San Diego County Regional Airport Authority

Fiscal-Year 2009-2010 Annual Illicit Discharge Detection and Elimination Report

December 2010

Municipal Stormwater Permit

Fiscal-Year 2009-2010 Annual IDDE Report

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Appendices

Statement of Certification for the Fiscal Year 2009-2010 Annual Report for the Illicit Discharge Detection and Elimination Component of The Airport Authority Storm Water Management Program

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

Date: December 6, 2010

Signature:

Printed Name: Paul Manasjan

Title: Director, Environmental Affairs Department

SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY

INTER-OFFICE COMMUNICATION

Date: June 27, 2003

To: Thella F. Bowens
President/CEO

From: Ted Sexton
Vice President, Operations

Subject: Authorization to Sign National Pollutant Discharge Elimination System (NPDES) Documents

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NPDES Permits (including General NPDES Permits) require submission of various reports and certifications, which must be prepared and signed by a principal executive office or duly authorized representative. A person is a duly authorized representative if: (1) the authorization is made in writing by the executive officer and (2) a copy of the authorization is retained as part of the permit records for each facility. The authorized representative must be the individual or position having overall responsibility for environmental matters.

This is to request your approval, evidenced by your signature below, authorizing the Director of Environmental Affairs for the Authority to serve as the duly authorized representative for purposed of executing all documents related to the NPDES Permit requirements.

Thella F. Bowens
President/CEO
San Diego County Regional Airport Authority

30 June '03
Date

Cc: Paul Manasjan, Director, Environmental Affairs
Zane Gresham, Morris & Foerster

SAN DIEGO INTERNATIONAL AIRPORT

Fiscal Year 2009-2010 Annual Report for the Illicit Discharge Detection and Elimination Component of the Airport Authority Storm Water Management Program

1 INTRODUCTION

The San Diego County Regional Airport Authority (Authority) submits this Fiscal Year 2009-2010 Annual Report for the Illicit Discharge Detection and Elimination Component of the Airport Authority Storm Water Management Program (FY09-10 Annual IDDE Report) in compliance with Addendum 2 to California Regional Water Quality Control Board, San Diego Region (RWQCB), Order No. R9-2007-0001, National Pollutant Discharge Elimination System (NPDES) Permit No. CAS0108758, Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds of the County of San Diego (County), the Incorporated Cities of San Diego County, the San Diego Unified Port District, and the San Diego County Regional Airport Authority (the Municipal Permit). Addendum 2 was adopted in September of 2008 and modified Section J.3.a of the Municipal Permit to require that, beginning 2008, the annual report containing the comprehensive description of all activities conducted to meet Section D.4 of the Permit be submitted on December 15 of each year and that the report cover the dry season of May 1 through September 30 of that year. In following the reporting outline created by the Copermittees, which puts illicit discharge detection and elimination (IDDE) in the same chapter as other monitoring efforts, this report describes specific stormwater management activities related to IDDE conducted by the Authority during the dry weather season of 2010 (May 1 through September

30) and the wet weather monitoring conducted during the period of July 1, 2009 to June 30, 2010 (fiscal year 2009-2010). These two efforts are collectively referred to as the Authority's Urban Runoff Monitoring Program.

The Authority owns and operates the San Diego International Airport (SDIA or SAN). The entire jurisdictional area of the Authority consists of the airport itself - approximately 660 acres, less than 2 miles northwest of downtown San Diego, and adjacent to San Diego Bay. More than 85% of the airport property is covered by impervious surfaces. Stormwater runoff from SDIA discharges into San Diego Bay through 14 storm drain outfalls.

Airport operations include two main airline terminals, a commuter terminal, a fixed base operation facility, one main runway area, taxiways, and ancillary support facilities which include a remote fueling facility, air cargo, ground support, a closed landfill site, an airplane wash-rack, overnight airplane parking areas, and the Airport Rescue and Fire Fighting (ARFF) facility. SDIA is located on State of California tidelands that are held in trust for the benefit of the citizens of California. As such, there is no private property and no residential population within the Authority's jurisdictional boundaries. SDIA lies within the Pueblo San Diego (908.00) hydrologic unit of the San Diego Basin Plan and within the San Diego Bay Watershed of the Municipal Permit.

The Municipal Permit specifies the waste discharge requirements for discharges of urban runoff from the MS4s of the jurisdictions named therein and referred to as the Copermittees. The Municipal Permit outlines the responsibilities of the Copermittees to implement stormwater management programs, best management practices (BMPs), and monitoring programs. The permit requires that these efforts be outlined in a Jurisdictional Urban Runoff Management Program (JURMP) Document. The Authority prepared a Storm Water Management Plan (SWMP) in March of 2008 to fulfill the Municipal Permit requirement to prepare a JURMP Document.

Section 9 of the SWMP describes the IDDE program conducted by the Authority. The IDDE program builds on several elements of the Authority's stormwater management program, which together create a comprehensive approach to preventing, detecting, and eliminating illegal discharges and illicit connections. The Authority has established the following program elements to detect illegal discharges and illicit connections: a) routine visual inspections of the entire airport and the MS4; b) implementation of a dry

weather monitoring program; and c) public reporting mechanisms. The program is designed to be adaptive and allow for: a) periodic assessment of the data and information collected; b) re-evaluation of areas of concern; and c) implementation of clean-up and/or enforcement efforts, as necessary.

The FY09-10 Annual IDDE Report presents a compilation of the Authority's stormwater illicit discharge detection and elimination management efforts as well as the Authority's wet weather monitoring program in the following order:

1 Introduction

2 Public Reporting of Illicit Discharges and Connections

3 Spill Reporting, Response, and Prevention

- 3.1 IDDE Reporting and Response
- 3.2 Sanitary Sewage Spill Prevention and Response
- 3.3 Used Oil and Toxic Materials Disposal

4 Urban Runoff Monitoring

- 4.1 Dry Weather Monitoring
- 4.2 Airport Wet Weather Monitoring

5 Follow-up and Enforcement

6 Program Review and Modification

The report has been prepared by the Authority Environmental Affairs Department with the assistance of the Facilities Management Department, the Landside Operations Department, the Airside Operations Department, the Facilities Development Department, and the Real Estate Management Department. These departments are responsible for the implementation of the SWMP for SDIA. Staff from these departments is integral to eliminating and reducing pollutants in stormwater runoff and to ensuring the Authority's compliance with the Municipal Permit.

2 PUBLIC REPORTING OF ILLICIT DISCHARGES AND CONNECTIONS

Authority regulations prohibit illegal discharges and illicit connections. Along with the Environmental Affairs Department's stormwater inspection program, Authority staff and airport tenants play an important role in the detection of illegal discharges and illicit connections. Education and outreach efforts for Authority staff and airport tenants are directed at stormwater pollution prevention, including the detection and elimination of illegal discharges/illicit connections. As noted in previous Annual Reports and the SWMP, the Authority continues to exercise and promote the mechanisms available to staff, tenants, and the general public for reporting complaints or concerns regarding unauthorized stormwater discharges and illicit connections as described in Section 9 of the SWMP. There are four primary mechanisms available for reporting complaints or concerns: the Airside Operations Department 24-hour telephone line (619-400-2710); the Environmental Affairs Department main telephone line (619-400-2782) and webpage; the Project Clean Water regional hotline (888-846-0800) and webpage operated by the County of San Diego; and the THINKBLUE Hotline (888-844-6525) and webpage operated by the City of San Diego.

The two regional hotline efforts of the Municipal Copermittees, Project Clean Water and THINKBLUE, are designed to provide publicly reported illegal discharge/illicit connection information to the appropriate jurisdictions, such as the Authority. In turn, the Authority promotes both Project Clean Water and THINKBLUE at outreach and training events.

The Authority webpage provides another mechanism for staff, tenants, and the general public to contact the Environmental Affairs Department regarding stormwater concerns. The webpage provides background information on the SWMP, the IDDE program, and both telephone numbers and e-mail addresses for the Environmental Affairs Department.

The Airside Operations Department 24-hour telephone number functions as a hotline for airport tenants and Authority staff to report stormwater pollution concerns. This telephone number is promoted to tenants and staff by including the telephone number on the back of all required Airport Security ID badges. The general public is also redirected to this number anytime they pick up an airport white courtesy phone located throughout the airport terminals. Most of the unauthorized stormwater discharge issues that require notification or response of any kind are initially reported to the

Airside Operations Department 24-hour telephone line. Each call is logged and directed to the appropriate department for immediate response. While the Environmental Affairs Department need not always be contacted directly for response actions, the Environmental Affairs Department monitors the log as part of the SWMP IDDE program.

During FY09-10, there were a total of 140 IDDE events identified as a part of the stormwater inspection program, or reported to the Authority using either the telephone numbers or the web pages noted above. These 140 IDDE events are discussed further in Section 3.1 below and listed in Appendix A.

3 SPILL REPORTING, RESPONSE, AND PREVENTION

In order to ensure the health and safety of the 17 million plus members of the traveling public that pass through SDIA annually, the airport facilities are under constant visual and electronic surveillance by several different Authority Departments, including Airside Operations, Landside Operations, and Airport Security and Public Safety. SDIA is under 24-hour surveillance due in large part to the heightened security measures put in place after September 11, 2001. The concerns for safe operation of the facilities and early detection of suspicious activity allow for virtually every action to be subject to visual observation and reporting, including any activity or incident that may be an environmental or stormwater management concern, such as a fuel spill during aircraft fueling operations or an overfilled trash can in the parking lot.

The constant surveillance at SDIA includes the routine daily inspections of the airport terminals, runways, and airside operations by the Airside Operations Supervisors. These inspections are one element of the IDDE program, since any environmental issues are both reported to the Environmental Affairs Department and captured in the SDIA daily log.

The Environmental Affairs Department conducts monthly inspections of the entire facility and the above-ground portions of the MS4 during the wet season (October 1 - May 31). These inspections are designed to identify unauthorized stormwater discharges and to ensure that BMPs are being implemented properly and operating as designed. The Environmental Affairs

Department also conducts visual observations of non-stormwater discharges on a quarter-annual basis. The information in Table 1 highlights the regular inspection activities conducted by the Environmental Affairs Department during the reporting period.

Taken as a whole, these surveillance and inspection activities represent the site-wide and MS4-specific inspection elements of the IDDE program at SDIA.

TABLE 1 - IDDE MS4 INSPECTION AND MONITORING CONDUCTED DURING FY09-10

Date	Inspection Element
9/29-30/09	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
12/7/09	Monthly Wet Weather Visual Observations – samples collected
12/15-16/09	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
1/18/10	Monthly Wet Weather Visual Observations – samples collected
02/27/10	Monthly Wet Weather Visual Observations
3/6/10	Monthly Wet Weather Visual Observations
3/26/10 & 3/29/10	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
4/5/10	Monthly Wet Weather Visual Observations
April – May 2010	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
5/18/10	Dry Weather Monitoring (2010 Dry Weather Season)
6/15/10	Dry Weather Monitoring (2010 Dry Weather Season), sampling and follow up for 5/18/10 sampling event
7/14/10	Dry Weather Monitoring (2010 Dry Weather Season), sampling and follow up for 6/15/10 sampling event
8/12/10	Dry Weather Monitoring - follow-up to 7/14/10 sampling event

3.1 IDDE REPORTING AND RESPONSE

Appendix A presents information on the 140 IDDE events which were identified during a routine inspection or reported to the Authority's 24-hour telephone line or reported directly to the Environmental Affairs Department during the reporting period. The Environmental Affairs Department

classified each incident into one of the nine categories shown in Table 2. The nature and disposition of all 140 IDDE incidents noted in Table 2 are presented in Appendix A.

TABLE 2 - SUMMARY OF IDDE INCIDENTS BY CATEGORY AS REPORTED DURING FY09-10*

Incident Category	Number of Incidents*
Improper Storage	43
Trash Spill - Airside	34
Trash Spill - Landside	25
Petroleum Spill - Airside	15
Sewage/Triturator	10
Construction Maintenance	5
Petroleum Spill - Landside	4
Integrated Pest Management	3
Unauthorized Discharge	1

*See Appendix A for detailed descriptions of each incident.

The most frequently reported type of incident was improper storage, comprising 31% of the total. "Improper Storage" was a new category added to the Authority's IDDE event tracking list last fiscal year after an evaluation of our inspection program data. This issue is partially related to a lack of indoor storage area available for use by airport tenants. The Authority has tried to focus education opportunities on this issue and will continue to track improper storage as an IDDE event in order to improve implementation of proper best management practices related to material and waste storage.

Incidents related to trash and non-petroleum spills that occurred on the airside were the second most frequently reported type of IDDE event, comprising 24% of the total. The "Trash-Spill Airside" IDDE category has been one of the most frequently reported issues for many of the last seven fiscal years. This trend is related to the Authority's (and the entire aviation community's) concern for trash and debris on the airside as serious threats to the safe operation of a jet engine. Therefore, people working on the airside are keenly aware of issues involving trash and debris. Another reason for the

trend is that two of the four Solid Waste Disposal Areas are on the airside, which increases the chances that a "trash or non-petroleum spill" will occur on the airside.

Trash and non-petroleum spills that occurred on the landside comprise 18% of the total number of events listed in Table 2. The "Trash -Spill Landside" IDDE category has historically also been one of the more frequently reported issues. This is partially reflective of the impact that approximately 60,000 people a day coming to the airport can have on the facility and also reflects the constant vigilance and scrutiny of Authority staff and airport tenants on site conditions.

Petroleum spills on the airside were the fourth most frequently reported type of IDDE event, comprising 11% of the total. Approximately 400,000 gallons of jet fuel are transferred from tanker trucks to aircraft every day. The number of petroleum spill reports reflects the sensitivity of Authority staff and airport tenants to the fire hazard and environmental concerns associated with these types of spills. The majority of these spills are less than five gallons and all spills are cleaned up immediately.

The sewage related IDDE issues listed in Table 2 comprise 7% of the total, which is the same percentage as last fiscal year. These incidents are discussed in Section 3.2 below.

Construction maintenance incidents, petroleum spills that occurred on the landside and issues related to the Authority's Integrated Pest Management (IPM) program represented 4%, 3%, and 2% of the total, respectively. Only one incident categorized as an "unauthorized discharge" occurred during FY09-10 and this represented less than 1% of the total. Relevant aspects of any significant spills or releases are discussed below in Section 5.

3.2 SANITARY SEWAGE SPILL PREVENTION AND RESPONSE

Section 6.5 of the SWMP identifies those controls that the Authority has implemented to limit infiltration from the sanitary sewer system into the stormwater conveyance system and to prevent and respond to sewage spills. As noted in Table 2 above and as detailed in Appendix A, there were 10 IDDE incidents related to sewage at SDIA during the reporting period, as compared to 14 last fiscal year. Two of these incidents involved the triturator,

which is part of the sewage disposal system used to discharge waste from aircraft lavatories into the City of San Diego Metropolitan Waste Water Department sewer system. The triturator is housed in a covered and bermed building in order to ensure that no sewage is discharged outside the actual sewer connection point. Sewage is emptied from the aircraft into mobile lavatory trucks and then into the sewer system at the triturator via a connection hose. The two IDDE incidents at the triturator involved evidence that lavatory waste had been trailed out of the containment area by the lavatory waste truck. Each of these issues was addressed immediately, the spills were cleaned up, and neither of these events impacted the stormwater conveyance system.

Of the eight remaining IDDE sewage incidents that did not involve the triturator, seven involved sewage leaks from buildings or the sanitary sewer line on the landside and airside. One incident involved a leaking port-a-potty in a parking lot. Each of these issues was addressed immediately, the spills cleaned up, and the problems corrected. None of these eight IDDE incidents related to sewage impacted the stormwater conveyance system.

3.3 USED OIL AND TOXIC MATERIALS DISPOSAL

Section 9.3.1 of the SWMP discusses spill prevention and proper materials storage and handling. SWMP Section 9.3.1 also refers to the BMPs required for use at the airport that are related to material storage, handling, and spill response. These BMPs describe the mechanisms required for use by the Authority which facilitate the proper management and disposal of used oil and toxic materials. Like the Authority itself, airport tenants are required to dispose of these materials through licensed handlers. The Authority provides information to tenants to help facilitate their own disposal needs, when asked or when necessary. Additionally during FY09-10, the Authority hosted electronic and universal waste collection events on August 20-21, 2009, January 21, 2010, and April 23, 2010. These three events were open to all Authority staff and airport tenants. The event allowed staff and tenants to relinquish electronic and universal waste (such as batteries and fluorescent light bulbs) for proper recycling or disposal. Table 3 lists the hazardous materials disposed of by the Authority during FY09-10, a portion of which includes the universal waste collected at the electronic and universal waste collection events.

TABLE 3 - HAZARDOUS WASTES DISPOSED OF BY THE AUTHORITY DURING FY09-10

Description of Waste	Quantity Disposed
Hazardous Waste, Solid	1,222 lbs
Hazardous Waste, Corrosive Liquid	31 gal
Hazardous Waste, Aerosols, Flammable	130 lbs
Hazardous Waste, Flammable Liquid (Paints and Thinners)	454 gal
Asbestos and Non-friable Waste	4,190 lbs
Non-RCRA Hazardous Waste, Solid (Absorbent, Soil, Toner, and Debris)	117,440 lbs
Non-RCRA Hazardous Waste, Solid (Oily Debris and/or Diesel)	2,200 lbs
Non-RCRA Hazardous Waste, Liquid	3,815 gal
Non-Hazardous Waste, Solid (Soil)	16,615 lbs
Non-Hazardous Waste, Liquid (Rinse Water)	380 gal
Waste Flammable Solid, Organic	2,850 lbs
Universal Waste (Fluorescent Lamps, Monitors, Alkali and/or Rechargeable Batteries)	6,435 lbs

4 URBAN RUNOFF MONITORING

The Authority conducts or participates in urban runoff monitoring programs to meet requirements of the Municipal Permit. Several of these programs are carried out collectively and reported on separately by the Copermittees. The Authority conducts two stormwater monitoring programs at the airport: a dry weather monitoring program and an Airport wet weather monitoring program. Information relevant to these two programs during FY09-10 is presented below.

4.1 DRY WEATHER MONITORING

The Municipal Permit requires the Authority to develop a program that can identify non-stormwater illegal discharges/illicit connections. The Permit requires observations and water quality analysis of dry weather flows between

June and September as a part of the dry weather monitoring program. Appendix D of the SWMP presents the dry weather monitoring program developed for the airport (see SWMP Appendix D-1).

The dry weather monitoring program allows the Authority to characterize dry weather flows at SDIA, to eliminate illegal discharges and illicit connections, and to help identify pollutants of concern (POCs). The Authority's dry weather monitoring program utilizes monitoring, sample analysis, and data interpretation procedures consistent with those developed by the Copermittees. The program features designated monitoring locations and frequencies, field screening/sampling procedures, data interpretation techniques, and follow-up investigation and reporting procedures. The Permit requires the Authority to perform dry weather monitoring at least once between May 1 and September 30 each year. However, over the last five seasons, the Authority has increased the number of monitoring events to three each season and has timed these events to coincide with dry weather sampling being conducted by the Port of San Diego and the City of San Diego on the same day. This coordinated monitoring is done in order to more effectively identify potential illicit discharges that may cross jurisdictional boundaries and better facilitate upstream source identification.

