **Flow =** 233 40 CFR 433.17 Subpart A	IF/ IL	CC	IF/ IL	CC	10/2/2015	OTHER								NV	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be IU oversight. The IU responded to the violation by committing to timely sample collection in the future.

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San José-Santa Clara Regional Wastewater Facility

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Applied Anodize, Inc. 622 Charcot Ave, Suite B San Jose, CA 95131 SJ-025B **Flow =** 622 (on 01/15/15) 40 CFR 433.17 Subpart A	CC	IL	CC	CC	9/8/2015	OTHER								VW	The violation was for late submittal of an SMR that was due on 8/31/2015, but was not received until 9/8/2015. The IU has committed to timely submittal of reports in the future.

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Bi-CMOS Foundry 975 Comstock St Santa Clara, CA 95054 SC-349B **Flow =** 996 40 CFR 469 Subpart A	NS	IF/ IL	IF/ IL	CC	6/24/2015	OTHER	pH	5.5 (min)				6.0 (min)		WN	The violations were for failing to comply with a permit condition – failure to maintain monitoring facilities, failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The one minute pH violation was identified during an inspection on 8/27/2015. The IU failed to report the pH violation within 24 hours. The causes of the violations could not be determined. The IU responded to the violations by training employees to review the pH chart recorder daily and to maintain the sample point, as verified during an inspection on 8/27/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the IU on 9/22/2015 and collected by the City on 9/25/2015 were in compliance

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Bi-CMOS Foundry 975 Comstock St Santa Clara, CA 95054 SC-349B **Flow =** 996 40 CFR 469 Subpart A	NS	IF/ IL	IF/ IL	CC	8/24/2015	OTHER								WN	The violations were for failing to comply with a permit condition – failure to maintain monitoring facilities, failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The one minute pH violation was identified during an inspection on 8/27/2015. The IU failed to report the pH violation within 24 hours. The causes of the violations could not be determined. The IU responded to the violations by training employees to review the pH chart recorder daily and to maintain the sample point, as verified during an inspection on 8/27/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the IU on 9/22/2015 and collected by the City on 9/25/2015 were in compliance

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By	Para-meter	Samples in Violation						Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous			POTW/ IU/ OTHER		Reported Level (mg/L)		Discharge Limit (mg/L)					
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Bi-CMOS Foundry 975 Comstock St Santa Clara, CA 95054 SC-349B **Flow =** 996 40 CFR 469 Subpart A	NS	IF/ IL	IF/ IL	CC	8/27/2015	OTHER								WN	The violations were for failing to comply with a permit condition – failure to maintain monitoring facilities, failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The one minute pH violation was identified during an inspection on 8/27/2015. The IU failed to report the pH violation within 24 hours. The causes of the violations could not be determined. The IU responded to the violations by training employees to review the pH chart recorder daily and to maintain the sample point, as verified during an inspection on 8/27/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the IU on 9/22/2015 and collected by the City on 9/25/2015 were in compliance

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Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By (POTW/ IU/ OTHER)	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
CBR Circuits, Inc. 116 Minnis Cir Milpitas, CA 95035 MI-140B **Flow =** 58 40 CFR 433.17 Subpart A	IL	CC	CC	CC	10/28/2015	OTHER								VW	The violation was for late submittal of an SMR that was due on 9/30/2015, but was not received until 10/28/2015. The IU has committed to timely submittal of reports in the future.
Coatek 2272 Calle de Luna Santa Clara, CA 95054 SC-026B **Flow =** 379 40 CFR 433.17 Subpart A	CC	CC	SNL	IF/ IL	6/25/2015	POTW	Pb	0.54				0.4		WN	The lead and nickel local maximum allowable concentration limits violations resulted from an Afterhours monitoring inspection. The grab sample was collected at 5:51 PM from the IU's sample point. The cause of the violations was determined to be from cleaning of the wastewater treatment system. The IU responded to the violations by cleaning out the sample point and retreating the wastewater, as verified by an inspection on 8/19/2015. The results of subsequent samples collected by the IU and the City on 7/31/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Coatek 2272 Calle de Luna Santa Clara, CA 95054 SC-026B **Flow =** 379 40 CFR 433.17 Subpart A	CC	CC	SNL	IF/ IL	6/25/2015	POTW	Ni	1.36				0.5		WN	The lead and nickel local maximum allowable concentration limits violations resulted from an Afterhours monitoring inspection. The grab sample was collected at 5:51 PM from the IU's sample point. The cause of the violations was determined to be from cleaning of the wastewater treatment system. The IU responded to the violations by cleaning out the sample point and retreating the wastewater, as verified by an inspection on 8/19/2015. The results of subsequent samples collected by the IU and the City on 7/31/2015 were in compliance.
Cordova Printed Circuits 1648 Watson Ct Milpitas, CA 95035 MI-017B **Flow =** 1,789 40 CFR 433.17 Subpart A	IF/ IL	IF/ IL	CC	CC	7/24/2015	OTHER								WN	The violation was for failing to comply with a permit condition – failure to maintain monitoring facilities. The cause of the violation was determined to be improper plumbing as a result of employee error. The IU responded to the violation by permanently gluing the wastewater pipe in place, as verified during an inspection on 9/8/2015.

