

Marine Corps Base (MCB) Camp Lejeune Restoration Advisory Board (RAB) Meeting Minutes

MEETING DATE: March 5, 2025

LOCATION: Coastal Carolina Community College, Business Technology Building, Jacksonville, North Carolina

ATTENDEES:

Thomas Richard/MCB Camp Lejeune	Ben Francisco/NAVFAC
Laura Spung/MCB Camp Lejeune	Matt Louth/CH2M
Jennifer Tufts/EPA	Monica Fulkerson/CH2M
Laura Bader/RAB Co-Chair	Kristin Brickman/CH2M
Riley Lewis/ RAB member	Steven Thompson/RAB member
Thomas Mattison/RAB member	Dave Towler/MCB Camp Lejeune
Taren Carranza/Guest	Jennifer Tufts/U.S. EPA (via phone)
Jonathan Carranza/Guest	Joshua Hanks/NCDEQ (via phone)
Fernando Schiefelbein/Guest	

FROM: Monica Fulkerson/CH2M

DATE: May 12, 2025

I. Welcome and Introductions

Mr. Richard began the meeting, introduced the team, and explained the purpose of the RAB.

II. Notice of Upcoming Work at UXO-31, near Hammocks Beach State Park

Mr. Richard explained that an investigation is upcoming at Site UXO-31, the Off-Base Surface Danger Zones. The investigation will include digital geophysical mapping (DGM) over 153 acres within the Site boundary using a drone for 100% coverage. A drone is being used due to the terrain. Outside of the Site boundary, the drone will be used to collect approximately 4% coverage along transect lines. The investigation will also include 50 acres of mag/dig on Bear Island at Bear Inlet. This will be followed by an anomaly intrusive investigation at terrestrial and underwater locations. A test flight for the drone will be conducted in the April timeframe, with investigation work scheduled to be conducted between June and August.

A public meeting is scheduled for March 26, 2025, from 3:30 to 4:30 at Hammocks Beach State Park. Meeting notices will be posted at local marinas, park locations, libraries, and on-Base locations. The meeting will include a presentation and a Question-and-Answer session. The meeting will be recorded and posted to the MCB Camp Lejeune website for those unable to attend in-person. The purpose of the meeting is to spread awareness for locals to mitigate concern about drone activity.

Ms. Lewis asked what is being investigated. Mr. Richard explained that unexploded ordnance and munitions of explosive concern were previously found at this site and this effort is being conducted to reacquire those locations.

III. 2025 Community Involvement Plan Update

Objective: The purpose of this agenda item is to introduce the Community Involvement Plan (CIP); provide an overview of the Environmental Restoration Program (ERP); review the 2020 CIP results, actions, and enhancements; discuss the 2025 CIP update; and provide an opportunity to complete this year's survey.

Overview: A presentation was reviewed by Ms. Brickman.

The purpose of the CIP is to document the site-specific strategy to enable meaningful community involvement throughout the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) cleanup process. The CIP specifies the activities the Navy plans to undertake during the response/removal activities. They are "living documents" and should be reviewed and updated periodically as new information becomes available. The original CIP for MCB Camp Lejeune was prepared in 1994 and updated in 2005, 2011, 2015, and 2020.

The Navy generally follows EPA's Superfund Community Involvement Handbook (2016); although, the Navy's community involvement requirements are more comprehensive than the minimum CERCLA requirements. The CERCLA process was reviewed, detailing how a site progresses through the Preliminary Assessment/Site Inspection (PA/SI), the Remedial Investigation/Feasibility Study (RI/FS), the Proposed Plan (PP), the Record of Decision (ROD), the Remedial Design/Remedial Action (RD/RA), and Remedy-in-Place (RIP). In 2025, there are 108 sites in the CERCLA process at MCB Camp Lejeune, including 76 Installation Restoration Program Sites and 32 military munitions response sites: 21 are in the RI/FS phase, 1 is in the ROD phase, 1 is in the RD/RA phase, 24 are in the RIP phase, and 61 require no further action (NFA). Ms. Brickman confirmed that all of the sites are on Base, with the exception of Site UXO-31, which borders the Base.

The contents of the 2025 CIP were reviewed, including an introduction; description of the site; description of the community (key demographics from publicly available databases); community issues, concerns, and preferences (based on community input via surveys or interviews; suggestions from the November 2019 RAB members and attendees were reviewed); community involvement action plan; and sources. Community involvement actions were reviewed, including publishing public notices, holding public meetings, preparing and distributing fact sheets, supporting the RAB, and placing signs near environmental sites. Enhancements to the community involvement action plan included increased advertising for upcoming RAB meetings on the Camp Lejeune Facebook page, through public service announcements (WAVQ FM), community calendars (WRAL FM), scheduling site tours for RAB members, and the Base's weekly email "blast", publishing quarterly Success Stories on social media, and including a link to the RAB website on public notices and fact sheets. Community input for the CIP, key community contacts, and example public notices, fact sheets, and success stories will also be included.

To update the CIP, a preliminary list of community stakeholders for community interviews and/or survey will be developed and questions for the interviews/survey will be developed. The survey will be advertised via email and social media. Introductory letters will be emailed, followed by calls to schedule interviews. Interviews will be conducted, and the web-based survey will be opened to determine community concerns and information needs. The RAB meeting will be promoted, the CIP update will be presented, and input will be gathered. The results of interviews, RAB meeting input, and other sources of information about community concerns will be analyzed. Then, the community involvement methods will be reviewed and updated as necessary. Finally, the CIP will be updated.

Ms. Brickman invited open discussion. Mr. Schiefelbein asked if this information is shared with Base Commanders. Mr. Richard explained that most sites do not interfere with routine military operations, but that communication is coordinated when needed. Mr. Towler explained that the Environmental Director does provide updates through the chain-of-command. Ms. Carranza asked where information can be found about all of the sites in the Installation Restoration Program. Mr. Richard explained that all documents are available on the Administrative Record and that the Site Management Plan provides a

concise description of the Installation Restoration Program. Ms. Lewis asked about the schedule of the CIP and Ms. Brickman said it would be finalized in September/October 2025.

Ms. Carranza asked about Site 111 and when a decision would be made on that site. Activities at the site have been delayed due to military construction (replacing the runway). The RI Report is expected to be draft in July and final by the end of the calendar year. Ms. Carranza mentioned that she had trouble accessing files on the Administrative Record. Mr. Richard commented that links would be checked to make sure they work. Ms. Carranza asked how military construction could occur without knowing what the environmental hazards are. Mr. Richard explained that the range is active, which means that the area could be re-contaminated following a clean-up action. Ms. Carranza asked specifically about off the Formally Used Defense Sites, which are located off Marine Corps property. Mr. Towler explained that the United States Army Corps of Engineers manages sites off of Marine Corps property. The visitor asked if the proximity to drinking water wells was a concern, and Mr. Towler reported that no concerns have been reported back to the Marine Corps.