The Authority has implemented a dry weather monitoring program since 2003. Over the past seven years, the dry weather monitoring program has been continuously evaluated and improved to represent the land use activities at the Airport. The program originally started with four dry weather monitoring locations, but was expanded to ten locations in FY06-07. The dry weather monitoring stations are evaluated and adjusted, if needed, at the beginning of each dry season to ensure that land use and other operational activities are properly evaluated and represented. During the 2010 dry weather monitoring season, two sites could not be sampled due to construction activity (namely CB01-1 and CB12-9) and alternate sites used. There were three dry weather monitoring events scheduled during the 2010 dry weather season; May 18, 2010, June 15, 2010, and July 14, 2010. There were also three follow-up investigations for the 2010 dry weather season conducted in response to the lab results from the initial dry weather monitoring events. Follow ups were conducted on June 15, 2010 for the May monitoring event, July 14, 2010 for the June monitoring event, and August 12, 2010 for the July monitoring event.

Samples were taken at all sites with flowing or ponded water. Due to the airport's proximity to San Diego Bay, tidal intrusion is common within the Authority's MS4, and therefore conductivity is the first field parameter measured. If the specific conductance of the sample was high enough to suggest that the sample was likely seawater, then the sample was not subjected to additional field screening or laboratory analysis.

Each site was also subject to an evaluation of how much trash was present at the site during each monitoring event based on a five level rating system. The rating system, developed by the Copermittees, is described below.

Optimal - On first glance, no trash visible. Little or no trash (<10 pieces) evident when area is closely examined for litter and debris.

Suboptimal - On first glance, no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.

Marginal - Trash is evident in low to medium levels (~50-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.

Submarginal - Trash distracts the eye on first glance. Evaluated area contains substantial levels of littler and debris (>100-400 pieces). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.

Poor - Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

At the Airport, trash is considered "foreign object debris (FOD)" and can easily become a serious safety hazard for aircraft and particularly jet engines. Anyone working on the airside is trained to be especially mindful of, to be vigilant for, and to pick up FOD. This mind set is reflected in the fact that 80% of our sites received optimal ratings during all three monitoring events and none of the sites received below a suboptimal rating during any of the monitoring events.

The field data sheets and analytical data reports for the each of the dry weather monitoring events are discussed below and presented in Appendix B.

Site CB01-1 – due to construction an alternate site in the same vicinity was used for the 2010 dry weather monitoring events. The site was dry and no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During the May 18, 2010 and June 15, 2010 monitoring events, sediment and gravel were present in the catch basin. No other field characteristics were noted during any of the three monitoring events. Because the site was dry each time, no further field analyses or laboratory analyses were performed.

Site CB03-2 – no overland flow was observed but water was present and the site was determined to be tidally influenced during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. The results of conductivity testing conducted during the June 15, 2010, and July 14, 2010 monitoring events suggested that the water resulted from seawater intrusion; therefore, no further field analyses were conducted and no laboratory analyses were performed. During the May 18, 2010 monitoring event, field analysis showed the water to be brackish, but the field conductivity measures read lower than usually observed in past experiences. Field screening was conducted and pH seemed abnormally low at 6.02. Lab samples, including pH, were collected to investigate the inconsistency. Laboratory samples collected resulted in no exceedence and the lab reported pH as 6.72. Since the field pH meter had been calibrated, the discrepancy in pH could have resulted from the lag time between the insitu measurement and the lab analysis, which was a few hours later. Based on the lower than normal pH and the low conductivity, it was thought that potentially dust control water from the nearby taxiway construction project was having an impact on this catch basin. However, when a visual investigation was conducted for possible sources, none were identified. Since there were no other exceedances reported by the laboratory and the pH issue was not repeated as a part of any of the subsequent monitoring events, impacts from the construction project were ruled out and no follow-up monitoring nor analyses were performed.

Site CB05-3 - this site is located in the middle of a large gravel parking lot on the north side of the airport property. A water truck is employed during the dry season to control dust at the parking lot. Ponded water, likely due to the watering truck, was observed during all three monitoring events; namely, May 18, 2010, June 15, 2010, and July 14, 2010. During the June 15, 2010, and July 14, 2010 monitoring events, sediment/gravel was observed in the catch basin

but no other field characteristics were noted during any of the three monitoring events. Field screening on all three days showed no action level exceedances and, therefore, laboratory analyses were not necessary.

Site CB05-4 - no overland flow was observed but water was present during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During all three monitoring events sediment/gravel and fine particulates were observed in the catch basin. Based on the high level of conductivity measured at this site, which suggested that the water present was seawater, the site was determined to be tidally influenced and no further field analyses or laboratory analyses were performed.

Site CB06-5 – the site was dry and no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During the May 18, 2010 monitoring event fine particulates were present and during the June 15, 2010 event sediment and gravel were present in the catch basin. No other field characteristics were noted during any of the three monitoring events. Because the site was dry, no further field analyses or laboratory analyses were performed.

Site CB07-6 – no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. The site was noted as moist but with no ponded water on May 18, 2010, and June 15, 2010, and dry for the July 14, 2010 monitoring event. Fine particulates were observed in the catch basin during all three events, with insects noted in May and sediment/gravel noted in July. Because the site was dry, no further field analyses or laboratory analyses were performed.

Site CB07-7 - the site was dry and no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During the June monitoring event sediment/gravel were observed and during the July event fine particulates were observed. No other field characteristics were noted during any of the three monitoring events. Because the site was dry, no further field analyses or laboratory analyses were performed.

Site CB08-8 – ponded water was present during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events and the August 12, 2010 follow up event. The ponded water at the site ranged in color from yellow to brown, was slightly cloudy to opaque, and trash, sheen, and oily deposits were present. During all four events there was evidence of overland flow. During

the May and August events the odor at the site was musty and insects and fine particulate were present. A chemical and sewage odor was noted during the July monitoring event. For all monitoring events, reconnaissance was conducted at the time, but no potential sources were identified. Follow-up field visits were conducted on June 15, 2010, July 14, 2010, and August 12, 2010, in response to the lab results from the initial monitoring events. The May 18, 2010 field screening resulted in excess ammonia and MBAS, however, due to the color of the water, confidence in the field screening was low. Analytical laboratory samples were therefore taken and exceedences for cadmium, copper, and zinc were reported. The June 15, 2010 field screening resulted in excess ammonia, nitrate, and MBAS, however, due to the color of the water, confidence in the field screening was again low. Analytical laboratory samples were therefore taken and exceedences for cadmium, copper, zinc, lead, enterococcus, fecal and total coliform were reported. The July 14, 2010 field screening resulted in excess ammonia and phosphorus, however, confidence in the field screening was once again low due to the color of the water. Analytical laboratory samples were therefore taken and exceedences for cadmium, copper, and zinc were reported. On August 12, 2010, a set of follow up samples to test for cadmium, copper, and zinc were collected and resulted in exceedances for copper and zinc only. Although none of the investigations found evidence of an illegal discharge in the vicinity, nor identified upstream sources, the source of the ponded water at this site is likely the potable water flushed from the hoses at each gate that deliver potable water to the airplanes. The manufacture of the potable water supply system instructs the airline ramp crews to flush the hose before filling the plane. It is likely that this water carries some pollutants into the slit trench storm drains at this location, which then become pooled in the low spots of the conveyance. This may concentrate the pollutants in the bottom of the slit trench storm drains where the samples are taken.

Site CB12-9 - alternate site SB12-13 was monitored during the 2010 dry weather season, since construction activity made CB12-9 inaccessible. No evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. The site was wet during all three events but there was not enough water present to sample. Sediment/gravel was observed in the catch basin during the May event and fine particulates were observed in June. No further field analyses or laboratory analyses were performed at this site during any of the monitoring events.

Site CB09-10 – the site was dry during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. No evidence of overland flow was observed in May or June when the catch basin was dry. However, evidence of irrigation runoff was observed during the July monitoring event, although no water was present in the catch basin. Insects were observed in the catch basin during all three monitoring events, and sediment and gravel were observed in June. No further field analyses or laboratory analyses were performed at this site during any of the monitoring events.

Table 4 lists the dry weather monitoring stations by Site ID, includes a brief description of the location, indicates on which dates, if any, there was a sufficient volume of water was present to allow sampling (whether field analysis and/or laboratory analyses, once field analyses ruled out the likelihood that the water was the result of salt water intrusion), and notes the potential POCs identified as a result of sampling and analysis.

During the 2010 dry weather season, there were three sites at which a sufficient volume of water was present to allow sampling, once field analyses ruled out the likelihood that the water was the result of salt water intrusion, namely, CB03-2, CB05-3, and CB08-8. As noted below, there were no unauthorized discharges identified as a result of the dry weather monitoring activities conducted during the 2010 dry weather monitoring season.

Field sampling of the ponded water at Site CB03-2 historically has shown that the site is tidally influenced. This was reaffirmed at both the June and July monitoring events at this site. During the May monitoring event, field analysis showed the water to be more brackish than clearly tidal. Field screening was conducted and pH seemed abnormally low, so samples were collected for laboratory analyses to investigate the inconsistency. Laboratory sample results showed no exceedences, and the lab reported the pH to be near normal at 6.72. None of the investigations found evidence of an illegal discharge in the vicinity of CB03-2 nor conclusively identified possible upstream sources that would account for the anomaly. Because the lab reported no other exceedances, and the pH was normal at the two subsequent monitoring events, no further investigations were conducted and no further field analyses or laboratory analyses were performed.

Field sampling of the ponded water at Site CB05-3 did not exceed action levels during all three monitoring events during the 2010 dry weather season. As such, there was no requirement to collect a sample for laboratory analysis. The results for Site CB05-3 are similar to the results from the FY08-09, FY07-08 and FY06-07 dry weather monitoring programs.

Site CB08-8 had ponded water during the three regularly-scheduled monitoring events, as well as a fourth follow up event in August. Laboratory analyses were performed for all four events of the 2010 dry weather season at this site, because results from the field test kits could not be interpreted and/or were inconclusive due to the color of the water collected. The laboratory data for all four of the 2010 monitoring events at Site CB08-8 showed exceedances for copper and zinc, with three events also showing exceedances for cadmium, and one event showing exceedances for enterococcus, fecal coliforms and total coliforms. The laboratory results suggesting copper and zinc as potential POCs are consistent with the results of the Authority's wet weather monitoring program. The exceedances at this site are thought to be partially attributable to water that reaches the slit trench storm drains at this location. That water source appears to be the potable water hoses used by the airline ramp crews to fill aircraft. This water potentially carries some pollutants into the slit trench storm drains, where it can pool and concentrate pollutants in the low spots of the conveyance system, where the monitoring samples are collected. These slit trench storm drains are currently cleaned on a quarterly basis and efforts are being made to implement additional BMPs, as necessary, to control these pollutants and prevent them from reaching the receiving waters.

TABLE 4 - DRY WEATHER MONITORING PROGRAM SAMPLE SITES DURING FY09-10

Site ID	Site Description	Monitoring / Sampling Dates	Type of Analyses (S, F, L)	Potential Pollutant(s) of Concern Identified
CB01-1**	Alternate site to the north west of CB01-1 was used due to construction	5/18/10		
		6/15/10		
		7/14/10		
CB03-2	Grated inlet inside zipper line, south of runway, near B1-D sign	5/18/10*	F, L	
		6/15/10* (routine investigation and follow up)	S	
		7/14/10*	S	
CB05-3	Grated inlet within the rental car holding lot	5/18/10*	F	
		6/15/10*	F	
		7/14/10*	F	
CB05-4	Grated inlet, south of runway, north of generator yard	5/18/10*	S	
		6/15/10*	S	
		7/14/10*	S	
CB06-5	Grated inlet southeast of control tower	5/18/10		
		6/15/10		
		7/14/10		
CB07-6	Inlet pipe, in manhole west of oil water separator in cargo area	5/18/10		
		6/15/10		
		7/14/10		
CB07-7	Grated inlet south of cargo area, west of West Wing	5/18/10		
		6/15/10		
		7/14/10		

Site ID	Site Description	Monitoring / Sampling Dates	Type of Analyses (S, F, L)	Potential Pollutant(s) of Concern Identified
CB08-8	Grated inlet northwest of Terminal 1 East, across from Gate 8	5/18/10*	F, L	Cadmium, Copper, and Zinc
		6/15/10* (routine investigation and follow up)	F, L	Cadmium, Copper, Zinc, Lead, Enterococcus, Fecal and Total Coliform
		7/14/10*(routine investigation and follow up)	F, L	Cadmium, Copper, and Zinc
		8/12/10* (follow up)	L	Copper and Zinc
CB12-9**	Alternate site SB12-13 used due to construction	5/18/10		
		6/15/10		
		7/14/10		
CB09-10	Manhole near Terminal 2 Parking Entrance, on north side	5/18/10		
		6/15/10		
		7/14/10		

* Site had sufficient water to sample

**Alternate site used due to construction

S = Sample conductivity suggests seawater and no further analyses conducted.

F = Field analyses conducted.

L = Laboratory analyses conducted.

4.2 AIRPORT WET WEATHER MONITORING

The Authority has developed a wet weather monitoring program to address three objectives: 1) to comply with the General Industrial Permit requirements applicable to the airport; 2) to identify and characterize POCs; and 3) to measure BMP effectiveness. The wet weather monitoring program is described in detail in Appendix D.2 of the SWMP. The monitoring program includes three sampling elements designed to address the three objectives of the program:

Compliance sampling - performed to comply with the General Industrial Permit; and

Source identification sampling - a multi-year effort performed to identify and rank sources of POCs at SDIA in terms of annual mass loading in stormwater, identify the potential for reduction in the concentrations of these POCs through BMP implementation, and identify that combination of sources best addressed through BMP implementation to achieve pollutant load reduction objectives; and

BMP Effectiveness sampling - a multi-year effort to monitor the performance and effectiveness of BMPs. Structural and non-structural BMP performances are being evaluated at locations that receive runoff from both industrial and non-industrial drainage basins to assess whether the BMPs are reducing pollutant concentrations (for both primary and secondary POCs) below benchmark values and whether BMPs are achieving the short-term and long-term pollutant load reduction objectives developed by the Authority for the primary POCs at SDIA (specifically, copper and zinc).

The sampling locations for the wet-weather monitoring program are described in Appendix D-2 of the SWMP. The sampling locations selected for compliance monitoring are the same 10 sites used in the dry weather monitoring program and listed in Table 4 above. There are fourteen sampling locations used in the source identification monitoring effort to characterize the quality of non-industrial stormwater runoff associated with vehicle and aircraft use and emissions, atmospheric deposition, and galvanized metal structures, particularly metal roofs. For BMP effectiveness monitoring, 7 sampling locations were selected from the 14 source identification sampling locations to minimize the number of sampling locations, while maintaining the statistical strength of program.

The results of the FY09-10 wet weather monitoring program were detailed by MACTEC Engineering and Consulting, Incorporated, in a report entitled "2009-2010 Storm Water Sampling Summary Report," and dated September 2010. In FY09-10, sampling was only performed for the Compliance and BMP Effectiveness portions of the wet-weather monitoring program. Sampling for Source Identification analysis was completed in the previous sampling seasons (2006-2007 and 2007-2008) and discussed in previous annual reports. The FY09-10 wet weather season resulted in a total rainfall of 10.53 inches at SDIA, which is slightly more than the annual total average rainfall of 10.2 inches. During the FY09-10 wet weather season, sampling activities were performed during six storm events. Table 5 provides a summary of the total rainfall and duration of each of these six storms.

TABLE 5 - FY09-10 SAMPLED STORM EVENT SUMMARY

Event	Date	Total Rainfall (inches)	Event Duration (hours)
1	12/7/09	1.33	11.1
2	12/11/09	0.07	8.9
3	1/18/10	1.02	17.5
4	1/26/10	0.07	4.9
5	2/5/10	0.68	24
6	2/19/10	0.30	8.3
Total Rainfall from Monitored Events		3.47	

COMPLIANCE SAMPLING

The compliance sampling element of the program was completed during the first three storm events of the season, which occurred December 7, 2009, December 11, 2009, and January 18, 2010. A sample was not collected from site CB03-2 during the December 11th storm event due to an equipment failure, so a sample was collected at this site during the January 18th storm event. A total of 20 compliance samples were collected over the two storm events at 10 sampling sites. A summary of the results, showing median, maximum, and minimum values, along with the coefficient of variance, is presented in Table 6.

Table 7 shows a comparison of the median concentrations for the compliance sampling program POCs to the benchmarks concentrations, as well as the number of benchmark exceedances that occurred. Oil and grease, total suspended solids, total lead and ethylene glycol did not exceed the benchmarks. Total zinc, dissolved copper and total copper had exceedance frequencies of 80%, 90%, and 100% respectively. Ammonia, total aluminum, and dissolved zinc had exceedance frequencies of 50%, 50%, and 65% respectively. The remaining POCs exceeded the benchmarks in 45% or less of the samples. These results are consistent with historical data for POCs at SDIA.

TABLE 6 - FY09-10 COMPLIANCE SAMPLING ANALYTICAL RESULTS SUMMARY

Pollutant of Concern	Units	Median	Coefficient of Variance (%)	Maximum Value	Minimum Value	Number of Samples
Ammonia as N	mg/L	2.28	58.9	6.7	0.9	20
BOD	mg/L	27.6	76.5	89	ND[a]	20
COD	mg/L	100.5	77.6	325	5	20
SC	µmhos/cm	248.5	129.0	2220	56	20
Oil & Grease	mg/L	1.0	51.6	3.1	ND[a]	20
pH	pH Units	7.18	10.7	9.96	6.35	20
TSS	mg/L	16.5	65.0	42	2	20
Aluminum, Total	µg/L	750	105.4	4,300	56	20
Copper, Total	µg/L	135	114.4	910	23	20
Iron, Total	µg/L	915	92.0	4,400	ND[a]	20
Lead, Total	µg/L	6.05	92.5	24	ND[a]	20
Zinc, Total	µg/L	225	91.9	1,200	24	20
Copper, Dissolved	µg/L	98.5	129.5	850	9.8	20
Zinc, Dissolved	µg/L	165	104.0	1,100	9.7	20
Ethylene Glycol	mg/L	5	0	ND[a]	ND[a]	20
Propylene Glycol	mg/L	5	0	17.3	ND[a]	20
MBAS	mg/L	0.15	48.4	0.31	ND[a]	20
Diesel Range Organics	mg/L	0.025	0	ND[a]	ND[a]	20
Jet-A	mg/L	0.405	87.3	1.5	ND[a]	20
Oil Range Organics	mg/L	0.575	96.0	2.7	ND[a]	20

(a) Half of the detection limit was used as the data point for statistical analysis of results that were not detected.