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Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By	Para-meter	Samples in Violation						Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)					
										Federal		Local			
	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Max	Avg	Max	Avg		
Cordova Printed Circuits 1648 Watson Ct Milpitas, CA 95035 MI-017B **Flow =** 1,789 40 CFR 433.17 Subpart A	IF/ IL	IF/ IL	CC	CC	7/29/2015	OTHER								VW	The violation was for failing to comply with a permit condition – failure to maintain pH monitoring equipment. The cause of the violation was determined to be employee error. The IU responded to the violation by replacing the pH chart paper on 8/3/2015 and initialing the pH recorder daily, as verified during an inspection on 10/7/2015.
					10/22/2015	POTW	Cu	3.64		3.38		2.3		VW	The violation was for exceeding the the federal monthly average, the federal daily maximum, and the local maximum allowable copper concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be insufficient cleaning of the sample point. The IU responded to the violation by increasing the cleaning frequency. An inspection on 12/8/2015 verified the IU had cleaned the sample point. The results of subsequent samples collected by the City on 11/17/2015 and collected by the IU on 12/8/2015 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)						
	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg			
Cordova Printed Circuits 1648 Watson Ct Milpitas, CA 95035 MI-017B **Flow =** 1,789 40 CFR 433.17 Subpart A	IF/ IL	IF/ IL	CC	CC	10/30/2015	POTW	Cu	3.64			2.07				VW	The violation was for exceeding the the federal monthly average, the federal daily maximum, and the local maximum allowable copper concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be insufficient cleaning of the sample point. The IU responded to the violation by increasing the cleaning frequency. An inspection on 12/8/2015 verified the IU had cleaned the sample point. The results of subsequent samples collected by the City on 11/17/2015 and collected by the IU on 12/8/2015 were in compliance.

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Eagle Tech, Inc. 2299 Ringwood Ave, Unit C-3 San Jose, CA 95131 SJ-520B **Flow =** 512 40 CFR 433.17 Subpart A	CC	CC	CC	CC	11/14/2015	POTW	Cu	3.26				2.7		VW	The violation was for exceeding the local maximum allowable copper concentration limit. The cause of the violation could not be determined. The IU responded to the violation by recirculating the sludge several times during the shift to ensure optimal flocculation and settling in the clarifier. Documentation of this procedure was added in the IU's daily log sheet starting 12/7/2015, as verified by an inspection on 12/8/2015. The results of subsequent samples collected by the IU on 11/25/2015 and collected by the City on 11/30/2015 were in compliance.
Gorilla Circuits 1509 Berger Dr San Jose, CA 95112 SJ-449B **Flow =** 62,804 40 CFR 433.17 Subpart A	IL	CC	IF/ IL	CC	11/11/2015	OTHER								WN AC	The violation was for late submittal of an SMR that was due on 10/31/2015, but was not received until 11/11/2015. The IU has committed to timely submittal of reports in the future. $250 fine issued for Discharge Reports per San Jose Municipal Code 15.14.695.

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Grinding, Dicing Services, Inc. dba GDSI 925 Berryessa Rd San Jose, CA 95133 SJ-599B **Flow =** 5,169 40 CFR 469 Subpart A	IL	IF/ IL	CC	NS	7/14/2015	OTHER								WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be a misunderstanding of the monitoring periods and due date. The IU responded to the violation by reviewing permit monitoring periods, due dates, and adjusting contract lab sampling frequencies. The IU has committed to timely submittal of reports in the future.
					9/9/2015	OTHER								WN	The violation was for late submittal of an SMR that was due on 7/31/2015, but was not received until 9/9/2015. The IU has committed to timely submittal of reports in the future.
														AC	$500 fine issued for Discharge Reports per San Jose Municipal Code 15.14.695.

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Grinding, Dicing Services, Inc. dba GDSI 925 Berryessa Rd San Jose, CA 95133 SJ-599B **Flow =** 5,169 40 CFR 469 Subpart A	IL	IF/ IL	CC	NS	10/23/2015	OTHER								NV	The violations were for late submittal of enforcement action responses that were due on 9/21/2015 and 10/2/2015, but were not received until 10/23/2015. The IU has committed to timely submittal of reports in the future.
International Disposal Corporation, Inc 700 Los Esteros Rd San Jose, CA 95134 SJ-437A **Flow =** 41,808 SIU based on flow	CC	CC	NS	CC	9/1/2015	POTW	Ni	0.59				0.5		VW	The violation was for exceeding the local maximum allowable nickel concentration limit. The cause of the violation was determined to be equipment failure. The IU responded to the violation by repairing the equipment, retraining employees, and updating Standard Operating Procedures (SOP) for inspecting this equipment. An inspection on 12/3/2015 verified repairs to the equipment, employee training, and the updated SOP. The results of subsequent samples collected by the IU on 9/21/2015 and collected by the City on 9/25/2015 were in compliance.

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Kearney Pattern Works and Foundry 40 S Montgomery St San Jose, CA 95110 SJ-557Z **Flow** = 0 40 CFR 464	NS	IL	NS	NS	7/8/2015	OTHER								VW	The violation was for late submittal of a Zero Discharge Certification that was due on 6/31/2015, but was not received until 7/8/2015. The IU has committed to timely submittal of reports in the future.

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Kion Technology, Inc. 2190 Old Oakland Rd San Jose, CA 95131 SJ-191B **Flow =** 300 40 CFR 433.17 Subpart A	CC	IF/ IL	SNF	CC	6/25/2015	POTW	CN-T	2.15		1.2				WN	The violation was for exceeding the federal monthly average and the federal daily maximum cyanide concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be test result interference. The IU responded to the violation by reviewing treatment and testing methods, purchasing better testing equipment, retraining employees, and verifying in-house testing results with an outside lab. An inspection on 8/17/2015 verified the IU has trained employees and has ordered improved testing equipment. The results of subsequent samples collected by the IU on 7/15/2015 and 7/24/2015, and collected by the City on 7/31/2015 were in compliance.

