



UNITED STATES MARINE CORPS
MARINE CORPS AIR GROUND TASK FORCE TRAINING COMMAND
MARINE CORPS AIR GROUND COMBAT CENTER
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G4 NREA 5090 EP INSTRUCTIONS MANUAL

From: Deputy, Assistant Chief of Staff, G-4
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Subj: ENVIRONMENTAL PROTECTION INSTRUCTIONS MANUAL
(SHORT TITLE EP INSTR MANUAL)

Ref: (a) CCO 5090.1E
(b) CCO 5090.2
(c) CCO 5090.4C
(d) CCO 5090.5A
(e) CCO 5090.8A
(f) MAGTFTC, MCAGCC's Integrated Natural Resources Management Plan
(g) MAGTFTC, MCAGCC's Integrated Cultural Natural Resources Management Plan
(h) MAGTFTC, MCAGCC's Desert Tortoise Management Plan
(i) Biological Opinion for the Base-Wide Training Operations and Routine Maintenance Program (1-8-99-F-41) of 7 March 2002
(j) Endangered Species Act of 1973, as amended
(k) MCO P5090.2A
(l) DoDI 4715.03
(m) MDAQMD Rule 1116
(n) CCO 1741.1
(o) MAGTFTC, MCAGCC's Sanitary Sewer Management Plan
(p) CCO 3500.4H
(q) EPCRA 313
(r) CCO 5040.5J

Encl: (1) EP INSTR MANUAL

1. Situation. The Combat Center is the Marine Corps' premier site for live-fire and maneuver training. To ensure the continued viability of the Combat Center's training lands, environmental issues, and training, the mission requirements must be balanced and focus on long-term use of this unique desert training area.

2. Mission. To establish environmental policies and procedures that ensure the preservation of the Combat Center's training opportunities enjoyed by today's Marines.

3. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent. It is the Commanding General's (CG) intent to protect the Combat Center's environment and conserve its natural and cultural resources while performing Marine Air Ground Task Force Training Command, Marine Corps Air Ground Combat Center's training mission.

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(2) Concept of Operations. Per reference (a), the CG has delegated to the Assistant Chief of Staff (AC/S) G-4, the responsibility for establishing policy, procedures, constraints, and guidelines for the management and protection of the Combat Center's environment, including natural and cultural resources.

b. Subordinate Element Missions

(1) Commanding Officers, AC/S, Directors, Officers In Charge, and Contractors. All military personnel, civilian employees, and contractors (incorporated by reference into contract performance requirements) operating on the Combat Center shall become familiar with and abide by the instructions contained in the references and enclosure.

(2) AC/S G-4. The AC/S G-4 is responsible to ensure that the EP instructions manual is reviewed annually, complies with the references, and is available for activities to utilize.

4. Administration and Logistics. G-4 policies and instruction manuals can be viewed at <http://www.marines.mil/unit/29palms/g4/Pages/default.aspx>.

5. Command and Signal

a. Command. This instructions manual is applicable to military personnel, civilian employees, and contractors (incorporated by reference into contract performance requirements) operating on the Combat Center.

b. Signal. This instructions manual is effective the date signed.


M. A. MYRUM

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Location: _____
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Chapter 1

Introduction

1. Scope. This instructions manual is developed to establish guidelines and assign responsibilities for the management and protection of the Combat Center's environment, including its natural and cultural resources. This instructions manual does not contain all of the Combat Center's environmental policy requirements. Appendix (A) contains a listing of the Combat Center directives and policies that will be referenced throughout this manual and should be used to supplement policy and procedures contained herein.

2. General

a. All military personnel, civilian employees, and contractors (incorporated by reference into contract performance requirements) operating and or training aboard the Combat Center shall comply with applicable federal, state, and local environmental laws. This obligation, in accordance with the references, includes compliance with the Sikes Act Improvement Act, the National Historic Preservation Act, the Archeological Resources Protection Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Toxic Substance Control Act, the Clean Air Act, the Clean Water Act, the Safe Drinking Water Act, other executive orders, and laws.

b. Individuals who violate, aid, abet, counsel, command, induce, procure, or willfully cause violations of any provisions of these laws may be held personally liable for civil and criminal penalties and fines.

c. Appendix (B) is the Commanding General's Environmental Policy Letter. The Environmental Policy Letter is a declaration of Marine Air Ground Task Force Training Command (MAGTFTC), Marine Corps Air Ground Combat Center's (MCAGCC) fundamental goals and its commitment to complying with all applicable environmental legal requirements. The Policy Letter commits the Combat Center's in using:

(1) Reference (f) and (g) to comply with laws and regulations dedicated to conservation and environmental stewardship.

(2) Reference (d) as its formal, comprehensive Environmental Management System (EMS) to maintain our freedom of action and control risks to operational readiness posed by the environmental impacts of our actions.

(a) Reference (d) that integrates environmental stewardship into the Combat Center's daily decision-making and long term planning processes across all missions, activities, and functions.

(b) Reference (d) establishes:

1. Environmental management procedures for EMS operations and maintenance.

2. Environmental Standard Operating Procedures (ESOP) to effectively manage practices with potential environmental and land use impacts. Appendix (C) contains a listing of Combat Center's ESOP.

3. Responsibilities

a. Commanding Officers (CO), Assistant Chief of Staffs (AC/S), Directors, and Officers In Charge (OIC) shall:

(1) Ensure that all military personnel, civilian employees, and contractors (incorporated by reference into contract performance requirements) operating and or training aboard the Combat Center adhere to all environmental management conditions as set forth in the references and this instructions manual.

(2) Ensure that a copy of Appendix (B) is posted on the Combat Center's bulletin boards.

(3) Ensure that personnel within their chain of command are aware of the Commanding General's Environmental Policy Letter, particularly as it pertains to their job.

(4) Report individuals who violate, aid, abet, counsel, command, induce, procure, or willfully cause violations of any provisions of this manual to the Natural Resources Environmental Affairs (NREA) Division.

(5) Ensure that the requirements of the National Environmental Policy Act (NEPA), as identified in reference (c), are completed on actions requiring environmental documentation.

b. AC/S G-3, shall:

(1) Ensure that all units training aboard the Combat Center receive a brief of this instructions manual, and are familiar with its contents prior to utilizing training areas and ranges.

(2) Ensure adherence to all environmental management conditions as set forth in the references and this instructions manual.

(3) Coordinate with AC/S G-4, Public Works Division (PWD) to ensure that training area maintenance projects, target placements, range modifications, the establishment of new ranges, and any significant change in the training tempo or new weaponry are coordinated with the NREA Division.

(4) Ensure that range inspectors are vigilant for environmental violations.

(5) Create and maintain records of the Combat Center's annual training area usage in a manner that will provide documented comparative usage data by training area. This record will include at a minimum:

(a) Training area used, days used, number of personnel, number and type of vehicles, and weapons used.

(b) Types and amounts of ordnance used.

(c) Known and suspect areas that positively identify contamination by nomenclature, hazard, quantity, exact locations, and dud rates.

c. AC/S G-4, shall ensure that this instructions manual is available for units to utilize and is posted at <http://www.marines.mil/unit/29palms/g4/Pages/default.aspx>.

d. AC/S G-4, NREA Division shall:

(1) Ensure that this instructions manual is reviewed annually and complies with higher level directives and all environmental laws.

(2) Ensure that all permits for facilities and operations are obtained, remain current, and that a consolidated database is established for reference.

(3) Ensure that appropriate funding is programmed and available for permits, fees, facilities, and operational environmental deficiencies.

(4) Coordinate training access through the Bureau of Land Management (BLM) administered lands.

(5) Provide in-house and contracted support for biological and cultural surveys, environmental documentation, operational and facility studies, and corrective actions for environmental deficiencies.

(6) Act as the point of contact for all matters regarding the Military Munitions Rule on MAGTFTC, MCAGCC's Training Areas and Off-Range Areas.

(7) Act as MAGTFTC, MCAGCC liaison for regulatory correspondence.

Chapter 2

Waste Management1. General

a. COs and OICs of Marine Corps commands/units and tenant commands shall:

(1) Designate in writing hazardous waste (HW) management personnel for each HW generation, accumulation (Satellite Accumulation Area), and storage site under the cognizance of the Marine Corps commands/units and tenants.

(2) Forward a copy of HW management personnel appointment letters to the NREA Division.

(3) Ensure that all personnel involved with HW management receive the appropriate environmental training.

(4) Identify, document and train Marines to Military Occupation Specialty 8056 (Hazardous Material (HM)/HW Handler) standard in the event the commands/units deploy. References (k) and (r) apply.

b. The following ESOPs contains environmental guidelines for the proper procedures of handling and storage of HM and HW and are available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>

(1) Hazardous Material Storage (HMS-ESOP)

(2) Hazardous Waste Satellite Accumulation Area (HWA-ESOP)

2. Use of Hazardous Material

a. The Marine Corps policy is to reduce the quantity of HW disposed of by using the environmental management hierarchy of source reduction, recycling, treatment, and disposal.

b. Activities that operate aboard the Combat Center shall ensure the use of HM and the generation of HW shall be accomplished in a way that minimizes wasteful use and promotes recycling.

c. All Activities operating or training aboard the Combat Center wishing to purchase chemical products not currently in inventory shall submit a copy of the Material Safety Data Sheet (MSDS) to NREA Emergency Planning & Community Right-To-Know Act (EPCRA) Manager prior to purchase of those products. The NREA EPCRA Manager shall identify if chemical properties require reporting under reference (q) and are acceptable for use aboard the Combat Center.

d. All contractors working aboard the Combat Center shall submit all MSDSs to the EPCRA Manager prior to commencement of work. The NREA EPCRA Manager shall identify if chemical properties require reporting under reference (q) and are acceptable for use aboard the Combat Center.

e. Appendix (C) contains applicable ESOPs that provide proper procedures and responsibilities for managing the use, storage, and handling of HM.

3. Treatment of Hazardous Materials

a. Treatment is defined as any method, technique or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize it, or render it non-hazardous or less hazardous, or to recover it, make it safer to transport, store or dispose of, or amenable for recovery, storage, or volume reduction.

b. Activities aboard the Combat Center are strictly prohibited in the treatment of HM, HW or hazardous substances, to include emptying containers to minimize volume or toxicity, or to change or remove a physical or chemical characteristic.

4. Spill Abatement

a. The Combat Center responds to spills and incidents involving Petroleum, Oil, Lubricants and Solvents, HM and HW that take place at Mainside, Camp Wilson and Range Training Areas. Activities shall ensure that all spills are reported immediately and are cleaned up in a timely manner. The following procedures apply for each of the specified locations:

(1) Mainside/Camp Wilson

(a) Large Spills-55 gallons or more

1. Notify the Combat Center Fire Department (Base Phone 911; Cell 760-830-3333) immediately.

2. Refer to the Abatement ESOP (ABA-ESOP) for further instructions.

(b) Small Spills-Less than 55 gallons

1. Notify the NREA Abatement Chief at 760-830-9841.

2. Notify the units or division Environmental Compliance Coordinator.

3. Refer to the ABA-ESOP for further instructions.

(2) Range Training Area

(a) Immediately notify BEARMAT on radio frequency 46.80/44.35 or telephone number 760-830-6535.

(b) Refer to the ABA-ESOP for further instructions.

b. No spill shall be left unattended regardless of the size of spill.

c. The NREA Abatement Chief will supervise cleanup activities or give clear direction on what must be accomplished and how it is to be completed.

d. The NREA Abatement Chief will conduct follow-up visits to verify completion.

e. The spill site shall not be secured until the NREA Abatement Chief gives the final clearance.

f. The ABA-ESOP contains detailed spills response and abatement procedures and is available at

<https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>

5. Recycling Solid Waste and Range Residue

a. All personnel operating and residing aboard the Combat Center shall minimize, reuse and or recycle their solid waste to the maximum extent possible. Activities shall be specifically cognizant of food waste disposal, as food waste may attract predators of the desert tortoise.

b. The NREA Residential Commercial and Recycling Center (RCRC) provides pickup service of all residential and commercial trash and recyclables.

(1) Trash and recycling containers can be requested by calling the NREA RCRC at 760-830-5666.

(2) Roll off containers can be requested for special events by contacting the NREA RCRC at 760-830-5666.

(3) Housing residents may place bulk items next to their trash containers on their assigned pick up days for removal by the NREA RCRC personnel.

c. All industrial scrap shall be turned in to the Industrial Recycling Operation Center (IROC) building numbered 2085 on Rifle Range Road. The IROC's hours of operation are from (0700-1430) Monday-Friday. Industrial scrap may consist of tires, scrap metal, old wall lockers, furniture, etc.

d. Appendix (D) contains procedures for turn-in of all range residue generated aboard the Combat Center.

6. Training Areas. All Activities operating or training aboard the Combat Center shall ensure that no HM, HW, suspected hazardous item or solid waste (garbage and litter, including communication wire) are disposed of, left, buried, or abandoned in the training areas.