TABLE 7 - COMPARISON OF FY09-10 COMPLIANCE SAMPLING RESULTS TO ANALYTE BENCHMARKS

Pollutant of Concern (units)	Median Concentration[(a)]	Benchmark	No. of Analyses	No. of Exceedances	Exceedance Frequency(%)
Ammonia-N (mg/L)	2.28	2.14	20	10	50
BOD (mg/L)	27.6	30	20	9	45
COD (mg/L)	101	120	20	9	45
Specific Conductivity (µmhos/cm)	249	900	20	2	10
Oil & Grease (mg/L)	1	15	20	0	0
pH (pH unit)	7.18	6.0 - 9.0	20	1	5
TSS (mg/L)	16.5	100	20	0	0
Aluminum, Total (µg/L)	750	750	20	10	50
Copper, Total (µg/L)	135	14	20	20	100
Copper, Dissolved (µg/L)	98.5	14	20	18	90
Iron, Total (µg/L)	915	1,000	20	7	35
Lead, Total (µg/L)	6.05	82	20	0	0
Zinc, Total (µg/L)	225	120	20	16	80
Zinc, Dissolved (µg/L)	165	120	20	13	65
Ethylene Glycol (mg/L)	5	100	20	0	0

(a) Half of the detection limit was used as the data point for statistical analysis of results that were not detected.

SOURCE IDENTIFICATION SAMPLING

All source identification sampling was completed in previous sampling seasons (2006-2007 and 2007-2008). Results and discussions of this sampling were presented in previous annual reports.

BMP EFFECTIVENESS SAMPLING

The source identification sampling and BMP effectiveness monitoring efforts are designed to help assess the need for changes in the stormwater management program at the airport. Continued future sampling efforts are designed to identify POC sources and evaluate the effectiveness of BMP implementation. The BMP effectiveness element of the wet weather

monitoring program is designed as a six-year study, with the first three years dedicated to study calibration and the following three years designed to evaluate the implementation of various of BMP treatment options. The 2009-2010 storm water season should have been the first sampling season of the three-year treatment period monitoring for the paired watershed study. However, due to budget constraints and the initiation of the Green Build (Terminal Expansion) project in a parking lot that represented one of the paired watersheds, BMP recommendations from the *2008-2009 Storm Water Sampling Summary Report* that would enhance or add source control BMPs in the paired watershed study test areas were not implemented. Consequently, the BMP effectiveness monitoring sampling from the 2009-2010 season represents the fourth year of the calibration period.

Table 8 presents the summary statistics (median, maximum, and minimum values, number of samples, along with the coefficient of variance) on analytical results from all BMP effectiveness samples collected for the past four storm water seasons (2006-2007, 2007-2008, 2008-2009, and 2009-2010).

5 FOLLOW-UP AND ENFORCEMENT

Each of the IDDE incidents listed in Table 2 were resolved in the manner noted in Appendix A. Virtually all of the incidents noted in Table 2 and described in Appendix A were addressed immediately in the field at the time the incident was reported. Whenever an illegal discharge/illicit connection was detected by any of the Authority IDDE program elements, the Environmental Affairs Department documented the incident, required corrective action, if necessary, and monitored the implementation of any required corrective actions.

One incident classified as an "unauthorized discharge," occurred in FY09-10. On April 23, 2010, staff from the Authority Environmental Affairs Department witnessed an unauthorized discharge of diesel fuel from a rental car company passenger bus at the Airport Commuter Terminal. Ocean Blue Environmental was called in for response and clean up. Fuel was captured in the MS4 and did not reach the bay. The rental car company was directed to submit a written signed report to the Authority Environmental Affairs

TABLE 8 - BMP EFFECTIVENESS SAMPLING ANALYTICAL RESULTS SUMMARY, 2006 – 2010

Pollutant of Concern	Units	Median	Coefficient of Variance (%)	Maximum Value	Minimum Value	Number of Samples
BOD	mg/L	15.4	81.0	84.0	ND[(a)]	108
COD	mg/L	41.5	78.1	218	2.0	108
SC	µmhos/cm	118	236	4,390	39	108
Oil & Grease	mg/L	1.0	54.3	4.00	ND[(a)]	108
pH	pH Units	7.0	7.60	8.92	5.5	108
TSS	mg/L	6.0	128	91.0	ND[(a)]	108
Aluminum, Total	µg/L	145	169	5,200	ND[(a)]	108
Copper, Total	µg/L	32	90.6	330	5.4	108
Iron, Total	µg/L	165	168	6,000	ND[(a)]	108
Lead, Total	µg/L	1.0	174	55.5	ND[(a)]	108
Zinc, Total	µg/L	110	70.8	560	14	108
Copper, Dissolved	µg/L	18.5	80.6	120	2.9	108
Zinc, Dissolved	µg/L	63.5	74.4	320	2.4	108
Ethylene Glycol	mg/L	5.0	50.5	29.1	ND[(a)]	108
Propylene Glycol	mg/L	5.0	102	58.0	ND[(a)]	108

(a) Half of the detection limit was used as the data point for statistical analysis of results that were not detected.

Department detailing: 1) the events related to the illegal discharge of April 23, 2010, including the cause, type of material discharged, and the source of the material discharged; 2) the procedures that will be implemented to prevent the reoccurrence of such unauthorized discharges; and 3) the methods and proposed schedule for ensuring that all of the company's personnel are properly informed of the SDCRAA Storm Water Code and the BMPs required for use in conducting their daily activities. These requested measures were completed and/or submitted successfully by the company. No other unauthorized discharges occurred during FY09-10.

6 PROGRAM REVIEW AND MODIFICATION

This Annual IDDE Report has been prepared to meet the requirements of Addendum 2 to the Municipal Permit. As such, this is the third year the results of a complete dry weather season monitoring program have been presented in a single report and the second year that they have been combined in this report with our wet weather compliance sampling in order to discuss our urban runoff monitoring efforts as a whole. Information presented throughout this report and the 2009-2010 Municipal Annual Report (particularly Chapter 11-Effectiveness Assessment Component), supports a determination that the Authority's stormwater management efforts, including the IDDE and wet weather compliance sampling components, have proven to be effective and are in general compliance with the Municipal Permit. There are no program modification proposed at this time.

Appendix A

FY09-10 Illicit Discharge Dectection and Elimination Report Log

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FY09-10 Illicit Discharge Detection and Elimination Report Log

Subject	Date	Description
Improper Storage	7/9/2009	Trash cans observed outdoors without lids. Antifreeze bottles stored outside without secondary containment. Bags of trash were on ground. Small pile of sand/sediment in parking lot. Tenant notified.
Sewage Spill	7/9/2009	Stains and evidence of leaking observed near port-a-potty located in valet lot. Tenant notified.
Trash-Spill Landside	7/9/2009	Broken sandbags surrounding drains at taxi hold lot. Contacted Ocean Blue Environmental.
Improper Storage	7/16/2009	Hydraulic fluid drum stored outside in storage area near air traffic control tower without proper overhead cover. Tenant notified.
Improper Storage	7/16/2009	Fuel drum stored outside near air traffic control tower without overhead cover. Tenant notified.
Petroleum-Spill Airside	7/16/2009	Fresh oil stains near fueling area. Tenant notified.
Petroleum-Spill Airside	7/17/2009	Airport Traffic Officer reported anti-freeze spill curbside check-in. Maintenance enroute.
Petroleum-Spill Landside	7/17/2009	Airport Traffic Officer reported vehicle leaking fluid near the crosswalk in T2. Maintenance advised.
Trash-Spill Airside	7/17/2009	Trash bags on back of cabin cleaning truck observed not property covered. Tenant notified.
Trash-Spill Airside	7/17/2009	Vehicle reported with fluid leak near crosswalk. Maintenance advised.
Trash-Spill Airside	7/17/2009	Trash bags on back of cabin cleaning truck not properly covered. Notified tenant.
Trash-Spill Airside	7/17/2009	Anti-freeze spill curbside check-in. Maintenance notified.
Trash-Spill Airside	7/18/2009	Received report of trash cans overflowing on taxi cab island in T2. Notified Flagship.
Trash-Spill Landside	7/18/2009	Trash cans overflowing on taxi cab island. Notified Flagship.
Sewage Spill	7/22/2009	Leak outside (sanitary water line) the bldg between. Maintenance plumber notified.
Sewage Spill	7/22/2009	Additional leak outside (sanitary water line) bldg between gates. Maintenance plumber notified.
Improper Storage	7/23/2009	Improper storage of 55-gallon drums located at North Ramp. Tenant notified.
Trash-Spill Landside	7/23/2009	Trash and cigarette litter at shuttle bus parking lot. Maintenance notified
Trash-Spill Airside	7/26/2009	Trash cans in baggage area full. Notified Flagship.
Trash-Spill Airside	7/26/2009	Trash cans in bag make-up area full. Notified Flagship.
Petroleum-Spill Airside	7/27/2009	Airline reported fuel spill at gate. Fuel contained with speedy dry. No storm drains affected. Airport Rescue and Fire Fighting, Harbor Police, and Air Traffic Control Tower notified.
Trash-Spill Landside	7/27/2009	Garbage spill on Spruance. Ocean Blue Environmental contacted.
Trash-Spill Airside	7/28/2009	Trash cans overflowing on taxi island. Notified Flagship.
Trash-Spill Landside	7/28/2009	Trash cans overflowing on taxi island. Notified Flagship.
Sewage Spill	7/30/2009	Report of sewage back-up at gate ramp side. Notified Maintenance/Plumber and Air Ops. Ocean Blue Environmental contacted.
Sewage Spill	7/30/2009	Sewage emerging from ground at gate ramp side. Notified Maintenance Plumber and Air Ops. Ocean Blue Environmental contacted.
Sewage Spill	7/30/2009	Additional sewage back-up at gate ramp side. Notified Maintenance /Plumber and Air Ops. Ocean Blue Environmental contacted.
Improper Storage	7/31/2009	Drums on north west side of runway need secondary containment. Tenant notified.
Sewage Spill	7/31/2009	Host reports sewage back-up near gate ramp side. Notified Maintenance/Plumber and Air Ops. Ocean Blue Environmental contracted.
Petroleum-Spill Landside	8/2/2009	Airport Traffic Officer reported transmission fluid curbside near AA check-in area. Notified Maintenance.
Trash-Spill Airside	8/2/2009	Water overflowing from eye wash station ramp side. Notified Maintenance.
Trash-Spill Airside	8/2/2009	Broken glass in street near baggage claim. Notified Flagship.
Trash-Spill Airside	8/2/2009	Water overflowing from eye wash station ramp side. Notified Maintenance.
Trash-Spill Landside	8/2/2009	Transmission fluid curbside check-in area. Notified Maintenance.
Trash-Spill Landside	8/2/2009	Broken glass in street between check-in and baggage claim. Notified Flagship.
Trash-Spill Landside	8/4/2009	Vomit curbside baggage claim. Flagship advised.
Trash-Spill Airside	8/5/2009	Evidence of oil stains in operation area. Tenant notified.
Trash-Spill Landside	8/5/2009	Trash overflowing curbside. Notified Flagship.
Trash-Spill Landside	8/5/2009	Trash overflowing curbside. Notified Flagship.
Petroleum-Spill Airside	8/11/2009	Harbor Police reported minor fuel spill at gate. No storm drains effected. Environmental Affairs notified. No action needed.
Improper Storage	8/14/2009	Trash left out at gate. Tenant notified.
Improper Storage	8/14/2009	Unlabeled and uncontained drum at gate. Tenant notified.
Improper Storage	8/14/2009	Pallets left between gates. Tenant notified.
Petroleum-Spill Airside	8/14/2009	Staining under jet bridge at gates. Tenant notified.
Trash-Spill Airside	8/14/2009	Grit/trash accumulation by gate. Tenant notified.
Trash-Spill Landside	8/15/2009	Vomit near curbside check-in. Notified Flagship.
Trash-Spill Airside	8/16/2009	Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.
Trash-Spill Landside	8/16/2009	Trash overflowing near curbside check-in. Notified Flagship.
Trash-Spill Landside	8/16/2009	Trash overflowing on transportation island. Flagship advised.
Trash-Spill Landside	8/16/2009	Trash can overflow near curbside check-in. Notified Flagship.
Trash-Spill Landside	8/17/2009	Debris from minor accident. Notified Maintenance.
Trash-Spill Landside	8/17/2009	Vomit curbside check-in area. Notified Flagship.
Trash-Spill Airside	8/23/2009	Leaking pipe in the UA Baggage Screening Area. Maintenance notified.
Trash-Spill Landside	8/26/2009	Overflowing trash curbside and cleanup needed at gate. Flagship notified.
Trash-Spill Landside	8/27/2009	Overflowing trash curbside. Flagship advised.
IPM	9/2/2009	Rat in cabinet across from ticket counter. Maintenance notified.
Trash-Spill Airside	9/4/2009	Observed empty motor oil bottles on ground near and under dumpster. Tenant notified.
Trash-Spill Airside	9/17/2009	Trash compactor area disorganized. Flagship notified.
Trash-Spill Airside	9/17/2009	Loose material in paint testing area needs sweeping. Authority maintenance department notified.
Improper Storage	9/29/2009	Oil and equipment stored outside without cover or secondary containment. Tenant notified.

Subject	Date	Description
Improper Storage	9/29/2009	Used absorbent was observed under gate. Significant amount of trash/debris accumulated near gate. Trash can without lid was observed between gates. Chemicals and equipment improperly stored under gate. Tenant notified.
Petroleum-Spill Airside	9/29/2009	Fuel truck accident resulted in 1-2 gal spill completely contained within the re-loading bay. Allied notified of situation.
Petroleum-Spill Airside	9/29/2009	Used absorbent observed in fuel truck parking area. Tenant notified.
Trash-Spill Airside	9/29/2009	Used absorbent observed in several locations in cargo yard. Tenant notified.
Trash-Spill Airside	9/29/2009	Trash/sediment accumulated by gate. Tenant notified.
Trash-Spill Airside	9/29/2009	Observed trash accumulated by blast fence behind gate. Ocean Blue Environmental contacted.
Trash-Spill Airside	9/29/2009	Observed evidence of outdoor hand washing (bottles of hand soap and FOD can observed without lid. Tenant notified.
Trash-Spill Airside	9/29/2009	Observed trash receptacles with missing lids near gate. Tenant notified.
Trash-Spill Airside	9/29/2009	Several trash cans observed without lids near operational area. Tenant notified.
Trash-Spill Landside	9/29/2009	Vomit at curbside check-in. Flagship notified.
Improper Storage	9/30/2009	Drum stored outside without overhead cover. Tenant notified.
Petroleum-Spill Airside	10/1/2009	Fuel spill at gate. Tenant notified.
Petroleum-Spill Airside	10/10/2009	Harbor Police reported truck with hydraulic leak east of cargo building. Maintenance cleaned up approximately 1 gallon fluid; no storm drains effected.
IPM	10/26/2009	Report of mouse near gates. Notified Maintenance.
Petroleum-Spill Airside	10/27/2009	Ground service equipment between gates leaking. Noticeable fresh oily stains. Tenant notified.
Trash-Spill Landside	11/14/2009	Trash overflowing on transportation island. Notified Flagship.
Trash-Spill Airside	11/29/2009	Underground water leak near gate. Maintenance plumber notified.
Trash-Spill Landside	12/1/2009	Smoke emitting from cigarette can curbside. Notified Maintenance.
Trash-Spill Airside	12/2/2009	Accumulated trash observed behind the blast fence across from triturator. Maintenance department notified.
Trash-Spill Landside	12/2/2009	Runoff from the boiler area was observed at the central plant. Authority maintenance department notified.
Construction Maintenance	12/15/2009	Sediment observed on ramp from completed construction project at gate. Contractor notified.
Improper Storage	12/15/2009	Drum and open box of motor oil cans observed without proper secondary containment on the ramp between gates. Tenant notified.
Trash-Spill Airside	12/15/2009	Evidence of outdoor hand washing, including hand soap and hose, observed under gate. Tenant notified.
Trash-Spill Airside	12/15/2009	Trash storage bin left open while not in use. Tenant notified.
Trash-Spill Airside	12/15/2009	Accumulated trash observed on ground around base of grease container. Notified tenant.
Improper Storage	12/16/2009	Boxes and cans of chemicals left without proper secondary containment. Tenant notified.
Construction Maintenance	12/21/2009	Construction to improve trash compactor area on airside negatively impacting storm drain. Trench cut into asphalt near storm drain causing mud from trench to cover area and storm drain. Contractor notified.
Trash-Spill Airside	12/25/2009	Observed tenant backing fuel truck without guide and operating lavatory truck at unsafe speed causing the truck to leak. Notified tenant.
Petroleum-Spill Airside	1/8/2010	Oily fluid along lead in line at gate. Tenant notified.
Trash-Spill Airside	1/13/2010	Trash and debris accumulated in dumpster area. Notified Flagship.
Construction Maintenance	1/15/2010	Open trench with loose dirt from pavement cutting conducted near runway lighting vault buildings with no protection for nearby storm drain. Contractor notified.
Sewage Spill	1/15/2010	Toilet paper trails emerging from both ends of triturator shed. Ocean Blue Environmental contacted.
Construction Maintenance	2/1/2010	White liquid and powder (dry wall mud) along curb leading to storm drain at west end of commuter terminal building (by pet relief area). Contractor notified.
Petroleum-Spill Landside	2/26/2010	Adjacent to Building A, fuel cans and staining present and employee hosing ground. Tenant notified.
Petroleum-Spill Airside	3/2/2010	Inspector observed fuel truck with leak underneath. No drip pan being used. Tenant notified.
Improper Storage	3/26/2010	Broken pallets left by gate. Boxes of motor oil with no secondary containment by gate. FOD buckets without lids in various areas. Tenant notified.
Improper Storage	3/26/2010	Trash bins left open by gate. Messy grease trap area between gates. Many spills and used absorbent present. Trash accumulation by grease bin between gates. Containers with coffee grounds outdoors without lids. Trash accumulation around base of grease bin at Terminal connector dumpster area. Tenant notified.
Improper Storage	3/26/2010	Disorganized work and laydown area. Improper storage of equipment/supplies. Tenant notified.
Improper Storage	3/26/2010	Lavatory chemical bottles stored under gate. Multiple outdoor trash containers without lids. Trash can with trash tipped over to dry. Tenant notified.
Petroleum-Spill Airside	3/26/2010	Badly leaking/staining equipment between gates. Tenant notified.
Trash-Spill Airside	3/26/2010	Absorbent bags broken open. Tenant notified.
Improper Storage	3/29/2010	Full dumpster with no cover in valet parking lot near gate. Tenant notified.
Improper Storage	3/29/2010	Trash can without lid. Fresh staining in shop needs absorbent. "Ice inhibitor" chemical not stored under a cover. Tenant notified.
Improper Storage	3/29/2010	Trash accumulating around storm drain and along fence behind dumpsters. Tenant notified.
Improper Storage	3/29/2010	"Quickcrete" bags stored outside without proper secondary containment. Tenant notified.
Petroleum-Spill Airside	3/29/2010	Leaking equipment. Tenant notified.
Sewage Spill	4/18/2010	Flagship reports water rising from drain in women's restroom ramp side. Notified Maintenance.
Improper Storage	4/19/2010	Trash cans by gate need lids. Tenant notified.
Improper Storage	4/22/2010	Oily equipment stored by the doorway in the shop area. Tenant notified.
Trash-Spill Landside	4/23/2010	Suspected diesel spill curbside near the Rental Car departure. Ocean Blue Environmental contacted.