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Kion Technology, Inc. 2190 Old Oakland Rd San Jose, CA 95131 SJ-191B **Flow =** 300 40 CFR 433.17 Subpart A	CC	IF/ IL	SNF	CC	6/30/2015	POTW	CN-T	2.15		0.65				WN	The violation was for exceeding the federal monthly average and the federal daily maximum cyanide concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be test result interference. The IU responded to the violation by reviewing treatment and testing methods, purchasing better testing equipment, retraining employees, and verifying in-house testing results with an outside lab. An inspection on 8/17/2015 verified the IU has trained employees and has ordered improved testing equipment. The results of subsequent samples collected by the IU on 7/15/2015 and 7/24/2015, and collected by the City on 7/31/2015 were in compliance.
					8/3/2015	OTHER								WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be a misunderstanding of the reporting period. The IU responded to the violation by adjusting the sampling schedule as verified during an inspection on 10/26/2015.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Lenthor Engineering, Inc. 311 Turquoise St Milpitas, CA 95035 MI-141B **Flow =** 11,770 40 CFR 433.17 Subpart A	IF/ IL	CC	CC	CC	11/19/2015	POTW	Cu	3.38		3.37		2.3		VW	The violation was for exceeding the federal monthly average, the federal daily maximum, and the local maximum allowable copper concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be residual copper from the resist stripping activity. The IU responded to the violation by adding additional rinsing steps prior to the copper resist stripping step. An inspection on 1/20/2016 verified the change in procedures was implemented. The results of subsequent samples collected by the IU on 12/22/2015 and collected by the City on 1/19/2016 were in compliance.
Linear Technology Corp. 1630 McCarthy Blvd Milpitas, CA 95035 MI-006A **Flow =** 360 40 CFR 433.17 Subpart A	IF/ IL	CC	CC	CC	11/6/2015	OTHER								WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be scheduling issues with the sampling contractor. The IU responded to the violation by directing the sampling contractor to schedule sample events one month prior to the end of the monitoring period.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level (mg/L) Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Linear Technology Corporation 275 S Hillview Dr Milpitas, CA 95035 MI-088B **Flow =** 120,857 40 CFR 469 Subpart A	IF/ IL	CC	CC	CC	11/6/2015	OTHER								WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be scheduling issues with the sampling contractor. The IU responded to the violation by directing the sampling contractor to schedule sample events one month prior to the end of the monitoring period.
Mannington Mills dba Burke Industries 2250 S 10th St San Jose, CA 95112 SJ-594B **Flow =** 140 40 CFR 428 Subpart G	IL	CC	SNL	CC	6/11/2015	POTW	O&G	779				150		WN	The violation was for exceeding the local maximum allowable oil and grease concentration limit. The cause of the violation was determined to be insufficient maintenance of the oil water separator. The IU responded to the violation by having the separator cleaned and increasing the maintenance frequency. An inspection on 8/6/2015 verified the separator had been cleaned. The results of subsequent samples collected by the IU on 7/13/2015 and collected by the City on 8/4/2015 were in compliance.

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San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current		Previous		Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L)		Discharge Limit (mg/L)				Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Mannington Mills dba Burke Industries 2250 S 10th St San Jose, CA 95112 SJ-594B **Flow =** 140 40 CFR 428 Subpart G	IL	CC	SNL	CC	11/13/2015	POTW	Zn	6.11				2.6		WN	The violation was for exceeding the local maximum allowable zinc concentration limit. The cause of the violation was determined to be use of a zinc contaminated container to transport wastewater. The IU responded to the violation by labeling the containers used for zinc and retraining employees. The results of subsequent samples collected by the City on 12/17/2015 and collected by the IU on 12/21/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/IU/OTHER	Parameter	Samples in Violation: Reported Level (mg/L) Max	Reported Level (mg/L) Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 2,402 40 CFR 433.17 Subpart A	SNF	CC	CC	CC	10/27/2015	POTW	Zn	7.12		2.61		2.60		WN	The violation was for exceeding the federal monthly average, the federal daily maximum, and the local maximum allowable zinc concentration limit. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be the IU improperly discarding spent zinc plating rinsewater to the Acid Waste Neutralization System. The IU responded to the violation by escalating weekly employee refresher training. An inspection on 1/6/2016 verified the new training protocols were implemented. The results of subsequent samples collected by the IU on 12/10/2015, 12/11/2015, 12/17/2015, 12/18/2015, and collected by the City on 12/16/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current		Previous		Date Violation occurred	Taken By	Para-meter	Samples in Violation: Reported Level (mg/L)		Discharge Limit (mg/L): Federal		Local		Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Max	Avg	Max	Avg		
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 2,402 40 CFR 433.17 Subpart A	SNF	CC	CC	CC	10/31/2015	POTW	Zn		7.12		1.48			WN	The violation was for exceeding the federal monthly average, the federal daily maximum, and the local maximum allowable zinc concentration limit. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be the IU improperly discarding spent zinc plating rinsewater to the Acid Waste Neutralization System. The IU responded to the violation by escalating weekly employee refresher training. An inspection on 1/6/2016 verified the new training protocols were implemented. The results of subsequent samples collected by the IU on 12/10/2015, 12/11/2015, 12/17/2015, 12/18/2015, and collected by the City on 12/16/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Micrel, Inc. 1849 Fortune Dr San Jose, CA 95131 SJ-258A **Flow =** 176,236 40 CFR 469 Subpart A	IF/ IL	IL	CC	CC	8/5/2015	OTHER	pH	5.8 (min)				6.0 (min)		VW	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The two and 55 minute pH violations were reported by the IU on 8/5/2015 and 8/10/2015. The cause of the violations was determined to be excessive acidic discharge to the Acid Waste Neutralization System. The IU responded to the violations by conducting training and review of SOPs, as verified during an inspection on 10/9/2015. The pH chart recorder was also reviewed and no further violations were noted.
					8/9/2015	OTHER	pH	5.7 (min)				6.0 (min)		VW	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The two and 55 minute pH violations were reported by the IU on 8/5/2015 and 8/10/2015. The cause of the violations was determined to be excessive acidic discharge to the Acid Waste Neutralization System. The IU responded to the violations by conducting training and review of SOPs, as verified during an inspection on 10/9/2015. The pH chart recorder was also reviewed and no further violations were noted.