Ms. Brickman then handed out the survey for meeting attendees to complete.

IV. RAB Business

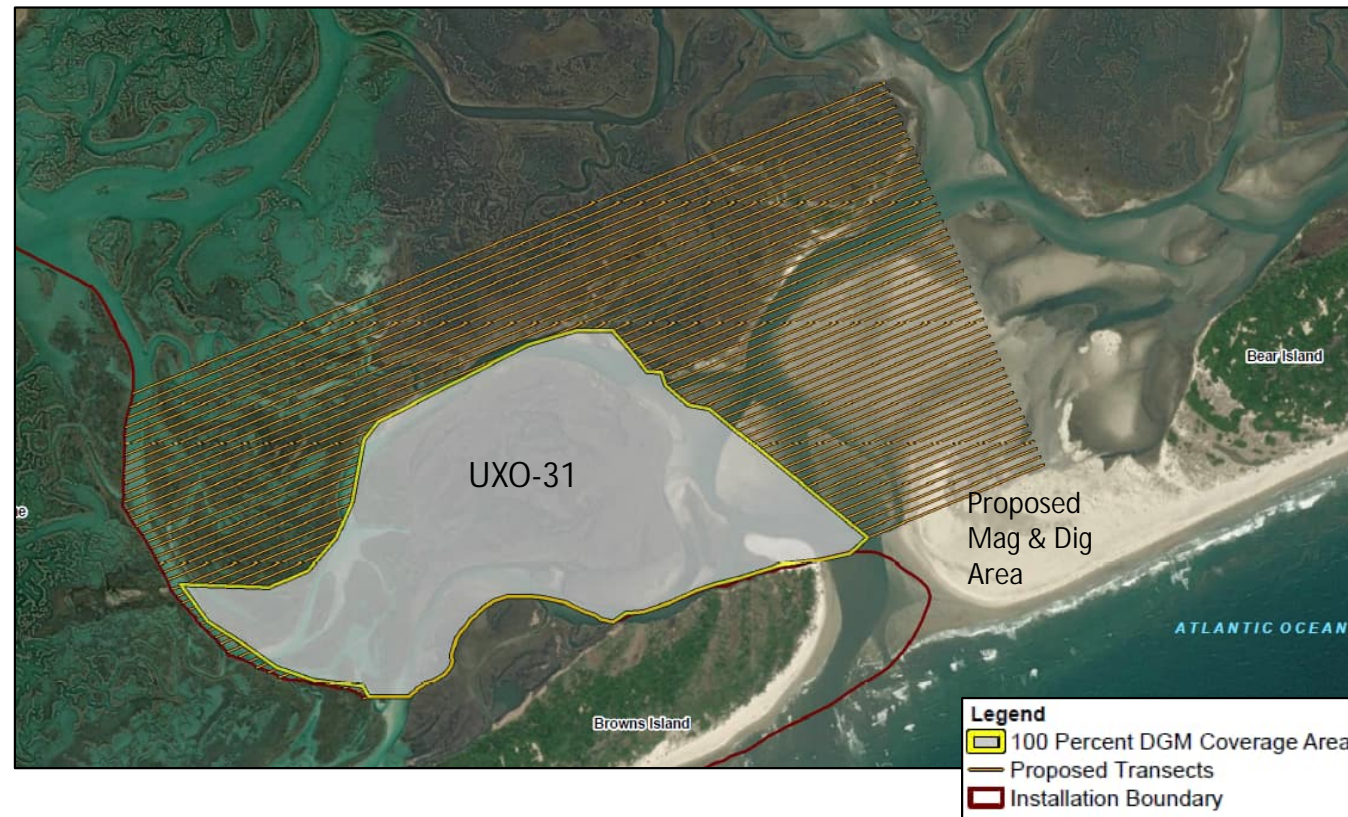
The next RAB meeting is planned for May 21, 2025. Mr. Richard asked for topics for the next RAB. Mr. Schiefelbein talked about the development occurring and specifically about the new museum.



Site UXO-31, Off-Base Surface Danger Zones

Upcoming Investigation

- Digital geophysical mapping (DGM)
 - Within Site UXO-31 (153 acres), drone will be used due to terrain, 100% DGM coverage
 - Outside the Site boundary, drone will be used, ~4% coverage along transect lines
- 50 acres of mag/dig on Bear Island at Bear Inlet
- Anomaly intrusive investigation
 - Terrestrial and underwater locations



Drone flying a DGM magnetometer

CONTROLLED UNCLASSIFIED INFORMATION



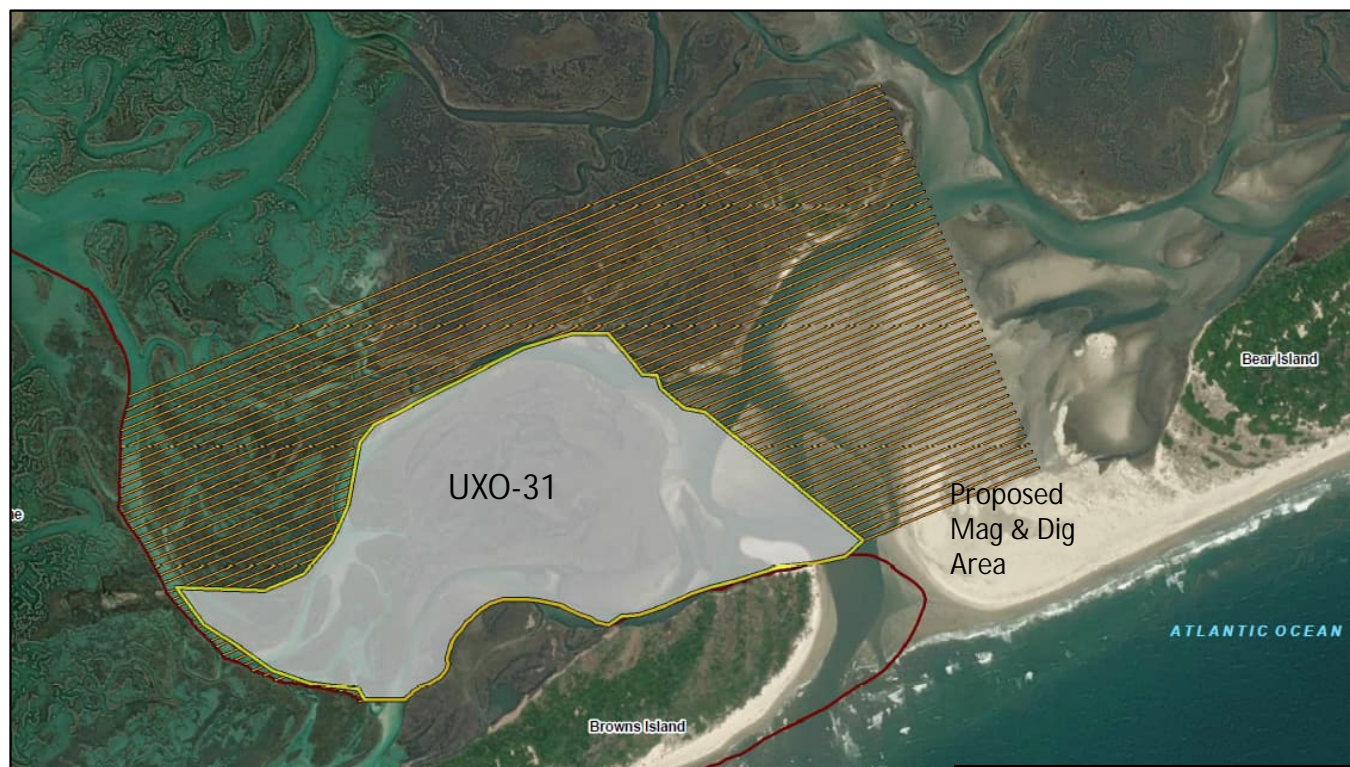
Site UXO-31, Off-Base Surface Danger Zones