Subject	Date	Description
Unauthorized Discharge	4/23/2010	Diesel fuel spill from shuttle bus on North Harbor Drive to the Commuter Terminal Curbside. HPD, SDCRAA Maintenance and SDCRAA Environmental on scene. Ocean Blue Environmental called in for response and clean up. Shuttle bus company called to advise that the spill originated in the car lot. Fuel was captured in the MS4 and did not reach the bay.
Improper Storage	4/26/2010	No lids on outdoor trash cans. Tenant notified.
Improper Storage	4/27/2010	Outdoor trash cans without lids. Tenant notified.
Improper Storage	4/28/2010	FOD bucket without lid. Tenant notified.
Improper Storage	4/28/2010	Lids needed for outdoor trash cans. Improper chemical storage (soap). Tenant notified.
Improper Storage	4/29/2010	Oil cans need to be moved onto spill containment pallet. Grease buckets need to be moved under cover and stored on spill containment pallet. FOD buckets without lids. Tenant notified.
Petroleum-Spill Airside	5/3/2010	Tug receiving maintenance fallen off vehicle lift located in maintenance building and leaking oil. Approximately 1/2 gal of oil / diesel leaked from the tug. Tenant in process of cleaning up spill; no storm drains affected.
Improper Storage	5/4/2010	FOD buckets without lids. Tenant notified.
Improper Storage	5/4/2010	Covered area tarp needs repair. No drip pans for trucks. No lids on outdoor trash cans. Unused drip pans stored outdoors. Tenant notified.
Sewage Spill	5/4/2010	Toilet paper/waste trails coming from triturator building and along airport perimeter roadway. Ocean Blue Environmental contacted.
Improper Storage	5/5/2010	FOD buckets without lids. Spill pallet was filling with water. Tenant notified.
Improper Storage	5/6/2010	Opened chemical and gas containers not on spill pallet. Tenant notified.
Improper Storage	5/7/2010	Grease stored in buckets (non-closed containers). Tenant notified.
Improper Storage	5/7/2010	Radiator fluid in gate area possible spill hazard. Tenant notified.
Improper Storage	5/11/2010	FOD and trash without lids. Tenant notified.
Improper Storage	5/11/2010	Outdoor recycling container on porch needed lid. Tenant notified.
Improper Storage	5/12/2010	Drums without overhead cover. Tenant notified.
Petroleum-Spill Landside	5/18/2010	Maintenance reported diesel fuel spill, possible 1 or 2 gallons, Harbor Drive leading into Commuter Terminal. Notified Airport Operations and Harbor Police.
Trash-Spill Airside	5/18/2010	Truck parked near gate ramp side leaking. Notified Operations.
Improper Storage	5/21/2010	FOD bucket without lid. Tenant notified.
Trash-Spill Landside	5/22/2010	Windows near terminal checkpoint shattered due to demolition activity. Maintenance cleaning up debris.
Improper Storage	6/3/2010	FOD bucket on jet bridge without lid. Tenant notified.
IPM	6/3/2010	Bees reported at gate ramp nesting in baggage containers. Notified Maintenance.
Construction Maintenance	6/4/2010	Construction Equipment/Sweeper hydraulic line burst. Picked up with absorbent. No storm drains affected.
Improper Storage	6/10/2010	FOD buckets on jet bridges without lids. Outdoor trash can near baggage area observed without lid. Improper storage/messy area by gate. Improper storage of oil cans between gates. Box of oil cans saturated. Tenant notified.
Improper Storage	6/10/2010	FOD bucket without lid at gate bridge. Lid was missing on trash bin filled with water, trash, and a motor oil bottle. Tenant notified.
Improper Storage	6/10/2010	Drums without covers. Tenant notified.
Improper Storage	6/11/2010	No lids on FOD buckets at gate. Tenant notified.
Trash-Spill Landside	6/18/2010	Vomit curbside baggage claim. Notified Flagship.
Trash-Spill Airside	6/21/2010	North end of building 2412 have broken sandbags. Runway lighting vault buildings have trash pile. Drums without covers, broken clamshell containers, broken glass on the ground, multiple areas with broken sand, trash accumulation, paint chips on ground from stencils, lighters on the ground, and disintegrating plastic all observed at boneyard. Maintenance notified.

Appendix B

2010 Dry Weather Monitoring Field Data Sheets, Trash Assessment Forms and Lab Reports

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DRY WEATHER MONITORING EVENT 1

(5/18/10)

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB01-1*	**Latitude**	(e.g., 33.41174) 32.73283	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin near landmark	**Longitude**	(e.g., -117.35213) -117.17764		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0741	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny | Partly Cloudy | Overcast | x Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage			Other
Color	x None	Yellow	Brown	White	Gray			Other
Clarity	Clear		Slightly Cloudy	Opaque				x Other **N/A**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter			Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits			Other
Vegetation	x None	Limited	Normal	Excessive				Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: ***alternate site used due to construction.**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X Field Screening Confirmation For _____ IC/ID Follow-Up For _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) MS4 Receiving Water

Site ID	CB03-2	**Latitude**	(e.g., 33.41174) 32.72864	Watershed	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin @ S. end of blast fence	**Longitude**	(e.g., -117.35213) -117.17843		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0934	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny | Partly Cloudy | x Overcast | Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	Clear		x Slightly Cloudy	Opaque		Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No Irrigation Runoff Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	19.4	NH_3-N (mg/L)	.7	NO_3-N (mg/L)	.85	Ortho-PO_4 (mg/L)	<1
pH (pH units)	6.02	TURB (NTU)	27.2	COND (mS/cm)	11	MBAS (mg/L)	1

Analytical Lab Samples Collected? x Yes | No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Brackish---site is normally clearly tidal, so samples were sent to the lab to explain inconsistency._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X Field Screening Confirmation For _____ IC/ID Follow-Up For _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) MS4 Receiving Water

Site ID	CB05-3	**Latitude**	(e.g., 33.41174) 32.73782	Watershed	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Rental car parking lot	**Longitude**	(e.g., -117.35213) -117.18311		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0804	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%): Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only): Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny Partly Cloudy x Overcast Fog

Tide: N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours < 72 hours

Rainfall: x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	x Clear		Slightly Cloudy	Opaque		Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae Insect/ Snail	Other

Water Flow: Flowing x Ponded Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? x Yes No Irrigation Runoff x Other: watering truck used for dust suppression

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? x Yes No

Water Temp (°C)	18	NH_3-N (mg/L)	.2	NO_3-N (mg/L)	.35	Ortho-PO_4 (mg/L)	**.2**
pH (pH units)	7.02	TURB (NTU)	1.86	COND (mS/cm)	1.24	MBAS (mg/L)	**.5**

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB05-4	**Latitude**	(e.g., 33.41174) 32.73063	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin near generator yard	**Longitude**	(e.g., -117.35213) -117.18301		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1288 G1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0910	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy x Overcast Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	x Clear		Slightly Cloudy	Opaque		Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae Insect/ Snail	Other

Water Flow Flowing Ponded Dry x Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? x Yes No **Conductivity only**

Water Temp (°C)	63.7	NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)	33.3	MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: Water at bottom of catch basin is seawater._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB06-5	**Latitude**	(e.g., 33.41174) 32.73584	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	CB near Air traffic control tower	**Longitude**	(e.g., -117.35213) -117.18637		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0752	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy x Overcast Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor X None Musty Rotten Eggs Chemical Sewage Other

Color x None Yellow Brown White Gray Other

Clarity Clear Slightly Cloudy Opaque x Other Dry

Floatables x None Trash Bubbles/Foam Sheen Fecal Matter Other

Deposits None Sediment/Gravel x Fine Particulates Stains Oily Deposits Other

Vegetation x None Limited Normal Excessive Other

Biology X None Insects Algae Fish Snails Mussels/ Barnacles Insect/ Algae Insect/ Snail Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Dry

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB07-6	**Latitude**	(e.g., 33.41174) 32.73085	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Oil water separator	**Longitude**	(e.g., -117.35213) -117.19323		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0715	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny | Partly Cloudy | Overcast | x Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	Clear		Slightly Cloudy	Opaque		x Other **n/a**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	None	x Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: **Moist but no water**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB07-7	**Latitude**	(e.g., 33.41174) 32.73000	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	West wing parking lot	**Longitude**	(e.g., -117.35213) -117.19390		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1288 FI		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0637	**Observer**	KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	Overcast	x Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	xNone	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	x None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Dry

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB08-8	**Latitude**	(e.g., 33.41174) 32.73368	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Southwest Slit Trench	**Longitude**	(e.g., -117.35213) -117.19673		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	1037	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	x Musty	Rotten Eggs	Chemical	Sewage		Other
Color	None	x Yellow	x Brown	White	Gray		Other
Clarity	Clear		x Slightly Cloudy	Opaque			Other
Floatables	None	x Trash	Bubbles/Foam	x Sheen	Fecal Matter	x Other	**insects**
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	x Oily Deposits		Other
Vegetation	x None	Limited	Normal	Excessive			Other
Biology	None	x Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? x Yes | No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | No

Water Temp (°C)	24.4	NH_3-N (mg/L)	10+_	NO_3-N (mg/L)	<.25	Ortho-PO_4 (mg/L)	**<1**
pH (pH units)	6.2	TURB (NTU)	40.1	COND (mS/cm)	1.74	MBAS (mg/L)	**inconclusive**

Analytical Lab Samples Collected? **x Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: **Field test kit results for Ammonia and MBAS were not conclusive due to color of sample water (yellow/brown.)**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x Field Screening **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB12-9*	**Latitude**	(e.g., 33.41174) 32.73516	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Terminal 2 area trench drain	**Longitude**	(e.g., -117.35213) -117.20444		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	1030	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | x Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny | Partly Cloudy | x Overcast | Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	x None	Yellow	Brown	White	Gray		Other
Clarity	Clear		Slightly Cloudy	Opaque			x Other **N/A**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	x None	Limited	Normal	Excessive			Other
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Alternate site used due to CB12-9 being under construction site SB12-13 (from wet weather monitoring) used instead. Site moist not flowing or enough for a sample._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB09-10	**Latitude**	(e.g., 33.41174) 32.72993	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	T2 Entrance Road	**Longitude**	(e.g., -117.35213) -117.19748		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	5/18/2010	**TB Page**	1299 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0700	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy Overcast x Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor x None Musty Rotten Eggs Chemical Sewage Other

Color x None Yellow Brown White Gray Other

Clarity Clear Slightly Cloudy Opaque Other **n/a**

Floatables x None Trash Bubbles/Foam Sheen Fecal Matter Other

Deposits x None Sediment/Gravel Fine Particulates Stains Oily Deposits Other

Vegetation x None Limited Normal Excessive Other

Biology None x Insects Algae Fish Snails Mussels/ Barnacles Insect/ Algae Insect/ Snail Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Dry

2010 Trash Assessment Form

SITE ID: _____CB01-1_____ **DATE:** _____5/18/2010_____

LOCATION: ___CATCH BASIN NEAR LANDMARK___ **TIME:** __0741_____

OBSERVER: _____AM,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):_____

ESTIMATED AREA OF ASSESSMENT L x W (FT): 10x60_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB03-2 **DATE:** 5/18/2010

LOCATION: CATCH BASIN NEAR BLAST FENCE **TIME:** 0934

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L X W (FT): 50X50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB05-3 **DATE:** 5/18/2010

LOCATION: RENTAL CAR PARKING LOT **TIME:** 0804

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L X W (FT): 50X50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB05-4_____ **DATE:** _____5/18/2010_____

LOCATION: ___CATCH BASIN NEAR GENERATORS___ **TIME:** __0910_____

OBSERVER: _____AM,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):_____

ESTIMATED AREA OF ASSESSMENT L X W (FT): 20x20_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB06-5_____ **DATE:** _____5/18/2010_____

LOCATION: ___CATCH BASIN NEAR LANDMARK___ **TIME:** __0752_____

OBSERVER: _____AM,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):_____

ESTIMATED AREA OF ASSESSMENT L X W (FT): 50X50_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] **MS4** ☐ **RECEIVING WATER** ☐ **BOTH**	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB07-06 **DATE:** 5/18/2010

LOCATION: AA OIL/WATER SEP **TIME:** 0715

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L X W (FT): 30X30

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB07-7 **DATE:** 5/18/10

LOCATION: WEST WING PARKING LOT **TIME:** 0637

OBSERVER: KRIS GREEN

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: ☒ MS4 ☐ RECEIVING WATER ☐ BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB08-8 **DATE:** 5/18/2010

LOCATION: CATCH BASIN NEAR BLAST FENCE **TIME:** 1037

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L X W (FT): 20X20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB12-9 **DATE:** 5/18/2010

LOCATION: CATCH BASIN NEAR BLAST FENCE **TIME:** 1030

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L x W (FT): 250x20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB09-10 **DATE:** 5/18/2010

LOCATION: T2 ENTRANCE ROAD **TIME:** 0700

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

SIERRA ANALYTICAL

01 June 2010

Amanda Archenhold
MACTEC Engineering & Consulting
9177 Sky Park Court Suite A
San Diego, CA 92123

RE:San Diego Airport

Work Order No.: 1005290

Attached are the results of the analyses for samples received by the laboratory on 05/18/10 13:15.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),
Environmental Laboratory Accredidation Program (ELAP) No. 2320.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/01/10 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-5-18-10	1005290-01	Liquid	05/18/10 10:37	05/18/10 13:15
CB03-2-5-18-10	1005290-02	Liquid	05/18/10 09:34	05/18/10 13:15

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwises noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/01/10 15:46

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-5-18-10 (1005290-01) Liquid	**Sampled: 05/18/10 10:37 Received: 05/18/10 13:15**								
Enterococcus	**2800**	20	MPN/100 mL	10	B0E1827	05/18/10	05/18/10 13:20	SM 9230B	
Total Coliforms	**2800**	20	"	"	"	"	"	SM 9221B	
CB03-2-5-18-10 (1005290-02) Liquid	**Sampled: 05/18/10 09:34 Received: 05/18/10 13:15**								
Enterococcus	**2200**	20	MPN/100 mL	10	B0E1827	05/18/10	05/18/10 13:20	SM 9230B	
Total Coliforms	**9000**	20	"	"	"	"	"	SM 9221B	

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/01/10 15:46

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-5-18-10 (1005290-01) Liquid	**Sampled: 05/18/10 10:37 Received: 05/18/10 13:15**								
Total Hardness	**462**	0.400	mg/L	1	B0E2429	05/18/10	05/18/10 13:20	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	
CB03-2-5-18-10 (1005290-02) Liquid	**Sampled: 05/18/10 09:34 Received: 05/18/10 13:15**								
Total Hardness	**1440**	0.400	mg/L	1	B0E2429	05/18/10	05/18/10 13:20	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	
pH	**6.72**	0.100	pH Units	"	"	"	"	EPA 150.1	

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TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
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SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/01/10 15:46

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-5-18-10 (1005290-01) Liquid	**Sampled: 05/18/10 10:37 Received: 05/18/10 13:15**								
Cadmium	**25**	2.0	µg/L	1	B0E2805	05/28/10	06/01/10 12:25	EPA 200.8	
Copper	**230**	5.0	"	5	"	"	06/01/10 13:23	"	
Lead	**19**	2.0	"	1	"	"	06/01/10 12:25	"	
Zinc	**1600**	5.0	"	5	"	"	06/01/10 13:23	"	
CB03-2-5-18-10 (1005290-02) Liquid	**Sampled: 05/18/10 09:34 Received: 05/18/10 13:15**								
Cadmium	ND	2.0	µg/L	1	B0E2805	05/28/10	06/01/10 12:29	EPA 200.8	
Copper	**4.7**	1.0	"	"	"	"	"	"	
Lead	ND	2.0	"	"	"	"	"	"	
Zinc	**5.2**	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/01/10 15:46

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E2805 - EPA 200 Series										
Blank (B0E2805-BLK1)				Prepared: 05/28/10 Analyzed: 06/01/10						
Cadmium	ND	2.0	µg/L							
Copper	ND	1.0	"							
Lead	ND	2.0	"							
Zinc	ND	1.0	"							
LCS (B0E2805-BS1)				Prepared: 05/28/10 Analyzed: 06/01/10						
Cadmium	89.2	2.0	µg/L	100		89.2	85-115			
Copper	90.6	1.0	"	100		90.6	85-115			
Lead	100	2.0	"	100		100	85-115			
Zinc	88.9	1.0	"	100		88.9	85-115			
Matrix Spike (B0E2805-MS1)	**Source: 1005290-02**			Prepared: 05/28/10 Analyzed: 06/01/10						
Cadmium	83.6	2.0	µg/L	100	ND	83.6	70-130			
Copper	88.1	1.0	"	100	4.7	83.4	70-130			
Lead	91.6	2.0	"	100	ND	91.6	70-130			
Zinc	77.4	1.0	"	100	5.2	72.2	70-130			
Matrix Spike Dup (B0E2805-MSD1)	**Source: 1005290-02**			Prepared: 05/28/10 Analyzed: 06/01/10						
Cadmium	78.5	2.0	µg/L	100	ND	78.5	70-130	6.29	30	
Copper	83.6	1.0	"	100	4.7	78.9	70-130	5.24	30	
Lead	85.1	2.0	"	100	ND	85.1	70-130	7.36	30	
Zinc	73.1	1.0	"	100	5.2	67.9	70-130	5.71	30	QM-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/01/10 15:46

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

Certificate of Analysis

Report Date: Wednesday, June 2, 2010
Received Date: Wednesday, May 19, 2010
Received Time: 10:45 am
Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Phones: (949) 348-9389
Fax: (949) 348-9115

Attn: Nick Forsyth
Project: 1005290

P.O. #:

Lab Sample ID: 0E19043-01 **Sample ID: CB08-8-5-18-10 (1005290-01)** **Matrix:** Water
Sampled by: Client **Sampled: 05/18/10 10:37**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Azinphos methyl (Guthion)	ND	0.12	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Bolstar	ND	0.088	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Chlorpyrifos	ND	0.041	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Coumaphos	ND	0.068	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Demeton-o	ND	0.049	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Demeton-s	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Diazinon	ND	0.058	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Dichlorvos	ND	0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Dimethoate	ND	0.087	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Disulfoton	ND	0.064	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethoprop	ND	0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethyl parathion	ND	0.12	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fensulfothion	ND	0.090	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fenthion	ND	0.027	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Malathion	ND	0.11	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Merphos	ND	0.062	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Methyl parathion	ND	0.057	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Mevinphos	ND	0.089	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Naled	ND	0.060	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Phorate	ND	0.054	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ronnel	ND	0.037	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Stirophos	ND	0.050	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Thionazin	ND	0.15	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Tokuthion (Prothiofos)	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Trichloronate	ND	0.031	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Surrogate: Triphenyl phosphate	*113 %*		*6-173*							

