APPENDIX G
MISCELLANEOUS SUPPORT MATERIALS


SAN DIEGO
INTERNATIONAL AIRPORT
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SITE AUDIT FORM


SAN DIEGO
INTERNATIONAL AIRPORT
LET'S GO.

Storm Water Quality Inspection For Industrial/Commercial/Municipal Facilities

Inspector Name: Date: Time:

Contact Information

Business Name_____

Business Type_____

Mailing Address_____

Business Telephone # _____ Business Fax # _____

On-Site Contact #1_____ Title:_____

Phone #_____ Cell Phone # _____

On-Site Contact #2_____ Title:_____

Phone #_____ Cell Phone # _____

Environ Contact _____ Title:_____

Phone #_____ Cell Phone # _____

Subtenants: □ Yes □ No If yes:

Name_____ Contact _____Phone:_____

Name_____ Contact _____Phone:_____

Vendors: □ Yes □ No If yes:

Name_____ Contact _____Phone:_____

Name_____ Contact _____Phone:_____

Facility/Operation/Site Information

Principal activity:_____

Does facility/operation have an Individual NPDES Permit? □ Yes □ No

If yes, provide WDID (Permit) #: _____

Does facility/operation maintain SWPPP and/or BMP Plan? □ Yes □ No

Does facility/operation maintain Hazmat Business Plan? □ Yes □ No

Has facility/operation conducted previous storm water monitoring/or sampling programs? □ Yes □ No

Initial Observations

Nearest MS4 conveyance inlet: Approx. distance to MS4: □ < 200 ft. □ 200 – 1000 ft. □ > 1000 ft.

Discharge observed? □ Yes □ No If yes, describe:

Additional comments:

Tenant Summary Sheet

Verify/update "Tenant Description and Primary Industrial Activities:" **Correct/Adequate** ☐

Updates, please describe:_____

_____

_____

Print Name of Facility/Operation Representative:_____

Inspector's Signature:_____ Date:_____

BMPs	N/A	Fully	Partial	Not	Comments
Storm Water Discharges					
Does storm water from this facility/operation enter the MS4?					
Does the storm water run-off from this facility/operation discharge into a wastewater treatment process or sanitary sewer or dead-end sump area with pump?					

BMPs	N/A	Fully	Partial	Not	Comments
SC01 - Non-Storm Water Management	☐ Not Applicable at this Facility/Operation				
Identify significant materials which could have the potential to discharge to storm drains.	☐ Oil and Grease ☐ Solvents ☐ Paint ☐ Deicing/Anti-Icing Fluids ☐ Cleaning Solutions ☐ Lubricants ☐ Anti freeze ☐ Battery Acid ☐ Fuel ☐ Pesticides/Herbicides/Fertilizers ☐ Metals ☐ Deicing/Anti-Icing Fluids ☐ Sediment ☐ Fire Fighting Foam ☐ Dumpster Wastes ☐ Landscape Wastes ☐ Floatables ☐ Lavatory Chemical Wastes ☐ Potable Water System Chemicals ☐ Rubber Particulates ☐ Other:				
SC01-01. Are the Airport Operations (619-400-2710) and the Airport Authority Environmental Affairs Department (619-400-2784) notified if there is any evidence of illicit connections or illegal discharges?					
SC01-02. Have employees, tenants and the public been educated about avoiding non-storm water discharges?					
SC01-03. Are outdoor water supplies (hose bibs) limited and posted with appropriate use signs to discourage uses that may pollute the storm drain system/receiving waters?					
SC01-04. Is the site free of evidence of illicit connections and illegal discharges?					
SC01-05. Are landscaped areas not being irrigated during a forecasted rain event or 48 hours after a rain event?					
SC01-06. Are the irrigation systems and landscaped areas being inspected on a regular basis to prevent prohibited over-irrigation and identify any leaks?					
SC01-07. Is air conditioning or refrigerator condensation being directed to landscaping, porous surface, into the sanitary sewer, or being reused?					
SC01-08. Is the satellite water-tracking system being used to irrigate landscaped areas, to apply correct levels of soil moisture, and are City water restriction guidelines being followed?					
SC01-09. Is an hand-held hose equipped with positive shutoff nozzle, hand-held water container, or timed sprinkler system being used to irrigate landscaped areas?					
SC01-10. Is over-irrigation of landscaped areas prohibited?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC02A - Outdoor Equipment Ops and Maintenance Areas ☐Not Applicable at this Facility/Operation					
Identify significant materials used at the facility/operation, associated with equipment operations and maintenance.	☐ Oil and Grease ☐ Fuel ☐ Solvents ☐ Paint ☐ Cleaning Solutions ☐ Lubricants ☐ Anti freeze ☐ Battery Acid ☐ Other:				
SC02A-01. Are storm drains located directly within equipment operations and maintenance areas?					
SC02A-02. Is there a designated equipment ops and maintenance area with overhead cover for pollutant sources and/or activity areas?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC02B - Aircraft, Grnd Vehicle & Eqpmnt Maintenance ☐ Not Applicable at this Facility/Operation					
Identify significant materials used at the facility/operation, associated with maintenance/repair.	☐ Oil and Grease ☐ Fuel ☐ Solvents ☐ Paint ☐ Cleaning Solutions ☐ Lubricants ☐ Anti freeze ☐ Battery Acid ☐ Other:				
SC02B-01. Are employees trained in safe vehicle and equipment operations and maintenance?					
SC02B-02. Are storm drains located directly within the aircraft, vehicle and equipment maintenance area?					
SC02B-03. Is there a designated aircraft, vehicle and equipment maintenance area that is either indoors or covered, bermed, enclosed, or sloped/positioned away from the MS4?					
SC02B-04. Is equipment regularly inspected and tested?					