7. Trash Dumpsters. All Activities operating or training aboard the Combat Center shall ensure that Raven proof covers and doors on trash dumpsters are closed when dumpsters are not being actively filled or emptied.

8. Scavenging Prohibited. All items placed in dumpsters, trash cans, recycling bins, bags used for disposal pick-up, or other trash disposition containers (to include California Redemption Value items) are considered "government property." The removal of items for personal use or for removal from the Combat Center to include scavenging and dumpster diving is strictly prohibited.

Chapter 3

Air Quality

1. Internal Combustion Engines (ICE). The Combat Center designates ICES used aboard the installation into two categories - Tactical Support Equipment (TSE) and Non-TSE.

a. TSE. TSE is defined as portable green equipment used in support of military tactical operations with ICE, such as generators, fuel pumps, welders, lights, and other equipment, with a manufacturers maximum continuous rating of 50 brake horsepower (bhp) or greater.

(1) All Activities aboard the Combat Center must annually register TSE inventory with 50 bhp or larger with the NREA Air Resources Manager. Activities shall submit their TSE Inventory report to the NREA Air Resources Manager no later than 31 January.

(2) The NREA will provide a copy of the Combat Center's TSE registration to all Activities once all submissions are received and compiled. Activities shall ensure a copy of this report is maintained and is available for environmental compliance audits.

b. Non-TSE. Non-TSE ICES with a manufacturers maximum continuous rating of 50 bhp or greater are required to be permitted by the Mojave Desert Air Quality Management District (MDAQMD).

(1) All MDAQMD permit applications shall be processed through the NREA Air Resources Manager. No equipment shall be placed into operation until required permits are obtained from the MDAQMD.

(2) The ESOP Emergency Generators (EMG-ESOP) contains detailed environmental requirements for emergency generator use and operation aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

c. Contractor Equipment. Contractor ICE equipment operating aboard the Combat Center with a manufacturers maximum continuous rating of 50 bhp or greater must be permitted by the MDAQMD or the California Air Resources Board. All Activities sponsoring contractor support shall ensure that this requirement is fulfilled.

2. Combustion Equipment (other than Internal Combustion). Combustion equipment, such as a boiler, that has a maximum heat input rate of 2 one thousand thousand british thermal units per hour or greater must be permitted by the MDAQMD.

a. All MDAQMD permit applications shall be processed through the NREA Air Resources Manager. No equipment shall be placed into operation until required permits are obtained.

b. The ESOP Boiler Operations (BOI-ESOP) contains detailed environmental requirements for boilers use and operation aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

3. Vehicles and Idling

a. Diesel powered vehicles and off-road equipment have an idling limit of five consecutive minutes.

b. The idling policy does not apply to tactical vehicles or support equipment, emergency vehicles, buses, vehicles stopped in traffic, idling during testing or repair, idling necessary to ensure vehicles are in safe operating condition, and idling to ensure the safety of the operator.

c. Buses are allowed to idle 10 minutes prior to boarding and while passengers are onboard.

4. Petroleum, Oil, Lubricants, and Solvents

a. Equipment used for storage or dispensing of JP5, JP8 or diesel with a capacity of 20,000 gallons or larger are required to be permitted by the MDAQMD. All MDAQMD permits are processed through the NREA Air Resources Manager. No equipment shall be placed into operation until required permits are obtained from the MDAQMD.

b. Equipment used for storage of oil designated for disposal or recycling with a capacity of 793 gallons or larger are required to be permitted by the MDAQMD. All MDAQMD permits are processed through the NREA Air Resources Manager. No equipment shall be placed into operation until required permits are obtained from the MDAQMD.

c. Equipment used exclusively for the storage or transfer of gasoline with a capacity of 250 gallons or larger must be permitted by the MDAQMD. All MDAQMD permit applications shall be processed through the NREA Air Resources Manager. No equipment shall be placed into operation until required permits are obtained from the MDAQMD.

d. Solvent Tanks, Parts Washers, and Solvent Dispensing Containers

(1) Equipment with a capacity 250 gallons or greater, an open surface area of 10.8 square feet or larger, or an internal volume of 92.5 gallons or larger is required to be permitted by the MDAQMD.

(2) All MDAQMD permits are processed through the NREA Air Resources Manager. No equipment shall be placed into operation until appropriate permits are obtained from the MDAQMD.

(3) Aerosol Solvents can only be used when objects cannot be moved or will not fit into a stationary parts washer. The ESOP Degreasing Aerosols (DGR-ESOP) contains detailed environmental requirements for aerosol containers used to dispense degreasing material aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

5. Painting, Coating, and Paint Removal

a. Spray and Surface Coating Equipment

(1) Equipment and painting operations using a combined total of one gallon or more per day of paint and solvent are required to be permitted by the MDAQMD.

(2) All MDAQMD Permits are processed through the NREA Air Resources Manager. Equipment and or painting operations shall not commence until required permits are obtained from the MDAQMD.

(3) The ESOP Painting Application (PAO/PAB/PAP-ESOP) contains detailed environmental requirements for paint application methods used aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>

b. Vehicle Painting

(1) High-volume low pressure spray guns in an open area using one gallon or more per day (paint and solvent combined) are required to be permitted by the MDAQMD.

(2) All MDAQMD permits are processed through the NREA Air Resources Manager. Equipment and or painting operations shall not commence until required permits are obtained from the MDAQMD.

(3) Activities shall comply with MDAQMD Rule 1116 which contains Volatile Organic Compound limits for Automotive Coating. Reference (m) applies.

(4) The ESOP Paint Booth Dry Filter (PBD-ESOP) and ESOP Painting Application (PAO/PAB/PAP-ESOP) contains detailed environmental requirements for paint booths and other paint application methods used and operated aboard the Combat Center and are available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

c. Aerosol Painting. Aerosol painting is allowed for touch-up purposes only. Touch-up painting is defined as painting an area less than 2 square feet.

d. Paint Removal Abrasive Blasting

(1) All abrasive blasting is required to be permitted by the MDAQMD.

(2) All MDAQMD permits are processed through the NREA Air Resources Manager and the operation shall not begin until required permits are obtained from the MDAQMD.

(3) The ESOP Paint Removal-Dry Abrasive Blasting (PRD-ESOP) contains detailed environmental requirements for paint removal by dry abrasive blasting aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

6. Fires and Open Burns

a. Open fires and burns of any kind are strictly prohibited, except for training Fire Department personnel.

b. The Fire Department shall submit a completed Burn Notification form to the NREA Air Resources Manager at least 48 hours in advance of scheduled Fire Department personnel training. Appendix (E) is the Combat Center's Burn Notification form.

c. The ESOP Smoke/Fire Training Facility (FTF-ESOP) contains detailed environmental requirements for operation of the fire training facility aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

7. Fugitive Dust

a. All Activities operating aboard the Combat Center shall not cause or allow the emissions of fugitive dust from any transport, handling, construction, or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source. This requirement is not applicable to emissions emanating from unpaved roadways open to public travel.

b. All Activities operating aboard the Combat Center shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land, and solid waste disposal operations.

c. All Activities operating aboard the Combat Center shall take every reasonable precaution to prevent visible particulate matter from being deposited upon public roadways as a direct result of their operations. Reasonable precautions shall include, but are not limited to, the removal of particulate matter from equipment prior to movement on paved streets or the prompt removal of any material from paved streets onto which such material has been deposited.

d. The ESOP Aircraft Takeoff and Landing (ATL-ESOP) contains detailed environmental requirements for aircraft takeoff and landing. The ESOP Rock Crushing Operations (RCO-ESOP) contains detailed environmental requirements for rock crushing operations used aboard the Combat Center. Both ESOPs are available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

8. Asbestos

a. Regulated Asbestos Containing Material (ACM) is subject to federal requirements, recordkeeping and oversight.

b. Removal of ACM aboard the Combat Center is only authorized by trained and certified personnel.

c. The ESOP Asbestos ASB-ESOP contains detailed environmental requirements for asbestos containing materials aboard the Combat Center and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

9. Ozone Depleting Substances (ODS)

a. ODS are HM that may pose serious danger to human health and the environment if not handled and stored properly.

b. The ESOP Freon/Halon System Operations and Management (HAS-ESOP) contains detailed environmental requirements for freon and halon systems. The ESOP Recovery/Replacement Refrigerant (RRR-ESOP) contains detailed environmental requirements for refrigerant recovery, replacement, use, and operation aboard the Combat Center. Both ESOPs are available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

Chapter 4

Water Quality1. Potable Water

a. The use of potable (drinking) water for non-drinking uses (i.e. landscaping) shall be limited to the maximum extent possible.

b. Potable water use shall be in accordance with all water conservation directives and applicable laws/regulations.

c. Access to or use of Water Sampling Stations is prohibited unless first cleared with the NREA Water Resources Manager.

d. Any additional potable wells placed aboard the Combat Center shall be permitted as required. Permits will be obtained and cleared through the NREA Water Resources Manager to ensure compliance with the permitting process.

e. Domestic groundwater wells and water pipelines located aboard the Combat Center's training areas, Mainside, and EAF/Camp Wilson shall be avoided at all times.

2. Non-Potable Water

a. Non-potable water shall be used whenever possible for activities such as vehicle/equipment washing, construction activities and industrial applications.

b. Any additional non-potable wells placed aboard the Combat Center shall be permitted as required. Permits will be obtained and cleared through the NREA Water Resources Manager to ensure compliance with the permitting process.

3. Landscaping

a. Xeriscape shall be utilized to the maximum extent practical for all landscaping.

b. Recycled water shall be utilized to the maximum extent practical in accordance with applicable laws/regulations.

c. All Activities shall ensure all irrigation activities are in compliance with applicable laws/regulations.

4. Wastewater

a. Wastewater from field laundry and showers (gray water) may be discharged to land areas.

(1) Appendix (F) contains the Combat Center's field wastewater guidelines.

(2) Appendix (G) is the Combat Center Gray Water Discharge Request Form. Units/Organizations wishing to utilize Field Shower, Laundry, or Mess equipment shall submit a Combat Center Gray Water Discharge Request Form for approval prior to their train event.

b. Liquid messing wastewater (black water) shall not be disposed of to surface waters or to the ground. Units/Organizations shall adhere to the Combat Center's black water guidelines that address the requirements for

capturing and disposing of black water through approved collection and removal processes. Appendix (F) pertains.

c. All messing spoils shall be disposed of as wet garbage at appropriate disposal sites. Appendix (F) pertains.

d. The discharge of any waste material to floor drains is strictly prohibited.

5. Car Wash

a. Reference (n) contains the Combat Center's policy for fund raising car washes. Activities requesting a fund raising car wash shall adhere to the requirements as established in reference (n).

b. Washing of vehicles in the training areas or parking lots is prohibited. Only the use of designated vehicle wash areas is authorized.

c. The washing of privately owned vehicles in housing is permitted. Washing of engines or degreasing operations are strictly prohibited.

d. Portable car washing services shall provide MSDSs to NREA and will comply with all Combat Center requirements.

6. Portable Toilets

a. Portable toilet waste generated aboard the Combat Center shall be dumped at the Landfill Dump Station. Access to the dump station shall be obtained through the PWD Facility Management Branch (FMB).

b. No alternate dump site will be used without PWD and NREA written approval prior to use.

c. No dumping of off installation portable toilet or septic tank waste will be permitted aboard the Combat Center.

d. All portable toilets used aboard the Combat Center shall be tied or staked down to prevent tipping/spillage.

7. Sanitary Sewer Overflow (SSO). Activities operating aboard the Combat Center shall report all SSOs to the NREA Water Resources Manager in accordance with the installation Sanitary Sewer Management Plan. Reference (o) pertains.

8. Storm Water

a. The discharge of any non storm water or waste to storm drains, ditches or storm channels is strictly prohibited.

b. Responsible Activities shall ensure that storm channels are kept free of debris.

Chapter 5

Natural Resource Protection1. Desert Tortoise

a. The desert tortoise is listed as a threatened species by the United States Fish & Wildlife Service (USFWS) under the Endangered Species Act, and by the State of California. It is illegal to possess, harass, injure or kill a threatened or endangered species. Do not pick up a desert tortoise unless it is to save the animal's life. If a desert tortoise is impeding training, Activities shall notify BEARMAT for additional instructions. If an emergency situation exists, and a tortoise must be moved out of immediate danger, the animal may be moved to an adjacent shaded area (normally plant cover) out of direct sunlight, then notify BEARMAT and the NREA Natural Resources Office (NRO).

b. Federal actions at the Combat Center may affect the desert tortoise. Small federal actions require environmental review by the NREA and large actions require NREA and external regulatory review (i.e., USFWS and California Department of Fish & Game). Federal actions typically require the site to be surveyed, by a qualified biologist, for desert tortoises and their sign. It is highly recommended that desert tortoise surveys be performed in the peak activity season (roughly 25 March to 31 May). After the NREA consults the USFWS, USFWS may authorize surveys to be performed at other times. In house surveys by the NREA (< 40 acres) may require up to 30 days advance notice to accommodate range access and completion. Larger actions require surveys be performed, with the NREA oversight and review, by an Authorized Biologist funded by the action sponsor.

c. Look under vehicles that have been stationary, as tortoises may seek a source of shade. If a tortoise is seen and is impeding movement, notify BEARMAT.

d. The possession of otherwise legal captive desert tortoises aboard the Combat Center, including base housing, is prohibited. Under no circumstances are legal captive or wild tortoises from off-base to be released into MAGTFTC, MCAGCC's population.

