


Environmental Standard Operating Procedure			
Originating Office: MCAS Miramar Environmental Management Department	Revision: Original	Prepared By: Environmental Management Department	Approved By: Susan Van Winkle 
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Title: Wash & Rinse Sample Bottles from Aviation Fuel Analysis

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to provide environmental guidelines for the procedures of washing & rinsing 800 ml glass Mason jars used in performing sampling and analysis of aviation fuel from aircraft.

2.0 APPLICATION

This guidance applies to those individuals who perform aircraft fuel sampling, analysis, fuel transfer using 800 ml glass Mason jars only onboard Marine Corps Air Station (MCAS) Miramar.

3.0 REFERENCES

29 CFR 1910 (Code of Federal Regulations)
 40 CFR 262
 MCO P5090.2A (USMC Environmental Compliance and Protection Manual)

4.0 APPLICATION

4.1 Discussion:

Aircraft fuels must meet certain minimum performance standards to be used in aircraft at the Marine Corps Air Station (MCAS) Miramar. Routine sampling and analysis of aviation fuels for aircrafts, stationary aircraft stations and Engine Test Cells ensures that these performance criteria are met. These procedures are intended to minimize the potential environmental impacts that can occur during sampling, analysis, fuel transfer, and waste disposal activities, including leaks and spills.

This SOP applies to fuel sample collected from aircrafts, aircraft refueling trucks, stationary aircraft stations, Engine Test Cells, or transported to the fuels analysis laboratory using 800 ml glass Mason Jars only.

After the sample fuel is analyzed, the sample fuel shall be collected and disposed as salvaged fuel. Salvaged fuel is then managed by S-4 I&L, Fuels Division. Do not collect or disposed salvaged fuel as used oil. Sample fuel can be either collected to a salvage fuel bowers located at various locations on the flight line or other salvaged fuel collection areas.

The 800 ml glass Mason sample jars used to sample will be washed using the MERCADO Wash And Rinse Procedure (MWARP). The MWARP consists of Best Management Practice (BMP's) of "Double Drain" and "Wipe". The Double Drain BMP procedure is after the initial pour of the sampled fuel; the sample bottle is rested upright for 3 minutes, and then re-drained. Shortly after the Double Drain BMP, the Wipe BMP is applied using a lint free rag inside the glass jar, one (1) lint free rag can be used to clean six (6)-800 ml glass jars. The 800 ml Mason sample bottles can now be washed and rinsed using four (4) 5-gallon buckets with 4 gallons of water. The first bucket is mixed with 150 ml of detergent, namely Alconox or Liquinox. The bottles are dipped and washed in Alconox or Liquinox, then triple rinsed in the remaining three buckets, each containing 4 gallons of clean water. The rinsate generated in the four (4) buckets may now be discharge to the sink connected to the sanitary sewer. The lint free rags can be disposed as oily rags label Hazardous Waste. This MWARP will eliminate the collection and disposal of oily water cost to the station.

4.2 Operational Controls:

The following procedures apply:

1. MSDSs (Material Data Safety Sheets) for aviation fuels (JP-5, JP-8, etc.) and lab chemicals must be available and current.
2. Conduct new hire orientation and initial training.
3. Maintain required current training and certifications for all staffs.
4. All shop personnel must wear appropriate Protective Personal Equipment (PPE).
5. Keep a fully stocked Spill Kit nearby in a designated location known to all shop personnel.
6. Keep fire extinguishers nearby in a designated location known to all shop personnel
7. Wash 800 ml Mason sample jars with Alconox or Liquinox. Use the MWARP. Discharge rinsate to the sanitary sewer. Air- dry bottles prior to re-use.
8. Ensure appropriate 5-gallon chemically compatible waste container is used to collect fuel after analysis is complete. Use only transfer containers equipped with lids. Check containers for deterioration and structural integrity.
9. Ensure appropriate waste container is used for the collection of used lint free rags. Containers shall be marked hazardous waste and managed in accordance with the Installation's Hazardous Waste Management Plan.
10. Transfer sample fuel to a POL salvage container or fuel bowers for salvage collection.
11. Clean up all spills immediately upon identification and report to the proper authority.
12. Ensure that spills are recorded in a Spill Log Book detailing the spill date, time, product spilled, quantity, location, cleanup actions taken and the name of the person reporting the spill.
13. If there are any specific situations or other concerns not addressed by this procedure, contact at the EMD at (858) 577-1108.

4.3 Documentation and Record Keeping:

The following records must be maintained:

1. MSDS for the fuels analyzed.
2. Personnel Training and Certification records.
3. Spill Log Book.

4.4 Training:

All affected personnel must be trained in this SOP and the following:

1. Hazard Communication (HazCom) Training.
2. Business Plan Topics 1-4
3. General Environmental Awareness Training.
4. Initial on-the-job (OJT) training.

4.5 Emergency Preparedness and Response Procedures:

Refer to Marine Corps Order (MCO) P5090.2A, Subject: Oil/Hazardous Substance Spills (OHSS) and the MCAS Miramar Spill Prevention Containment & Countermeasures (SPCC) Plan.