

Appendix B – Best Management Practices

BMP SC02C		ELECTRIC VEHICLE MAINTENANCE	
PURPOSE: To prevent or reduce the discharge of pollutants to storm water from electric ground vehicle charging, maintenance, and repair.		TARGETED ACTIVITIES: → Vehicle Maintenance → Battery Charging	
POLLUTION PREVENTION:		POLLUTANTS of CONCERN:	
	Implement the following pollution prevention practices and BMPs to prevent discharges of pollutants to the storm water collection system: <input type="checkbox"/> Develop a battery maintenance plan to provide procedures for cleaning and maintenance, develop a schedule for service, and to correct any issues that can potentially arise. <input type="checkbox"/> Investigate use of smart chargers with multi-stage charging capability.	→ Battery Acid → Battery Acid Neutralizing Agents → Metals → Vehicle Fluids	
OPERATIONS:		APPLICABLE TENANTS/ DEPARTMENTS:	
Sub-BMPs - 01 <input type="checkbox"/> Do not overcharge batteries in electric vehicles. - 02 <input type="checkbox"/> Park electric vehicles in cool and dry areas (e.g. shade under building) when not in use. - 03 <input type="checkbox"/> Use acid resistant drip pans sprinkled with battery acid neutralizing agent (e.g. lime or baking soda) when filling or cleaning electric vehicle batteries and dispose of waste properly. - 04 <input type="checkbox"/> Maintain battery acid neutralizing kits adjacent to charging stations. Adequately recover spill response material from area after use and dispose of them in an appropriate manner. -05 <input type="checkbox"/> Avoid overfilling electric vehicle batteries. -06 <input type="checkbox"/> Do not fill batteries or perform electric vehicle maintenance during rain events. -07 <input type="checkbox"/> Store batteries inside in a cool and dry place if possible. If batteries are stored outside, store in a non-reactive container with a cover. -08 <input type="checkbox"/> Clean battery case and terminals regularly or when there is a buildup of corrosion with a rag dampened with a solution of water and battery acid neutralizing agent. Capture any wastewater to be treated as hazardous waste. -09 <input type="checkbox"/> Apply petroleum jelly or grease on battery terminals to slow down corrosion process.	<p align="center">SEE ALSO BMP SC02B</p>	→ ACE → Alaska → American Airlines → Delta → JAL → SANCO → SDCRAA → Siemens → Signature → Southwest → Spirit → SSP → United	
STRUCTURAL TREATMENT BMPs: Refer to BMP TC01 for information on structural treatment BMPs.			

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BMP FREQUENCIES/EQUIPMENT/TOOLS: Equipment/tools to implement BMPs include drip pans, neutralizing kits, outdoor sheds, storage containers, appropriate secondary containment devices, spill kits and drums.		
AUTHORIZED ELECTRIC VEHICLE MAINTENANCE LOCATIONS:		
<input type="checkbox"/>	Use only the designated areas for electrical vehicle maintenance as shown in the attached map.	
Date:		Version: 1.0

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**Tenants Implementing SC-02-C BMP:
Electric Vehicle Maintenance**

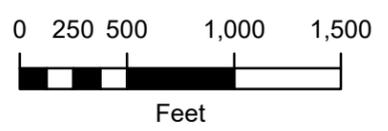
1 - Alaska 4 - American 10 - Delta 18 - ACE 19 - SDCRAA 21 - Southwest 23 - United 35 - Spirit 42 - JAL 45 - SSP 50 - Siemens 78 - Signature 107 - SANCO

 SDCRAA  SDIA Boundary



Service Layer Credits: Source: Esri, Maxar, Earthstar

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DATE:
FEBRUARY 2023
DRAWN BY:
PM
CHECKED BY:
AA/NP



**STORM WATER MANAGEMENT PLAN
AT SAN DIEGO INTERNATIONAL AIRPORT**
San Diego, California

**SC-02-C BMP:
Electric Vehicle Maintenance**

FIGURE
SC-02-C