2. Camouflage Netting. All camouflage netting must be staked at least 18 inches off the ground in order to prevent entanglement of desert tortoises and other wildlife.

3. Accidental Death or Injury. Accidental death or injury to a desert tortoise is not subject to prosecution or penalty if the accident is reported promptly to the NREA NRO and BEARMAT.

4. Pets. No pets are allowed in the training areas (excluding Mainside). Military working dogs will be permitted under control of their handler.

5. Birds

a. Species That Require Special Consideration

(1) Certain migratory and native bird species aboard the Combat Center require special consideration. Bird species, their nests and eggs may not be disturbed, moved, collected, or destroyed without the NREA NRO consultation.

(2) Appendix (H) contains guidelines for personnel to "harass" birds attempting to build a nest by indirect means such as bright lights, loud noises, etc.

b. Only three bird species found in this area do not require special consideration: the Rock Dove (pigeon), the European Starling, and the Common House or English Sparrow.

c. Tree trimming is not permitted during the nesting season months of February through September. If tree trimming is required during this time contact the NREA for assistance.

d. Dead birds where cause of death is known (i.e. killed by cat, roadkill) should be disposed at the Combat Center landfill. If cause of death is unknown, report incident to Provost Marshal's Office (PMO) or the NREA NRO. Wear gloves when handling dead animals.

6. Hunting. Hunting is prohibited aboard the Combat Center.

7. Recreational Activities. Recreational use of Combat Center training areas is prohibited. Designated locations in the Mainside area are authorized for certain recreational purposes, contact Marine Corps Community Services Semper Fit Division for a list of locations.

8. Plant and Animal Species

a. Several plant and animal species aboard the Combat Center are considered sensitive, and could be listed as threatened or endangered if their populations decline; therefore, respect and protect all native desert wildlife and plant life.

b. The introduction of any exotic plant life is prohibited aboard the Combat Center (reference (k), chapter 11).

c. Open fires and the harvesting or cutting of any native vegetation are prohibited.

9. Wildlife

a. The feeding of wildlife aboard MCAGCC is prohibited. Unauthorized feeding of desert wildlife creates an imbalance in the food chain and reduces the animals' natural fear of humans, which places humans, wildlife, and domestic pets at risk.

b. The release of exotic wildlife, domesticated pets, aquatic species, and those vertebrate and invertebrate species not native to the area is strictly prohibited (reference (k), chapter 11).

c. The capture of wildlife for any reason is a strictly controlled activity and is only authorized by trained professionals. Animals should be captured only when they are clearly injured, are a direct threat to persons or property, or are themselves at risk of injury or death. The NREA Division, Fire Department, and PMO are equipped and trained to capture wildlife when necessary. Pest species in buildings are the responsibility of the PWD. See Appendix (I) for a response matrix.

d. Deceased domestic animals (dogs and cats) and wildlife (mammals and reptiles only), may be disposed at the Combat Center's landfill (maximum 50 pounds). Wear gloves when handling dead animals. Animals taken to the landfill should be double-bagged, and landfill operations staff must be

informed prior to deposition. Disposal of large animals (horses, cows) and dead animals found off the installation at the Combat Center's landfill is strictly prohibited.

10. Animal Issue Response. Appendix (I) contains the Combat Center's Animal Issue Response Matrix. A copy of this appendix should be posted or maintained in Officer of the Day's Turnover Folder.

Chapter 6

Cultural Resources1. General

a. Cultural resources are archeological, traditional, and built environment resources, including but not necessarily limited to buildings, structures, objects, districts, and sites. Cultural resources aboard the Combat Center are protected by federal and state laws that carry substantial civil and criminal penalties if they are damaged, removed, or destroyed.

b. Cultural resources include all remnants of prehistoric Native American activity, such as arrowheads, fire pits, and rock art, but also includes materials from later periods, such as trash pits from mining, homesteading, or military periods in history.

c. Cultural resources also include all paleontological materials, such as fossilized plants or animals.

2. Cultural Resource Protection Compliance. Compliance with federal laws and regulations for the protection of cultural resources aboard the Combat Center is maintained, in part, using the Request for Environmental Review (REIR) process.

a. An undertaking is any project or other activity that has the potential to alter or change the characteristics of a property that is included in or eligible for inclusion in the National Register of Historic Places.

b. Activities proposing an undertaking must submit an REIR via the NREA NEPA Program Manager. The REIR process provides the Combat Center's staff archeologists an opportunity to check a proposed project area for the presence of cultural resources. Information required to perform a review of an undertaking includes, but is not limited to:

(1) An Area of Potential Effect, which will consist of a map showing the entire project area, including adjacent or noncontiguous areas where project activities may affect the character of a cultural resource.

(2) Description of the proposed work to be performed.

(3) Scopes of work, plans, and/or design narratives.

c. If earth movement of any type is proposed, the NREA Natural and Cultural Resources Officer must be contacted to determine whether cultural resources are or could be involved.

d. Prior to commencement of the undertaking, the proposed site(s) must be surveyed by the NREA Cultural Resources office for cultural resources. If cultural resources are involved, consultation must proceed. Actions that require consultation include construction projects, earth movement (of any depth), and some types of military exercises that require changes in the landscape.

e. Any required consultation must be coordinated with the State Historic Preservation Officer and the Advisory Council on Historic Preservation prior to implementation. This action can require up to 90 days to coordinate and obtain concurrence.

3. Inadvertent Discoveries. An inadvertent discovery is the unexpected or accidental finding of cultural resources. Cultural resources aboard the Combat Center are protected regardless of the manner of their discovery.

a. If artifacts are discovered during construction or training activities:

(1) Halt all activity immediately.

(2) Report the occurrence to Combat Center's Range Control (BEARMAT) if in the training areas, or the NREA Cultural Resource Office at 760-830-7396, if on Mainside, Camp Wilson, or elsewhere telephone connectivity is available.

b. Activity in the area of the cultural resources may not continue until given clearance to proceed by the NREA staff archeologists. A notice may be given via BEARMAT, as necessary to ensure training is interrupted for the shortest period of time possible.

4. Damage, Theft, or Removal of Cultural Resources. It is illegal to take, excavate, injure, damage, or remove any cultural resources aboard the Combat Center.

a. Do not deface any rock art (petroglyphs or pictographs), or pick up or remove any artifacts, to include arrowheads, from where they are found.

b. Damaged or defaced sites or artifacts must be reported to the NREA Conservation Law Enforcement Branch and the Natural and Cultural Resources Officer. Individuals or units reporting damaged or defaced cultural resources should:

(1) Contact BEARMAT, if in the training areas or NREA at 760-830-7396, if on Mainside, Camp Wilson, or elsewhere telephone connectivity is available.

(2) Provide a grid coordinate or other suitable locational data such that a Conservation Law Enforcement Officer or NREA staff will be able to relocate the resource.

(3) Provide a thorough description of the resource, the damage, and any known details about the incident.

c. Cliffs, rock formations, etc., cannot be defaced, painted, or damaged in any way, to avoid damage to unrecorded cultural resources. With prior clearance, rocks may be arranged in patterns for operational needs, or in command areas, as long as the areas are returned to their natural condition.

d. The removal and painting of rocks from the field for landscaping or signage is prohibited.

e. The removal of signs designating areas as off limits or restricted is prohibited.

Chapter 7

Training Area Activities1. Coordination and Scheduling

a. Personnel and units training aboard the Combat Center must receive all briefings required by the AC/S G-3, to include a complete environmental briefing by qualified staff.

b. Pre-Designated Range Training Support Sites (PRTSS) have been designated within several Combat Center training areas. The use of these sites greatly reduces the level of environmental coordination. Appendix (J) contains a listing of Combat Center PRTSS. The PRTSS should be selected in advance and developed into the training scenario. PRTSS will be scheduled by the AC/S G-3's Range Management Section. Reference (p) pertains.

2. Access and Trespass Incidents

a. Prior to operating on land not within the Combat Center's boundaries, such as that managed by the Department of Interior, BLM, the requesting unit must coordinate the proposed action through the AC/S G-3. The AC/S G-3, will coordinate the required environmental actions with the NREA Division. Reference (p) pertains.

b. The "Cleghorn Lakes Wilderness Area," located to the south of the Cleghorn Pass, Bullion and America Mine training areas, is managed by the BLM. Accessing or departing the southeastern ranges through this area is strictly prohibited. No entry is allowed in this protected area. There is no authorized access to the Cleghorn Pass, Bullion or America Mine training ranges from a southerly direction.

c. The "Ord-Rodman Critical Habitat" for desert tortoise and two associated wilderness areas are adjacent to the Sunshine Peak training area. No entry is allowed in these protected areas.

d. Incidents involving trespassing and dropping, firing, or detonating ordnance or weapons off-base will immediately be reported to the AC/S G-3, the Director of NREA, and Staff Judge Advocate.

3. Vehicle Operations

a. Comply with posted or established speed limits in training areas and in garrison. Excessive speed is a safety hazard; it creates excessive stress on equipment, increases maintenance and repair costs, and it contributes significantly to dust emissions.

b. All training units should limit off-road activity to that which is absolutely necessary to directly support the mission. Off-road maneuver exercises will be planned to emphasize the use of already disturbed areas.

c. "Neutral Steer" turns of tracked vehicles shall be limited to emergency situations only. The AC/S G-3, shall coordinate with the NREA Division to identify authorized areas for practicing "Neutral Steer" turns. No unit shall practice neutral steers in sensitive areas per Appendix (K), such as the Sand Hill training area.

4. Land Disturbance

a. Approval must be obtained from both the AC/S G-3, and the NREA Division prior to clearing land (grading) or conducting any vegetation removal action in the training areas.

b. Trenches, defilades, tank traps, and fighting positions shall be filled to original grade and excess material leveled after each use.

5. Special Use Areas (Category 1). The following sites are designated no impact, no mechanized maneuver areas aboard the Combat Center. Access to these sites under emergency situations is allowed, but should be as limited as possible until the NREA Division is consulted. These sites are set aside for the purpose of protecting and studying important biological and cultural resources. Appendix (K) contains detailed maps. No bivouacs, no off-road vehicles, nor any training involving vehicle activity are authorized within these areas:

a. Surprise Spring/Sand Hill: All military vehicles will remain on established Main Supply Routes (MSRs) at all times. Only NREA and authorized PWD FMB personnel will enter areas off the MSRs. Universal Transverse Mercator (UTM) grid coordinated: from NW corner 648982 to 705985 to 720958 to 759978 to 760972 to 710942 to 646942 and back to the NW corner. No excavation or collection of artifacts is authorized in the Surprise Spring Archeological District (UTM grid 71/95).

b. Foxtrot Petroglyphs: This site, situated along the southern edge of lava flow (UTM grids SW 97/09 to NE 00/10), is listed on the National Register of Historic Places. The Foxtrot Petroglyph Site is strictly off-limits to all military training, personnel and equipment. All forms of graffiti, defacement, or removal of rock art (petroglyphs and pictographs) are illegal and incidents shall be reported to the Commanding General.

c. Deadman Lake Cultural Resource Management Area: The Deadman Lake Cultural Resource Management Area (DLCRMA) is a Special Use Category 1 Area situated in the dune area between the Forward Ammunition Supply Point, Camp Wilson, and the Deadman Lake Playa at grids NT765000 to NT790000 to NT810950 to NT800950 to NT760980. The DLCRMA includes 63 archeological sites located on fragile dune structures susceptible to damage by vehicular traffic or other field activities. Movement through the area is restricted to established MSRs, marked by red carsonite posts or four-strand barbed wire fences. No cross country travel, live fire, or bivouac is allowed in this area.

d. Emerson Lake Historic Sites: The southern shore of Emerson Lake (UTM grid SW 550/085 to NE 580/105). Off road travel is prohibited, all traffic must remain on MSRs at all times. Collecting artifacts, excavations, and otherwise damaging any of these sites is prohibited.

e. Lavic Lake Archeological District: The Lavic Lake Archeological District is located on the lava flow in the northwestern Lavic Lake training area located at grids NU518440 to NU620440 to NU620374 to NU590374 to NU590400. The Lavic Lake Archeological District is of great archeological significance and is being preserved for study and evaluation. Movement through the Lavic Lake Archeological District is restricted to established MSRs. No cross country travel, live fire, or bivouac is allowed in this area.

f. Historic Mines and prospects: All abandoned mines and prospects on the Combat Center are considered historic resources and are protected by law. They are also sensitive for biological resources. Additionally, historic

mines are extremely hazardous due to their age and structural integrity. All mines and prospects are strictly off limits to all personnel and equipment.

g. Lead Mountain Study Plots: UTM grid 97/16 is off-limits to off-road vehicular traffic and other training activities. Cultural and Biological Resources in this area are considered sensitive. In UTM grid 00/22, vehicles are allowed on the MSR, only.