SC02B-05. Are visual observations performed to detect fluid leaking from aircraft, vehicles, and equipment? Are drip pans put under leaks if needed?					
SC02B-06. Are aircraft vehicles and equipment maintained in good condition to prevent or correct any leakage of oil or other fluids?					
SC02B-07. Are drip pans used during maintenance?					
SC02B-08. Are drip pans or other open containers containing fluid left around? Are fluids regularly transferred for recycling or proper disposal?					
SC02B-09. Is the use of solvent minimized and less toxic solvent used whenever possible? If solvents cannot be avoided, are parts cleaned and/or drained in self-contained sinks or drum units? Are these units checked regularly for leaks?					
SC02B-10. Are mechanical parts, equipment, and vehicles waiting for repair/removal stored under cover and away from drains?					
SC02B-11. Are spill response materials stored in maintenance areas and on maintenance vehicles? Are used absorbent materials collected/removed and properly disposed of?					
SC02B-12. Are fluids and batteries removed from salvage vehicles and equipment and properly disposed of?					
SC02B-13. Are obsolete and inoperable vehicles and equipment properly disposed of?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC02C – Electric Vehicle Maintenance ☐ Not Applicable at this Facility/Operation					
Identify significant materials used at the facility/operation, associated with maintenance/repair.	☐ Battery Acid ☐ Metals ☐ Vehicle Fluids ☐ Other:				
SC02C-01. Are batteries being overcharged in electric vehicles?					
SC02C-02. Are electric vehicles parked in cool and dry areas when not in use?					

SC02C-03. Are acid resistant drip pans sprinked with a battery acid neutralizing agent being used when filling or cleaning electric vehicles? Is waste being properly disposed?					
SC02C-04. Are battery acid neutralizing kits located adjacent to charging stations and are properly maintained? Is spill response material after use properly disposed of in an appropriate manner?					
SC02C-05. Are electric vehicle batteries being overfilled? (Is there staining or residue on the ground signaling spillage?)					
SC02C-06. Is maintenance on electric vehicles or batteries being filled avoided during rain events?					
SC02C-07. Are batteries being stored inside buildings in cool and dry places? Are batteries being stored on a nonreactive impervious surface with a cover if stored outside?					
SC02C-08. Are the battery case and terminals being cleaned regularly or when there is a buildup of corrosion? Is the cleaning done with a rag wetted down with a solution of water and battery acid neutralization agent? Is the wastewater being captured and disposed as hazardous waste?					
SC02C-09. Is petroleum jelly or grease being applied on battery terminals in order to slow down the corrosion process?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC03 - Aircraft, Ground Vehicle and Equipment Fueling ☐ Not Applicable at this Facility/Operation					
Identify significant materials used at the facility/operation, associated with vehicle and equipment fueling.	☐ Fuel ☐ Other				
SC03-01. Is there a designated fueling area that is covered, bermed, enclosed or sloped away from the MS4?					
SC03-02. Are storm drains located directly within fueling areas?					
SC03-03. Are tanks, piping and valves labeled, regularly inspected and kept in good condition?					
SC03-04. Are absorbent booms, spill kits or vacuum equipment present in fueling areas or on fueling vehicles?					
SC03-05. Are fueling areas regularly inspected?					

SC03-06. Are major fueling operations monitored?					
SC03-07. Is secondary containment or cover used when transferring fuel from a tanker truck to a fuel tank?					
SC03-08. Are leak, overfill protection and spill prevention devices used for tanks and piping?					
SC03-09. Are automatic shut-off mechanisms used for fuel tankers and hose connections?					
SC03-10. Are fuel tanks topped off?					
SC03-11. Is access to fuel tanks and fueling vehicles restricted?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC04 - Aircraft, Grnd Vehicle and Equipment Cleaning ☐ Not Applicable at this Facility/Operation					
Identify significant materials at the facility/operation associated with vehicle and equipment cleaning.	☐ Oil and Grease ☐ Solvents ☐ Cleaning Solutions ☐ Lubricants ☐ Anti freeze ☐ Other:				
SC04-01. Are vehicles, equipment, and washing areas kept clean and free of waste?					
SC04-02. Are dry washing and surface preparation techniques used where feasible?					
SC04-03. Are storm drains located directly within wash areas?					
SC04-04. Are pigs and cover mats used to cover all catch basins in the surrounding area to contain the wash water during washing activities?					
SC04-05. Are all washing activities performed in a designated area that captures,filters and recycles wash water (eg at new Wash Bay)? Or is reclaimed water used and wash water diverted to a structural treatment control BMP, sanitary sewer, or dead end sump with pump?					
SC04-06. Are routine visual observations performed on washing activities and nearby storm drains to detect and prevent discharges from cleaning activities?					
SC04-07. Are excess materials such as drippings and residue removed by using vacuum methods? Are all waste materials properly disposed of?					