Upcoming Investigation: Public Outreach

- Public Meeting - March 26 at Hammocks Beach State Park
- Meeting notices to be posted at local marinas, park locations, libraries, on-Base locations
- Presentation, Q&As



Drone flying a DGM magnetometer



Meeting will be recorded and posted to MCB Camp Lejeune website for those unable to attend in-person

CONTROLLED UNCLASSIFIED INFORMATION



CAMP LEJEUNE

HOME OF
EXPEDITIONARY
FORCES IN READINESS



2025 Community Involvement Plan Update

MCB Camp Lejeune
Restoration Advisory Board Meeting
March 5, 2025



Objectives

- Introduction to the Community Involvement Plan (CIP)
- Overview of the Environmental Restoration Program (ERP)
 - Update since the last CIP
- Review of the 2020 CIP
 - Results
 - Actions and Enhancements
- Discuss the 2025 CIP Update
 - CIP Update Process
 - Tell us what YOU'RE thinking!



Final

Community Involvement Plan Update

Marine Corps Base Camp Lejeune and
Marine Corps Air Station New River
North Carolina



November 2020

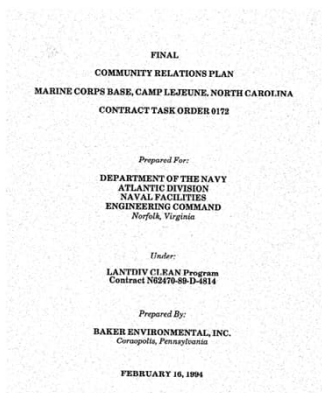
Prepared by
ch2m



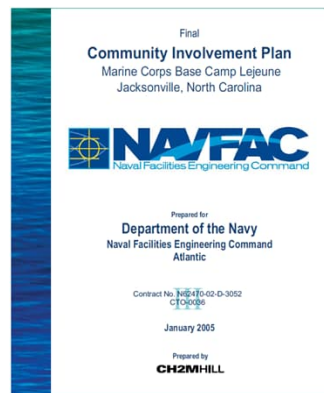
APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED

Purpose of the Community Involvement Plan

- Site-specific strategy to enable meaningful community involvement throughout the CERCLA cleanup process
 - CIP specifies the activities the Navy plans to undertake during the response/removal activities
 - CIPs are “living documents” and should be reviewed and updated periodically as new information becomes available



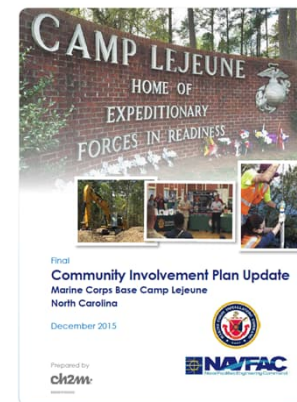
1994



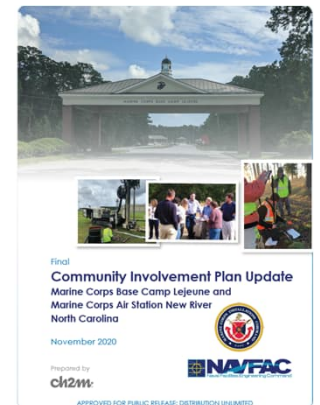
2005



2011



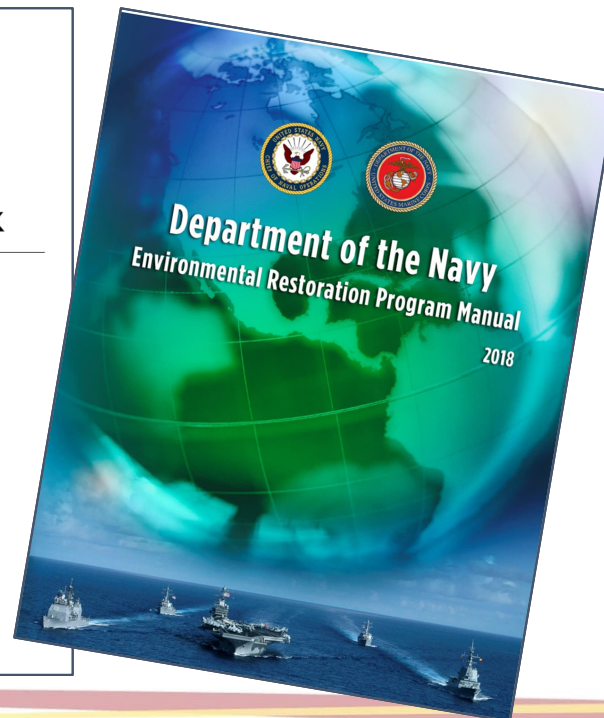
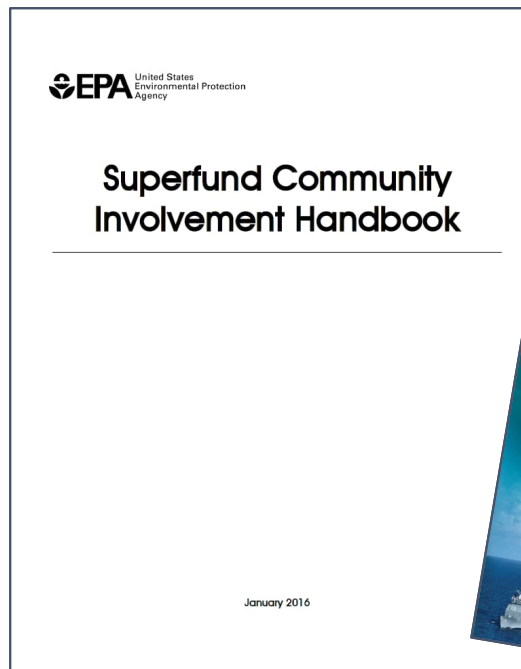
2015