6. Special Use Areas (Category 2). The following sites, as shown in Appendix (K), are designated as Special Use Areas determined by different qualities of environmental sensitivity. While there are no limitations to training specified in this instructions manual, units are cautioned to be aware of the sensitive natural and cultural resources located in these areas. Improper utilization of these areas may result in future environmental constraints:

a. Sand Hill: the area south of the restricted area and west of the Expeditionary Airfield.

b. Emerson Lake/Acorn: the area south of the 08 and west of the 58 gridlines. The rectangle, SW corner: 566570 E/3799740 NNE corner: 568345 E/3800580 N.

c. Cleghorn Pass: southern Cleghorn Pass training area, less the fixed ranges (400, 410, 410A, 500, BZO).

d. Wood Canyon: Located in east-central Quackenbush Lake, this area has sustained significant impact from transit traffic. This has damaged the desert willow "cover" which is both rare and highly desirable for training purposes. Units should utilize other routes when possible, preferably the MSR northeast of Wood Canyon.

e. Northern Sunshine Peak, Northwest Lavic Lake: These remote areas are sensitive due to their proximity to BLM Wilderness and are considered "Critical Habitat" for the desert tortoise.

f. Southern Bullion: This remote area is sensitive due to its proximity to BLM Wilderness.

7. Dry Lakebeds. All dry lakebeds (Lavic Lake, Emerson Lake, Quackenbush Lake, Deadman Lake, Ames Dry Lake, Mesquite Lake and Dry Lake--Lead Mountain training area) are sensitive areas that should be avoided when wet. Appendix (K) pertains. Vehicles can easily become stranded in the mud, and very significant ground disturbance would occur. Additionally, units should be aware that the now-dry lakebeds were the focal point of historic and pre-historic land use by Native Americans and others. For this reason, several of the nearby lakeshore areas contain protected cultural resources, and are protected by the National Historic Preservation Act and the Archeological Resources Protection Act. Reference (g) applies.

Chapter 8

National Environmental Policy Act (NEPA)

1. General. The NEPA is a basic national charter for minimizing federal government impacts on the environment. The NEPA establishes a process, set goals, and provides a means for carrying out environmental protection.

2. Application. The NEPA documentation is required for both new and continuing activities and for activities such as trenching, digging, road widening, earth movement and most construction activities; significant changes in ongoing process (e.g. significant change in size, number or scope of ongoing training exercises; and deployment of new equipment aboard the Combat Center). This list is not intended to be all-inclusive.

3. Responsibilities. NEPA requires federal agencies to consider the environmental impacts of Proposed Actions which may have the potential to impact the environment. The action sponsor shall document any action meeting the NEPA threshold.

a. COs, AC/Ss, Directors, OICs and or Action Sponsors shall:

(1) Ensure that consideration and documentation are accomplished and completed early in the planning process before a decision is made to take an action.

(2) Ensure that requirements of the NEPA, as identified in reference (c) are completed on actions requiring environmental documentation prior to the physical initiation of the action.

(3) Ensure complete the NEPA process documentation precedes contract award and is within the contract file.

b. AC/S G-4, NREA Division shall:

(1) Manage the Combat Center's NEPA program and ensure Proposed Actions on the Combat Center comply with the references and this instructions manual.

(2) Assist Action Sponsors in reviewing Proposed Actions and give them comments and recommendations regarding natural and cultural resources and environmental impacts.

4. ESOP. In addition to reference (c), the ESOP National Environmental Policy Act (NEP-ESOP) contains environmental guidelines for the submission and processing of the NEPA documentation and is available at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

Environmental References

a. CCO 5090.1E is the MAGTFTC, MCAGCC's Environmental Protection, establishing environmental policies and procedures that ensures the preservation of the Combat Center's training opportunities.
<http://www.29palms.usmc.mil/dirs/manpower/adj/ccotoc.asp>

b. CCO 5090.2 is the MAGTFTC, MCAGCC's Comprehensive Environmental Training and Education Program (CETEP) Plan that prescribes the regulations and training requirements as it pertains to the performance of duties in the environmental field aboard the Combat Center.
<http://www.29palms.usmc.mil/dirs/manpower/adj/ccotoc.asp>

c. CCO 5090.4C is the MAGTFTC, MCAGCC's Order regarding National Environmental Policy Act compliance, it details specific information regarding the environmental review and approval process prior to performing or taking an action that may affect the environment.
http://www.29palms.usmc.mil/dirs/manpower/adj/5000/5090_4C.pdf

d. CCO 5090.5A is the MAGTFTC, MCAGCC's Integrated Contingency and Operations Plan that establishes policies and procedures to manage hazardous, unregulated solid, recyclable, universal, and biological waste and material. It establishes policies and procedures in the areas of emergency preparedness, response, and storage tank management aboard the Combat Center.
http://www.29palms.usmc.mil/dirs/manpower/adj/5000/5090_5A.pdf

e. CCO 5090.8A, is the MAGTFTC, MCAGCC's Environmental Management System (EMS) Manual that establishes EMS policy and procedures to sustain environmental compliance, reduce pollution, and reduce environmental and mission risk. <http://www.29palms.usmc.mil/dirs/manpower/adj/ccotoc.asp>

f. The MAGTFTC, MCAGCC's Integrated Natural Resources Management Plan is MAGTFTC, MCAGCC's five year plan for management and improvement of land usage. It represents a cooperative agreement between MCAGCC, the United States Fish & Wildlife Service and the California Department of Fish & Game. This plan includes a preliminary Wildfire Management Plan and information detailing MCAGCC's compliance with Executive Orders and regulations regarding Invasive Species.

g. The MAGTFTC, MCAGCC's Integrated Cultural Resource Management Plan is MAGTFTC, MCAGCC's five year plan that integrates the full spectrum of legal mandates, mission related actions, cultural resources types, and other planning considerations into a single cultural resource management plan.

h. The Desert Tortoise Management Plan is a MAGTFTC sponsored plan (Kiva 2003), consistent with the Basewide Biological Opinion (USFWS 1-8-99-F-41, 7 Mar 02), describing measures to conserve MCAGCC's desert tortoises, Gopherus agassizii, and their habitat, while minimizing impacts to the MAGTFTC's military training mission. The plan identifies high and medium density tortoise areas and measures contributing to the conservation and research of the species at MCAGCC and throughout the species' range.

i. The Biological Opinion for Base-Wide Training Operations and the Routine Maintenance Program, 1-8-99-F-41 of 7 Mar 02, the Desert Tortoise Management Plan and Endangered Species Act of 1973 address the specific management and legal requirements of the desert tortoise, a threatened species protected by federal and state law.

j. The Endangered Species Act of 1973, as amended (ESA) is a Congressional mandate that identifies the need to protect the fish, wildlife and plants valuable to the United States, provides a means to conserve United States fish, wildlife and plant species endangered or threatened with extinction, and declares "... that all Federal departments and agencies shall seek to conserve endangered species and threatened species...". The ESA applies to the threatened desert tortoise, Gopherus agassizii, MCAGCC's only resident threatened species.

k. The MCO P5090.2A is the Marine Corps' Environmental Compliance and Protection Manual. It provides Marine Corps policy, identifies statutory and regulatory requirements, and assigns responsibilities for the management of the Marine Corps Environmental Program.
<http://www.marines.mil/news/publications/Documents/MCO%20P5090.2A%20W%20CH%201-2.pdf>

l. The DOI 4715.03 is the Department of Defense Instruction for the "Environmental Conservation Program," which provides specific guidance for the integrated management of natural and cultural resources on property under DoD control. <http://www.dtic.mil/whs/directives/corres/pdf/471503p.pdf>

m. The MDAQMD Rule 1116 is the Automotive Refinishing Operations guidelines regarding Volatile Organic Compound Regulatory limits.

n. The CCO 1741.1 Provides rules and regulations for raising funds for non-federal entities.
http://www.29palms.usmc.mil/dirs/manpower/adj/1000/1741_1.pdf

o. The MAGTFTC, MCAGCC's Sanitary Sewer Management Plan describes the programs and processes used to manage a wastewater collection system effectively and in accordance with the State Water Discharge Order NO. 2006-0003.

p. The CCO 3500.4h is MAGTFTC, MCAGCC's Standard Operating Procedures for Range/TAs and Airspace.
http://www.29palms.usmc.mil/dirs/manpower/adj/3000/3500_4h.pdf

q. The Emergency Planning and Community Right-to-Know Act (EPCRA) requires reports to be submitted each year on the amounts of chemicals the facility released into the environment or otherwise managed as waste. Section 313 requires facilities to report for each listed chemical the amount released to air, water, land, underground injection and transferred off-site to disposal.

r. The CCO 5040.5J is MAGTFTC, MCAGCC's Commanding General's Inspection Program Order that promulgates policy and procedures concerning the Commanding General's Inspection Program.



UNITED STATES MARINE CORPS
 MARINE AIR GROUND TASK FORCE TRAINING COMMAND
 MARINE CORPS AIR GROUND COMBAT CENTER
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IN REPLY REFER TO:
 5090
 4F

AUG 17 2010

POLICY LETTER 3-10

From: Commanding General
 To: All Hands
 Subj: ENVIRONMENTAL POLICY

The two most important national functions of the Marine Corps are making Marines and winning battles. Training for combat is integral to performing these functions. We preserve the training opportunities enjoyed by today's Marines for future generations of Marines by respecting and maintaining the natural and cultural resources entrusted to the Marine Corps.

In combat, leaders consider and conserve the amount of resources expended to achieve the mission. Protecting the environment and conserving natural and cultural resources while performing the training mission of the Marine Corps Air Ground Combat Center are no different. I am committed to applying sound environmental management practices to our command's resources and continually improving these practices to strengthen our training mission.

Sustaining future operations requires that we continually improve how we manage ranges, training areas, support facilities, and even our homes. I will use a formal, comprehensive Environmental Management System (EMS) to maintain our freedom of action and control risks to operational readiness posed by the environmental impacts of our actions. The EMS integrates environmental stewardship into our daily decision-making and long term planning processes across all missions, activities, and functions. I will also use our Integrated Natural Resources Management Plan and Integrated Cultural Resources Management Plan to comply with laws and regulations dedicated to conservation and environmental stewardship.

As Marines, we uphold the constitution by obeying the nation's laws. Environmental laws are no exception. I am committed to complying with all applicable environmental legal requirements and continually improving EMS performance to minimize risks to the mission. Environmental compliance, pollution prevention, environmental training and awareness, conservation, reporting, and responding to contaminated sites or unpermitted releases, and long-term management of training areas are keys to environmental stewardship and mission accomplishment. As good stewards, all commanders shall strive to generate environmental awareness through leadership and training.

The Marine Corps Air Ground Combat Center's Natural Resources and Environmental Affairs Division staff is committed to preserving your training mission while conserving natural and cultural resources and complying with our nation's environmental laws. They are available at (760)830-7634, if you have any questions.


 H. S. CLARDY, III

Environmental Standard Operating Procedures (ESOP)Found at <https://wpt.29palms.usmc.mil/dirs/inl/nrea/esop.asp>.

1. **Abatement** - ABA ESOP - provides environmental guidelines for the proper procedures of Hazardous Material Spill Response according to Abatement procedures.
2. **Aircraft and Helicopter Fueling** - AHF ESOP - provides environmental guidelines for the operational procedures of when fueling aircrafts and helicopters for training missions.
3. **Aircraft Takeoff and Landing** - ATL ESOP - provide environmental guidelines for aircraft takeoff and landing.
4. **Aircraft Washing** - AWA ESOP - provide environmental guidelines for the management of aircraft wash racks.
5. **Annual Environmental Training Plan** - AET ESOP - provides environmental guidelines for developing and establishing an Annual Environmental Training Plan.
6. **Asbestos** - ASB ESOP - provide environmental guidelines for the management asbestos containing material in MCAGCC facilities.
7. **Backflow Prevention** - Cross Connection - BFP ESOP - provide environmental guidelines for the prevention of cross contamination of potable water supplies through the use of backflow prevention devices.
8. **Battery Recharging Non-Vehicle, Comm., Electric** - BRE ESOP - provide environmental guidelines for the use of non-vehicle, communications and electric batteries
9. **Battery Replacement (Replacement/Recharging, Vehicle)** - BAR ESOP - provide environmental guidelines for the management of lead acid batteries.
10. **Bioremediation Operations** - BIO ESOP - provide environmental guidelines for the use of non-vehicle, communications and electric batteries.
11. **Boiler Operation** - BOI ESOP - provide environmental guidelines for the permitting requirements of boilers with the capacity of over 1,000,000 BTU/Hr.
12. **Burn Pit Operations** - BPO ESOP - provide environmental guidelines for operations and training at the burn pit.
13. **Degreasing-Aerosol** - DGR ESOP - provides environmental guidelines for the use of aerosol containers which are used to dispense degreasing materials.
14. **Degreasing-Aqueous/Solvent** - DGA/DGS ESOP - provides environmental guidelines for the use of parts washers containing organic and aqueous solvents.
15. **Dental Operations** - DEN ESOP - provide environmental guidelines for dental operations.