Lab Sample ID: 0E19043-02 **Sample ID: CB03-2-5-18-10 (1005290-02)** **Matrix:** Water
Sampled by: Client **Sampled: 05/18/10 09:34**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Azinphos methyl (Guthion)	ND	0.12	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Lab Sample ID: 0E19043-02 **Sample ID:** CB03-2-5-18-10 (1005290-02) **Matrix:** Water
Sampled by: Client **Sampled:** 05/18/10 09:34

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Bolstar	ND	0.088	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Chlorpyrifos	ND	0.041	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Coumaphos	ND	0.068	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Demeton-o	ND	0.049	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Demeton-s	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Diazinon	ND	0.058	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Dichlorvos	ND	0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Dimethoate	ND	0.087	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Disulfoton	ND	0.064	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethoprop	ND	0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethyl parathion	ND	0.12	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fensulfothion	ND	0.090	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fenthion	ND	0.027	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Malathion	ND	0.11	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Merphos	ND	0.062	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Methyl parathion	ND	0.057	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Mevinphos	ND	0.089	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Naled	ND	0.060	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Phorate	ND	0.054	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ronnel	ND	0.037	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Stirophos	ND	0.050	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Thionazin	ND	0.15	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Tokuthion (Prothiofos)	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Trichloronate	ND	0.031	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Surrogate: Triphenyl phosphate	*58 %*		*6-173*							

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Certificate of Analysis

Quality Control Section

SpQualifie

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Batch W0E0634 - EPA 8141A

Blank (W0E0634-BLK1) **Prepared: 05/19/10 Analyzed: 05/25/10 13:16**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.950*		ug/l	*1.00*	*95*	*6-173*		
Azinphos methyl (Guthion)		ND		ug/l					
Bolstar		ND		ug/l					
Chlorpyrifos		ND		ug/l					
Coumaphos		ND		ug/l					
Demeton-o		ND		ug/l					
Demeton-s		ND		ug/l					
Diazinon		ND		ug/l					
Dichlorvos		ND		ug/l					
Disulfoton		ND		ug/l					
Ethoprop		ND		ug/l					
Fensulfothion		ND		ug/l					
Fenthion		ND		ug/l					
Merphos		ND		ug/l					
Methyl parathion		ND		ug/l					
Mevinphos		ND		ug/l					
Naled		ND		ug/l					
Phorate		ND		ug/l					
Ronnel		ND		ug/l					
Stirophos		ND		ug/l					
Tokuthion (Prothiofos)		ND		ug/l					
Trichloronate		ND		ug/l					
Thionazin		ND		ug/l					
Dimethoate		ND		ug/l					
Malathion		ND		ug/l					
Ethyl parathion		ND		ug/l					

LCS (W0E0634-BS1) **Prepared: 05/19/10 Analyzed: 05/25/10 13:16**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.968*		ug/l	*1.00*	*97*	*6-173*		
Azinphos methyl (Guthion)		0.997		ug/l	1.00	100	18-159		
Bolstar		0.970		ug/l	1.00	97	49-148		
Chlorpyrifos		0.916		ug/l	1.00	92	49-143		
Coumaphos		1.09		ug/l	1.00	109	42-161		
Demeton-o		0.895		ug/l	1.00	89	47-132		
Demeton-s		0.814		ug/l	1.00	81	45-147		
Diazinon		0.926		ug/l	1.00	93	46-136		
Dichlorvos		0.966		ug/l	1.00	97	29-164		
Disulfoton		0.820		ug/l	1.00	82	46-155		
Ethoprop		0.835		ug/l	1.00	84	54-141		

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Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Batch W0E0634 - EPA 8141A

LCS (W0E0634-BS1) — **Prepared: 05/19/10 Analyzed: 05/25/10 13:16**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Fensulfothion		0.950		ug/l	1.00	95	54-167		
Fenthion		0.697		ug/l	1.00	70	50-143		
Merphos		1.32		ug/l	1.00	132	40-185		
Methyl parathion		0.843		ug/l	1.00	84	47-142		
Mevinphos		0.812		ug/l	1.00	81	43-145		
Naled		0.462		ug/l	1.00	46	16-177		
Phorate		0.872		ug/l	1.00	87	56-134		
Ronnel		0.952		ug/l	1.00	95	49-140		
Stirophos		0.847		ug/l	1.00	85	46-146		
Tokuthion (Prothiofos)		0.922		ug/l	1.00	92	52-139		
Trichloronate		0.844		ug/l	1.00	84	52-136		

LCS Dup (W0E0634-BSD1) — **Prepared: 05/19/10 Analyzed: 05/25/10 13:16**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*1.01*		ug/l	*1.00*	*101*	*6-173*		
Azinphos methyl (Guthion)		1.00		ug/l	1.00	100	18-159	0.8	25
Bolstar		1.03		ug/l	1.00	103	49-148	6	25
Chlorpyrifos		0.958		ug/l	1.00	96	49-143	5	25
Coumaphos		1.15		ug/l	1.00	115	42-161	6	25
Demeton-o		0.836		ug/l	1.00	84	47-132	7	25
Demeton-s		0.790		ug/l	1.00	79	45-147	3	25
Diazinon		0.944		ug/l	1.00	94	46-136	2	25
Dichlorvos		0.928		ug/l	1.00	93	29-164	4	25
Disulfoton		0.893		ug/l	1.00	89	46-155	9	25
Ethoprop		0.830		ug/l	1.00	83	54-141	0.6	25
Fensulfothion		0.889		ug/l	1.00	89	54-167	7	25
Fenthion		0.730		ug/l	1.00	73	50-143	5	25
Merphos		1.33		ug/l	1.00	133	40-185	0.8	25
Methyl parathion		0.873		ug/l	1.00	87	47-142	3	25
Mevinphos		0.771		ug/l	1.00	77	43-145	5	25
Naled		0.354	Q-12	ug/l	1.00	35	16-177	27	25
Phorate		0.817		ug/l	1.00	82	56-134	6	25
Ronnel		0.953		ug/l	1.00	95	49-140	0.1	25
Stirophos		0.875		ug/l	1.00	88	46-146	3	25
Tokuthion (Prothiofos)		0.974		ug/l	1.00	97	52-139	5	25
Trichloronate		0.929		ug/l	1.00	93	52-136	10	25

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

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

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

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

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

Flags for Data Qualifiers:

Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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CHAIN OF CUSTODY RECORD

SIERRA ANALYTICAL
TEL: 949•348•9389
FAX: 949•348•9115
26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

Date: 5/18/10 Page 1 of 1

Lab Project No.: 1005490

Client: MACTEC
Client Address: 9177 Sky Park Ct
San Diego CA 92123
Client Tel. No.: 858 278 3600
Client Fax. No.:
Client Proj. Mgr.: AMANDA ARLENHOLD

Client Project ID:

Turn Around Time Requested: ☐ Immediate ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day ☐ Normal ☐ Mobile

Analysis Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	OIL & GREASE	DIAZINON	CHLORPYRIFOS	DISSOLVED Pb, Cu Cd, Zn	TOTAL COLIFORM	ENTEROCOCCUS	HARDNESS	Ph
CB08-8-5-18-10	01	5/18	1037	W	ICE	VARIOUS	6	X	X	X	X	X	X	X	
CB03-2-5-18-10	02	5/18	0934	W	ICE	VARIOUS	6	X	X	X	X	X	X	X	X

Geotracker EDD Info:
Client LOGCODE
Site Global ID
Field Point Names/ Comments

1 Sampler Signature: [signature] Printed Name: Kris Green
Shipped Via: —
(Carrier/Waybill #)

2 Relinquished By: [signature] Date: 5/18 Time: 1315 Company: Kris Green
Received By: [signature] Date: 5-18-10 Time: 1315 Company: SIERRA

3 Relinquished By: Date: Time: Company:
Received By: Date: Time: Company:

4 Relinquished By: Date: Time: Company:
Received By: Date: Time: Company:

Special Instructions: PLEASE EMAIL RESULTS TO Kgreen@Mactec.com

12 Total Number of Containers Submitted to Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analysis specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.
* - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

12 Total Number of Containers Received by Laboratory

Sample Disposal:
☐ Return to Client
☐ Lab Disposal*
☐ Archive _____ mos.
☐ Other _____

FOR LABORATORY USE ONLY - Sample Receipt Conditions:

☑ Intact ☑ Chilled - Temp. (°C) 4.0
☐ Sample Seals ☐ Preservatives - Verified By
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Container ☑ Storage Location MICRO -R102

Rev: 102005

DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy

DRY WEATHER MONITORING EVENT 2

(6/15/10)

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB01-1*	**Latitude**	(e.g., 33.41174) 32.73283	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin near landmark	**Longitude**	(e.g., -117.35213) -117.17764		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0712	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	Overcast	x Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: ***alternate site used due to construction.**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X Field Screening Confirmation For _____ x IC/ID Follow-Up For 5/18/2010

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) MS4 Receiving Water

Site ID	CB03-2	**Latitude**	(e.g., 33.41174) 32.72864	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin @ S. end of blast fence	**Longitude**	(e.g., -117.35213) -117.17843		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0747	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%): Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only): Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny Partly Cloudy Overcast x Fog

Tide: N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours < 72 hours

Rainfall: x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	x Clear		Slightly Cloudy	Opaque		Other
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects Algae Fish Snails		Mussels/ Barnacles	Insect/ Algae Insect/ Snail	Other

Water Flow: Flowing Ponded Dry x Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)	32	MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is clearly seawater_____

_____

_____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X Field Screening **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB05-3	**Latitude**	(e.g., 33.41174) 32.73782	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Rental car parking lot	**Longitude**	(e.g., -117.35213) -117.18311		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0812	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	x Clear		Slightly Cloudy	Opaque		Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? x Yes | No | Irrigation Runoff | x Other: watering truck used for dust suppression

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	19.3	NH_3-N (mg/L)	.2	NO_3-N (mg/L)	.5	Ortho-PO_4 (mg/L)	**.2**
pH (pH units)	7.96	TURB (NTU)	1.86	COND (mS/cm)	2.23	MBAS (mg/L)	**.5**

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Water in catch from dust suppression water truck.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB05-4	**Latitude**	(e.g., 33.41174) 32.73063	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin near generator yard	**Longitude**	(e.g., -117.35213) -117.18301		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1288 G1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0739	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny | Partly Cloudy | x Overcast | Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	x None	Yellow	Brown	White	Gray		Other
Clarity	x Clear		Slightly Cloudy	Opaque			Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	None	x Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits		Other
Vegetation	x None	Limited	Normal	Excessive			Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? x Yes | No **Conductivity only**

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)	48.3	MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: Water at bottom of catch basin is seawater._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x Field Screening **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB06-5	**Latitude**	(e.g., 33.41174) 32.73584	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	CB near Air traffic control tower	**Longitude**	(e.g., -117.35213) -117.18637		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0802	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%): Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only): Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny Partly Cloudy Overcast x Fog

Tide: N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain: x > 72 hours < 72 hours

Rainfall: x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other
Color	None	Yellow	Brown	White	Gray	x Other
Clarity	Clear		Slightly Cloudy	Opaque		x Other Dry
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Dry

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB07-6	**Latitude**	(e.g., 33.41174) 32.73085	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Oil water separator At ASIG/American	**Longitude**	(e.g., -117.35213) -117.19323		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0645	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy Overcast x Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: **Moist but no water**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB07-7	**Latitude**	(e.g., 33.41174) 32.73000	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	West wing parking lot	**Longitude**	(e.g., -117.35213) -117.19390		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0606	**Observer**	KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy Overcast x Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall xNone < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	

Biology	None	x Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: Dry

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ x **IC/ID Follow-Up For** 5/18/2010

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB08-8	**Latitude**	(e.g., 33.41174) 32.73368	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Southwest Slit Trench	**Longitude**	(e.g., -117.35213) -117.19673		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0915	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | x Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: Sunny | Partly Cloudy | x Overcast | x Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:** _____ ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	None	Yellow	x Brown	White	Gray		Other
Clarity	Clear		x Slightly Cloudy	Opaque			Other
Floatables	None	x Trash	Bubbles/Foam	x Sheen	Fecal Matter		Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	x Oily Deposits		Other
Vegetation	x None	Limited	Normal	Excessive			Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | x No | N/A

Evidence of Overland Flow? x Yes | No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | No

Water Temp (°C)	19.35	NH_3-N (mg/L)	10+_	NO_3-N (mg/L)	Inconclusive	Ortho-PO_4 (mg/L)	2
pH (pH units)	7.12	TURB (NTU)	Out of range	COND (mS/cm)	1.87	MBAS (mg/L)	10 +

Analytical Lab Samples Collected? x Yes No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Field test kit results for nitrate and MBAS were not conclusive due to color of sample water (yellow/brown.)

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB12-9*	**Latitude**	(e.g., 33.41174) 32.73516	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Terminal 2 area trench drain	**Longitude**	(e.g., -117.35213) -117.20444		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0858	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel x Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy Overcast x Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **x No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Alternate site used due to CB12-9 being under construction site SB12-13 (from wet weather monitoring) used instead. Site moist not flowing or samplable._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) **MS4** **Receiving Water**

Site ID	CB09-10	**Latitude**	(e.g., 33.41174) 32.72993	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	T2 Entrance Road	**Longitude**	(e.g., -117.35213) -117.19748		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	6/15/2010	**TB Page**	1299 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0616	**Observer**	KG, AM		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather Sunny Partly Cloudy Overcast x Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	None	x Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? **Yes** **No**

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: **Dry**

2010 Trash Assessment Form

SITE ID: CB01-1 **DATE:** 6/15/2010

LOCATION: CATCH BASIN NEAR LANDMARK **TIME:** 0712

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):

ESTIMATED AREA OF ASSESSMENT L X W (FT): 10x60

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB03-2_____ **DATE:** _____6/15/2010_____

LOCATION: ___CATCH BASIN NEAR BLAST FENCE___ **TIME:** __0747_____

OBSERVER: _____AM,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):_____OPTIMAL_____

ESTIMATED AREA OF ASSESSMENT L X W (FT): 100x100_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB05-3 **DATE:** 6/15/2010

LOCATION: RENTAL CAR PARKING LOT **TIME:** 0812

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): SUBOPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 100x100

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB05-4 **DATE:** 6/15/2010

LOCATION: CATCH BASIN NEAR GENERATORS **TIME:** 0739

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 100X100

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB06-5 **DATE:** 6/15/2010

LOCATION: CATCH BASIN NEAR LANDMARK **TIME:** 0806

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 100X100

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB07-06 **DATE:** 6/15/2010

LOCATION: AA OIL/WATER SEP **TIME:** 0645

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 30x30

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB07-7 **DATE:** 6/15/10

LOCATION: WEST WING PARKING LOT **TIME:** 0606

OBSERVER: KRIS GREEN

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 50X50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB08-8 **DATE:** 6/15/2010

LOCATION: SW SLIT TRENCH **TIME:** 0915

OBSERVER: AM,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): SUBOPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 100X100

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB12-9_____ **DATE:** _____6/15/2010_____

LOCATION: ___CATCH BASIN NEAR BLAST FENCE___ **TIME:** __0858_____

OBSERVER: _____AM,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):_____OPTIMAL_____

ESTIMATED AREA OF ASSESSMENT L X W (FT): 100x100_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] **MS4** [ ] **RECEIVING WATER** [ ] **BOTH**	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB09-10_____ **DATE:** _____6/15/2010_____

LOCATION: ___T2 ENTRANCE ROAD_____ **TIME:** __0616_____

OBSERVER: _____AM,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): ___OPTIMAL_____

ESTIMATED AREA OF ASSESSMENT L x W (FT): 100x100_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

SIERRA ANALYTICAL

21 June 2010

Amanda Archenhold
MACTEC Engineering & Consulting
9177 Sky Park Court Suite A
San Diego, CA 92123

RE:San Diego Airport

Work Order No.: 1006256

Attached are the results of the analyses for samples received by the laboratory on 06/15/10 12:15.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/21/10 17:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-6-15-10	1006256-01	Liquid	06/15/10 09:15	06/15/10 12:15

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwises noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/21/10 17:03

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-6-15-10 (1006256-01) Liquid	**Sampled: 06/15/10 09:15**	**Received: 06/15/10 12:15**							
Enterococcus	**50000**	2000	MPN/100 mL	1000	B0F1510	06/15/10	06/15/10 13:00	SM 9230B	
Fecal Coliforms	**1300000**	20000	"	10000	"	"	"	SM 9221E	
Total Coliforms	**3300000**	20000	"	"	"	"	"	SM 9221B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/21/10 17:03

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-6-15-10 (1006256-01) Liquid	**Sampled: 06/15/10 09:15 Received: 06/15/10 12:15**								
Total Hardness	**677**	0.400	mg/L	1	B0F1711	06/15/10	06/17/10 10:15	SM 2340 C	
Hexane Extractable Material (HEM)	**2.10**	2.00	"	"	"	"	"	EPA 1664	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/21/10 17:03

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-6-15-10 (1006256-01) Liquid	**Sampled: 06/15/10 09:15 Received: 06/15/10 12:15**								
Cadmium	**38**	4.0	µg/L	2	B0F1608	06/16/10	06/17/10 10:56	EPA 200.8	
Copper	**330**	2.0	"	"	"	"	"	"	
Lead	**12**	4.0	"	"	"	"	"	"	
Zinc	**4800**	10	"	10	"	"	06/17/10 13:17	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/21/10 17:03

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0F1608 - EPA 200 Series										
Blank (B0F1608-BLK1)				Prepared: 06/16/10 Analyzed: 06/17/10						
Cadmium	ND	4.0	µg/L							
Copper	ND	2.0	"							
Lead	ND	4.0	"							
Zinc	ND	2.0	"							
LCS (B0F1608-BS1)				Prepared: 06/16/10 Analyzed: 06/17/10						
Cadmium	98.9	4.0	µg/L	100		98.9	85-115			
Copper	93.9	2.0	"	100		93.9	85-115			
Lead	102	4.0	"	100		102	85-115			
Zinc	95.0	2.0	"	100		95.0	85-115			
Matrix Spike (B0F1608-MS1)	**Source: 1006256-01**			Prepared: 06/16/10 Analyzed: 06/17/10						
Cadmium	136	4.0	µg/L	100	38	98.0	70-130			
Copper	401	2.0	"	100	330	71.0	70-130			
Lead	109	4.0	"	100	12	97.0	70-130			
Zinc	4230	2.0	"	100	4800	NR	70-130			QM-07
Matrix Spike Dup (B0F1608-MSD1)	**Source: 1006256-01**			Prepared: 06/16/10 Analyzed: 06/17/10						
Cadmium	134	4.0	µg/L	100	38	96.0	70-130	1.48	30	
Copper	415	2.0	"	100	330	85.0	70-130	3.43	30	
Lead	109	4.0	"	100	12	97.0	70-130	0.00	30	
Zinc	4580	2.0	"	100	4800	NR	70-130	7.95	30	QM-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/21/10 17:03

