

Environmental Standard Operating Procedure			
Originating Office: MCAS Miramar Environmental Management Department	Revision: Original	Prepared By: Environmental Management Department	Approved By: William Moog
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Title: Non-Potable Water General (Recycled Water)

1.0 PURPOSE

The purpose of this Standard Operating Procedure is to provide environmental guidelines for the management of non-potable water.

2.0 APPLICATION

This guidance applies to those individuals working with and around non-potable water onboard Marine Corps Air Station (MCAS) Miramar.

3.0 REFERENCES

- Title 22 CCR Chapter 4
- Title 17 CCR Chapter 5

4.0 PROCEDURE

4.1 Discussion:

Non-potable water is water that does not meet Safe Drinking Water Act standards and cannot be used for human consumption. Non-potable water includes groundwater not disinfected and or treated for consumption and reclaimed / recycled wastewater. Currently, the MCCS Golf Course and some parts of the landscape on MCAS Miramar use recycled wastewater.

4.2 Operational Controls:

All irrigation piping, valves and outlets will be color coded in purple to differentiate recycled water from domestic and other water sources. Adequate means of notification shall be used to inform the public of recycled water being used at a site.

The following procedures apply:

1. Do not drink recycled water or use recycled water to wash hands or other parts of the body.

2. Equipment (i.e. tanks, valves, hoses, pipes, and pumps) that has been in contact with recycled water should not be used in conjunction with any potable water system unless adequately disinfected.
3. Take preventive measures to ensure that no cross-connections can occur and inspect possible cross-connection problems.
4. When performing repairs or modifications to the recycled water system, use only materials approved for recycled water use.
5. Closely monitor the recycled water system operations and be alert to and minimize over spray, run-off, and ponding. If this occurs, make the necessary corrections and notify the appropriate agencies if required.
6. Keep systems functioning properly. Repair any and all damage to recycled water system immediately.
7. Be aware of the types of vegetation within your site boundaries and their responses to irrigation with recycled water. You may have to alter your water management practices based on soil and water characteristics.
8. Do not attempt to modify or change the recycled water system without authorization from the recycled water supervisor.
9. Signs shall be posted with "Non-Potable Water – Do Not Drink".
10. Do not remove or tamper with recycled water warning signs.
11. Inspect each recycled water system on a weekly basis.
12. Turnover folder information must be kept for this Standard Operating Procedure.
13. Provide "As-Builds" of any proposed irrigation area utilizing recycled water to PWD.
14. If there are any specific situations or other concerns not addressed by this procedure, contact EMD.

4.3 Documentation and Record Keeping:

The following records must be maintained for non-potable water system management:

1. Inspection and training records.
2. A logbook documenting inspections.
3. Service and repair records for recycled water system.
4. Shut down and cross connection test records.

4.4 Training:

All affected personnel must be trained in this Standard Operating Procedure and the following;

1. Recycled Water Overview and Use Site Supervisor Training.
2. Annual Recycled Water Overview Refresher.
3. General Environmental Awareness Training

4.5 Emergency Preparedness and Response Procedures:

CALL 9-1-1

4.6 Inspection and Corrective Action:

The Environmental Compliance Coordinator shall designate personnel to perform inspections. The ECC shall ensure deficiencies noted during the weekly inspections are corrected immediately. Actions taken to correct each deficiency shall be recorded on the weekly inspection sheet. Designated personnel shall conduct weekly inspections.

Non-Potable Water – Inspection Checklist	
Date:	Time:
Installation:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
1. Are preventive measures taken to ensure no cross connection can occur? (CCR 22/4/3/4/60310(h)), (CCR 17).			
2. Are necessary corrections made to prevent over spray, runoff and ponding? (CCR 22/4/3/4/60310(e)(1) and (2))			
3. Is all damage to non-potable water system repaired immediately upon discovery?			
4. Are non-potable water warning signs posted in affected areas? (CCR 22/4/3/4/60310(g))			
5. If applicable has non-potable water monitoring been			

completed and on file per WDR? (CCR 22/4/3/3/60305(b)(1))			
6. Are inspection, maintenance and training records maintained and available for inspection? (CCR 17\1\5\4\1\7584(f))			

ADDITIONAL COMMENTS:

CORRECTIVE ACTION TAKEN:

Environmental Compliance Coordinator

Name: _____

Signature: _____

Date: _____