16. **Desktop and Turnover Requirements** - DTR ESOP - provide proper procedures for creating and maintaining desktop and turnover folders.
17. **Diesel Power Generation** - DPS ESOP - provide environmental guidelines for the proper procedures of dealing with diesel power generation.
18. **Emergency Generators** - EMG ESOP - provide environmental guidelines for emergency generators.
19. **Engine Testing** - ENT ESOP - provide environmental guidelines for the proper procedures for engine testing.
20. **Facilities Maintenance and Repair** - FMR ESOP - provide environmental guidelines for the proper execution of local facilities maintenance and Repair.
21. **Facility Construction, Repair and Demolition** - FCR ESOP - provide environmental guidelines for the proper procedures as they apply to contractors performing facility construction, repair and demolition.
22. **Fire Training Facility** - FTF ESOP - provides environmental guidelines for fire training facility operations.
23. **Freon-Halon System Operations and Management** - HAS ESOP - provide environmental guidelines for the use of Freon and Halon systems operations and management.
24. **Fuel Storage** - Above Ground Storage Tanks - FSA ESOP - provide environmental guidelines for above ground fuel storage tanks.
25. **Fuel Storage** - Underground Storage Tanks - FSU ESOP - provide environmental guidelines for fuel storage Underground Storage Tanks (USTs).
26. **Fuel Transfer** - Tank Truck - FTT ESOP - provide environmental guidelines for performing fuel transfers from vehicle fuel tankers into fuel storage tanks and dispensing facilities such as above ground storage tank(s) and/or underground storage tank(s).
27. **Grease Traps** - GRT ESOP - provide environmental guidelines for the management of grease traps.
28. **Greening Through Procurement** - GTP ESOP - provides and establish procedures for the process of greening through procurement.
29. **Hazardous Consolidation Point (HCP) Operations** - HCP ESOP - provide environmental guidelines for proper storage of hazardous material at the HCP.
30. **Hazardous Materials Storage** - HMS ESOP - provides environmental guidelines for proper storage and handling of hazardous material.
31. **Hazardous Waste Accumulation Area** - HWA ESOP - provides environmental guidelines for the management of hazardous waste accumulation areas (less than 90 days sites).
32. **Hazardous Waste Recycling** - HWR ESOP - provide environmental guidelines for the management of hazardous waste recycling.

33. **Hazardous Waste Satellite Accumulation Area** - HWS ESOP - provides environmental guidelines for the management of hazardous waste satellite accumulation areas.
34. **Hazardous Waste Transportation** - HWT ESOP - provides environmental guidelines for the management of hazardous waste transportation.
35. **Industrial Storm Water Channels** - ISW ESOP - provide environmental guidelines for the proper maintenance and management of industrial storm water channels.
36. **Meals, Ready-to-Eat** - MRE ESOP - provide environmental guidelines for the handling and disposal of flameless ration heaters.
37. **Medical Operations** - MED ESOP - provide environmental guidelines for the management of medical operations, including Battalion Aid Stations.
38. **NEPA (National Environmental Policy Act) Documentation** - NEP ESOP - provides environmental guidelines for the submission and processing of NEPA documentation.
39. **Non-Potable Water General** - NPD ESOP - provide environmental guidelines for the management of non-potable water.
40. **Oil Water Separator** - OWS ESOP - provides environmental guidelines for the management of oil/water separators.
41. **Paint Booth Dry Filter** - PBD ESOP - provide environmental guidelines for the operation of paint booths at MCAGCC.
42. **Paint Removal - Dry Abrasive Blasting** - PRD ESOP - provide environmental guidelines for paint removal through the use of dry abrasive blasting.
43. **Painting Applications** - PAO/PAB/PAP ESOP - provide environmental guidelines for various paint application methods, including aerosol containers, paint brushes and paint spray guns.
44. **PCB (polychlorinated biphenyl) Item Disposal** - PCB ESOP - provides environmental guidelines for the disposal of PCB items.
45. **Pesticide/Herbicide General** - PEW ESOP - provide environmental guidelines for pesticide and herbicide application.
46. **Potable Water** - POT ESOP - provides environmental guidelines for the management of potable water.
47. **Pumping Station/Force Main** - PSF ESOP - provides environmental guidelines for the management of pumping stations and force mains.
48. **Range Residue Processing** - RRP ESOP - provide guidelines for management of the range residue processing facility.
49. **Recovery/Replacement Refrigerant** - RRR ESOP - provide environmental guidelines for refrigerant recover and/or replacement.
50. **Rock Crushing Operations** - RCO ESOP - provide environmental guidelines for rock crushing operations.

51. **Sodium Hypochlorite Disinfection System** - SHDS ESOP - provides environmental guidelines for operation of the sodium hypochlorite disinfection system.
52. **Soil Excavation/Grading** - SEG ESOP - provides environmental guidelines for soil excavation and grading.
53. **Soldering Operations** - SOP ESOP - provide environmental guidelines for soldering operations.
54. **Solid Waste Collection and Transportation** - SWC ESOP - provide guidelines for the collection and transportation of solid waste and recycled materials.
55. **Solid Waste Landfill** - SWL ESOP - provides guidelines for the disposal and management of solid waste at the solid waste landfill.
56. **Solid Waste Recycling Collection Local** - SRL ESOP - provide guidelines for the management of solid waste and recycled materials for collection at MCAGCC facilities.
57. **Solid Waste Recycling Facility** - SRF ESOP - provides guidelines for the management and collection of solid waste and recycled materials at solid waste facilities.
58. **Stump Brush Removal** - SBR ESOP - provide environmental guidelines for stump brush removal.
59. **Tire Replacement** - TIR ESOP - provides guidelines for the management of used tactical, commercial privately owned vehicles, government commercial and range tires at MCAGCC facilities.
60. **Turbine Generation** - TUR ESOP - provide environmental guidelines for turbine generation operations.
61. **Urban Wildlife Management** - UWM ESOP - provides environmental guidelines for urban wildlife management.
62. **Used Oil Above Ground Storage Tanks** - UOA ESOP - provides environmental guidelines for the storage of used oil in above ground storage tanks.
63. **Used Oil and Antifreeze Accumulation** - UOA ESOP - provide environmental guidelines for managing used oil and antifreeze during maintenance activities.
64. **Vehicle/Equipment Fluid Change** - VCC ESOP - provides environmental guidelines for vehicle and equipment fluid changes.
65. **Vehicle Equipment/Parts Replacement** - VEO ESOP - provides environmental guidelines for vehicle equipment/parts replacement.
66. **Vehicle Refueling** - VER ESOP - provide environmental guidelines for tactical and commercial refueling of all diesel (to include JP5 and JP8) and gasoline fueled vehicles, and equipment.
67. **Vehicle Wash Rack** - VEW ESOP - provides environmental guidelines for the management of vehicle wash racks.

68. **Waste Water Flare Operations** - WWF ESOP - provide environmental guidelines for flare operations conducted at the Waste Water Treatment Facility.
69. **Waste Water Treatment General** - WWT ESOP - provides environmental guidelines for the management of waste water treatment plants.
70. **Weapons Cleaning** - WEC ESOP - provide environmental guidelines for weapons cleaning.

TURN-IN PROCEDURES FOR RANGE RESIDUE

All units aboard the Combat Center will turn in brass, ammo residue, packing, and boxes to the Range Sustainment Branch (RSB) located at the lot next to building #2096 on Rifle Range Road.

RSB will be operational during normal working hours (Monday - Friday, 0600 – 1600). Operating hours may be adjusted when given prior notification from units with specific requirements.

Upon arriving at building 2096, park all vehicles across the road. Come inside the trailer, inform personnel that you have range residue for turn-in and you will be advised where to go.

Range Residuals Include:

1. Small arms range residue (primarily spent ammunition and cartridge casings).
2. Ammunition /ordnance-derived material. Non-explosive items found at small arms and training ranges such as bandoleers, metal links and clips, ammunition boxes, and lifting lugs. This may also include nonmetal items, such as firing tubes (fiberglass, etc...), cardboard, and Styrofoam packaging material and wood boxes.

Turn-Ins

All turn-ins will be conducted by no less than two (2) individuals representing the organization. Due to the amount of unfired ammo coming into the RSB yard during turn-ins it is required that an AMMO Tech, Aviation Ordnance man or Staff NCO be present during turn-ins. This allows the RSB personnel to give back any “live” items and they can then be turned back into the CMA or FASP. Two personnel will supervise offloading and sign the required certificates.

1. All P treated wood will be taken to the HWAA lot prior to arriving at the RSB.
2. All PA116 tank ammunition containers and PA125 25mm ammo cans will be turned in to the Center Magazine Area (CMA). Aviation units check with the CMA for those items you must return to them.

Details on Residue

1. Expended brass cartridges cleared of all debris, need not be sorted by caliber (.50 caliber and 20mm is the exception to this rule). Clips will be removed from brass, on the range.
2. Links cleared of all debris, including brass. Links do not have to be sorted by caliber or size.
3. Cartridge Actuated Devices (CADS) will be separated by metal type (Aluminum and steel).
4. Artillery containers (Prop Chg cans), with lids off. Lifting plugs separated from other material. Plastic rotating band protectors must have metal clips removed.

5. 40mm cartridge cases (Expended steel, aluminum, and plastic cartridges will be separated by type.
6. Shotgun shells separated by material type.
7. Ammunition cans must have lids off. All plastic inserts removed and separated.
8. 120mm Tank bases, flash tubes removed (if possible).
9. Mortar fuze safety pins separated in ammo can.
10. Plastic mortar containers must have straps cut off; (explosive) stickers removed, and tag with wire attached to lid and rubber gaskets removed.
11. Cardboard mortar containers must have metal lids removed and separated.
12. Expended smoke grenades with fuzes removed, fuzes separate, spoons and safety pins placed in ammo can.
13. Grenade cardboard containers must be separated into two halves.
14. All expended missile launch tubes will be inspected by RRPC personnel and cleared for disposal.
15. Once all material has been inspected, all wood (except P wood) will be taken to the wood lot, and trash to the landfill.

Ammo Cans

List of the type of ammo cans generally available at the RSB. (Measurements are length x width x height and are approximate.)

5.56mm (Green) 11"x5.5"x7"
 (Green) 12.5"x6.75"x8.5"
 7.62mm (Green) 10"x3.5"x7"
 .50 cal (Green) 11"x5.5"x7"
 81mm mortar cans (Brown) 25"x13"x7.5"

At time of removal of ammo cans from the RSB Lot, Units shall sign for receipt of ammo cans utilizing the form that is available at the RSB.

Contact

For further information contact 830-3042 (answering machine, leave your name, unit, phone number, and a brief message). RSB personnel will get back to you as soon as possible.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

Phone: (760) 245-1661 Fax: (760) 245-2699 (800) 635-4617

TRAINING BURN NOTIFICATION

10 day notice and **asbestos renovation/demolition notice** is required for the following:

- A. Structural; commercial and larger than quadruplex dwelling
- B. Structural: residential and up to a quadruplex dwelling
- C. Wildland/wildfire management

24 hour notice is required for the following:

- D. Fire Department training
- E. Fire prevention and extinguisher training

| | |
|--|--------|
| Organization Conducting Training Burn | |
| Name: | |
| Address: | |
| City/Zip: | |
| Company/facility #: Building 1516 | Phone: |

| | |
|-------------------------------------|-----------|
| Specific Details | |
| Name of person making notification: | |
| Name of person conducting training: | |
| Location of Burn: | |
| Purpose of burn: | |
| Fuel: | Quantity: |
| Number of persons: | Length: |

| | | | |
|--------------------|-------|-------|-------|
| Date: | Time: | Time: | Time: |
| | | | |
| | | | |
| | | | |
| Other information: | | | |
| | | | |

**MARINE AIR GROUND TASK FORCE TRAINING COMMAND (MAGTFTC)
MARINE CORPS AIR GROUND COMBAT CENTER (MCAGCC)**

FIELD WASTEWATER GUIDELINES

FIELD WASTEWATER. Field Wastewater consists of contaminated water that is discharged from field shower, laundry units and water discharged from field kitchen messing operations. Contaminated water discharged from laundry and shower units is identified as "Gray Water". Contaminated water discharged from field kitchens and mess facilities is identified as "Black Water".

GRAY WATER. Gray Water is water contaminated with biodegradable laundry detergents discharged from field laundry units and water contaminated with body hygiene soap or shampoos discharged from field laundry and personnel hygiene shower equipment. Gray water is an authorized wastewater discharge to any area in the field that restricts the movement of the discharged gray water to the immediate area of the discharge by a developed ground surface impoundment or percolation pit that detains the wastewater on site for the purpose of evaporation and percolation disposal. A constructed ground surface impoundment or percolation pit is created by utilizing sandbags. If sand bags are used, they are to be emptied and removed upon cessation of operations or final movement from the operation area.