2020

EPA and Navy Guidance on CIPs

- The Navy generally follows EPA's Superfund Community Involvement Handbook (2016)
- The Navy's community involvement requirements are more comprehensive than the minimum CERCLA requirements



THE FIRST LOOK

PRELIMINARY ASSESSMENT/SITE INSPECTION (PA/SI)

Is there something there?

Yes

No

NO FURTHER ACTION

Not Sure

EXPANDED SITE INVESTIGATION

A CLOSER LOOK

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

What's there and where is it? What can be done about it?

PUBLIC INPUT

PROPOSED PLAN (PP)

What actions are we planning to take? What do you think?

DECISION

RECORD OF DECISION (ROD)

Here's what we decided and why!

CLEANUP PLAN AND ACTION

REMEDIAL DESIGN/REMEDIAL ACTION (RD/RA)

Let's deal with it!

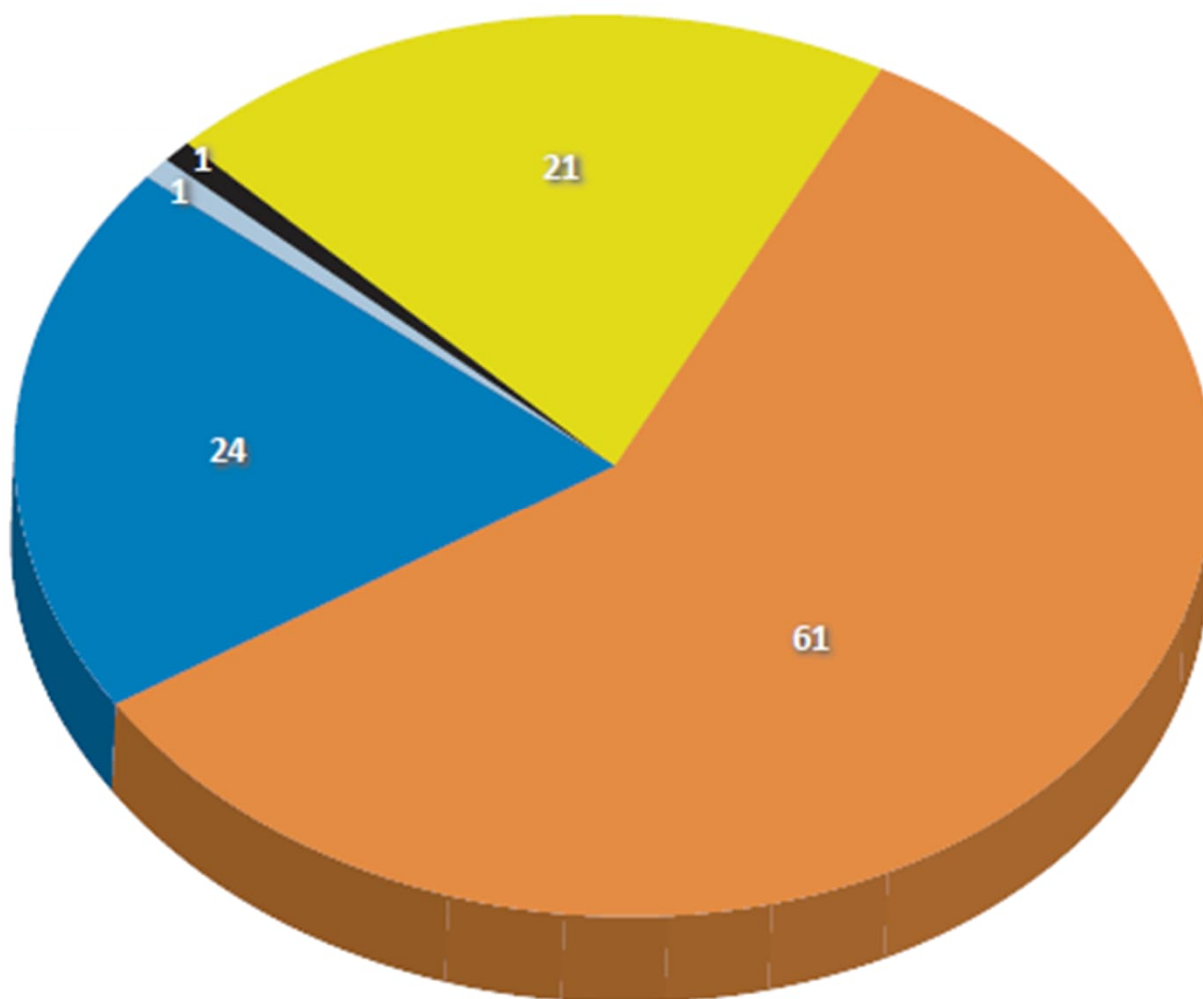
MAINTENANCE

REMEDY IN PLACE (RIP)

Let the remedy work and monitor it.

In 2025, there are 108 Sites in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Process

- 76 Installation Restoration Program Sites
- 32 Military Munitions Response Sites



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Appendix B	<i>Key Community Contacts</i>
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Appendix C Example Public Notices, Fact Sheets, and Success Stories

Section 1: Introduction

This Community Involvement Plan (CIP) describes specific outreach methods to provide factual and timely information, obtain community feedback, and promote understanding of the Environmental Restoration Program (ERP) at Marine Corps Base Camp Lejeune and Marine Corps Air Station New River (hereafter Camp Lejeune). The plan is designed to support effective two-way communication between Camp Lejeune and both on- and off-base community members. The outreach methods described were developed based on the results of community feedback obtained in November 2019.