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Micrel, Inc. 1849 Fortune Dr San Jose, CA 95131 SJ-258A **Flow =** 176,236 40 CFR 469 Subpart A	IF/ IL	IL	CC	CC	9/26/2015	OTHER	pH	5.5 (min)				6.0 (min)		VW	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The 40 minute pH violation was reported by the IU on 9/27/2015. The cause of the violation was determined to be employee error. The IU responded to the violation by retraining employees, as verified during an inspection on 10/9/2015. The result of a subsequent sample collected by City on 10/28/2015 was in compliance.
					9/30/2015	OTHER	pH	5.2 (min)				6.0 (min)		WN	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The three minute pH violation was reported by the IU on 9/30/2015. The cause of the violation was determined to be inadequate treatment during maintenance of the caustic tank. The IU responded to the violation by repairing the broken pipe, as verified during an inspection on 10/9/2015. The pH chart recorder was also reviewed and no further violations were noted. The result of a subsequent sample collected by the City on 10/28/2015 was in compliance.

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Micrel, Inc. 1849 Fortune Dr San Jose, CA 95131 SJ-258A **Flow =** 176,236 40 CFR 469 Subpart A	IF/ IL	IL	CC	CC	10/28/2015	OTHER	pH	5.3 (min)				6.0 (min)		WN	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The two minute pH violation was reported by the IU on 10/28/2015. The cause of the violation was determined to be deviation from SOPs. The IU responded to the violation by re-training employees, as verified during an inspection on 12/2/2015. The pH chart recorder was also reviewed and no further violations were noted. The result of a subsequent sample collected by the City on 11/16/2015 was in compliance.
Micro-Chem, Inc. 2986 Oakmead Village Ct Santa Clara, CA 95051 SC-218B **Flow =** 231 40 CFR 433.17 Subpart A	IL	CC	IL	CC	10/27/2015	OTHER								VW	The violation was for failing to comply with a permit condition – failure to maintain pH monitoring equipment. The causes of the violation were determined to be equipment failure and employee error. The IU responded to the violation by cleaning and calibrating the pH probe, as verified during an inspection on 12/7/2015.

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Mohawk Packing, Div. of John Morrell 1660 Old Bayshore Hwy San Jose, CA 95112 SJ-373C **Flow =** 23,601 SIU based on flow	IL	IL	CC	CC	5/26/2015	OTHER	pH	5.0 (min)				6.0 (min)		WN	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The five minute pH violation was reported by the IU on 5/26/2015. The cause of the violation was determined to be overloading the treatment system. The IU responded to the violation by conducting trainings as well as installing ball valves on the cure tank drains, as verified during an inspection on 9/25/2015. The pH chart recorder was also reviewed and further pH violations were noted, resulting in additional enforcement actions.
					7/22/2015	IU	O&G	362				150		WN	The violation was for exceeding the local maximum allowable oil and grease concentration limit. The cause of the violation could not be determined. The IU responded to the violation by conducting an investigation but could not determine a cause. An inspection on 9/25/2015 verified the IU is maintaining the separator and following SOPs. The results of subsequent samples collected by the IU on 7/27/2015 and collected by the City on 8/26/2015 were in compliance.

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Mohawk Packing, Div. of John Morrell 1660 Old Bayshore Hwy San Jose, CA 95112 SJ-373C **Flow =** 23,601 SIU based on flow	IL	IL	CC	CC	7/25/2015	OTHER	pH	5.7 (min)				6.0 (min)		VW	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The four minute pH violation was reported by the IU on 7/25/2015. The cause of the violation was determined to be a dirty probe. The IU responded to the violation by cleaning the probe, as verified during an inspection on 9/25/2015. The pH chart recorder was also reviewed and further pH violations were noted, resulting in additional enforcement actions.
					9/25/2015	OTHER	pH	12.8				<12.5		WN	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The 40 minute pH violation was reported by the IU on 9/25/2015. The cause of the violation could not be determined. The IU responded to the violation by adjusting the caustic distribution. An inspection on 9/25/2015 verified the IU was maintaining the treatment system and following SOPs. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 10/27/2015 and collected by the IU on 11/12/2015 were in compliance.

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Mohawk Packing, Div. of John Morrell 1660 Old Bayshore Hwy San Jose, CA 95112 SJ-373C **Flow =** 23,601 SIU based on flow	IL	IL	CC	CC	11/18/2015	OTHER	pH	4.6 (min)		5.0 (min)		6.0 (min)		WN	The violation was for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder. The 10 minute pH violation was reported by the IU on 11/19/2015. The cause of the violation could not be determined. The IU responded to the violation by cleaning and calibrating the pH probe. The result of a subsequent sample collected by the City on 12/3/2015 was in compliance.
M-Pulse Microwave, Inc. 576 Charcot Ave San Jose, CA 95131 SJ-035B **Flow =** 246 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	CC	IF/ IL	IF/ IL	CC	3/30/2015	OTHER	pH	2.8 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The one and five minute pH violations were identified during an inspection on 8/24/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be inadequate maintenance of the neutralization system. The IU responded to the violations by cleaning the system and calibrating the pH probes, as verified during inspections on 10/19/2015, and 11/23/2015. The pH chart recorder was also reviewed and no further violations were noted.