Note 1: Seepage pit excavation or earthen berms shall be established in accordance with all procedures/requirements and approved by the MAGTFTC, MCAGCC Natural Resources and Environmental Affairs Division, Water Resources Office.

Note 2: Units/Organizations wishing to utilize Field Shower, Laundry or Mess equipment must submit the request form (APPENDIX G in G4 NREA 5090 EP Instructions Manual) for approval prior to operations. The MAGTFTC, MCAGCC Natural Resources and Environmental Affairs Division, Water Resources Office will provide the Unit/Organization with written approval prior to commencement of operations.

Note 3: At no time will individual or crew served weapons be cleaned in personnel shower/decon units that discharged to ground surface impoundments or percolation pits.

Note 4: Gray water generated by field laundry equipment used to clean petroleum product soiled work clothing or rags soiled with petroleum products must be containerized for appropriate petroleum contaminated wastewater disposal.

BLACK WATER. Black Water is water contaminated with food particles and grease generated by food preparation and cleaning of messing operations in the field. Field messes or kitchens will collect all food wastes as well as grease-trap type grease in appropriate containers for proper disposal. Food wastes may be disposed of at the MAGTFTC MCAGCC landfill (if it is dewatered to 50% or less). At no time will grease-trap type grease or wastewater contaminated with grease-trap type grease or food chunks be discharged to ground. Black Water is considered contaminated with food chunks if it contains particles of food greater than one-eighth inch in diameter.

VEHICLE/EQUIPMENT WASHING. Vehicle and equipment washing **IS NOT AUTHORIZED** in the field, with the exception of decontamination NBC training with unit organic sanators. Maintenance washing will take place only at authorized facility wash areas.

INFORMATION. For questions concerning field sanitation/wastewater disposal, contact the MAGTFTC, MCAGCC Natural Resources and Environmental Affairs Division, Water Resources Office, Building 1451, (760) 830-7883, DSN 230-7883.



UNITED STATES MARINE CORPS
UNIT LETTERHEAD

5090.1E
Org Code
Date

From: (UNIT/ORGANAZATION)
To: Natural Resources Environmental Affairs Division
(Attn: Water Resources Manager)

Subj: REQUEST FOR USE OF: (CHECK APPROPRIATE BOX OR BOXES)

| | | |
|----|--|-----------------------|
| 1. | | FIELD SHOWER UNIT |
| 2. | | FIELD LAUNDRY REQUEST |
| 3. | | FIELD MESS REQUEST |

Ref: (a) CCO 5090.1E
(b) CCO P3500.4H

Encl: (1) Sketch of percolation pit area in relation to terrain and natural land features including location of all shower stalls, change tents and taped off area.
(2) Map with the grid coordinates marking the location of the percolation pits with an arrow.

1. No gray water will overflow the percolation pit. Only hand soap and shampoo will be used for showering. If the shower stalls require cleaning, minimum amounts of a household type cleanser will be used.

2. Construction and operation of all percolation pits will be in accordance with Reference (a), Appendix (F); subj: FIELD WASTEWATER GUIDELINES. Enclosure (1) and (2) contains detail description and location for the proposed action. Additionally, the following information is submitted for your review and approval:

1. UNIT NAME: _____

2. POINT OF CONTACT #1: _____ Phone: _____

3. POINT OF CONTACT #2: _____ Phone: _____

4. SPECIFIC TRAINING AREA NAME: _____

5. 6 DIGIT GRID COORDINATES: _____

6. START DATE: _____ 7. ENDING DATE: _____

8. NUMBER OF PERSONNEL: _____

9. PIT SIZE: (CHECK ONE)

<50 PERSONNEL = ONE PERCOLATION PIT - 10' W x 15' L x 3' D

50-100 PERSONNEL = ONE PERCOLATION PIT - 15' W x 20' L X 3' D

- 101-200 PERSONNEL = TWO PERCOLATION PITS - 15' W x 20' L x 3' D
- 201-350 PERSONNEL = TWO PERCOLATIONS PITS - 20' W x 25' L x 3' D
- 201-350 PERSONNEL = TWO PERCOLATIONS PITS - 20' W x 25' L x 3' D
- >351 PERSONNEL = TWO PERCOLATION PITS - 25' W x 25' L x 3' D

- 10. YES NO WE HAVE READ AND WILL COMPLY WITH THE REFERENCES AND
 ALL ENVIRONMENTAL RESTRICTIONS.

- 11. YES NO ALL GRAY WATER WILL BE DISCHARGED DIRECTLY INTO THE
 PERCOLATION PIT.

- 12. YES NO TO PREVENT ACCESS THE PERCOLATION PIT WILL BE SECTIONED
 OFF WITH ENGINEERING TAPE WHICH IS PLACED ON ENGINEERING
 STAKES AT a HEIGHT OF APPROXIMATELY 3 FEET FROM THE
 GROUND.

- 13. YES NO THE PERCOLATION PIT WILL BE BACKFILLED IMMEDIATLEY UPON
 COMPLETION OF THE FIELD EXERCISE.

- 14. YES NO NA ALL GALLEY WASTEWATER WILL BE FREE OF ALL FOOD PARTICALS
 AND GREASE.

- 15. YES NO NA ALL ITEMS USED IN FOOD PREPARATION AND CONSUMPTION WILL BE
 WIPED CLEAN TO REMOVE FOOD AND GREASE PRIOR TO WASHING.

- 16. YES NO NA PERSONNEL SHOWERING WILL USE APPROXIMATELY 10 GALLONS PER
 DAY.

- 17. IF APPLICABLE: TOTAL DISCHARGE PER DAY FOR SHOWERING PERSONNEL (NUMBER
 OF PERSONNEL X 10 = ESTAMATED GALLONS) WILL BE APPROXIMATLY _____.

- 18. IF APPLICABLE: APPROXIMATELY _____ LOADS PER DAY WILL BE WASHED.

- 19. PRINT NAME/RANK: _____

- 20. SIGNATURE: _____

- 21. DATE (DY/MM/YYYY): _____

GUIDANCE FROM NREA DIVISION

MIGRATORY BIRD TREATY ACT

What you should know:

Passed in 1918, the Migratory Bird Treaty Act (MBTA) protects birds that live, reproduce or migrate within or across international border areas. The law applies to federal agencies including the U.S. Marine Corps.

This Act states that... it shall be unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to barter, barter, offer to purchase, purchase, deliver for shipment, ship, export, import, cause to be shipped, exported or imported, deliver for transportation, transport or cause to be transported, carry or cause to be carried or receive for shipment transportation, carriage, or export, any migratory bird, any part, nest or egg of any such bird, or any product...of any such bird or any part, nest or egg thereof.

Through the MBTA, Congress has made it unlawful to harm protected birds or their nests.

At MAGTFTC 29 Palms, virtually all birds are protected by this law. One notable exception is the common pigeon (Rock Dove).

What you should do:

- Inspect vehicles (especially tactical vehicles), equipment and buildings frequently. Some birds like to build nests in engine compartments and in tactical vehicles.
- Close hangars, K-Spans and other large, open buildings whenever possible, especially during spring, to discourage birds from constructing nests inside.
- Limit tree trimming to maximum possible extent, Feb - Oct (consult NREA).
- You may use deterrents such as lights, noise, etc. to discourage nest construction, but deterrents must stop when eggs are laid.
- You may not expose MBTA protected birds to any harm, including intentional injury or death.
- With coordination from the NREA Division, under some circumstances, nests can be moved or dismantled before eggs are laid.
- Only NREA Division personnel may move a nest with eggs or hatched young! (This action requires a permit from the United States Fish & Wildlife Service and is permitted only on a case-by-case basis, which may take 7 to 10 days).

Who you should call:

NREA Division (760) 830-7396.

After hours, call the Fire Department (760) 830-6475 or PMO (760) 830-6800.

"Animal Issues" Response Matrix

| Animal | Primary Response | Phone | Secondary Response | Phone | Consultation | Phone |
|--------------------------------|-------------------------|-----------------|---------------------------|-----------------|--------------------------------|-----------------|
| Bats (structures/buildings) | NREA | 5719 or 5720 | PWD (After hours) | 6271 | NREA | 5719 or 5720 |
| Bees | PWD (Pest Control) | 6271 | PWD (After hours) | 6271 | S.B.Cnty.Dept. Agric. (909) | 387- 2105 |
| Birds of Prey ¹ | NREA | 5719 or 5720 | C.V. Wild Bird Center | 347-2647 | | |
| Birds (Pests) ² | PWD (Pest Control) | 6650 | PWD (After hours) | 6271 | | |
| Birds (Other) ³ | NREA | 5719 or 5720 | C.V. Wild Bird Center | 347-2647 | | |
| Coyotes | PMO | 6800 | NREA | 5719 or 5720 | 29 Palms Animal Control | 367- 0157 |
| Domestics (Dogs/Cats) | PMO | 6800 | n/a | ---- | 29 Palms Animal Control | 367- 0157 |
| Insects / Household Pests | PWD (Pest Control) | 6271 | PWD (After hours) | 6271 | n/a | ---- |
| Road-kill | PMO | 6800 | n/a | ---- | 29 Palms Animal Control | 367- 0157 |
| Rodents (Household) | PWD (Pest Control) | 6271 | PWD (After hours) | 6271 | n/a | ---- |
| Snakes | NREA | 5719 or 5720 | Fire Department | 6871 | | |
| Tortoises ⁴ | NREA | 5719 or 5720 | BEARMAT | 6535 | PMO | 6800 |

¹ Birds of Prey include **hawks, falcons, eagles, kestrels** and **owls**.

² Pest bird species: **Pigeon** (Rock Dove), **European Starling**, **English House Sparrow**.

³ Other bird species may be protected. At certain times of the year, the protection level changes (i.e. nesting season). Response may vary.

⁴ Tortoises: **Mainside**: Call NREA, after hours call PMO, PMO will have call back numbers 24 hours, 7 Days.
Training Areas: BEARMAT (Range Control)

In case of snakebite, call 911 from land line and 760-830-3333 from cell phone immediately!!!

Training Areas: Range Control (BEARMAT) is responsible for all wildlife issues that involve/impede training.

"Primary response" is the initial point of contact. If this office is closed or otherwise unavailable, the reporting party should then contact the "Secondary response" office listed.

"Secondary response" should be notified when the "Primary response" office is unavailable.

RESIDENTS OF "801 Housing": All animal issues are the responsibility of Twentynine Palms Animal Care and Control Department, 367-0157 or the Fire Department for emergencies (911). PMO may respond under certain circumstances 760-830-6800.

PRE-DESIGNATED RANGE TRAINING SUPPORT SITES

MAGTFTC, MCAGCC

General Information:

Pre-designated Range Training Support Sites (PRTSS) are intended to be multiple use areas. They are authorized for use including bivouac, berm construction, trenching, Forward Ammunition Resupply Point (FARP), Forward Logistics Base (FLB), field mess, field showers, etc. Note different sizes of PRTSS in chart below.

The Combat Center has established the multiple use PRTSS as a means to reduce the environmental burden on training units, ensure environmental compliance, and extend the use of our valuable training lands.

Refer to base map on reverse. Enlarged maps of each area are available from Range Scheduling Section (contact info next paragraph).

IN MOST CASES, ENVIRONMENTAL CLEARANCE IS NOT REQUIRED FOR USE OF THESE AREAS. Coordinate directly with AC/S G-3's Range Scheduling Section (760) 830-6313, DSN 230-6313.