Environmental Restoration Program

In 1989, the United States Environmental Protection Agency (USEPA) placed Camp Lejeune on the National Priorities List (NPL), commonly known as "Superfund." Camp Lejeune was included on the list based on soil and groundwater contamination caused by historical disposal, storage, and handling of hazardous materials. Camp Lejeune has since conducted a series of environmental studies and cleanup activities under the United States (U.S.) Department of Defense (DoD) ERP. The ERP follows the process and procedures set forth in two major environmental acts: the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the 1986 Superfund Amendments and Reauthorization Act (SARA).

The ERP consists of:



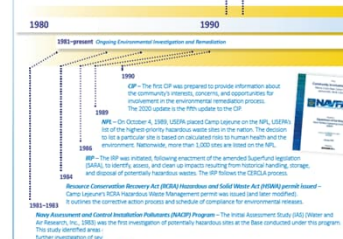
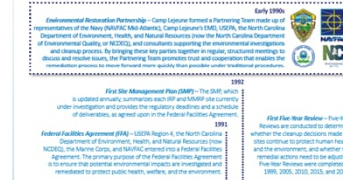
Community Involvement

The first CIP was prepared for Camp Lejeune in 1990, following the Base's inclusion on the NPL, and was updated in 1994, 2005, 2011, and 2015. This 2020 CIP is an update to the 2015 plan.

The Naval Facilities Engineering Command (NAVFAC) and the Atlantic Command's Environmental Management Division (EMD) representing the Marine Corps, and the Base Public Affairs Office work together to implement this CIP.



Timeline of Camp Lejeune Environmental History



Acronym Use
To make this document more readable, acronym use has been limited. Acronyms that are used repeatedly appear in bold the first time they are used. Other acronyms are provided for informational purposes, but are not repeated throughout the document. The following acronyms are repeated in the document:
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
ERP: Environmental Restoration Program
NPL: National Priorities List
USEPA: United States Environmental Protection Agency

Section 2: The Site

This section describes Camp Lejeune, its environmental history, and the environmental investigation and cleanup process.

Facility Profile

Commissioned 1941
Mission to maintain combat-ready warfighters for deployment. Training operations include 60 live-fire ranges, 34 gun positions, 50 tactical landing zones, 3 military operations in urban terrain complexes, and 11 miles of beach capable of supporting amphibious operations.

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Key demographics from publicly available databases (U.S. Census, etc).

Demographics Camp Lejeune and the surrounding community are home to the largest concentration of Marines and Sailors in the world, with an active duty, dependent, retiree, and civilian employee population of more than 170,000 people. Together, Camp Lejeune and the City of Jacksonville make up the principal employment center in Onslow County. In 2017, the estimated total economic impact of Camp Lejeune was \$3.1 billion, coming from payrolls; construction contracts; materials, supplies and services; and other local commerce, including healthcare and transportation (Marine Corps Installations Command East, 2017.)

Select demographic and economic information for the City of Jacksonville and Onslow County, compared to the State of North Carolina, are shown in Table 1.

TABLE 1
DEMOGRAPHIC SUMMARY

	North Carolina	Onslow County	City of Jacksonville
Total population, 2010 ^a	9,535,483	177,772	70,145
Total population, 2018 ^b	10,383,620	197,683	82,748
Percent change (2010–2018)	↑ 8.9%	↑ 11.2%	↑ 17.9%
Percent minority (non-white) ^b	31.6%	25.8%	32.0%
Hispanic or Latino ^b	9.6%	12.8%	17.3%
Median age ^b	38.9	26.5	22.7
Median household income ^b	\$53,855	\$50,639	\$56,538
Population in labor force (over 16 years old)	62.4%	72.0%	79.2%
Persons living below the poverty level ^b	14.0%	15.6%	14.5%
Percent of people over 5 years old who speak English “less than very well” ^b	4.5%	2.1%	2.4%

a U.S. Census Bureau, 2020a
b U.S. Census Bureau, 2020b

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Based on community input via survey or interviews.

Section 4: Community Issues, Concerns, and Preferences

To update this CIP, information was collected from on- and off-Base community members to determine current issues, concerns, and communication preferences related to the ERP. This section describes the process for gathering that information and summarizes the results.

Process for Gathering Community Input

In November 2019, interviews were conducted and feedback was collected at a Restoration Advisory Board (RAB) meeting for this CIP update. In an effort to reach an audience with specific potential interest in the Base and its ERP, the focus of gathering information for this CIP update was increasing RAB attendance. Additionally, most of the interviews were conducted with interviewees who participated in the previous CIP update to determine whether the Base's actions were being recognized and/or whether these actions were improving the ERP's involvement with the local community. Seven interviews were conducted with off-Base local officials, a representative of local businesses, an on-Base employee, and a Base resident. Interviewees were contacted by phone and email to schedule in-person and phone interviews. Interview questions were used as a guide to facilitate further discussion about the Base's ERP. Minutes of the November 2019 RAB meeting and a summary of the results of the community interviews are provided in Appendix A.

Results of Community Interviews

Results of the 2019 interviews – like those of the 2014 interviews – generally reflect an excellent relationship between Camp Lejeune and the surrounding community. Most interviewees feel that the Base is a responsible environmental neighbor, describing a generally positive local perception of the Base. Business representatives and government officials spoke highly of the Government Affairs Committee, which serves as a forum for communication between Base commanders and local government officials. Interviewees indicated general concern for the local environment and emphasized surface water quality as an issue of community concern, particularly because the region's tourism and recreation activities tend to be water-based. Other local environmental concerns included traffic patterns and the historic drinking water issue. While some of the interviewees were aware of the ERP and the RAB, most interviewees were unaware of the Base environmental website and none had ever visited the Onslow County Public Library to view the Information Repository or the Administrative Record. Interviewees offered many suggestions about how the Base communicates with the surrounding community about the ERP. The top two means of general communication used and suggested by interviewees were email and social media.

YOU ARE INVITED
To Provide Your Input on
Environmental Cleanup at
MCB Camp Lejeune

Who: YOU (Board members and public)

What: Restoration Advisory Board Meeting

When: Wednesday, November 20, 2019 at 6:00 PM

Where: Coastal Carolina Community College Business Technology Building, Room 131 106 444 Western Boulevard Jacksonville, NC 28546

Why: MCB Camp Lejeune is in the process of updating its Community Involvement Plan (CIP) for the Environmental Restoration Program (ERP) for fiscal year 2020. The CIP describes specific outreach methods to provide information to the community about the ERP and is updated based on results of community interviews and feedback. Please join us for the November 2019 RAB meeting to learn about the ERP and provide your input to update the CIP!