SC04-08. Is a hand-held hose equipped with a positive shut-off nozzle being used to wash vehicles?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC05 - Aircraft Deicing/Anti-Icing					☐ Not Applicable at this Facility/Operation
Identify significant materials used at the facility/operation, associated with aircraft deicing/anti-icing.	☐ Ethylene Glycol ☐ Propylene glycol ☐ Other:				
SC05-01. Are deicing/anti-icing operations performed only in designated areas that are covered, bermed, enclosed, or sloped/positioned away from the MS4?					
SC05-02. Are deicing/anti-icing operations monitored regularly to ensure quantities of fluids used are at a minimum while not jeopardizing aircraft safety and operation?					
SC05-03. Are all fluids captured or diverted to a treatment control BMP, recycling system, sanitary sewer, or dead end sump with pump?					
SC05-04. Are the designated anti-icing/deicing ramp areas cleaned following deicing/anti-icing operations with wet-type sweepers to remove and properly dispose of deicing fluids from the paved areas?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC06 - Outdoor Loading/Unloading of Materials					☐ Not Applicable at this Facility/Operation

Identify significant materials loaded or unloaded at the facility/operation.	☐ Oil and Grease ☐ Fuel ☐ Pesticides/Herbicides/Fertilizers ☐ Solvents ☐ Cleaning Solutions ☐ Battery Acid ☐ Other:				
SC06-01. Are contractors/haulers aware of and do they adhere to BMP specifications that are relevant to the loading and unloading of materials?					
SC06-02. Are storm drains located directly within loading/unloading areas?					
SC06-03. Are loading/unloading areas graded, bermed, covered or otherwise protected to prevent contact with rainfall and storm water run-on and run-off?					
SC06-04. Is loading/unloading equipment regularly checked for leaks?					
SC06-05. Are drip pans or other containment measures used under hoses?					
SC06-06. Are loading and unloading areas kept free of spills and debris by containing and absorbing leaks during transfers and spillage from hose disconnections or cargo pallets? Is residue or debris properly disposed of?					
SC06-07. Are spill kits or other measures available to contain spills in accessible locations, near areas where spills may be likely to occur and/or to prevent tracking off-site?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC07 - Outdoor Material Storage ☐ Not Applicable at this Facility/Operation					
Identify significant materials stored outdoors at the facility/operation.	☐ Oil and Grease ☐ Solvents ☐ Paint ☐ Deicing/Anti-Icing Fluids ☐ Cleaning Solutions ☐ Lubricants ☐ Anti freeze ☐ Battery Acid ☐ Fuel ☐ Pesticides/Herbicides/Fertilizers ☐ Metals ☐ Deicing/Anti-Icing Fluids ☐ Sediment ☐ Fire Fighting Foam ☐ Dumpster Wastes ☐ Landscape Wastes ☐ Floatables ☐ Lavatory Chemical Wastes ☐ Potable Water System Chemicals ☐ Rubber Particulates ☐ Other:				
Identify significant materials stored indoors and used outdoors at the facility/operation.	☐ Oil and Grease ☐ Solvents ☐ Paint ☐ Deicing/Anti-Icing Fluids ☐ Cleaning Solutions ☐ Lubricants ☐ Anti freeze ☐ Battery Acid ☐ Fuel ☐ Pesticides/Herbicides/Fertilizers ☐ Metals ☐ Deicing/Anti-Icing Fluids ☐ Sediment ☐ Fire Fighting Foam ☐ Dumpster Wastes ☐ Landscape Wastes ☐ Floatables ☐ Lavatory Chemical Wastes ☐ Potable Water System Chemicals ☐ Rubber Particulates ☐ Other:				