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M-Pulse Microwave, Inc. 576 Charcot Ave San Jose, CA 95131 SJ-035B **Flow =** 246 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	CC	IF/ IL	IF/ IL	CC	4/13/2015	OTHER	pH	13.0				<12.5		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The one and five minute pH violations were identified during an inspection on 8/24/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be inadequate maintenance of the neutralization system. The IU responded to the violations by cleaning the system and calibrating the pH probes, as verified during inspections on 10/19/2015, and 11/23/2015. The pH chart recorder was also reviewed and no further violations were noted.
					6/1/2015	OTHER								WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be laboratory error. The IU responded to the violation by sampling for the missing parameters, as verified during an inspection on 8/24/2015.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)					
	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
M-Pulse Microwave, Inc. 576 Charcot Ave San Jose, CA 95131 SJ-035B **Flow =** 246 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	CC	IF/ IL	IF/ IL	CC	8/24/2015	OTHER								WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The one and five minute pH violations were identified during an inspection on 8/24/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be inadequate maintenance of the neutralization system. The IU responded to the violations by cleaning the system and calibrating the pH probes, as verified during inspections on 10/19/2015, and 11/23/2015. The pH chart recorder was also reviewed and no further violations were noted.

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Multitest 3021 Kenneth St Santa Clara, CA 95054 SC-301B **Flow =** 33,818 40 CFR 433.17 Subpart A	CC	CC	CC	IF/ IL	3/11/2015	OTHER	pH	4.7 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The two minute pH violation was identified during an inspection on 10/13/2015. The IU failed to report the pH violation within 24 hours. The causes of the violations were determined to be inadequate pH neutralization and insufficient employee training. The IU responded to the violations by retraining employees, as verified during an inspection on 10/13/2015. The pH chart recorder was also reviewed and no further violations were noted.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By	Para-meter	Samples in Violation						Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous			POTW/ IU/ OTHER		Reported Level (mg/L)		Discharge Limit (mg/L)					
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Multitest 3021 Kenneth St Santa Clara, CA 95054 SC-301B **Flow =** 33,818 40 CFR 433.17 Subpart A	CC	CC	CC	IF/ IL	10/13/2015	OTHER								WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The two minute pH violation was identified during an inspection on 10/13/2015. The IU failed to report the pH violation within 24 hours. The causes of the violations were determined to be inadequate pH neutralization and insufficient employee training. The IU responded to the violations by retraining employees, as verified during an inspection on 10/13/2015. The pH chart recorder was also reviewed and no further violations were noted.
PK Selective Metal Plating, Inc. 415 Mathew St Santa Clara, CA 95050 SC-013B **Flow =** 269 40 CFR 433.17 Subpart A	NS	CC	IF/ IL	CC	6/4/2015	OTHER								WN	The violations were for failing to comply with a permit condition – collecting samples at appropriate sample frequency and for late submittal of an SMR that was due on 6/30/2015, but was not received until 7/13/2015. The cause of the violations was determined to be a misunderstanding of the monitoring periods and due date. The IU responded to the violations by reviewing permit monitoring periods, due dates, and adjusting contract lab sampling frequencies. The IU has committed to timely submittal of reports in the future.

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Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/IU/OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
PK Selective Metal Plating, Inc. 415 Mathew St Santa Clara, CA 95050 SC-013B **Flow =** 269 40 CFR 433.17 Subpart A	NS	CC	IF/ IL	CC	7/13/2015	OTHER								WN	The violations were for failing to comply with a permit condition – collecting samples at appropriate sample frequency and for late submittal of an SMR that was due on 6/30/2015, but was not received until 7/13/2015. The cause of the violations was determined to be a misunderstanding of the monitoring periods and due date. The IU responded to the violations by reviewing permit monitoring periods, due dates, and adjusting contract lab sampling frequencies. The IU has committed to timely submittal of reports in the future.
Prodigy Surface Tech, Inc. 807 Aldo Ave, Suite 102 Santa Clara, CA 95054 SC-344B **Flow =** 94 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	CC	5/9/2015	OTHER	pH	5.4 (min)				6.0 (min)		WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The two minute pH violations were identified during an inspection on 8/4/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by monitoring the pH chart recorder more frequently as verified during an inspection on 10/8/2015. The pH chart recorder was also reviewed and no further violations were noted.

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Reporting Period 7/1/2015 to 12/31/2015

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Prodigy Surface Tech, Inc. 807 Aldo Ave, Suite 102 Santa Clara, CA 95054 SC-344B **Flow =** 94 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	CC	5/29/2015	OTHER	pH	5.2 (min)				6.0 (min)		WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The two minute pH violations were identified during an inspection on 8/4/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by monitoring the pH chart recorder more frequently as verified during an inspection on 10/8/2015. The pH chart recorder was also reviewed and no further violations were noted.
					8/4/2015	OTHER								WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The two minute pH violations were identified during an inspection on 8/4/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by monitoring the pH chart recorder more frequently as verified during an inspection on 10/8/2015. The pH chart recorder was also reviewed and no further violations were noted.