Meeting Agenda

- Overview of Environmental Restoration Program at Camp Lejeune
- Review of the CIP and accomplishments
- Discussion/Questions/Feedback on the 2020 CIP

If you need further information or would like to schedule a one-on-one meeting, please contact Mr. Kristin Houtable, POC MCB Camp Lejeune ERP at 919-454-1100 or 919-454-1100 ext. 1000 or email: k.houtable@navfac.mil

Community Issues, Concerns, and Preferences

SUGGESTIONS FROM NOVEMBER 2019 RAB MEMBERS AND ATTENDEES

RAB notifications should be posted on government Channel G-10, flyers on bulletin boards at community centers and libraries, and announced through civic organizations such as Rotary and the Coastal Federation.

The Base should strive to inform people about all the work that is being conducted, using numbers and facts (for example, how many contractors and people working on the projects during a given time, and how many monitoring wells installed and sampled) because the program is doing a lot more than is being shown and communicated.

The November 2019 RAB meeting presentation should be given to members of the Chamber of Commerce.

RAB meeting presentations should contain less technical content.

Meetings should be held on-Base for residents regarding drinking water and should be announced through Marine Corps Community Services.^a

Short films and visuals such as before and after pictures should be prepared and broadcasted on YouTube and government Channel G-10. Utilize the community college's media department.

a The ERP works to prevent contamination to the drinking water wells; however, a separate drinking water treatment department on-Base addresses drinking water issues and concerns. This feedback was relayed to the appropriate department.

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Section 5: Community Involvement Action Plan

Based on the community's issues, concerns, and preferences described in the previous section, this section describes the specific techniques and activities the Base will use to refine its ongoing ERP community involvement program.

Goals and Objectives

The overall goal of the ERP community involvement program is to promote communication between the Department of the Navy (Navy), Base, and community members throughout the life of the ERP. Specific objectives include:

- Continue two-way communication between the Base and concerned individuals, including local residents and local officials.
- Keep the general public informed of ongoing actions, major findings, and decisions.
- Furnish accurate, timely, and understandable information to affected and interested parties.
- Provide a way to monitor public concerns and information needs throughout the ERP process.
- Provide a mechanism for incorporating public comments into the environmental restoration process in a timely and meaningful way.
- Modify the program as necessary to meet the changing needs of the local community.
- Modify planned actions where public comments or concerns have merit.
- Explain to the public how their comments were considered and addressed, and describe the resulting outcome.

Based on feedback from community members during the 2015 CIP update, the Base refined its ongoing ERP community involvement program. Several enhancements have been implemented since the December 2014 interviews including:

- Increased advertising for upcoming RAB meetings on the Camp Lejeune Facebook page, through public service announcements (WAVQ FM), community calendars (WRAL FM), and the Base's weekly email "blast".
- Scheduling site tours for RAB members.
- Including a link to the RAB website on public notices and fact sheets.
- Maintaining and updating mailing lists.
- Preparing and distributing fact sheets.
- Publicizing points of contact on the Base's and Navy's websites.
- Updating the CIP format to be more user friendly.
- Providing Technical Assistance Grant information which was presented at the August 2016 RAB meeting.



Community Involvement Actions

Activity	Quarterly	Annually	Once Every Five Years	As needed or as appropriate	As Required by CERCLA
Maintain and Update Mailing Lists	■			■	■
★ Publish Public Notices	■			■	■
★ Hold Public Meetings				■	■
Provide Comment Periods					■
Prepare Responsiveness Summaries					■
★ Prepare and Distribute Fact Sheets				■	■
Maintain the Information Repository and Administrative Record	■			■	■
Publicize Points of Contact	■			■	■
Update the Community Involvement Plan			■		■
Provide Technical Assistance for Public Participation Information			■	■	■
Provide Technical Assistance Grant Information			■	■	■
★ Support the Restoration Advisory Board	■				
Distribute Updates through Social Media and the Internet	■			■	
Maintain and Update Websites	■			■	
★ Place Signs Near Environmental Sites				■	
Participate in Local Festivals		■		■	
Expand Media Relations				■	

Community Involvement Action Plan – Enhancements

- Increased advertising for upcoming RAB meetings on the Camp Lejeune Facebook page, through public service announcements (WAVQ FM), community calendars (WRAL FM), and the Base's weekly email "blast"
- Including a link to the RAB website on public notices and fact sheets



ENVIRONMENTAL CLEANUP.
WANT TO KNOW MORE?

Join us for the next Camp Lejeune Restoration Advisory Board Meeting

- Who: YOU!
- What: Presentations Regarding Environmental Cleanup at Camp Lejeune
 - Hurricane preparedness
 - Updates on activities at Site UXO-06
 - Review of the vapor intrusion Five-Year Review re-evaluation
- When: Wednesday, July 31, 2019 @ 6:00 pm
- Where: Coastal Carolina Community College, **Room BT106**
<http://go.usa.gov/x3f7m>

Campus Map:
<http://www.coastalcarolina.edu/maps/>



Record of Decision Available for
Operable Unit 26, Site UXO-24 and Site 37 at
Marine Corps Base Camp Lejeune
North Carolina



The United States Department of the Navy announces the availability of the Record of Decision (ROD) for Operable Unit 26, Site Unexploded Ordnance (UXO)-24 and Site 37, located aboard Marine Corps Base Camp Lejeune. The ROD documents the Navy's selected remedy for addressing the potential presence of munitions and explosives of concern (MEC)/material potentially presenting an explosive hazard (MPPEH) at Site UXO-24. The Selected Remedy for Site UXO-24 is land use controls which requires explosives safety education training for onsite personnel. The effectiveness of this remedy will be reviewed every five years.

No further action is recommended for Site 37 because MEC/MPPEH has not been identified within the site boundary, and exposure to surface or subsurface soil and groundwater at the site is not expected to result in unacceptable risks to human or ecological receptors.

Prior to selecting the remedy, a public meeting and comment period were held. Clarifying questions were asked, but no specific comments on the proposed plan were submitted. The ROD has been reviewed and approved by the United States Environmental Protection Agency and the North Carolina Department of Environmental Quality.

For More Information

The ROD and the Administrative Record file for this site, which includes all documents used as the basis for this decision, are available on the public website (<http://go.usa.gov/Dy5T>) which can be accessed at:

Onslow Public Library
58 Doris Avenue East
Jacksonville, NC 28540
(910) 455-7350

Community Involvement Action Plan – Enhancements

- Preparing and distributing fact sheets



- Scheduling site tours for RAB members

Environmental Investigation Activities Near Former Water Towers Marine Corps Base Camp Lejeune, North Carolina March 2020



Investigation activities conducted at locations near Base Camp Lejeune have collected soil and groundwater samples. No further action is required. Additionally, investigation activities at other locations as part of the future.