SC07-01. Are outdoor material storage areas and equipment located directly in the path of storm drains?					
SC07-02. Do outdoor material storage areas have overhead cover and secondary containment?					
SC07-03. Are outdoor material storage areas prevented from contacting storm water run-on and run-off (e.g. by the use of berms, wood pallets etc.)?					
SC07-04. Are material stockpiles covered and contained or erosion control practices implemented at the perimeter of the site and at any inlets or catch basins to prevent the off-site transport of eroded material?					
SC07-05. Are wood products that have been treated with preservative chemicals either covered with tarps or stored indoors?					
SC07-06. Are protection guards (bollards, posts, or guardrails) installed around ASTs and piping to prevent damage from vehicles or forklifts and any subsequent release?					
SC07-07. Are regular inspections performed on tanks, storage containers, and berms to check for corrosion, structural failure, loose fittings, poor welds, leaks etc? Are repairs or replacements performed as needed?					
SC07-08. Are liquid materials in ASTs stored in double-walled, valved storage tanks or within concrete bermed secondary containment areas to provide the capacity to contain the entire volume of the single largest container with sufficient freeboard to contain precipitation? Is the area inside the curb sloped to a locked or valved drain?					
SC07-09. Is precipitation from bermed areas drained to the sanitary sewer if available or inspected and tested according to applicable regulations prior to its release to a storm drain?					
SC07-10. Is ponded storm water from bermed or containment areas properly disposed of?					
SC07-11. Does the facility/operation have and display a County Hazardous Materials Permit for hazardous materials storage?					
SC07-12. Is an accurate and up-to-date inventory maintained to record materials delivered and stored on site?					
SC07-13. Is permanent storage of equipment and materials in the bed of a truck always avoided? If temporary storage occurs, are these materials/equipment covered/contained?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC08 - Waste Handling and Disposal					☐ Not Applicable at this Facility/Operation
Identify wastes stored, handled, disposed of or recycled at the facility/operation.	I ☐ O ☐ Oil and Grease I ☐ O ☐ Lubricants I ☐ O ☐ Anti freeze I ☐ O ☐ Solvents I ☐ O ☐ Cleaning Solutions I ☐ O ☐ Trash I ☐ O ☐ Other: (I=indoors; O=outdoors)				
SC08-01. Does facility/operation make efforts to reduce amount of waste generated (e.g. use only amount needed, use solvents more than once, practice good inventory control, do not over-buy, purchase long-lasting products, etc.)?					
SC08-02. Are materials recycled whenever possible?					
SC08-03. Is there a designated waste/recycling area with restricted access?					
SC08-04. Are waste/recycling areas located directly in the path of storm drains?					
SC08-05. Is there secondary containment and cover provided for wastes?					
SC08-06. Are wastes that are not contained or covered prevented from contacting storm water run-on and run-off (e.g. by use of berms)?					
SC08-07. Are all dumpsters covered and kept closed and drain holes plugged?					
SC08-08. Are waste collection and storage containers inspected frequently for leaks, spills, compromised structural integrity, and proper closure seal?					
SC08-09. Are employees trained to properly handle and dispose of waste materials?					
SC08-10. Are wastes and recyclable materials stored in appropriate containers, segregated, and properly labeled?					
SC08-11. Are wastes characterized, where appropriate, and properly disposed of?					
SC08-12. Does facility/operation make efforts to prevent overflow of waste containers by timely pickup/service and removal?					
SC08-13. Is dumpster cleaning performed in designated areas that are bermed to contain wash water? Are all collected fluids properly disposed of or discharged to the sanitary sewer?					
SC08-14. Does facility/operation track waste generated, stored, and disposed?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC09 - Building and Grounds Maintenance ☐ Not Applicable at this Facility/Operation					
Identify significant materials used in/produced by building and grounds maintenance.	☐ Oil and Grease ☐ Pesticides/Herbicides/Fertilizers ☐ Sediment ☐ Landscape Wastes ☐ Other:				
SC09-01. Have all areas of exposed soil been treated to prevent erosion (e.g. landscaped, re-vegetated, or contain erosion or sediment controls)?					
SC09-02. Are all landscaped areas being weeded by hand?					
SC09-03. Are integrated pest management methods implemented? Is the use of pesticides, herbicides, and fertilizers minimized, and are they used according to directions?					
SC09-04. Are temporary BMPs such as portable booms and vacuum trucks used to contain water from outdoor building or structure wash down activities? Is reclaimed water being used where possible, and all waste water collected and properly disposed of through a permitted connection to the sanitary sewer?					
SC09-05. Are grass trimings, leaves, sticks, or other collected vegetation composted where possible, or appropriately disposed?					
SC09-06. Are stockpiled materials placed away from watercourses and drainage inlets and bermed and covered to prevent material release, or removed at the end of the day?					
SC09-07. Is spilled fertilizer being cleaned up on sidewalks or pavement before application of irrigation water and wash water properly disposed of?					
SC09-08. Is damaged asphalt repaired when degredation is observed?					
SC09-09. Is the exposure of galvanized or rusty metal structures to rainfall reduced where possible?					

SC09-10. Have roof top conditions been inspected for deteriorated roof coating/sealant and accumulated dust?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC10 - Employee Training			☐ Not Applicable at this Facility/Operation		
SC10-01. Is the facility/operation SWMP/SWPPP up to date, including completion of amendment pages?					
SC10-02. Have employees and contractors been trained on storm water pollution prevention education covering all storm water issues, implementation and effectiveness of BMPs, spill prevention and cleanup, hazardous materials management, right-to-know awareness, and SWMP or SWPPP implementation?					
SC10-03. Are any additional training programs in place (e.g. Spill Plan implementation, the prohibition on cross-connections between sanitary sewers and storm drains, and contractor responsibility to comply with adopted BMPs)?					
SC10-04. Does facility/operation have the last 5 years of training records for current employees that have participated in the storm water pollution prevention education program and other related training programs?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC11 - Lavatory Service Operation			☐ Not Applicable at this Facility/Operation		
Identify significant materials at the facility/operation associated with lavatory service operations.	☐ Lavatory Chemicals ☐ Lavatory Waste ☐ Lavatory Truck Wash Water ☐ Other:				
SC11-01. Are triturator facilities covered and bermed with low roll-over type berms?					

SC11-02. Are triturator facilities located directly in the path of storm drains?					
SC11-03. Are all hoses and fittings used for transferring lavatory waste regularly inspected and all equipment kept in good condition?					
SC11-04. Are absorbent booms, spill kits, and other containment equipment present on lavatory service equipment and at the triturator facility?					
SC11-05. Are all mixing and transfers of surfactants and disinfectants performed within the covered and bermed triturator area or under a cover?					
SC11-06. Are drip pans used when draining aircraft lavatory systems? Is collected drippage immediately dumped into the bulk storage tank on the lavatory service cart or lavatory service truck?					
SC11-07. Are all spills of lavatory wastes and lavatory chemicals immediately cleaned and properly disposed of at the triturator facility?					
SC11-08. Are all hoses, valves, and equipment secured when transporting lavatory waste?					
SC11-09. Are lavatory truck cleanouts/backflushing and lavatory waste discharging to sanitary sewer connections performed ONLY at triturator facilities?					
SC11-10. Are all hoses drained completely?					
SC11-11. Does lavatory service cart or truck have spill prevention equipment installed?					
SC11-12. Do temporary sanitary facilities have secondary containment and are located away from watercourses, drainage facilities, traffic circulation, and high wind areas?					
SC11-13. Are temporary sanitary facilities regularly inspected for leaks and spills? Are temporary sanitation facilities being cleaned or replaced when necessary?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC12 - Outdoor Washdown/Sweeping,					□ Not Applicable at this Facility/Operation