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QualTech Circuits, Inc. 1101 Comstock St Santa Clara, CA 95054 SC-345B **Flow =** 458 40 CFR 433.17 Subpart A	SNF/ IL	CC	CC	CC	10/31/2015	IU	Cd		0.09		0.07			WN	The violations were for exceeding the federal monthly average cadmium concentration limit and failure to report violations. The IU failed to report the cadmium violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation could not be determined. The IU responded to the violation by conducting an investigation but could not determine a cause. An inspection on 1/26/2016 verified the IU was back in compliance. The results of subsequent samples collected by the IU on 12/14/2016 and collected by the City on 1/6/2016 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
QualTech Circuits, Inc. 1101 Comstock St Santa Clara, CA 95054 SC-345B **Flow =** 458 40 CFR 433.17 Subpart A	SNF/ IL	CC	CC	CC	11/5/2015	OTHER								WN	The violations were for exceeding the federal monthly average cadmium concentration limit and failure to report violations. The IU failed to report the cadmium violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation could not be determined. The IU responded to the violation by conducting an investigation but could not determine a cause. An inspection on 1/26/2016 verified the IU was back in compliance. The results of subsequent samples collected by the IU on 12/14/2016 and collected by the City on 1/6/2016 were in compliance.
Sanmina Corp Plant I 2101 O'Toole Ave San Jose, CA 95131 SJ-022A **Flow =** 82,589 40 CFR 433.17 Subpart A	IF/ IL	CC	IF/ IL	CC	6/5/2015	OTHER								VW	The violation was for failing to comply with a permit condition – failure to maintain refrigerated sampler. The cause of the violation was determined to be technical difficulties with the sampler. The IU responded to the violation by completing modifications to the sampler, as verified during an inspection on 8/13/2015.

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Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Reported Level (mg/L) Max	Reported Level (mg/L) Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Sanmina Corp Plant I 2101 O'Toole Ave San Jose, CA 95131 SJ-022A **Flow =** 82,589 40 CFR 433.17 Subpart A	IF/ IL	CC	IF/ IL	CC	9/8/2015	POTW	Ni	0.59				0.5		VW	The violation was for exceeding the local maximum allowable nickel concentration limit. The cause of the violation could not be determined. The IU responded to the violation by auditing processes and confirming no sources of nickel are used or stored onsite. An inspection on 11/03/2015 verified there are no nickel producing processes. The results of subsequent samples collected by the City on 10/14/2015 and collected by the IU on 10/16/2015 were in compliance.
					11/3/2015	OTHER								WN	The violation was for improper use of diluting waters. The cause of the violation was determined to be Reverse Osmosis reject water discharging to the sample point. The IU responded to the violation by plumbing the diluting waters downstream of the sample point, as verified by photos submitted by the IU on 12/7/2015 and during an inspection on 1/7/2016.

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Reporting Period 7/1/2015 to 12/31/2015

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Siemens Water Technologies LLC 960 Ames Ave Milpitas, CA 95035 MI-065C **Flow =** 153,129 (on 06/03/15) SIU based on flow	CC	IF/ IL	IF/ IL	IF/ IL	6/30/2015	OTHER								WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was negligence by the IU. The IU responded to the violation by adjusting sampling schedules. The IU has committed to sampling within the designated monitoring period in the future.
					8/3/2015	OTHER								NV	The violation was for failing to comply with a permit condition – failure to notify of a significant change. A letter was received on 8/3/2015, confirming the IU change of ownership. The IU responded to the violation by submitting a Wastewater Discharge Permit Application on 8/28/2015. The IU was issued Wastewater Discharge Permit MI-145B on 11/6/2015.

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Silicon Microstructures 1701 McCarthy Blvd Milpitas, CA 95035 MI-108B **Flow =** 9,968 40 CFR 469 Subpart A	CC	IF/ IL	CC	NS	7/13/2015	OTHER	pH	4.9 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder. The 30 minute pH violation was reported by the IU on 7/13/2015. The cause of the violation was determined to be employee error. The IU responded to the violation by updating SOPs and retraining employees, as verified during an inspection on 7/14/2015. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the IU on 7/14/2015 and collected by the City on 7/15/2015 were in compliance.

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Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	3/24/2015	OTHER	pH	4.0 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	4/11/2015	OTHER	pH	12.8				<12.5		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	6/24/2015	OTHER	pH	5.6 (min)				6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	7/31/2015	OTHER	pH	3.6 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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	Current		Previous			POTW/ IU/ OTHER		Reported Level (mg/L)		Discharge Limit (mg/L)					
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	8/15/2015	OTHER	pH	1.9 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	9/21/2015	OTHER								NV	The violations were for late submittal of SMRs that were due on 2/28/2015 and 8/31/2015, but were not received until 10/5/2015 and 9/21/2015, respectively. The IU has committed to timely submittal of reports in the future.
					10/5/2015	OTHER								NV	The violations were for late submittal of SMRs that were due on 2/28/2015 and 8/31/2015, but were not received until 10/5/2015 and 9/21/2015, respectively. The IU has committed to timely submittal of reports in the future.

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Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level (mg/L) Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	10/5/2015	OTHER	pH	3.7 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para- meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	10/13/2015	OTHER	pH	3.4 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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San José-Santa Clara Regional Wastewater Facility

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Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	10/21/2015	OTHER	pH	5.6 (min)				6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	10/22/2015	OTHER	pH	5.3 (min)				6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	10/28/2015	OTHER	pH	5.1 (min)				6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