Figure 1 – Former Water Tower Sites



Vapor Intrusion Mitigation Systems Marine Corps Base Camp Lejeune, North Carolina January 2020



This fact sheet provides information on the vapor intrusion mitigation systems (VIMS) that have been installed to ensure vapor intrusion does not impact indoor air quality in the following buildings:

and WICS70
2B, 1716, 1200, 1207, 1202, and 1307

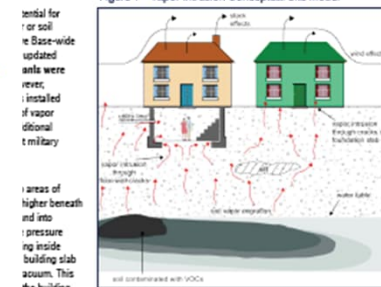


ions, certain types of volatile chemicals can evaporate and move through the rough cracks in basements, foundations, or other openings of a building (see emissions that can evaporate easily at room temperature). Vapor intrusion can be a health risk to building occupants. For this reason, the U.S. Environmental Protection Agency (EPA) has established screening levels for buildings located within 100 feet of groundwater or soil contamination. Please note that the contaminated groundwater is NOT used for drinking water.

When screening levels are exceeded, a risk-based screening-level assessment is generally recommended. If concentrations are above screening levels, more information may be needed. An exceedance of an indoor air screening level does not mean that the VIMS is not working.

When a screening level is exceeded, it involves taking protective actions to prevent or reduce vapor entry into a building. These actions include sealing vapor entry points, increasing the amount of fresh air circulation, and installing a vapor barrier. VIMS can be installed in a building or in the soil.

Figure 1 – Vapor Intrusion Conceptual Site Model



Vapor intrusion from petroleum-related VOCs as documented in USN 1 June 2018 Final Guidance for Superfund Sites.

Environmental Cleanup 2020 Five-Year Review Fact Sheet December 2020

Marine Corps Base Camp Lejeune and Marine Corps Air Station New River, North Carolina



This fact sheet summarizes the results of the 2020 Five-Year Review at Marine Corps Base (MCB) Camp Lejeune and Marine Corps Air Station (MCAS) New River, Onslow County, North Carolina. The Department of the Navy (Navy), working in partnership with MCB Camp Lejeune, MCAS New River, United States Environmental Protection Agency (USEPA) Region 4, and North Carolina Department of Environmental Quality (NCEM) has completed a Five-Year Review of ongoing environmental cleanup (or remedial) actions (commonly referred to as remedies) at MCB Camp Lejeune and MCAS New River.

Background

MCB Camp Lejeune and MCAS New River are military installations in Onslow County, North Carolina. Their mission is to maintain combat-ready units for deployment and humanitarian missions abroad. Historical operations, storage, and disposal practices at MCB Camp Lejeune and MCAS New River resulted in environmental impacts to soil and groundwater. The DoD is responsible for identifying, assessing, and cleaning up these environmental impacts. The investigation and cleanup is being conducted under the Navy's Environmental Restoration Program under the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly referred to as "Superfund." The Environmental Restoration Program is comprised of the Installation

Restoration Program (IRP) which addresses chemical contamination, and the Munitions Response Program (MRP), which addresses military munitions and explosives of concern (unexploded ordnance (UXO) and waste military munitions) and munitions constituents (chemical residues of munitions) at locations that are not operational ranges.

Five-Year Review Sites

A brief overview of the 30 sites evaluated in the 2020 Five-Year Review are described on the remaining pages, organized by the type of remedy that is currently in place for each site. Details are found in the Five-Year Review report, which can be accessed online in the Administrative Record (see page 8).

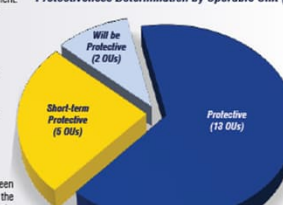
Five-Year Review Protectiveness

The purpose of the Five-Year Review is to ensure that the cleanup actions are continuing to protect human health and the environment. A site is included in the Five-Year Review if contaminants are at levels that would not allow for unlimited use and unrestricted exposure and if there is a Record of Decision (ROD) in place. Twenty (20) "operable units" or OUs, covering 30 sites, were evaluated in this Five-Year Review (See Figure 1). To determine the protectiveness of the remedy, the Five-Year Review asks the following questions:

- Is the remedy functioning as intended?
- Are exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?
- Has any other information come to light that could call into question the protectiveness of the cleanup?

Based on this review, all remedies are currently protective. Thirteen OUs have one or more sites with remedies that are protective in the long-term and five OUs have one or more sites with remedies that are protective in the short-term. Two OUs have one or more sites with remedies that will be protective when they are fully in place. Actions that need to be done to make remedies protective in the long-term are discussed in the individual OU and sites' sections below. In some cases, multiple sites are combined into one OU and not all sites need additional actions to be protective in the long-term.

Protectiveness Determination by Operable Unit (OU)



¹ Record of Decision (ROD) A public document that explains which cleanup alternative(s) will be used to address contamination at a Superfund site.

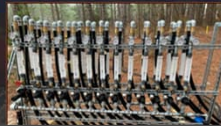
² Remedial Action Objectives (RAOs) The stated objectives of environmental cleanup (or remedial) action at a site, as established for evaluation of various alternatives.

Community Involvement Action Plan – Enhancements

- Quarterly Success Stories Published on Social Media

Did you know...

MCB Camp Lejeune was selected to receive the Secretary of Defense (SecDef) Environmental Restoration-Installation award for Fiscal Year (FY) 2020 through 2021 and has recently submitted an application for the FY 2021 through 2022 award. Since 1962, the SecDef has honored installations, teams, and individuals for outstanding achievements in Department of Defense environmental programs.



MCB Camp Lejeune FY 2021-2022 Achievements Include:

- Installation of 40+ monitoring wells
- Collection of 1,200+ environmental samples
- Surface clearance of 170+ acres and identification and removal of 100+ munitions items
- Management of 1,000+ gallons of hazardous waste
- Monitoring of 4 buildings
- Treatment of 1.2 million gallons of groundwater
- Injection of 1.2 million gallons of groundwater
- Finalization of 6
- Operation of 3

DID YOU KNOW... MCB Camp Lejeune's Environmental Restoration Program has been around since the early 1990s and has been working since then to conduct environmental investigations and cleanup, where needed, in partnership with the Navy, the North Carolina Department of Environmental Quality, and the United States Environmental Protection Agency.