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Certificate of Analysis

Report Date: Thursday, July 15, 2010
Received Date: Thursday, June 17, 2010
Received Time: 1:05 pm
Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Phones: (949) 348-9389
Fax: (949) 348-9115

Attn: Nick Forsyth
Project: 1006256

P.O. #:

Lab Sample ID: 0F17022-01 **Sample ID:** CB08-8-6-15-10 (1006256-01) **Matrix:** Water
Sampled by: Client **Sampled:** 06/15/10 09:15

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Azinphos methyl (Guthion)	ND	0.12	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Bolstar	ND	0.088	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Chlorpyrifos	ND	0.041	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Coumaphos	ND	0.068	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Demeton-o	ND	0.049	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Demeton-s	ND	0.063	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Diazinon	ND	0.058	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Dichlorvos	ND	0.11	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Dimethoate	ND	0.087	0.25	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Disulfoton	ND	0.064	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Ethoprop	ND	0.11	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Ethyl parathion	ND	0.12	0.25	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Fensulfothion	ND	0.090	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Fenthion	ND	0.027	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Malathion	ND	0.11	0.25	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Merphos	ND	0.062	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Methyl parathion	ND	0.057	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Mevinphos	ND	0.089	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Naled	ND	0.060	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Phorate	ND	0.054	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Ronnel	ND	0.037	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Stirophos	ND	0.050	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Thionazin	ND	0.15	0.25	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Tokuthion (Prothiofos)	ND	0.063	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Trichloronate	ND	0.031	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752	
Surrogate: Triphenyl phosphate	*148 %*		*6-173*							

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Quality Control Section

SpQualifi

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Batch W0F0752 - EPA 8141A

Blank (W0F0752-BLK1) **Prepared: 06/18/10 Analyzed: 06/22/10 15:09**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.748*		ug/l	*1.00*	*75*	*6-173*		
Azinphos methyl (Guthion)		ND		ug/l					
Bolstar		ND		ug/l					
Chlorpyrifos		ND		ug/l					
Coumaphos		ND		ug/l					
Demeton-o		ND		ug/l					
Demeton-s		ND		ug/l					
Diazinon		ND		ug/l					
Dichlorvos		ND		ug/l					
Disulfoton		ND		ug/l					
Ethoprop		ND		ug/l					
Fensulfothion		ND		ug/l					
Fenthion		ND		ug/l					
Merphos		ND		ug/l					
Methyl parathion		ND		ug/l					
Mevinphos		ND		ug/l					
Naled		ND		ug/l					
Phorate		ND		ug/l					
Ronnel		ND		ug/l					
Stirophos		ND		ug/l					
Tokuthion (Prothiofos)		ND		ug/l					
Trichloronate		ND		ug/l					
Thionazin		ND		ug/l					
Dimethoate		ND		ug/l					
Malathion		ND		ug/l					
Ethyl parathion		ND		ug/l					

LCS (W0F0752-BS1) **Prepared: 06/18/10 Analyzed: 06/22/10 15:09**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.917*		ug/l	*1.00*	*92*	*6-173*		
Azinphos methyl (Guthion)		0.918		ug/l	1.00	92	18-159		
Bolstar		0.917		ug/l	1.00	92	49-148		
Chlorpyrifos		0.735		ug/l	1.00	73	49-143		
Coumaphos		0.909		ug/l	1.00	91	42-161		
Demeton-o		0.955		ug/l	1.00	96	47-132		
Demeton-s		0.759		ug/l	1.00	76	45-147		
Diazinon		0.975		ug/l	1.00	98	46-136		
Dichlorvos		1.06		ug/l	1.00	106	29-164		
Disulfoton		0.778		ug/l	1.00	78	46-155		
Ethoprop		0.883		ug/l	1.00	88	54-141		

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Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Batch W0F0752 - EPA 8141A

LCS (W0F0752-BS1) — **Prepared: 06/18/10 Analyzed: 06/22/10 15:09**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Fensulfothion		0.934		ug/l	1.00	93	54-167		
Fenthion		0.918		ug/l	1.00	92	50-143		
Merphos		1.37		ug/l	1.00	137	40-185		
Methyl parathion		0.881		ug/l	1.00	88	47-142		
Mevinphos		0.907		ug/l	1.00	91	43-145		
Naled		0.283		ug/l	1.00	28	16-177		
Phorate		0.820		ug/l	1.00	82	56-134		
Ronnel		0.941		ug/l	1.00	94	49-140		
Stirophos		0.909		ug/l	1.00	91	46-146		
Tokuthion (Prothiofos)		0.945		ug/l	1.00	94	52-139		
Trichloronate		0.867		ug/l	1.00	87	52-136		

LCS Dup (W0F0752-BSD1) — **Prepared: 06/18/10 Analyzed: 06/22/10 15:09**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.927*		ug/l	*1.00*	*93*	*6-173*		
Azinphos methyl (Guthion)		1.01		ug/l	1.00	101	18-159	10	25
Bolstar		0.942		ug/l	1.00	94	49-148	3	25
Chlorpyrifos		0.706		ug/l	1.00	71	49-143	4	25
Coumaphos		0.970		ug/l	1.00	97	42-161	6	25
Demeton-o		0.920		ug/l	1.00	92	47-132	4	25
Demeton-s		0.718		ug/l	1.00	72	45-147	6	25
Diazinon		0.910		ug/l	1.00	91	46-136	7	25
Dichlorvos		1.10		ug/l	1.00	110	29-164	3	25
Disulfoton		0.752		ug/l	1.00	75	46-155	3	25
Ethoprop		0.837		ug/l	1.00	84	54-141	5	25
Fensulfothion		1.01		ug/l	1.00	101	54-167	7	25
Fenthion		0.877		ug/l	1.00	88	50-143	5	25
Merphos		1.38		ug/l	1.00	138	40-185	0.5	25
Methyl parathion		0.830		ug/l	1.00	83	47-142	6	25
Mevinphos		0.919		ug/l	1.00	92	43-145	1	25
Naled		0.161	Q-12	ug/l	1.00	16	16-177	55	25
Phorate		0.770		ug/l	1.00	77	56-134	6	25
Ronnel		0.898		ug/l	1.00	90	49-140	5	25
Stirophos		0.920		ug/l	1.00	92	46-146	1	25
Tokuthion (Prothiofos)		0.918		ug/l	1.00	92	52-139	3	25
Trichloronate		0.934		ug/l	1.00	93	52-136	7	25

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Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

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

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

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP #1132
LACSD # 10143
NELAC # 04229CA

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

Flags for Data Qualifiers:

Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for = 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 0F17022

Printed: 6/18/2010 12:15:27PM

Client: Sierra Analytical
Project: 8141

Project Manager: Kim G Tu
Project Number: 1006256

Report To:
Sierra Analytical
Nick Forsyth
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone: (949) 348-9389
Fax: (949) 348-9115

Invoice To:
Sierra Analytical
Andrew Kim
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone :(949) 348-9389
Fax: (949) 348-9115

Date Due: **07/01/10 15:00 (10 day TAT)**

Received By: Jaime Gomez
Logged In By: Jaime Gomez

Date Received: 06/17/10 13:05
Date Logged In: 06/17/10 14:40

Samples Received at:	**5.2°C**	All containers intact:	**Yes**	Chain of custody completed:	**Yes**
Number of Ice chests/packages:	**1**	Custody seals preser	**NA**	Sample labels & COC agree:	**Yes**
		Custody seals intact:	**NA**	Samples preserved properly:	**Yes**
Appropriate Sample Containers:	**Yes**	Samples received on ic	**Yes**	Sample volume sufficient:	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests:	**Yes**

Analysis	TAT	Expires	Comments
0F17022-01 CB08-8-6-15-10 (1006256-01) [Water] Sampled 06/15/10 09:15 Pacific			
8141A Water	10	06/22/10 09:15	

Comments:

Kim Tu — 6/18/2010

Authorized Signature — Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

SIERRA ANALYTICAL

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 1006256 ✓

OF17022

Comments

SENDING LABORATORY:

Sierra Analytical Labs, Inc. ✓
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone: (949) 348-9389
Fax: (949) 348-9115 ✓
Laboratory Contact: Nick Forsyth

Turn Around Time Requested: ■ Normal ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day

RECEIVING LABORATORY:

Weck Laboratories
14859 E. Clark Ave.
City of Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634

Analysis	Expires	Sampled:	Laboratory ID	Comments
Sample ID: CB08-8-6-15-10 (1006256-01) ✓	**Liquid**	**06/15/10 09:15** ✓ ✓	[redacted]	
8141A O-P Pesticides (Low Level - 0.05	06/22/10 09:15			
Containers Supplied: ✓				
1L Amber (A)				

Special Instructions :

☐ Intact ☐ Sample Seals
☐ Properly Labeled ☐ Chilled TEMP (°C) 5.2°C ✓
☐ Appropriate Container ☐ Preservatives - Verified By

B. M	6/17/10 1305	[signature]	6/17/10 1305 ✓
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

CHAIN OF CUSTODY RECORD

SIERRA ANALYTICAL
TEL: 949•348•9389
FAX: 949•348•9115
26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

Date: 6/15/10 Page 1 of 1

Lab Project No.: 1006256

Client: MACTEC
Client Address: 9177 Sky Park Ct
San Diego CA 92102
Client Tel. No.: 858-27836000
Client Fax. No.:
Client Proj. Mgr.: Amanda Archenhold

Client Project ID:

Turn Around Time Requested: ☐ Immediate ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day ☐ Normal ☐ Mobile

Geotracker EDD Info:

Client LOGCODE

Site Global ID

Field Point Names/ Comments

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Oil & Grease	Diazinon	Chlorpyrifos	Dissolved Cd, Cu, Pb + Zn	Total Coliform	Fecal Coliform	Enterococcus	Hardness
CBO 8-8-6-15-10	01	6/15/10	0915	W	—	Various	6	X	X	X	X	X	X	X	X

Analysis Requested

1 Sampler Signature: K. Green
Printed Name: Kris Green
Shipped Via:
(Carrier/Waybill No.)

2 Relinquished By: K. Green — Date: 6-15-10 — Time: 12:15
Company: MACTEC
Received By: B. Walker — Date: 6/15/10 — Time: 12:15
Company: Sierra

3 Relinquished By: — Date: — Time:
Company:
Received By: — Date: — Time:
Company:

4 Relinquished By: — Date: — Time:
Company:
Received By: — Date: — Time:
Company:

6 Total Number of Containers Submitted to Laboratory

6 Total Number of Containers Received by Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analysis specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.
* - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

Sample Disposal:
☐ Return to Client
☐ Lab Disposal*
☐ Archive ____ mos.
☐ Other ____

FOR LABORATORY USE ONLY - Sample Receipt Conditions:

☑ Intact — ☑ Chilled - Temp. (°C) 4.0°
☐ Sample Seals — ☐ Preservatives - Verified By
☑ Properly Labelled — ☐ Other
☑ Appropriate Sample Container — ☑ Storage Location MICRO - RISE

Special Instructions: Please email results to:
Kgreen@mactec.com

Rev: 102005

DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy

DRY WEATHER MONITORING EVENT 3

(7/14/10)

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB01-1*	**Latitude**	(e.g., 33.41174) 32.73283	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin near landmark	**Longitude**	(e.g., -117.35213) -117.17764		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0720	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog	
Tide	N/A	x Low	Incoming	High	Outgoing **Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken x Yes No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: ***alternate site used due to construction.**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X Field Screening **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB03-2	**Latitude**	(e.g., 33.41174) 32.72864	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin @ S. end of blast fence	**Longitude**	(e.g., -117.35213) -117.17843		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0806	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%): Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only): Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	x None	Yellow	Brown	White	Gray		Other
Clarity	x Clear		Slightly Cloudy	Opaque			Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	x None	Limited	Normal	Excessive			Other
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded Dry x Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)	23.3	MBAS (mg/L)	

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is clearly seawater _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB05-3	**Latitude**	(e.g., 33.41174) 32.73782	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Rental car parking lot	**Longitude**	(e.g., -117.35213) -117.18311		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0812	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	x Clear		Slightly Cloudy	Opaque		Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects / Algae	Fish / Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail / Other

Water Flow Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | x No | N/A

Evidence of Overland Flow? x Yes | No | Irrigation Runoff | x Other: watering truck used for dust suppression

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	21.3	NH_3-N (mg/L)	0.1	NO_3-N (mg/L)	0.5	Ortho-PO_4 (mg/L)	0.2
pH (pH units)	7.73	TURB (NTU)	4.99	COND (mS/cm)	1.85	MBAS (mg/L)	0.5

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Water in catch from dust suppression water truck.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB05-4	**Latitude**	(e.g., 33.41174) 32.73063	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Catch basin near generator yard	**Longitude**	(e.g., -117.35213) -117.18301		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1288 G1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0800	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	x None	Yellow	Brown	White	Gray	Other
Clarity	x Clear		Slightly Cloudy	Opaque		Other
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae Insect/ Snail	Other

Water Flow Flowing Ponded Dry x Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? x Yes No **(Conductivity only)**

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)	44	MBAS (mg/L)	

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		Sec
Flow		Gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: Water at bottom of catch basin is seawater._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB06-5	**Latitude**	(e.g., 33.41174) 32.73584	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	CB near Air traffic control tower	**Longitude**	(e.g., -117.35213) -117.18637		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0725	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	x Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		Sec
Flow		Gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Dry

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x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB07-6	**Latitude**	(e.g., 33.41174) 32.73085	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Oil water separator At ASIG/American	**Longitude**	(e.g., -117.35213) -117.19323		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0628	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) x Manhole Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	x Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB07-7	**Latitude**	(e.g., 33.41174) 32.73000	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	West wing parking lot	**Longitude**	(e.g., -117.35213) -117.19390		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0600	**Observer**	KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog	
Tide	N/A	x Low	Incoming	High	Outgoing **Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	xNone	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: Dry

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ x **IC/ID Follow-Up For** 6/15/2010

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB08-8	**Latitude**	(e.g., 33.41174) 32.73368	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Southwest Slit Trench	**Longitude**	(e.g., -117.35213) -117.19673		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0830	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | x Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather: x Sunny | Partly Cloudy | Overcast | Fog

Tide: N/A | x Low | Incoming | High | Outgoing **Tide Height:** _____ ft.

Last Rain: x > 72 hours | < 72 hours

Rainfall: x None | < 0.1" | > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	x Chemical	x Sewage			Other
Color	None	Yellow	x Brown	White	Gray			Other
Clarity	Clear		Slightly Cloudy	x Opaque				Other
Floatables	None	x Trash	Bubbles/Foam	x Sheen	Fecal Matter			Other
Deposits	None	Sediment/Gravel	Fine Particulates	Stains	x Oily Deposits			Other
Vegetation	x None	Limited	Normal	Excessive				Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | x No | N/A

Evidence of Overland Flow? x Yes | No | Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | No

Water Temp (°C)	24.3	NH_3-N (mg/L)	10+	NO_3-N (mg/L)	0.25	Ortho-PO_4 (mg/L)	inconclusive
pH (pH units)	6.41	TURB (NTU)	191	COND (mS/cm)	2.325	MBAS (mg/L)	2.5

Analytical Lab Samples Collected? x Yes | No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Field test kit results for Ammonia and phosphorus were not conclusive due to color of sample water (yellow/brown.)

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

Field Screening **Confirmation For** _____ x **IC/ID Follow-Up For** July 14,2010

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB08-8	**Latitude**	(e.g., 33.41174) 32.73368	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Southwest Slit Trench	**Longitude**	(e.g., -117.35213) -117.19673		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	8/12/2010	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	1135	**Observer**	KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole x Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather x Sunny Partly Cloudy Overcast Fog

Tide N/A x Low Incoming High Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours < 72 hours

Rainfall x None < 0.1" > 0.1"

RUNOFF CHARACTERISTICS

Odor	None	x Musty	Rotten Eggs	Chemical	Sewage	Other		
Color	None	x Yellow	x Brown	White	Gray	Other		
Clarity	Clear		x Slightly Cloudy	Opaque		Other		
Floatables	None	x Trash	Bubbles/Foam	x Sheen	Fecal Matter	Other		
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	x Oily Deposits	Other		
Vegetation	x None	Limited	Normal	Excessive		Other		
Biology	None	x Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing x Ponded Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? x Yes No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? x Yes No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB12-9*	**Latitude**	(e.g., 33.41174) 32.73516	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	Terminal 2 area trench drain	**Longitude**	(e.g., -117.35213) -117.20444		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0742	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) Residential Commercial x Industrial Agricultural Parks Open

Land Use (Secondary) (Optional, greater than 10%) Residential Commercial x Industrial Agricultural Parks Open None

Conveyance (Check one only) Manhole Catch Basin Outlet Concrete Channel Natural Creek Earthen Channel x Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog			
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.	
Last Rain	x > 72 hours	< 72 hours					
Rainfall	x None	< 0.1"	> 0.1"				

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects Algae	Fish Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken Yes x No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Alternate site used due to CB12-9 being under construction site SB12-13 (from wet weather monitoring) used instead. Site moist not flowing or samplable. _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

x **Field Screening** **Confirmation For** _____ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place) x **MS4** **Receiving Water**

Site ID	CB09-10	**Latitude**	(e.g., 33.41174) 32.72993	**Watershed**	**Hydrologic Unit**	(e.g., 7.00) 908
Location	T2 Entrance Road	**Longitude**	(e.g., -117.35213) -117.19748		**Hydrologic Area**	(e.g., 7.10) 908.2
Date	7/14/2010	**TB Page**	1299 F1		**Hydrologic Subarea** (Optional)	(e.g., 7.11) 908.21
Time	0615	**Observer**	KG, RR		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | x Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	x Low	Incoming	High	Outgoing	**Tide Height:** _____ ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	**Dry**
Color	None	Yellow	Brown	White	Gray	x Other	**Dry**
Clarity	Clear		Slightly Cloudy	Opaque		x Other	**Dry**
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	x Other	**Dry**
Deposits	x None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	

Biology	x None	x Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | No | x Irrigation Runoff | Other: _____

Photo Taken Yes | x No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		Ft
Depth		Ft
Velocity		ft/sec
Flow		Gpm

COMMENTS: Dry

2010 Trash Assessment Form

SITE ID: _____CB01-1_____ **DATE:** _____7/14/2010_____

LOCATION: ___CATCH BASIN NEAR LANDMARK___ **TIME:** __0720_____

OBSERVER: _____RR,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): _OPTIMAL_____

ESTIMATED AREA OF ASSESSMENT L x W (FT): 10x60_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB03-2 **DATE:** 7/14/2010