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	Q4 2015	Q3 2015	Q2 2015	Q1 2015		POTW/ IU/ OTHER		Max	Avg	Max	Avg	Max	Avg		
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	11/7/2015	OTHER	pH	13.2				<12.5		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Reported Level (mg/L) Max	Reported Level (mg/L) Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	11/9/2015	OTHER	pH	4.0 (min)		5.0 (min)		6.0 (min)		WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By	Para-meter	Samples in Violation						Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous			POTW/ IU/ OTHER		Reported Level (mg/L)		Discharge Limit (mg/L)					
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Solexel Inc. 1532 McCarthy Blvd Milpitas, CA 95035 MI-128B **Flow =** 64,853 (on 01/29/15) 40 CFR 469 Subpart A	SNF/ SNL	IF/ IL	IL	IF/ IL	11/16/2015	OTHER								WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. A total of 12 pH violations with durations of three to 25 minutes were identified during an inspection on 11/16/2015. The IU failed to report the pH violations within 24 hours. The causes of the violations were determined to be insufficient procedures and improper pH set points for the reject valve. The IU responded to the violation by retraining employees and adjusting the pH set points as verified during an inspection on 1/6/2016. The pH chart recorder was also reviewed and no further violations were noted. The results of subsequent samples collected by the City on 11/30/2015 and the IU on 12/15/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Streamline Circuits 1415 Richard Ave Santa Clara, CA 95050 SC-350A **Flow =** 80,712 40 CFR 433.17 Subpart A	CC	CC	IL	CC	6/25/2015	POTW	Cu	2.68				2.3		NV	The copper local maximum allowable concentration limit violation resulted from an Afterhours monitoring inspection. The grab sample was collected at 7:20 PM from the IU's sample point. The cause of the violation was determined to be insufficient treatment. The IU responded to the violation by more frequent in-house sampling and analysis for copper by test kit, Atomic Absorption, Oxidation Reduction Potential probe cleanings, and weekly equipment calibrations. An inspection on 9/25/2015 and 9/29/2015 verified the corrective actions were being implemented. The results of subsequent samples collected by the IU on 7/7/2015 and 7/17/2015, and collected by the City on 9/25/2015 and 9/29/2015, were in compliance.

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Superior Chrome 1616 Pomona Ave San Jose, CA 95110-3510 SJ-263B **Flow =** 149 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	CC	7/9/2015	OTHER								WN	The violation was for failing to comply with a permit condition – failure to maintain pH monitoring equipment. The cause of the violation was determined to be employee error. The IU responded to the violation by replacing the pH chart paper on 7/22/2015, as verified during an inspection on 9/1/2015.
Supertex, Inc. 71 Vista Montana Dr San Jose, CA 95134 SJ-398B **Flow =** 19,896 (on 03/04/15) 40 CFR 469 Subpart A	NS	SNL	CC	CC	7/9/2015	POTW	Ni	0.75				0.5		VW	The violation was for exceeding the local maximum allowable nickel concentration limit. The cause of the violation was determined to be negligence on the part of the IU. The IU responded to the violation by discontinuing categorical operations and ceasing discharge on 7/21/2015. An inspection on 8/20/2015 and 9/30/2015 verified the IU ceased discharge and removed the connection to the sanitary sewer. The IU was de-permitted in the third quarter of 2015.

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Swift Metal Finishing 1161 Richard Ave Santa Clara, CA 95050 SC-035B **Flow =** 1,336 40 CFR 433.17 Subpart A	IL	IF/ IL	CC	CC	9/11/2015	OTHER								WN	The violations were for failing to comply with permit conditions – collecting samples at appropriate sample frequency and for late submittal of an SMR that was due on 9/30/2015, but was not received until 10/19/2015. The cause of the violations was determined to be a misunderstanding of the reporting periods and due date. The IU responded to the violations by reviewing the permit required monitoring periods and due dates and updating calendar reminders. The IU has committed to timely submittal of reports in the future.
					10/19/2015	OTHER								WN	The violations were for failing to comply with permit conditions – collecting samples at appropriate sample frequency and for late submittal of an SMR that was due on 9/30/2015, but was not received until 10/19/2015. The cause of the violations was determined to be a misunderstanding of the reporting periods and due date. The IU responded to the violations by reviewing the permit required monitoring periods and due dates and updating calendar reminders. The IU has committed to timely submittal of reports in the future.

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THAT Corporation 505 Fairview Way Milpitas, CA 95035 MI-078B **Flow =** 2,292 40 CFR 469 Subpart A	CC	IF/ IL	CC	CC	9/21/2015	OTHER	pH	5.4 (min)				6.0 (min)		WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. Both one minute pH violations were identified during an inspection on 9/29/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be a broken backup pump and lack of employee training. The IU responded to the violations by servicing the pump and training employees, as verified during an inspection on 12/1/2015.
					9/29/2015	OTHER								WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. Both one minute pH violations were identified during an inspection on 9/29/2015. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be a broken backup pump and lack of employee training. The IU responded to the violations by servicing the pump and training employees, as verified during an inspection on 12/1/2015.

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The Newark Group, Inc. dba California Paperboard Corp. 525 Mathew St Santa Clara, CA 95050 SC-459B **Flow =** 241,042 40 CFR 430 Subpart J	IF/ IL	CC	NS	UN	10/8/2015	OTHER								WN	The violations were for failing to comply with a permit condition – collecting samples at appropriate sample frequency and for late submittal of an SMR that was due on 10/31/2015, but was not received until 11/18/2015. The cause of the violations was determined to be a misunderstanding of the monitoring periods and due date. The IU responded to the violations by reviewing permit monitoring periods and due dates and adjusting contract lab sampling frequencies. The IU has committed to timely submittal of reports in the future.
					11/18/2015	OTHER								WN	The violations were for failing to comply with a permit condition – collecting samples at appropriate sample frequency and for late submittal of an SMR that was due on 10/31/2015, but was not received until 11/18/2015. The cause of the violations was determined to be a misunderstanding of the monitoring periods and due date. The IU responded to the violations by reviewing permit monitoring periods and due dates and adjusting contract lab sampling frequencies. The IU has committed to timely submittal of reports in the future.