The Proposed Plan (PP) for addressing potential human health risks at UXO-30 is now available for review in the Administrative Record.* The UXO-30 PP identifies and discusses the preferred alternative which consists of:

- Surface clearance of munitions and explosives of concern (MEC) and material potentially presenting an explosive hazard (MPPEH) within the western portion of the site
- Site-wide land use controls to reduce or prevent potential contact with MEC/MPPEH that may be present

The Department of the Navy (DoN) is inviting public comment on the Proposed Plan for UXO-30. Please provide written comments on the UXO-30 Proposed Plan on or before (postmark by) September 22, 2023 to the following address:

NAVFAC Mid-Atlantic

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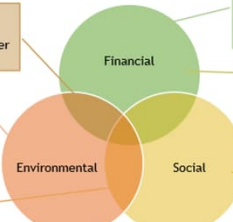
Cleaning up sites improves environmental conditions, but cleanup activities also use energy, water, and natural resources; cost money, and affect the community. To reduce the impact to the "Three Pillars of Sustainability" (Environmental, Social, and Financial Impacts) best management practices are incorporated into each phase of cleanup projects at MCB Camp Lejeune. As shown below, these three pillars are interrelated and often benefits to one pillar add benefits to another. Each box below describes a best management practice currently being implemented at MCB Camp Lejeune that relates to one or more pillar of sustainability.

What is sustainable remediation?
Sustainable remediation (environmental cleanup) considers all environmental, social, and financial effects of a cleanup activity and incorporates options to maximize the overall benefit and minimize the negative impact.

Implementing new sampling technologies saves \$10,000 annually and reduces wastewater generated by 1,500 gallons

Recycling 28 tons of material over the last 5 years reduced greenhouse gas emissions by an estimated 53 metric tons of CO₂ (the equivalent of 11 vehicles driven for 1 year)

Selecting cleanup technologies that minimize disruption to the community



Reviewing sites regularly for optimization to reduce spending while protecting human health and the environment

Utilizing local labor and materials boosts local business and economy

Fostering regular community involvement through the Restoration Advisory Board and displays at public events (Earth and Surf Festival, Earth Day)

If you have questions, contact your chain of command or Base Environmental Management Division at (910) 451-9641 or Lejeune_IR_Program@usmc.mil. Website: <http://www.lejeune.marines.mil/Offices/Staff/EnvironmentalMgmt>

DID YOU KNOW... MCB Camp Lejeune's Environmental Restoration Program has been around since the early 1990s and has been working since then to conduct environmental investigations and cleanup, where needed, in partnership with the Navy, the North Carolina Department of Environmental Quality, and the United States Environmental Protection Agency.

Cleaning up sites improves environmental conditions, but cleanup activities also use energy, water, and natural resources; cost money; and affect the community. MCB Camp Lejeune sets a standard of excellence in implementing best management practices (BMPs) into each phase of cleanup activities.

What is sustainable remediation?
Sustainable remediation (environmental cleanup) considers all environmental, social, and financial effects of a cleanup activity and incorporates options to maximize the overall benefit and minimize the negative impact.

BMP 1: Reduce waste generation
Result: Eliminated over 1,565 gallons of aqueous waste annually through passive sampling and recycled 4,017 pounds of metallic waste

BMP 2: Use renewable energy
Result: Treated ~189,000 gallons of groundwater using exclusively solar power over a 2-year period (estimated)

BMP 3: Consider Resilience to Extreme Weather Events and Climate Hazards (including hurricanes and sea level rise)
Result: New and existing remedies are more resilient to extreme weather events and

DID YOU KNOW...

MCB Camp Lejeune conducts munitions response activities to clear areas of potential hazards?

MCB Camp Lejeune is currently conducting investigations and cleanups of the ground surface at



Site UXO-29 is located south of MCAS New River and covers approximately 165 acres. The site was used in the 1940s as an infantry weapons demonstration course and artillery training area.

If you have questions, contact your chain of command or Base Environmental Management Division at (910) 451-9641 or Lejeune_IR_Program@usmc.mil.

Surface clearance activities:

MCB CAMP LEJEUNE DID YOU KNOW?

Since the 1990s, MCB Camp Lejeune's Environmental Restoration Program has been conducting environmental investigations and cleanup in partnership with the Navy, the North Carolina Department of Environmental Quality, and the United States Environmental Protection Agency.

WHAT IS A COMMUNITY INVOLVEMENT PLAN?

- A Community Involvement Plan (CIP) is a site-specific strategy to enable meaningful community involvement throughout the CERCLA cleanup process.
- CIPs are updated every five years
- CIPs describe the activities the Navy plans to undertake during the response or removal activities
- The Did You Know fact sheets are a result of community feedback to hear more about the cleanup program successes!

The 2025 CIP is being updated now; to find the 2020 CIP go to: https://www.navy.mil/Portals/68/Documents/Busines/Lines/Environmental/Environmental-Restoration/NAVFAC-Mid-Atlantic/Camp-Lejeune-MCB/Camp-Lejeune_MCB_CIP_Nov2020.pdf?ver=H9U0N755jF3xmGN08H6A%3d%3d

Want to get involved?

Go to (<https://www.lejeune.marines.mil/Offices/Staff/Environmental-Mgmt/Restoration-Advisory-Board/>) in mid-February to participate in a community questionnaire about how the Navy communicates about the Environmental Restoration Program.

YOUR INPUT will be used to update the CIP!



More information will be shared at our next RAB meeting held on February 19, 2022 at 6:00pm at the Business Technology Building Room 8T106, Coastal Carolina Community College, 444 Western Blvd, Jacksonville, NC. Directions and details are provided at the following link: <https://www.lejeune.marines.mil/Offices/Staff/Environmental-Mgmt/Restoration-Advisory-Board/>

Questions? Contact your chain of command or Base Environmental Restoration Program at: (910) 451-9641 or Lejeune_IR_Program@usmc.mil

Community Involvement Action Plan – Enhancements

- Place Signs Near Environmental Sites



CIP Update Process

- Develop a preliminary list of community stakeholders for community interviews and/or survey
- Develop questions for interview/survey
- Advertise survey via email and social media
- Email a letter of introduction and then call to schedule interviews
- Conduct interviews and open web-based survey to determine community concerns and information needs
- Promote RAB meeting, present CIP Update, and gather input
- Analyze results of interviews, RAB meeting input, and other sources of information about community concerns
- Review and update community involvement methods as necessary
- Update the CIP



Open Discussion

What do you want to know?

How do you want to get that information?

How do you think Camp Lejeune and the Navy
should be delivering information?



Survey



https://usnavy.gov1.qualtrics.com/jfe/form/SV_cOR0GzrbFvdnSDQ