SC12-01. Is sweeping and scrubbing equipment regularly inspected and maintained to ensure effectiveness at removing pollutants and to avoid leaks?					
SC12-02. Are roads, ramp areas, apron areas and if feasible, runway/taxiway areas swept regularly?					
SC12-03. Is sweeping performed during dry weather using dry sweeping techniques where feasible?					
SC12-04. Are sweepers operated at manufacturer-recommended optimal speeds?					
SC12-05. Are debris and sediment from sweeping properly disposed of?					
SC12-06. Are outdoor washdown areas bermed to contain the wash water and to prevent run-on to adjacent areas?					
SC12-07. Is the amount of water used during outdoor washdown activities minimized?					
SC12-08. Is wash water collected and filtered and reused, or discharged to the sanitary sewer system through a permitted connection at designated and approved discharge facilities (i.e. dewatering bin)?					
SC12-09. Does facility maintain records of the sweeping or scrubbing activities including the miles swept or scrubbed and the amount of waste collected?					
SC12-10. Is a water efficient filtering and recycling device used to wash sidewalks, and wash water prevented from entering the storm drain?					
SC12-11 Is reclaimed or recycled/filtered water used where possible?					
SC12-12 Are roads, ramp areas, and apron areas scrubbed on an as-needed basis?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC13 - Fire Fighting Foam Discharge					☐ Not Applicable at this Facility/Operation
Identify significant materials at the facility/operation associated with testing fire fighting equipment.	☐ Aircraft Fire Fighting Foam ☐ Other:				

SC13-01. Are fire fighting foam discharge/testing areas located directly in the path of storm drains?					
SC13-02. Is fire fighting equipment regularly inspected and tested?					
SC13-03. Is there a designated fire fighting foam testing area that captures or diverts all foam waste to a structural treatment control, sanitary sewer, or dead end sump with pump?					
SC13-04. Are sump(s) and/or oil water separator(s) serviced regularly?					
SC13-05. Are fire fighting foam testing areas prevented from contacting storm water run-on and run-off or from reaching storm drains (e.g. by the use of berms or sandbags)?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC14 - Potable Water System Flushing	☐ Not Applicable at this Facility/Operation				
Identify significant materials used at the facility/operation, associated with aircraft potable water system flushing and water truck cleaning/flushing.	☐ Purine ☐ Chlorine Bleach ☐ Other:				
SC14-01. Are the aircraft potable water system or water truck cleaning/flushing areas located directly in the path of storm drains or surface pollutants?					
SC14-02. Is there a designated cleaning/flushing area that captures or diverts all wastewater away from storm drains, or to a structural treatment control, sanitary sewer or dead end sump with pump?					
SC14-03. Are cleaning/flushing areas prevented from contacting stormwater run-on and run-off (e.g. by the use of berms)?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC15 - Runway Rubber Removal	☐ Not Applicable at this Facility/Operation				

Identify significant materials generated by runway rubber removal activities.	☐ Rubber Particles ☐ Dirt Particles ☐ Other:				
SC15-01. Is the amount of water used during runway rubber removal activities minimized?					
SC15-02. Is the waste water produced from runway rubber removal activities prevented from entering the storm drainage system by immediately collecting and properly disposing of it?					
SC15-03. Are manual or mechanical cleaning methods (e.g. mechanical street sweepers) used to remove rubber particulates from the runway and adjacent paved areas following runway rubber removal activities?					
SC15-04. Are storm drain inlets, catch basins, and runway drainage areas inspected following runway rubber removal activities for any resulting debris? Is debris removed and properly disposed of?					
SC15-05. Is reclaimed water used where possible?					
Additional Comments:					
BMPs	**N/A**	**Fully**	**Partial**	**Not**	**Comments**
SC16 - Parking Lots	☐ Not Applicable at this Facility/Operation				
SC16-01. Are parking lots posted with "No Littering" signs and have regularly emptied and covered trash receptacles?					
SC16-02. Are all parking lot areas swept regularly and accumulated debris and sediment removed?					
SC16-03. Are sweepers operated at manufacturer-recommended optimal speeds?					
SC16-04. Is sweeping in parking lot areas performed when the number of parked vehicles is lowest to maximize areas swept?					
SC16-05. Does facility maintain records of the sweeping activities including the miles swept and the amount of waste collected?					
SC16-06. Are oily spots from parking lot surfaces cleaned with absorbent materials?					
SC16-07. Are repairs to parking lot surfaces performed during periods of dry weather?					
SC16-08. Are nearby storm drain inlets, catch basins, and manholes covered and sealed during parking lot repairs?					