LOCATION: CATCH BASIN NEAR BLAST FENCE **TIME:** 0806

OBSERVER: RR,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L x W (FT): 50x50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB05-3 **DATE:** 7/14/2010

LOCATION: RENTAL CAR PARKING LOT **TIME:** 0645

OBSERVER: RR,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): SUBOPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 50X50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB05-4 **DATE:** 7/14/2010

LOCATION: CATCH BASIN NEAR GENERATORS **TIME:** 0600

OBSERVER: RR,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 50x50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB06-5 **DATE:** 7/14/2010

LOCATION: CATCH BASIN NEAR LANDMARK **TIME:** 0725

OBSERVER: RR,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L x W (FT): 50x50

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB07-06 **DATE:** 7/14/2010

LOCATION: AA OIL/WATER SEP **TIME:** 0628

OBSERVER: RR,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 20X20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] MS4 [ ] RECEIVING WATER [ ] BOTH	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB07-7 **DATE:** 7/14/10

LOCATION: WEST WING PARKING LOT **TIME:** 0600

OBSERVER: KRIS GREEN

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL

ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] **MS4** [ ] **RECEIVING WATER** [ ] **BOTH**	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: CB08-8 **DATE:** 7/14/2010

LOCATION: SW SLIT TRENCH **TIME:** 0830

OBSERVER: RR,KG

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): SUBOPTIMAL

ESTIMATED AREA OF ASSESSMENT L X W (FT): 20x20

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] MS4 [ ] RECEIVING WATER [ ] BOTH	
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB12-9_____ **DATE:** _____7/14/2010_____

LOCATION: ___SLIT TRENCH AT T-2 AREA___ **TIME:** __0742_____

OBSERVER: _____RR,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): _____OPTIMAL_____

ESTIMATED AREA OF ASSESSMENT L X W (FT): 250x20_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [X] **MS4** [ ] **RECEIVING WATER** [ ] **BOTH**	
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

2010 Trash Assessment Form

SITE ID: _____CB09-10_____ **DATE:** _____7/14/2010_____

LOCATION: ___T2 ENTRANCE ROAD_____ **TIME:** __0615_____

OBSERVER: _____RR,KG_____

PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): ___OPTIMAL_____

ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20_____

Amount and Extent of Trash	
EVALUATION OF TRASH INCLUDES*: [x] **MS4** [ ] **RECEIVING WATER** [ ] **BOTH**	
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
☐ **Suboptimal**	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
☐ **Marginal**	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
☐ **Submarginal**	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
☐ **Poor**	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)	
☐ **Potential Threat to Human Health**	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ **Potential Threat to Aquatic Health**	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

- **Complete the following section for Submarginal, and Poor Evaluations ONLY**

TYPE	Ranking or Count by Type *	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:_____

SIERRA ANALYTICAL

26 July 2010

Amanda Archenhold
MACTEC Engineering & Consulting
9177 Sky Park Court Suite A
San Diego, CA 92123

RE:San Diego Airport

Work Order No.: 1007190

Attached are the results of the analyses for samples received by the laboratory on 07/14/10 11:40.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),
Environmental Laboratory Accredidation Program (ELAP) No. 2320.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	07/26/10 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-7-14-10	1007190-01	Liquid	07/14/10 08:30	07/14/10 11:40

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwises noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	07/26/10 14:44

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-7-14-10 (1007190-01) Liquid	**Sampled: 07/14/10 08:30 Received: 07/14/10 11:40**								
Enterococcus	**1400**	200	MPN/100 mL	100	B0G2027	07/14/10	07/14/10 13:00	SM 9230B	
Fecal Coliforms	**5000**	200	"	"	"	"	"	SM 9221E	
Total Coliforms	**50000**	200	"	"	"	"	"	SM 9221B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	07/26/10 14:44

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-7-14-10 (1007190-01) Liquid	**Sampled: 07/14/10 08:30 Received: 07/14/10 11:40**								
Total Hardness	**562**	0.400	mg/L	1	B0G1923	07/19/10	07/19/10 19:08	SM 2340 C	
Hexane Extractable Material (HEM)	**14.2**	2.00	"	"	"	"	"	EPA 1664	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting 9177 Sky Park Court Suite A San Diego CA, 92123	Project: San Diego Airport Project Number: [none] Project Manager: Amanda Archenhold	**Reported:** 07/26/10 14:44

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-7-14-10 (1007190-01) Liquid	**Sampled: 07/14/10 08:30 Received: 07/14/10 11:40**								
Cadmium	**33**	4.0	µg/L	2	B0G1506	07/15/10	07/16/10 12:24	EPA 200.8	
Copper	**110**	2.0	"	"	"	"	"	"	
Lead	**14**	4.0	"	"	"	"	"	"	
Zinc	**3300**	5.0	"	5	"	"	07/16/10 12:20	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	07/26/10 14:44

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0G1506 - EPA 200 Series										
Blank (B0G1506-BLK1)				Prepared: 07/15/10 Analyzed: 07/16/10						
Cadmium	ND	4.0	µg/L							
Copper	ND	2.0	"							
Lead	ND	4.0	"							
Zinc	2.19	2.0	"							QB-01
LCS (B0G1506-BS1)				Prepared: 07/15/10 Analyzed: 07/16/10						
Cadmium	198	4.0	µg/L	200		99.0	85-115			
Copper	189	2.0	"	200		94.5	85-115			
Lead	203	4.0	"	200		102	85-115			
Zinc	197	2.0	"	200		98.5	85-115			
Matrix Spike (B0G1506-MS1)	**Source: 1007190-01**			Prepared: 07/15/10 Analyzed: 07/16/10						
Cadmium	233	4.0	µg/L	200	33	100	70-130			
Copper	319	2.0	"	200	110	104	70-130			
Lead	213	4.0	"	200	14	99.5	70-130			
Zinc	2650	2.0	"	200	3300	NR	70-130			QM-07
Matrix Spike Dup (B0G1506-MSD1)	**Source: 1007190-01**			Prepared: 07/15/10 Analyzed: 07/16/10						
Cadmium	235	4.0	µg/L	200	33	101	70-130	0.855	30	
Copper	267	2.0	"	200	110	78.5	70-130	17.7	30	
Lead	218	4.0	"	200	14	102	70-130	2.32	30	
Zinc	2610	2.0	"	200	3300	NR	70-130	1.52	30	QM-07

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	07/26/10 14:44

Notes and Definitions

QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Certificate of Analysis

Report Date: Friday, July 30, 2010
Received Date: Thursday, July 15, 2010
Received Time: 10:50 am
Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Attn: Nick Forsyth
Project: 1007190

Phones: (949) 348-9389
Fax: (949) 348-9115

P.O. #:

Lab Sample ID: 0G15009-01 **Sample ID: CB08-8-7-14-10 (1007190-01)** **Matrix:** Water
Sampled by: Client **Sampled: 07/14/10 08:30**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Azinphos methyl (Guthion)	ND	0.60	0.75	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Bolstar	ND	0.44	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Chlorpyrifos	ND	0.20	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Coumaphos	ND	0.34	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Demeton-o	ND	0.24	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Demeton-s	ND	0.32	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Diazinon	ND	0.29	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Dichlorvos	ND	0.53	0.75	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Dimethoate	ND	0.44	1.2	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Disulfoton	ND	0.32	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Ethoprop	ND	0.53	0.75	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Ethyl parathion	ND	0.60	1.2	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Fensulfothion	ND	0.45	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Fenthion	ND	0.14	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Malathion	ND	0.55	1.2	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Merphos	ND	0.31	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Methyl parathion	ND	0.28	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Mevinphos	ND	0.44	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Naled	ND	0.30	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Phorate	ND	0.27	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Ronnel	ND	0.18	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Stirophos	ND	0.25	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Thionazin	ND	0.75	1.2	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Tokuthion (Prothiofos)	ND	0.32	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Trichloronate	ND	0.16	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Surrogate: Triphenyl phosphate	*912 %*		*6-173*							*M-04, S-04*

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Quality Control Section

SpQualifi

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Batch W0G0568 - EPA 8141A

Blank (W0G0568-BLK1) — **Prepared: 07/16/10 Analyzed: 07/27/10 11:33**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.877*		ug/l	*1.00*	*88*	*6-173*		
Azinphos methyl (Guthion)		ND		ug/l					
Bolstar		ND		ug/l					
Chlorpyrifos		ND		ug/l					
Coumaphos		ND		ug/l					
Demeton-o		ND		ug/l					
Demeton-s		ND		ug/l					
Diazinon		ND		ug/l					
Dichlorvos		ND		ug/l					
Disulfoton		ND		ug/l					
Ethoprop		ND		ug/l					
Fensulfothion		ND		ug/l					
Fenthion		ND		ug/l					
Merphos		ND		ug/l					
Methyl parathion		ND		ug/l					
Mevinphos		ND		ug/l					
Naled		ND		ug/l					
Phorate		ND		ug/l					
Ronnel		ND		ug/l					
Stirophos		ND		ug/l					
Tokuthion (Prothiofos)		ND		ug/l					
Trichloronate		ND		ug/l					
Thionazin		ND		ug/l					
Dimethoate		ND		ug/l					
Malathion		ND		ug/l					
Ethyl parathion		ND		ug/l					

LCS (W0G0568-BS1) — **Prepared: 07/16/10 Analyzed: 07/27/10 12:04**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.853*		ug/l	*1.00*	*85*	*6-173*		
Azinphos methyl (Guthion)		1.09		ug/l	1.00	109	18-159		
Bolstar		0.871		ug/l	1.00	87	49-148		
Chlorpyrifos		0.675		ug/l	1.00	68	49-143		
Coumaphos		1.00		ug/l	1.00	100	42-161		
Demeton-o		0.880		ug/l	1.00	88	47-132		
Demeton-s		1.01		ug/l	1.00	101	45-147		
Diazinon		0.912		ug/l	1.00	91	46-136		
Dichlorvos		1.17		ug/l	1.00	117	29-164		
Disulfoton		0.865		ug/l	1.00	87	46-155		
Ethoprop		0.877		ug/l	1.00	88	54-141		

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Certificate of Analysis

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Batch W0G0568 - EPA 8141A

LCS (W0G0568-BS1) — **Prepared: 07/16/10 Analyzed: 07/27/10 12:04**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Fensulfothion		1.01		ug/l	1.00	101	54-167		
Fenthion		0.886		ug/l	1.00	89	50-143		
Merphos		2.08	Q-08	ug/l	1.00	208	40-185		
Methyl parathion		0.862		ug/l	1.00	86	47-142		
Mevinphos		0.988		ug/l	1.00	99	43-145		
Naled		0.339		ug/l	1.00	34	16-177		
Phorate		0.862		ug/l	1.00	86	56-134		
Ronnel		0.856		ug/l	1.00	86	49-140		
Stirophos		0.951		ug/l	1.00	95	46-146		
Tokuthion (Prothiofos)		0.846		ug/l	1.00	85	52-139		
Trichloronate		1.00		ug/l	1.00	100	52-136		

LCS Dup (W0G0568-BSD1) — **Prepared: 07/16/10 Analyzed: 07/27/10 12:35**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		*0.848*		ug/l	*1.00*	*85*	*6-173*		
Azinphos methyl (Guthion)		1.04		ug/l	1.00	104	18-159	5	25
Bolstar		0.814		ug/l	1.00	81	49-148	7	25
Chlorpyrifos		0.648		ug/l	1.00	65	49-143	4	25
Coumaphos		0.953		ug/l	1.00	95	42-161	5	25
Demeton-o		0.881		ug/l	1.00	88	47-132	0.1	25
Demeton-s		0.848		ug/l	1.00	85	45-147	18	25
Diazinon		0.882		ug/l	1.00	88	46-136	3	25
Dichlorvos		1.21		ug/l	1.00	121	29-164	4	25
Disulfoton		0.810		ug/l	1.00	81	46-155	7	25
Ethoprop		0.827		ug/l	1.00	83	54-141	6	25
Fensulfothion		0.934		ug/l	1.00	93	54-167	8	25
Fenthion		0.904		ug/l	1.00	90	50-143	2	25
Merphos		1.67		ug/l	1.00	167	40-185	21	25
Methyl parathion		0.742		ug/l	1.00	74	47-142	15	25
Mevinphos		0.937		ug/l	1.00	94	43-145	5	25
Naled		0.0864	BS-03	ug/l	1.00	9	16-177	119	25
Phorate		0.812		ug/l	1.00	81	56-134	6	25
Ronnel		0.803		ug/l	1.00	80	49-140	6	25
Stirophos		0.880		ug/l	1.00	88	46-146	8	25
Tokuthion (Prothiofos)		0.808		ug/l	1.00	81	52-139	5	25
Trichloronate		0.946		ug/l	1.00	95	52-136	6	25

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

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

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

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

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

Flags for Data Qualifiers:

BS-03	The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and RL were raised due to the dilution.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for = 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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www.wecklabs.com

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 0G15009

Printed: 7/16/2010 12:03:42PM

Client: Sierra Analytical
Project: 8141

Project Manager: Kim G Tu
Project Number: 1007190

Report To:
Sierra Analytical
Nick Forsyth
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone: (949) 348-9389
Fax: (949) 348-9115

Invoice To:
Sierra Analytical
Andrew Kim
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone :(949) 348-9389
Fax: (949) 348-9115

Date Due: **07/29/10 15:00 (10 day TAT)**

Received By: Jaime Gomez
Logged In By: Jaime Gomez

Date Received: 07/15/10 10:50
Date Logged In: 07/15/10 11:20

Samples Received at:	**4.4°C**	All containers intact:	**Yes**	Chain of custody completed:	**Yes**
Number of Ice chests/packages:	1	Custody seals preser	**NA**	Sample labels & COC agree:	**Yes**
Appropriate Sample Containers:	**Yes**	Custody seals intact:	**NA**	Samples preserved properly:	**Yes**
		Samples received on ic	**Yes**	Sample volume sufficient:	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests:	**Yes**

Analysis	TAT	Expires	Comments
0G15009-01 CB08-8-7-14-10 (1007190-01) [Water] Sampled 07/14/10 08:30 Pacific			
8141A Water	10	07/21/10 08:30	

Comments:

Kim Tu — 7/16/2010

Authorized Signature — Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

SIERRA ANALYTICAL

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 1007190 0615009

Comments

SENDING LABORATORY:

Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone: (949) 348-9389
Fax: (949) 348-9115
Laboratory Contact: Nick Forsyth

Turn Around Time Requested: ☒ Normal ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day

RECEIVING LABORATORY:

Weck Laboratories
14859 E. Clark Ave.
City of Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634

Analysis	Expires	Sampled:	Laboratory ID	Comments
Sample ID: CB08-8-7-14-10 (1007190-01)	**Liquid**	**07/14/10 08:30**		
8141A O-P Pesticides (Low Level - 0.05	07/21/10 08:30			
Containers Supplied:				
1L Amber (A)				

Special Instructions :

☐ Intact ☐ Sample Seals
☐ Properly Labeled ☐ Chilled TEMP (°C) 4.4°C
☐ Appropriate Container ☐ Preservatives - Verified By

NDeBlasdell	7/15/10 10:50	JaimeGrmon	7/15/10 1050
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

CHAIN OF CUSTODY RECORD

SIERRA ANALYTICAL
TEL: 949•348•9389
FAX: 949•348•9115
26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

Date: 7/14/10 Page 1 of 1

Lab Project No.: 1007190

Client: MACTEC
Client Address: 9177 Sky Park Ct
San Diego CA 92123
Client Tel. No.:
Client Fax. No.:
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: S.D. Airport

Turn Around Time Requested: ☐ Immediate ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day ☐ Normal ☐ Mobile

Analysis Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Oil & Grease	Diazinon	Chlorpyrifos	Dissolved Cd, Cu & Zn	Total Coliform	Fecal Coliform	Enterococcus	Hardness
CB08-8-7-14-10	01	7/14	0830	W	—	Various	6	X	X	X	X	X	X	X	X

Geotracker EDD Info:
Client LOGCODE
Site Global ID
Field Point Names/ Comments

1 Sampler Signature: K. Green
Printed Name: Kris Green

Shipped Via: —
(Carrier/Waybill No.) —

2 Relinquished By: K. Green — Date: 7/14 — Time: 1140
Company: MACTEC

Received By: Rachael Brady — Date: 7/14/10 — Time: 1140
Company: Sierra

3 Relinquished By: — Date: — Time:
Company:

Received By: — Date: — Time:
Company:

4 Relinquished By: — Date: — Time:
Company:

Received By: — Date: — Time:
Company:

6 — Total Number of Containers Submitted to Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analysis specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.
* - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

6 — Total Number of Containers Received by Laboratory

Sample Disposal:
☐ Return to Client
☐ Lab Disposal*
☐ Archive _____ mos.
☐ Other _____

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact
☐ Sample Seals
☑ Properly Labelled
☑ Appropriate Sample Container
☑ Chilled - Temp. (°C) 4.0
☐ Preservatives - Verified By
☐ Other
☑ Storage Location R185 - Werchen

Special Instructions: Please email results to kgreen@mactec.com

DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy

Rev: 102005

SIERRA ANALYTICAL

20 August 2010

Amanda Archenhold
MACTEC Engineering & Consulting
9177 Sky Park Court Suite A
San Diego, CA 92123

RE:San Diego Airport

Work Order No.: 1008213

Attached are the results of the analyses for samples received by the laboratory on 08/12/10 13:25.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	08/20/10 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-8-12-10	1008213-01	Liquid	08/12/10 11:35	08/12/10 13:25

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwises noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	08/20/10 14:51

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-8-12-10 (1008213-01) Liquid	**Sampled: 08/12/10 11:35 Received: 08/12/10 13:25**								
Total Hardness	**1190**	0.400	mg/L	1	B0H1914	08/19/10	08/19/10 14:58	SM 2340 C	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 Merit Circle Suite 105, Laguna Hills, California 92653
Telephone: (949) 348-9389 Fax: (949) 348-9115
E-Mail: sierralabs @ sierralabs.net

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	08/20/10 14:51

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-8-12-10 (1008213-01) Liquid	**Sampled: 08/12/10 11:35**		**Received: 08/12/10 13:25**						
Cadmium	**54**	10	µg/L	5	B0H1306	08/13/10	08/16/10 17:12	EPA 200.8	
Copper	**2300**	5.0	"	"	"	"	"	"	
Zinc	**3200**	5.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	08/20/10 14:51