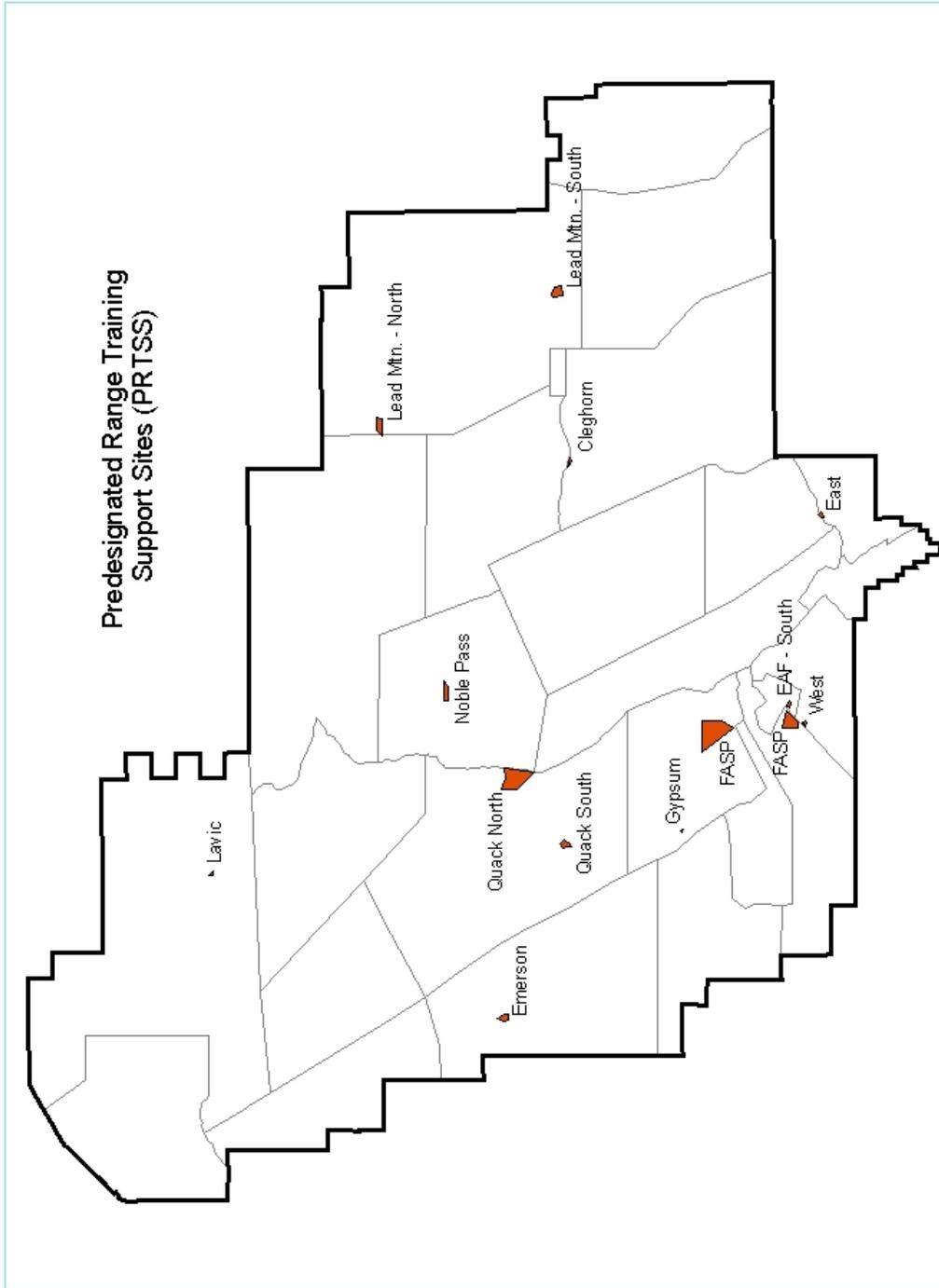
The management of wastewater discharge, bulk fuel storage and hazardous waste, etc. each have specific requirements and need to be coordinated with the Natural Resources and Environmental Affairs Division (NREA), (760) 830-7396, DSN 230-7396.

If the established PRTSS do not meet your training needs, the NREA Division and AC/S G-3, will consider additional sites. However, this action requires advance planning and survey efforts (coordinate 30-60 days in advance if possible). Contact NREA to initiate this process.

Grid location (approximate center point):

WGS 84 / NAD 83 Bold numbers are the four-digit grid reference.

| Site Name (in alphabetical order) | Acres (approx.) | EASTING | NORTHING |
|-----------------------------------|-----------------|-----------------|------------------|
| CLEGHORN PASS | 19.7 | 5 93 100 | 38 08 700 |
| EAF - SOUTH | 24.5 | 5 77 500 | 37 94 500 |
| EAST | 16.6 | 5 89 750 | 37 92 500 |
| EMERSON LAKE | 55.7 | 5 57 200 | 38 13 000 |
| FASP | 595.7 | 5 75 750 | 37 99 400 |
| GYPSUM RIDGE | 2.7 | 5 69 300 | 38 01 500 |
| LAVIC LAKE | 10.3 | 5 66 600 | 38 31 850 |
| LEAD MOUNTAIN NORTH | 83.9 | 5 95 500 | 38 21 050 |
| LEAD MOUNTAIN SOUTH | 99.2 | 6 04 170 | 38 09 550 |
| NOBLE PASS | 79.8 | 5 78 300 | 38 16 700 |
| QUACKENBUSH NORTH | 172.0 | 5 72 600 | 38 12 300 |
| QUACKENBUSH SOUTH | 48.0 | 5 68 400 | 38 09 000 |
| WEST | 15.7 | 5 76 300 | 37 93 600 |



Environmental Constraints Map Marine Corps Air Ground Combat Center, Twentynine Palms