SC16-09. Are drip pans and absorbent materials used to catch and collect drips and leaks from paving equipment that is not in use?					
SC16-10. Are hot bituminous materials used for parking lot repairs preheated and transferred or loaded away from storm drain inlets?					
SC16-11. Are used absorbent materials, debris, and collected drips properly disposed of?					
SC16-12. Does facility make efforts to avoid draining rooftop downspout drains onto paved parking lot surfaces?					
SC16-13. Are waste materials generated from parking lot repairs being removed by sweeping, vacuum, or other dry methods?					
SC16-14. Are waste materials and debris from parking lot repairs being stored in containers or in stockpiles with a cover and berm around them and away from storm drain inlets?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SC17 - Drainage System Maintenance			□ Not Applicable at this Facility/Operation		
SC17-01 Are storm drains stenciled with “No Dumping” messages?					
SC17-02. Does facility/operation conduct routine self-inspections of the storm water drainage system? Does the Authority inspect the entire MS4 at least annually, between the dates of May 1 and September 30?					
SC17-03. Are appropriate measures taken to prevent discharge during MS4 cleaning and maintenance?					
SC17-04. Does facility clean and maintain storm drain inlets, catch basins, pipes, and other conveyance structures before the wet season and as needed?					
SC17-05. Does facility clear open channels of accumulated litter in a timely manner?					
SC17-06. Does facility properly dispose of all accumulated sediments, contaminants, debris, and waste water from cleaning and maintenance activities?					
SC17-07. Does facility maintain records for all inspections, cleaning, and maintenance including the quantity of waste removed?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC18 - Housekeeping					□ Not Applicable at this Facility/Operation
SC18-01. Does facility/operation regularly perform and document self-inspections and evaluations of the implemented BMPs?					
SC18-02. Is facility/operational area kept clean and orderly?					
SC18-03. Are trash receptacles covered and placed in appropriate locations?					
SC18-04. Does facility sweep all operational areas at least once per week to prevent the accumulation of sediments, debris, and contaminants?					
SC18-05. Are all debris and sediment from sweeping properly disposed of?					
SC18-06. Are significant materials stored in the appropriate containers that are properly sealed and labeled?					
SC18-07. Are significant materials stored within secondary containment?					
SC18-08. Are significant materials stored in a restricted access area?					
SC18-09. Are Material Safety Data Sheets (MSDSs) readily available for all significant materials?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC19 - Safer/Alternative Products					□ Not Applicable at this Facility/Operation
SC19-01. Does facility/operation use alternative products that are “Regionally Accepted” and are identified as non-toxic, less toxic or biodegradable?					
SC19-02. Does facility maximize the purchase and use of products containing recycled materials?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC20 – Erodible Areas	☐ Not Applicable at this Facility/Operation				
Identify significant materials at the facility/operation associated with erodible areas.	☐ Sediments ☐ Other:				
SC20-01. Are erosion control BMPs implemented to stabilize soils?					
SC20-02. Are wind erosion control BMPs implemented to control dust?					
SC20-03. Are effective perimeter controls maintained?					
SC20-04. Are loose soils and slopes stabilized by re-vegetation or non-vegetation stabilization methods prior to a forecast storm event?					
SC20-05. Is offsite material tracking prevented?					
SC20-06. Is all stormwater diverted away from erodible materials?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
SC21 – Construction Repair/Remodel	☐ Not Applicable at this Facility/Operation				
Identify significant materials at the facility/operation associated with construction activity.	☐ Asphalt ☐ Basic Materials ☐ Concrete ☐ Construction Material ☐ Debris ☐ Floatables ☐ Fuel ☐ Metals ☐ Oil and Grease ☐ Paint ☐ Sediments ☐ Sealants ☐ Septic Wastes ☐ Solvents ☐ Suspended Soilds ☐ Trash ☐ Synthetic Organics ☐ Vehicle Fluids ☐ Other:				
SC21-01. Are outdoor repairs and construction avoided during rain events or during any period the National Weather Service is forecasting 50% chance of rain?					
SC21-02. Are inactive areas stabilized with temporary vegetation or non-vegetation stabilization methods?					
SC21-03. Are wind erosion control BMPs implemented to control dust and is traffic limited to stabilized roadways within the site where possible?					
SC21-04. Are effective perimeter and runon/runoff controls maintained?					

SC21-05. Are inlet protection BMPs effectively maintained?					
SC21-06. Is there a stabilized construction entrance to prevent tracking?					
SC21-07. Are streets or paved areas swept of any loose dirt?					
SC21-08. Are all chemicals, liquids, erodible landscape materials and fertilizers covered and contained when not in use?					
SC21-09. Is erodible landscape material application discontinued within 2 days prior to or during a forecasted rain event?					
SC21-10. Are stockpiles covered and bermed when inactive and before rain? Are plastic undersheets used when appropriate?					
SC21-11. Are waste containers covered at the end of each work day and when its raining?					
SC21-12. Are concrete washout areas in designated areas away from inlets and drainage courses? Are concrete washout areas properly constructed and maintained?					
SC21-13. Do temporary sanitation facilities have secondary containment and are located away from watercourses, drainage facilities, and traffic circulation?					
SC21-14. Is water usage minimized and reclaimed water used where possible?					
SC21-15. Are any particulate generating activities contained?					
SC21-16. Are areas designated for fueling located away from storm drains?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
SR01 - Spill Prevention, Control and Clean up					□ Not Applicable at this Facility/Operation
SR01-01. Does facility/operation have current Spill Plan and spill prevention and response procedures?					
SR01-02. Does facility/operation post a summary of the spill plan, and spill response procedures, at key locations, identifying the spill cleanup coordinators, location of cleanup equipment, and phone numbers of regulatory agencies to be contacted in the event of a spill?					