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0H1306 - EPA 200 Series										
Blank (B0H1306-BLK1)				Prepared: 08/13/10 Analyzed: 08/16/10						
Cadmium	ND	4.0	µg/L							
Copper	ND	2.0	"							
Zinc	ND	2.0	"							
LCS (B0H1306-BS1)				Prepared: 08/13/10 Analyzed: 08/16/10						
Cadmium	194	4.0	µg/L	200		97.0	85-115			
Copper	174	2.0	"	200		87.0	85-115			
Zinc	184	2.0	"	200		92.0	85-115			
Matrix Spike (B0H1306-MS1)	**Source: 1008151-01**			Prepared: 08/13/10 Analyzed: 08/16/10						
Cadmium	198	4.0	µg/L	200	0.36	98.8	70-130			
Copper	185	2.0	"	200	15	85.0	70-130			
Zinc	317	2.0	"	200	190	63.5	70-130			QM-07
Matrix Spike Dup (B0H1306-MSD1)	**Source: 1008151-01**			Prepared: 08/13/10 Analyzed: 08/16/10						
Cadmium	194	4.0	µg/L	200	0.36	96.8	70-130	2.04	30	
Copper	181	2.0	"	200	15	83.0	70-130	2.19	30	
Zinc	282	2.0	"	200	190	46.0	70-130	11.7	30	QM-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	08/20/10 14:51

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY RECORD

SIERRA ANALYTICAL
TEL: 949•348•9389
FAX: 949•348•9115
26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

Date: 8/12/10 Page 1 of 1

Lab Project No.: 1008013

Client: Mactec
Client Address: 9177 Sky Park Ct San Diego CA 92123
Client Tel. No.: 858 278 3600
Client Fax. No.:
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: SD Airport

Turn Around Time Requested: ☐ Immediate ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day ☑ Normal ☐ Mobile

Analysis Requested

Geotracker EDD Info:
Client LOGCODE
Site Global ID

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Dissolved Cd, Cu, Zn	Hardness	Field Point Names/ Comments
CB08-8-8-12-10	01	8/12	1135	W	-	Poly	2	X	X	

1 Sampler Signature: K. H
Printed Name: Kris Green
Shipped Via:
(Carrier/Waybill No.)

2 Relinquished By: K. H Date: 8/12 Time: 13:25
Company: MACTEC
Received By: Michael Beach Date: 8/12/10 Time: 1325
Company: Sierra

3 Relinquished By: Date: Time:
Company:
Received By: Date: Time:
Company:

4 Relinquished By: Date: Time:
Company:
Received By: Date: Time:
Company:

Special Instructions:

2 Total Number of Containers Submitted to Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analysis specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT. * - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

2 Total Number of Containers Received by Laboratory

Sample Disposal:
☐ Return to Client
☐ Lab Disposal*
☐ Archive _____ mos.
☐ Other _____

FOR LABORATORY USE ONLY - Sample Receipt Conditions:

☑ Intact
☐ Sample Seals
☑ Properly Labelled
☑ Appropriate Sample Container
☑ Chilled - Temp. (°C) 4.0
☐ Preservatives - Verified By
☐ Other
☑ Storage Location R501

Rev: 102005

DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy

Appendix C

FY09-10 Wet Weather Sampling Results

STORM EVENT 1

(12/7/09)

12/7/09 Compliance Sites Analytical Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results									
					C-B01-1 12-7-09	C-B03-2 12-7-09	C-B05-3 12-7-09	C-B05-4 12-7-09	C-B06-5 12-7-09	C-B07-6 12-7-09	C-B07-7 12-7-09	C-B08-8 12-7-09	C-B12-9 12-7-09	C-B09-10 12-7-09
Conventionals														
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	2.55	1.95	2.10	5.60	6.70	1.10	2.50	0.90	1.45	3.05
BOD	EPA 405.1	1	mg/l	2.00	27.0	4.60	80.0	84.0	89.0	16.2	78.0	ND	75.0	47.0
COD	EPA 410.4	1	mg/l	0.100	95.0	14.0	302	285	302	52.0	280	5.00	274	172
SC	EPA 120.1	1	µmhos/cm	0.100	195	103	1970	370	583	56	380	97.3	2220	260
MBAS	EPA 425.1	1	mg/l	0.0500	0.130	ND	0.180	0.240	0.210	0.110	0.310	ND	ND	0.15
Oil & Grease	EPA 1664	1	mg/l	2.00	2.50	ND	2.10	ND	2.20	ND	2.80	ND	ND	2.90
pH	EPA 150.1	1	pH Units	0.100	7.17	7.34	7.88	6.35	6.54	7.26	6.68	7.41	7.21	7.40
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	16.0	2.00	19.0	25.0	18.0	26.0	42.0	2.00	3.00	31.0
Metals (Total)														
Aluminum	EPA 200.8	2, 10	µg/L	50, 250	1900[a]	320[a]	3500[b]	870[a]	770[a]	580[a]	730[a]	56[a]	210[a]	1400[a]
Copper	EPA 200.8	2	µg/L	2.0	310	150	29	910	770	140	360	23	34	94
Iron	EPA 200.8	2	mg/l	0.050	2.6	0.43	4.0	1.2	0.89	0.94	0.79	ND	0.46	1.9
Lead	EPA 200.8	2	µg/L	2.0	24	11	19	6.6	4.4	7.5	6.8	ND	2.1	5.6
Zinc	EPA 200.8	2	µg/L	2.0	240	200	94	660	620	430	1200	59	130	240
Metals (Dissolved)														
Copper	EPA 200.8	2	µg/L	2.0	220	130	14	850	700	97	310	20	27	80
Zinc	EPA 200.8	2	µg/L	2.0	130	190	13	620	560	350	1100	55	120	200
Total Petroleum Hydrocarbons (TPH)														
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jet-A	EPA 8015B	1	mg/l	0.050	0.47	ND	0.095	1.5	1.2	0.30	1.2	0.22	0.51	0.42
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.62	ND	0.13	2.3	1.4	0.86	1.4	0.17	1.1	0.63
Glycols														
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

[a] Dilution = 2 and Reporting Limit = 50; b Dilution = 10 and Reporting Limit = 250
ND = Non Detect

12/7/09 BMP Effectiveness Sites Analytical and Particle Size Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2 12-7-09	S-B09-3/ S-B11-4 12-7-09	S-B06-12 12-7-09	S-B12-13 12-7-09	S-B08-14 12-7-09
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	13.8	9.20	28.4	ND	ND
COD	EPA 410.4	1	mg/l	0.100	52.0	30.0	102	2.00	5.00
SC	EPA 120.1	1	µmhos/cm	0.100	98.4	72.8	102	78.5	97.3
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	7.08	7.04	6.97	7.17	7.41
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	17.0	11.0	34.0	1.00	2.00
Metals (Total)									
Aluminum	EPA 200.8	2	µg/L	50	410	970	1300	62	56
Copper	EPA 200.8	2	µg/L	2.0	67	25	79	18	23
Iron	EPA 200.8	2	mg/l	0.050	0.63	1.5	1.9	0.084	ND
Lead	EPA 200.8	2	µg/L	2.0	3.0	8.5	8.8	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	260	110	320	40	59
Metals (Dissolved)									
Copper	EPA 200.8	2	µg/L	2.0	50	16	44	15	20
Zinc	EPA 200.8	2	µg/L	2.0	210	60	180	37	55
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND

Notes:
ND = Non Detect

12/7/09 Particle Size Results

Sample ID	Median Grain Size, micron	Cumulative Percent Greater Than (Distribution percent, microns)										
		5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12 12-7-09	202.411	1314.277	1029.129	820.445	585.327	316.586	202.411	124.132	68.513	40.702	21.365	12.013

STORM EVENT 2

(12/11/09)

12/11/09 Compliance Sites Analytical Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results									
					C-B01-1 12-11-09	C-B03-2 12-11-09	C-B05-3 12-11-09	C-B05-4 12-11-09	C-B06-5 12-11-09	C-B07-6 12-11-09	C-B07-7 12-11-09	C-B08-8 12-11-09	C-B12-9 12-11-09	C-B09-10 12-11-09
Conventionals														
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	2.45	NA	1.80	3.55	2.90	1.55	1.40	1.35	2.45	2.95
BOD	EPA 405.1	1	mg/l	2.00	7.80	NA	11.9	20.9	6.30	24.3	27.2	43.8	79.0	45.0
COD	EPA 410.4	1	mg/l	0.100	25.0	NA	41.0	87.0	26.0	98.0	103	207	325	175
SC	EPA 120.1	1	µmhos/cm	0.100	138	NA	328	230	173	196	237	467	1890	285
MBAS	EPA 425.1	1	mg/l	0.0500	0.150	NA	0.180	0.160	0.120	0.110	0.180	0.110	0.140	0.170
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	NA	ND	ND	ND	ND	ND	ND	3.10	2.50
pH	EPA 150.1	1	pH Units	0.100	7.19	NA	8.19	7.13	7.12	6.47	6.66	7.16	9.96	7.53
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	16.0	NA	14.0	8.00	11.0	17.0	12.0	4.00	38.0	29.0
Metals (Total)														
Aluminum	EPA 200.8	2, 10	µg/L	50, 250	850[a]	NA	4300[b]	540[a]	2000[a]	1000[a]	860[a]	160[a]	93[a]	420[a]
Copper	EPA 200.8	2	µg/L	2.0	87	NA	30	290	180	220	130	120	30	56
Iron	EPA 200.8	2	mg/l	0.050	1.0	NA	4.4	0.70	2.4	1.7	1.0	0.15	0.11	0.79
Lead	EPA 200.8	2	µg/L	2.0	5.1	NA	24	2.7	7.0	13	7.3	ND	ND	2.2
Zinc	EPA 200.8	2	µg/L	2.0	67	NA	160	280	170	970	580	380	24	160
Metals (Dissolved)														
Copper	EPA 200.8	2	µg/L	2.0	65	NA	9.8	240	130	140	100	83	24	47
Zinc	EPA 200.8	2	µg/L	2.0	40	NA	9.7	230	120	780	480	320	20	130
Total Petroleum Hydrocarbons (TPH)														
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Jet-A	EPA 8015B	1	mg/l	0.050	0.12	NA	0.085	0.50	0.14	0.95	0.48	0.78	0.38	0.39
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.20	NA	0.15	0.53	0.062	2.7	0.79	0.42	0.44	0.77
Glycols														
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	NA	ND	ND	ND	ND	ND	17.3	ND	ND

Notes:

[a] Dilution = 2 and Reporting Limit = 50; b Dilution = 10 and Reporting Limit = 250
ND = Non Detect

12/11/09 BMP Effectiveness Sites Analytical and Particle Size Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2 12-11-09	S-B09-3/ S-B11-4 12-11-09	S-B06-12 12-11-09	S-B12-13 12-11-09	S-B08-14 12-11-09
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	22.6	34.8	7.60	16.3	43.8
COD	EPA 410.4	1	mg/l	0.100	80.0	130	29.0	62.0	207
SC	EPA 120.1	1	µmhos/cm	0.100	193	252	243	279	467
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	2.00	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	6.43	6.67	7.32	7.18	7.16
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	23.0	26.0	7.00	4.00	4.00
Metals (Total)									
Aluminum	EPA 200.8	2	µg/L	50	640	1100	92	ND	160
Copper	EPA 200.8	2	µg/L	2.0	92	73	35	63	120
Iron	EPA 200.8	2	mg/l	0.050	1.0	1.7	0.18	0.087	0.15
Lead	EPA 200.8	2	µg/L	2.0	4.2	9.6	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	320	250	110	130	380
Metals (Dissolved)									
Copper	EPA 200.8	2	µg/L	2.0	71	56	25	49	83
Zinc	EPA 200.8	2	µg/L	2.0	270	170	85	110	320
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	17.3

Notes:
ND = Non Detect

12/11/09 Particle Size Results

Sample ID	Median Grain Size, micron	Cumulative Percent Greater Than (Distribution percent, microns)										
		5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12 12-11-09	74.202	110.122	102.212	96.929	89.512	79.934	74.202	67.698	56.445	44.888	25.723	14.362

STORM EVENT 3

(1/18/10)

1/18/10 Compliance Sites Analytical Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results
					C-B03-2 1-18-10
Conventionals					
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	1.30
BOD	EPA 405.1	1	mg/l	2.00	28.0
COD	EPA 410.4	1	mg/l	0.100	55.0
SC	EPA 120.1	1	µmhos/cm	0.100	147
MBAS	EPA 425.1	1	mg/l	0.0500	0.180
Oil & Grease	EPA 1664	1	mg/l	2.00	ND
pH	EPA 150.1	1	pH Units	0.100	7.02
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	24.0
Metals (Total)					
Aluminum	EPA 200.8	2	µg/L	50	660
Copper	EPA 200.8	2	µg/L	2.0	200
Iron	EPA 200.8	2	mg/l	0.050	0.80
Lead	EPA 200.8	2	µg/L	2.0	3.3
Zinc	EPA 200.8	2	µg/L	2.0	210
Metals (Dissolved)					
Copper	EPA 200.8	1	µg/L	1.0	140
Zinc	EPA 200.8	1	µg/L	1.0	140
Total Petroleum Hydrocarbons (TPH)					
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	ND
Jet-A	EPA 8015B	1	mg/l	0.050	ND
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.40
Glycols					
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND

Notes:
ND = Non Detect

1/18/10 BMP Effectiveness Sites Analytical and Particle Size Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2 1-18-10	S-B09-3/ S-B11-4 1-18-10	S-B06-12 1-18-10	S-B12-13 1-18-10	S-B08-14 1-18-10
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	12.0	20.6	3.60	3.40	ND
COD	EPA 410.4	1	mg/l	0.100	27.0	42.0	7.00	10.0	4.00
SC	EPA 120.1	1	µmhos/cm	0.100	43.4	60.1	52.0	51.5	106
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	7.47	7.16	7.43	7.36	7.25
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	9.00	17.0	3.00	2.00	4.00
Metals (Total)									
Aluminum	EPA 200.8	2	µg/L	50	1400	5200	260	130	160
Copper	EPA 200.8	2	µg/L	2.0	43	66	39	16	41
Iron	EPA 200.8	2	mg/l	0.050	1.8	6.0	0.39	0.18	0.16
Lead	EPA 200.8	2	µg/L	2.0	7.9	42	2.3	ND	2.3
Zinc	EPA 200.8	2	µg/L	2.0	180	400	110	72	140
Metals (Dissolved)									
Copper	EPA 200.8	1	µg/L	1.0	10	8.5	5.7	6.1	23
Zinc	EPA 200.8	1	µg/L	1.0	42	37	37	34	88
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND

Notes:
ND = Non Detect

1/18/10 Particle Size Results

Sample ID	Median Grain Size, micron	Cumulative Percent Greater Than (Distribution percent, microns)										
		5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12 1-18-10	64.746	113.579	102.343	94.752	85.195	72.852	64.746	54.944	26.874	14.743	8.756	4.112

STORM EVENT 4

(1/26/10)

1/26/10 BMP Effectiveness Sites Analytical and Particle Size Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2 1-26-10	S-B09-3/ S-B11-4 1-26-10	S-B06-12 1-26-10	S-B12-13 1-26-10	S-B08-14 1-26-10
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	14.3	16.7	3.10	2.90	4.20
COD	EPA 410.4	1	mg/l	0.100	32.6	39.0	11.0	10.0	14.0
SC	EPA 120.1	1	µmhos/cm	0.100	87.4	111	142	4390	234
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	7.18	7.17	8.27	7.68	7.04
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	12.0	14.0	2.00	2.00	3.00
Metals (Total)									
Aluminum	EPA 200.8	2	µg/L	50	1200	1300	230	110	170
Copper	EPA 200.8	2	µg/L	2.0	75	48	24	28	78
Iron	EPA 200.8	2	mg/l	0.050	1.7	1.9	0.21	0.14	0.15
Lead	EPA 200.8	2	µg/L	2.0	7.7	13	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	200	160	59	67	230
Metals (Dissolved)									
Copper	EPA 200.8	1	µg/L	1.0	34	25	13	22	42
Zinc	EPA 200.8	1	µg/L	1.0	80	59	21	49	180
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	12.3	22.6

Notes:
ND = Non Detect

1/26/10 Particle Size Results

Sample ID	Median Grain Size, micron	Cumulative Percent Greater Than (Distribution percent, microns)										
		5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12 1-26-10	83.159	171.797	148.931	131.685	113.698	93.724	83.159	73.526	54.478	30.645	18.196	10.225

STORM EVENT 5

(2/5/10)

2/5/10 BMP Effectiveness Sites Analytical and Particle Size Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2 2-5-10	S-B09-3/ S-B11-4 2-5-10	S-B06-12 2-5-10	S-B12-13 2-5-10	S-B08-14 2-5-10
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	7.40	2.70	2.50	2.30	18.4
COD	EPA 410.4	1	mg/l	0.100	19.0	8.20	9.40	8.90	41.0
SC	EPA 120.1	1	µmhos/cm	0.100	50.3	66.5	75.3	68.8	139
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	7.43	7.13	7.55	7.20	6.84
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	6.00	2.00	ND	ND	15.0
Metals (Total)									
Aluminum	EPA 200.8	2	µg/L	50	1100	1400	280	200	170
Copper	EPA 200.8	2	µg/L	2.0	38	35	22	24	39
Iron	EPA 200.8	2	mg/l	0.050	1.4	2.0	0.33	0.28	0.60
Lead	EPA 200.8	2	µg/L	2.0	5.2	7.4	ND	2.3	ND
Zinc	EPA 200.8	2	µg/L	2.0	120	140	60	76	280
Metals (Dissolved)									
Copper	EPA 200.8	1	µg/L	1.0	13	15	9.1	9.2	15
Zinc	EPA 200.8	1	µg/L	1.0	29	37	19	42	200
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND

Notes:
ND = Non Detect

2/5/10 Particle Size Results

Sample ID	Median Grain Size, micron	Cumulative Percent Greater Than (Distribution percent, microns)										
		5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12 2-5-10	78.141	166.188	145.779	113.487	99.136	85.400	78.141	70.418	55.321	27.746	14.870	8.038

STORM EVENT 6

(2/19/10)

2/19/10 BMP Effectiveness Sites Analytical Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results	
					S-B08-1/ S-B08-2- 2-19-10	S-B09-3/ S-B11-4- 2-19-10
Conventionals						
BOD	EPA 405.1	1	mg/L	2.00	23.0	20.6
COD	EPA 410.4	1	mg/L	0.100	49.0	45.0
SC	EPA 120.1	1	µmhos/cm	0.100	69.5	98.3
Oil & Grease	EPA 1664	1	mg/L	2.00	ND	ND
pH	EPA 150.1	1	pH Units	0.100	7.43	6.94
Total Suspended Solids	EPA 160.2	1	mg/L	1.00	7.00	5.00
Metals (Total)						
Aluminum	EPA 200.8	2	µg/L	50	590	950
Copper	EPA 200.8	2	µg/L	2.0	44	28
Iron	EPA 200.8	2	mg/L	0.050	0.72	1.4
Lead	EPA 200.8	2	µg/L	2.0	2.7	6.1
Zinc	EPA 200.8	2	µg/L	2.0	120	110
Metals (Dissolved)						
Copper	EPA 200.8	1	µg/L	1.0	25	15
Zinc	EPA 200.8	1	µg/L	1.0	64	44
Glycols						
Ethylene Glycol	EPA 8015B	2	mg/L	10.0	ND	ND
Propylene Glycol	EPA 8015B	2	mg/L	10.0	ND	ND

Notes:
ND = Non Detect