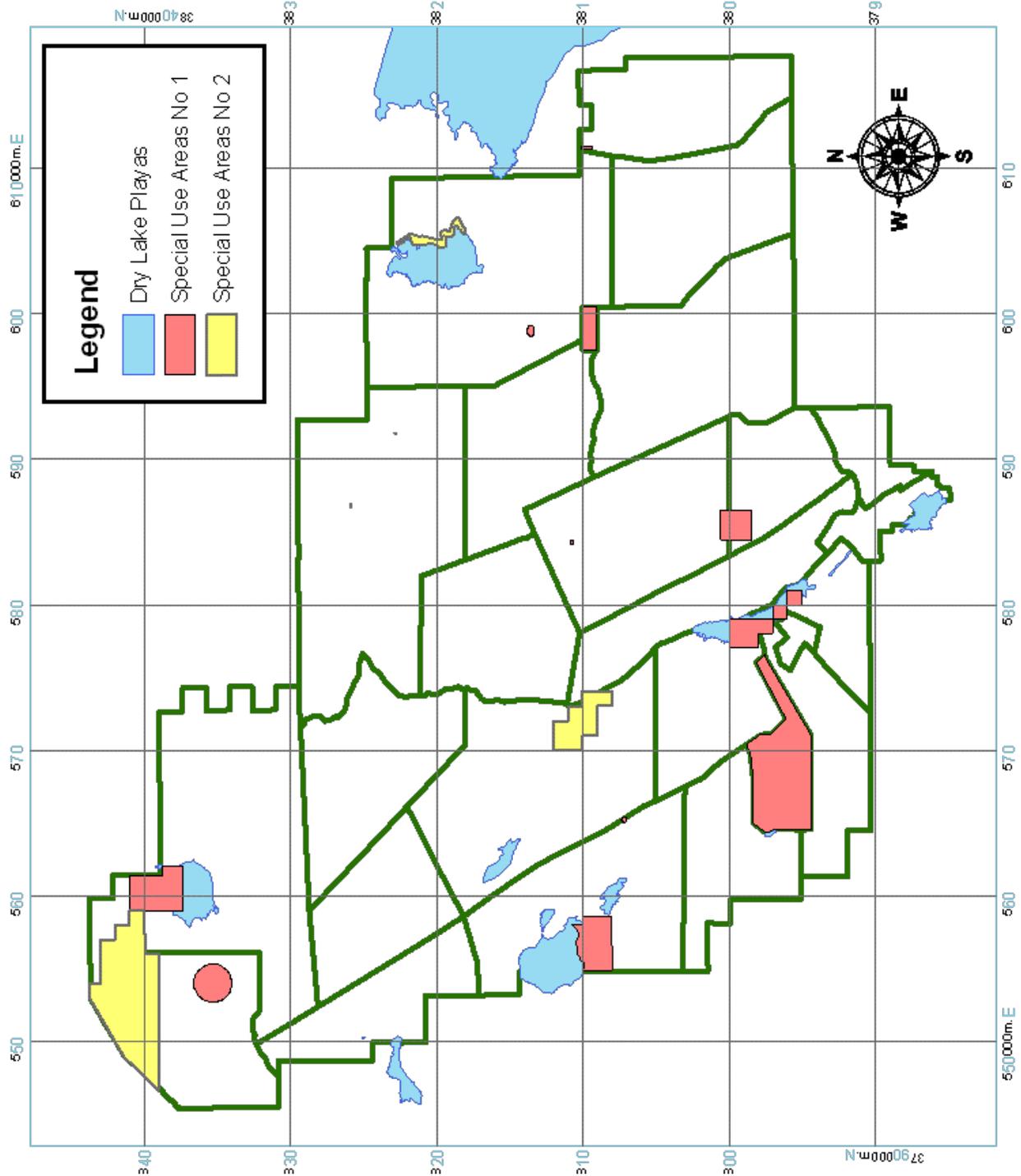


Figure 1. Environmental Constraints Map

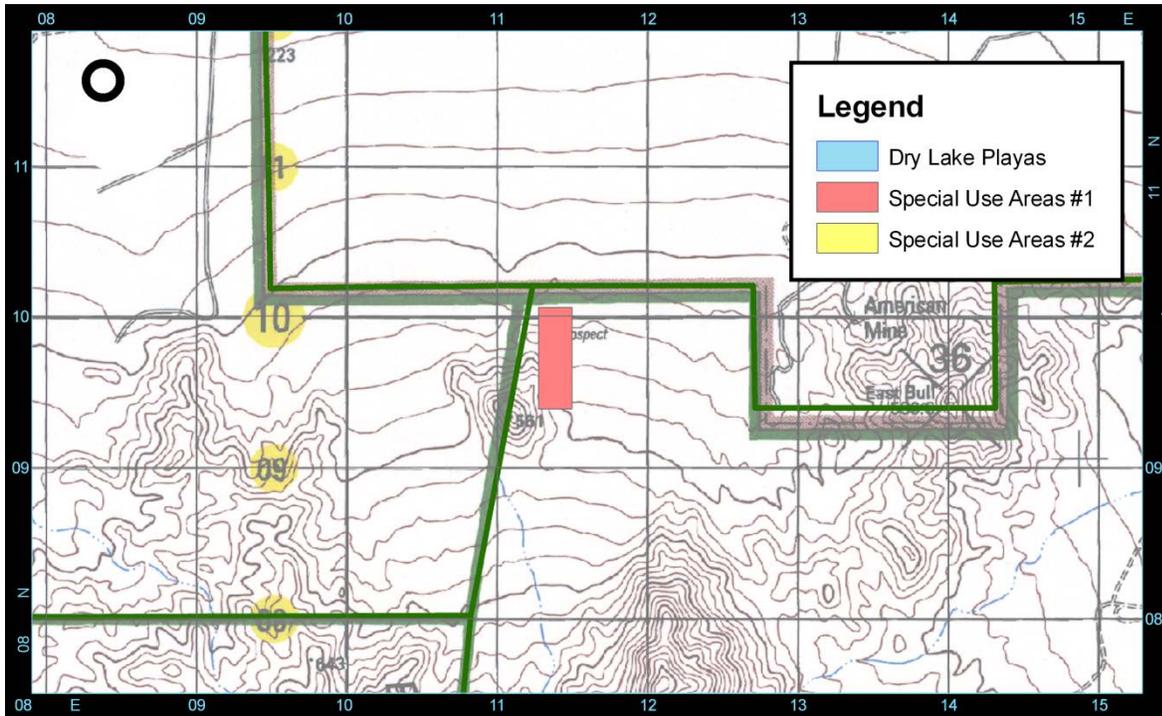


Figure 2. America Mine

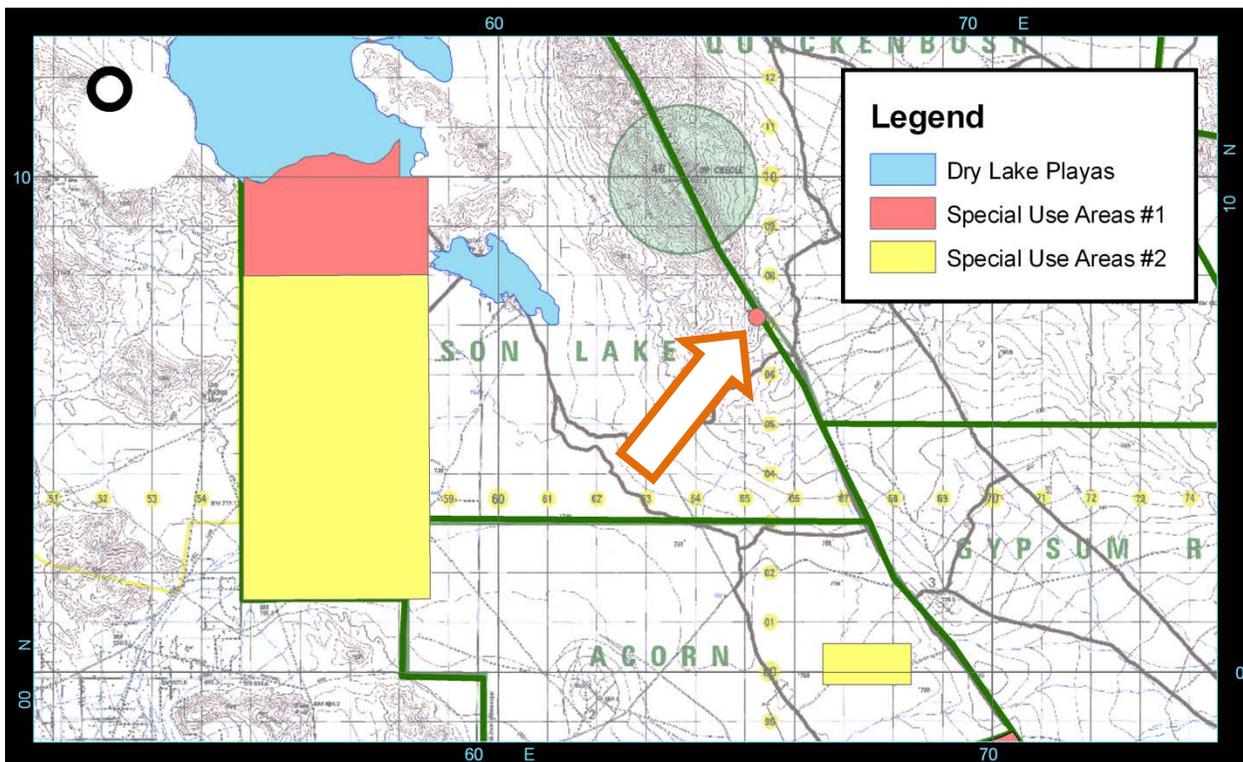


Figure 3. Emerson Lake

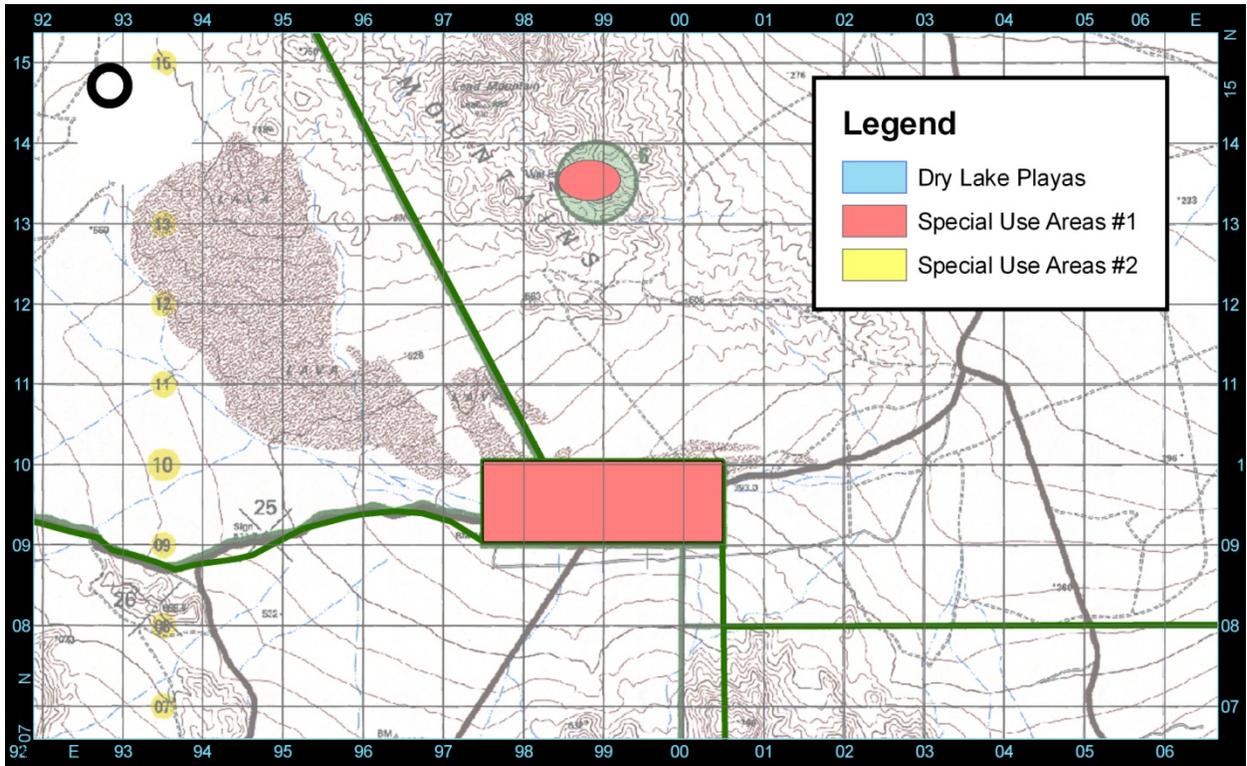


Figure 5. Foxtrot Petroglyphs

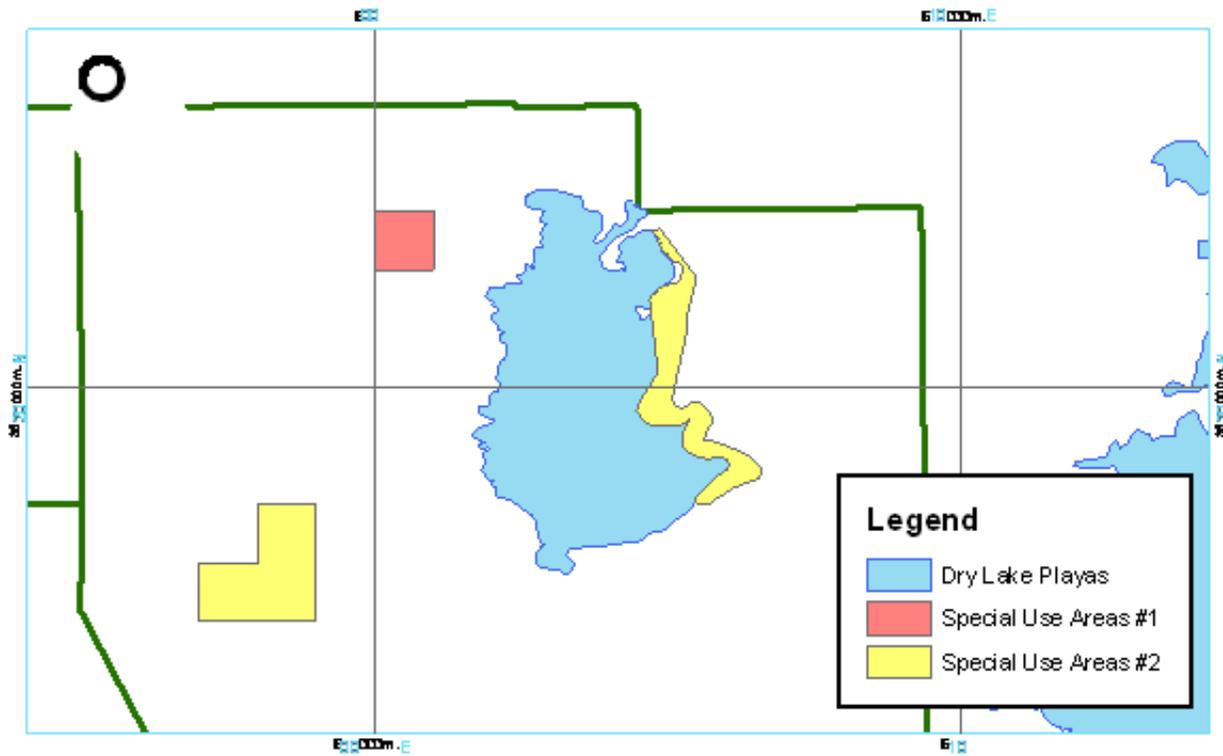


Figure 6. Lead Mountain

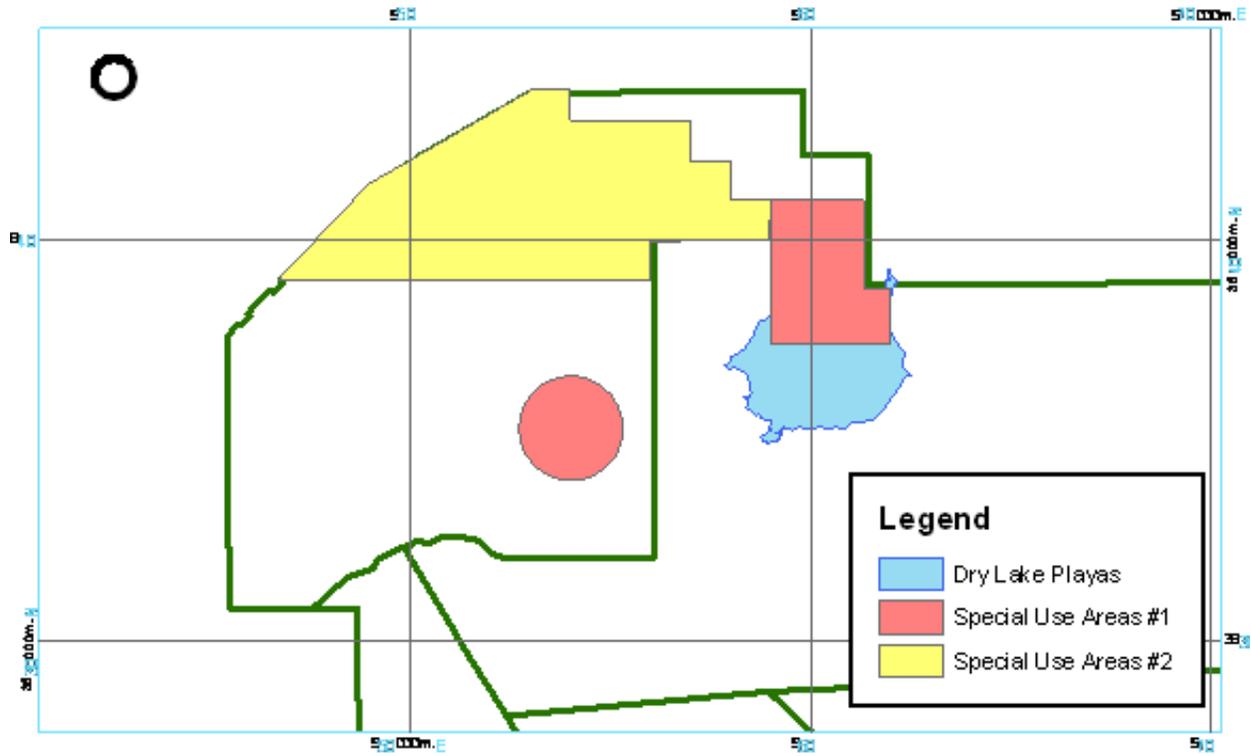


Figure 7. Lavic Lake/Sunshine Peak

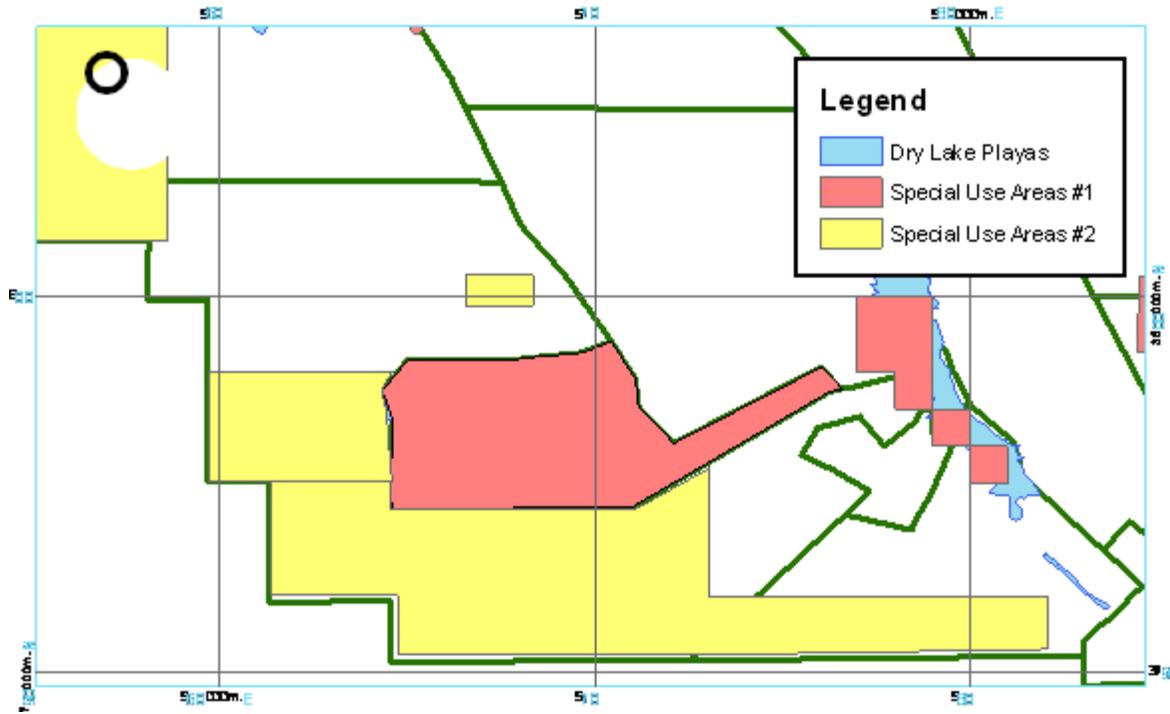


Figure 8. Sand Hill