SR01-03. Are relevant employees and contractors trained in the implementation of the Spill Plan and spill control procedures?					
SR01-04. Are leak and spill prevention devices used?					
SR01-05. Are adequate spill kits placed in appropriate locations?					
SR01-06. In the event of a spill, does facility notify Airport Operations (619-400-2710), the Airport Authority Environmental Affairs Department (619-400-2784), and any agencies or companies identified in the Spill Plan or spill prevention and response procedures?					
SR01-07. In the event of a spill or release, does facility immediately follow procedures identified in the Spill Plan or facility spill prevention and response procedures?					
SR01-08. Does facility use only dry cleaning methods?					
SR01-09. Are all used spill control and clean-up materials properly disposed of?					
SR01-10. Is waste water from washing activities captured by vacuum and properly disposed of, or diverted to a structural treatment control, sanitary sewer, or dead end sump with pump?					
Additional Comments:					

BMPs	N/A	Fully	Partial	Not	Comments
TC 01 - Structural Treatment Control BMPs ☐ Not Applicable at this Facility/Operation					

Identify each structural treatment control BMP currently implemented at this facility/operation.

Detention Basin TC-22		Vegetated Buffer Strip TC-31		Infiltration Trench TC-10	
Wet Pond TC-20		Harvest and Reuse TC-12		Infiltration Basin TC-11	
Constructed Wetland TC-21		Bioretention TC-32		Water Quality Inlet TC-50	
Vegetated Swale TC-30		Media Filter TC-40		Multiple Systems TC-60	
Biotreatment MP-20		Stormwater Filter MP-40		Wet Vault MP-50	
Gravity Separator MP-51		Drain Inlet Insert MP-52			

Other					
TC01-01. Does facility regularly inspect, clean, and maintain all structural treatment control BMPs to prevent the accumulation or resuspension of oil, grease, floating debris and sediments?					
TC01-02. During cleaning operations, are all effluent valves at the treatment control device closed, all standing water properly disposed of, and all accumulated waste removed? Are oil absorbent pads in the treatment control device replaced prior to the start of the wet season and as needed?					
TC01-03. Are records for all inspections, cleaning, and maintenance of structural treatment control BMPs documented and maintained?					
TC01-04. Is an annual inventory of all structural treatment control BMPs performed?					

Additional Comments:

Photos: **Y** ☐ **N** ☐

Immediate "Action Items" Identified: **Y** ☐ **N** ☐

CASQA FORMS


SAN DIEGO
INTERNATIONAL AIRPORT
LET'S GO.

Visual Observation Log - Monthly	
Date and Time of Inspection:	Report Date:
Facility Name:	
Weather	
Antecedent Conditions (last 48 hours):	Current Weather:
NSWD Observations	
Were any authorized non-stormwater discharges observed?	Yes ☐ No ☐
Were any **unauthorized** non-stormwater discharges observed?	Yes ☐ No ☐
If yes to either, identify source:	
Outdoor Industrial Equipment and Storage Area Observations	
Complete Monthly BMP Inspection Report	Yes ☐ No ☐
Drainage Area 1:	Were any deficiencies or any other potential source of industrial pollutants observed? Yes ☐ No ☐
Drainage Area 2:	Were any deficiencies or any other potential source of industrial pollutants observed? Yes ☐ No ☐
Drainage Area 3:	Were any deficiencies or any other potential source of industrial pollutants observed? Yes ☐ No ☐
If yes to any, describe:	
Exception Documentation (explanation required if inspection could not be conducted).	
Inspector Information	
Inspector Name:	Inspector Title:
Signature:	Date:

Visual Observation Log – Sampling Events			
Date and Time of Inspection:			Report Date:
Facility Name:			
Weather			
Antecedent Conditions (last 48 hours):			Weather:
Precipitation Total:			Predicted % chance of rain:
Estimate storm beginning: _____ (date and time)	Estimate storm duration:_____ (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: _____ (inches)
Sampling Event Observations			
Observations: If yes identify location and observe drainage area to identify probable cause			
Odors	Yes ☐	No ☐	
Floating material	Yes ☐	No ☐	
Suspended Material	Yes ☐	No ☐	
Sheen	Yes ☐	No ☐	
Discolorations	Yes ☐	No ☐	
Turbidity	Yes ☐	No ☐	
NSWD Observations			
Were any authorized non-stormwater discharges observed?		Yes ☐	No ☐
Were any **unauthorized** non-stormwater discharges observed?		Yes ☐	No ☐
If yes to either, identify source			
Drainage Area Observations			
Drainage Area		**Deficiencies Noted**	

Exception Documentation (explanation required if inspection could not be conducted).	
Inspector Information	
Inspector Name:	Inspector Title:
Signature:	Date:

Sampling Log		
Facility Name:	Date:	Time Start:
Sampler Name:		

Field Meter Calibration
pH Meter ID No./Description: Calibration Date/Time:

Field pH Measurements		
Discharge Location Identifier	pH	Time

Samples Collected		
Discharge Location Identifier	Constituent	Time
	Oil and Grease	
	Total Suspended Solids	

Additional Sampling Notes:
Time End:

COUNTY OF SAN DIEGO FORMS


SAN DIEGO
INTERNATIONAL AIRPORT
LET'S GO.