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United Supertek, Inc. 118 Charcot Ave San Jose, CA 95131 SJ-122B **Flow =** 35 40 CFR 433.17 Subpart A	IL	CC	NS	CC	11/17/2015	OTHER								VW	The violation was for late submittal of an SMR that was due on 10/31/2015, but was not received until 11/17/2015. The IU has committed to timely submittal of reports in the future.

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Vacuum Engineering & Materials Co. 390 Reed St Santa Clara, CA 95050 SC-443B **Flow =** 12 40 CFR 471 Subpart D	SNF/ IL	CC	NS	SNF	10/5/2015	OTHER								NV	The violations were for exceeding the federal monthly average and federal daily maximum copper concentration limits, failing to comply with a permit condition - collecting samples at appropriate sample frequency, and failure to report violations. The IU failed to report the violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violations was determined to be high copper in the incoming process water. The IU responded to the violations by conducting an investigation. collecting samples, and performing tests, as verified by an inspection on 1/22/2016. The results of subsequent samples collected by the IU on 12/8/2015 and collected by the City on 12/11/2015 were in compliance.

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Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current Q4 2015	Current Q3 2015	Previous Q2 2015	Previous Q1 2015	Date Violation occurred	Taken By POTW/IU/OTHER	Para-meter	Samples in Violation: Reported Level (mg/L) Max	Reported Level Avg	Discharge Limit (mg/L) Federal Max	Federal Avg	Local Max	Local Avg	Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
Vacuum Engineering & Materials Co. 390 Reed St Santa Clara, CA 95050 SC-443B **Flow =** 12 40 CFR 471 Subpart D	SNF/ IL	CC	NS	SNF	10/5/2015	IU	Cu	0.13		0.12				NV	The violations were for exceeding the federal monthly average and federal daily maximum copper concentration limits, failing to comply with a permit condition - collecting samples at appropriate sample frequency, and failure to report violations. The IU failed to report the violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violations was determined to be high copper in the incoming process water. The IU responded to the violations by conducting an investigation. collecting samples, and performing tests, as verified by an inspection on 1/22/2016. The results of subsequent samples collected by the IU on 12/8/2015 and collected by the City on 12/11/2015 were in compliance.

Compliance Status Key

SNF - Significant Noncompliance, Federal Limits
SNL - Significant Noncompliance, Local Limits
UN - Unknown
IL - Inconsistent Compliance, Local Limits
IF - Inconsistent Compliance, Federal Limits
NS - Not scheduled to be Sampled for Compliance
* - On Time Schedule (Dates)
CC - Consistent Compliance

Enforcement Action Key

WN - Warning Notice
VW - Verbal Warning
SC - Sewer Surcharge
REF - Referral
NV - Notice of Violation
AC - Administrative Citation
CM - Compliance Meeting

Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2015 to 12/31/2015

Facility Name and Address	Semi-Annual Compliance Status: Current		Semi-Annual Compliance Status: Previous		Date Violation occurred	Taken By (POTW/ IU/ OTHER)	Para-meter	Samples in Violation: Reported Level (mg/L)		Samples in Violation: Discharge Limit (mg/L)				Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Q4 2015	Q3 2015	Q2 2015	Q1 2015				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
Vacuum Engineering & Materials Co. 390 Reed St Santa Clara, CA 95050 SC-443B **Flow =** 12 40 CFR 471 Subpart D	SNF/ IL	CC	NS	SNF	10/31/2015	IU	Cu		0.13		0.07			NV	The violations were for exceeding the federal monthly average and federal daily maximum copper concentration limits, failing to comply with a permit condition - collecting samples at appropriate sample frequency, and failure to report violations. The IU failed to report the violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violations was determined to be high copper in the incoming process water. The IU responded to the violations by conducting an investigation. collecting samples, and performing tests, as verified by an inspection on 1/22/2016. The results of subsequent samples collected by the IU on 12/8/2015 and collected by the City on 12/11/2015 were in compliance.

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Vacuum Engineering & Materials Co. 390 Reed St Santa Clara, CA 95050 SC-443B **Flow =** 12 40 CFR 471 Subpart D	SNF/ IL	CC	NS	SNF	11/3/2015	OTHER								NV	The violations were for exceeding the federal monthly average and federal daily maximum copper concentration limits, failing to comply with a permit condition - collecting samples at appropriate sample frequency, and failure to report violations. The IU failed to report the violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violations was determined to be high copper in the incoming process water. The IU responded to the violations by conducting an investigation. collecting samples, and performing tests, as verified by an inspection on 1/22/2016. The results of subsequent samples collected by the IU on 12/8/2015 and collected by the City on 12/11/2015 were in compliance.

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Viasystems, Inc. 1831 Tarob Ct Milpitas, CA 95035 MI-014A **Flow =** 79,617 40 CFR 433.17 Subpart A	SNF/ SNL	CC	CC	CC	12/11/2015	OTHER								NV CM	The violation was for falsification of information. The cause of the violation was intentional action by the facility operator. The IU responded to the violation by training employees and terminating the employee responsible for the falsification. See 1/20/2016 Compliance Meeting for additional details. At a Compliance Meeting on 1/20/2016, the violation and Compliance Agreement were discussed. The IU responded to the violation by training employees, terminating the operator responsible for the falsification, and collecting samples for three months - February 2016, March 2016, and April 2016. In addition to these requirements, the IU was required to update and submit SOPs. An inspection on 1/29/2016 verified termination of operator, training, and updated SOPs.

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POTW's Compliance with Pretreatment Program Requirements

Information for this section can be found in the Pretreatment Program Changes section of the 2015 Annual Report.