COUNTY OF SAN DIEGO
WATERSHED PROTECTION PROGRAM

DEPARTMENT OF PUBLIC WORKS
5510 OVERLAND AVE., SUITE 410
SAN DIEGO, CA 92123

MS4 Outfall Visual Observation Field Datasheet

New Site? ☐ Yes ☐ No ☐ **Source Investigation Follow-up for**_____

General Site Description

Site ID				**Site Type**		**Sample Event ID**	
Location						**Sample Event Type**	
Date		**Time**		**Latitude**	° N (NAD83)	**HU**	
Staff		**TB Guide**		**Longitude**	° W (NAD83)	**HSA**	

Historical Outfall Dry Weather Flow Info: ☐ Unknown ☐ Persistent ☐ Transient ☐ Dry

Conveyance (Check one only) ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel ☐ Manhole ☐ Outfall ☐ Other Construction Moved

Flow Status ☐ Flowing ☐ Ponded ☐ Tidal ☐ Dry

Flow Reaches Receiving Water? ☐ Yes ☐ No

Non-Stormwater Flow Source? ☐Yes ☐No ☐Unknown

Evidence of Obvious IC/ID?* ☐Odor ☐Color ☐High Flow

***Requires immediate follow-up**

Outfall Structural Condition
- ☐ Normal
- ☐ Damaged
- ☐ Scour Pond
- ☐ Blockage

Potential Source ☐ Ground Water ☐ Irrigation Runoff ☐ Permitted Discharge ☐ Vehicle Washing ☐ Power Washing ☐ Pool/Spa Discharge ☐ Water Line Break ☐Unknown ☐Tidal ☐Other_____

Was Flow Source Eliminated? ☐Yes ☐No

Notes: N/A

Weather ☐ Clear ☐ Partly Cloudy ☐ Overcast ☐ Fog

Last Rain ☐ > 72 hours ☐ < 72 hours but ≤ 0.1"

Tide ☐ N/A ☐ Low ☐ Incoming ☐ High ☐ Outgoing Tide Height_____ft.

Observations

Odor	☐ None	☐ Sewage	☐ Sulfides	☐ Petroleum	☐ Manure	☐ Other
Color	☐ None	☐ Yellow	☐ Brown (Silty)	☐ White (Milky)	☐ Gray	☐ Other
Clarity	☐ Clear	☐ Cloudy(<4" vis)	☐ Murky(>4" vis)			☐ Other
Floatables	☐ None	☐ Trash	☐ Bubbles/Foam	☐ Sheen ☐ Algae	☐ Biofilm	☐ Other
Deposit	☐ None	☐ Coarse Particulate	☐ Fine Particulate	☐ Stains/Minerals	☐ Oily Deposit	☐ Other
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		☐ Other
Biology	☐ None	☐ Insects ☐ Algae	☐ Snails	☐ Fish ☐ Birds	☐ Cray Fish	☐ Other

MS4 Outfall Flow Estimate

Width		ft
Depth		ft
Velocity		ft/sec
Length of Ponded Area		ft

Flowing Pipe Diameter _____ft. Depth_____ft. Velocity_____ft/sec
Bottle Fill Volume_____ml Time to Fill_____seconds
Leaf Float Distance_____ft. Time_____seconds

Estimated Flow Rate _____ ☐ cfs ☐ gpm

Trash Present? ☐ Yes ☐ No **Trash Assessment** ☐ High (>400 pieces) ☐ Medium (50 to 400 pieces) ☐ Low (<50 pieces)
Evidence of Illegal Dumping ☐ Yes ☐ No **Evidence of Illegal Connection** ☐ Yes ☐ No
Accessibility ☐ Easy ☐ Moderate ☐ Difficult ☐ Critical Habitat

Comments:_____

COUNTY OF SAN DIEGO
WATERSHED PROTECTION PROGRAM

DEPARTMENT OF PUBLIC WORKS
5510 OVERLAND AVE., SUITE 410
SAN DIEGO, CA 92123

Site Type: VOM (Visual Outfall Monitoring) – For sites that are within the visual outfall monitoring program.
A, B, C, D… (Source Investigation) – For locations that are aimed at source follow-up investigations.

Sample Event Type: Visual Observation
Confirmation
Source Investigation
Duplicate
Blank
Lab Standard

Watersheds

Hydro. Unit	Watershed
902	Santa Margarita River
903	San Luis Rey River
904	Carlsbad Management Area
905	San Dieguito River
906	Los Penasquitos
907	San Diego River
908	Pueblo San Diego
909	Sweetwater River
910	Otay River
911	Tijuana River

EXAMPLE
SIERRA LAB CHAIN OF CUSTODY


SAN DIEGO
INTERNATIONAL AIRPORT
LET'S GO.

CHAIN OF CUSTODY RECORD

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

Date:_____/_____/_____ **Page:** _____ **of** _____

Lab Work Order No.: _____

Client: Wood
Client Address: 9177 Sky Park Ct
San Diego, CA 92123
Client Tel. No.: (858) 514-6468
Client Fax. No.:
Client Proj. Mgr.: Amanda Archenhold

Client Project ID:
San Diego International Airport
BMP Pilot Study

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Total Metals (Cu, NH3, Zn)	Dissolved Metals (Cu, Zn)	Conventionals (BOD, COD, pH, TSS)										Field Point Names / Comments
				samplewater	4°C	Amber glass		✘	✘	✘										

Geotracker EDD Info:

Client LOGCODE

Site Global ID

1 Sampler Signature: | Shipped Via:
Printed Name: | (Carrier/Waybill No.)

Total Number of Containers Submitted to Laboratory

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

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses 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.**

Total Number of Containers Received by Laboratory

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

Special Instructions:

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☐ Intact ☐ Chilled - Temp (°C) _____
☐ Sample Seals ☐ Preservatives - Verified By _____
☐ Properly Labelled ☐ Other _____
☐ Appropriate Sample Container ☐ Storage Location _____

Rev: 021104

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