

Commonwealth of the Northern Mariana Islands Debris Emergency Response Guide: Field Reference Guide

NOAA Marine Debris Program National Oceanic and Atmospheric Administration U.S. Department of Commerce May 2023

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1 Introduction

1.1 Purpose

This Field Reference Guide condenses information contained in the Commonwealth of the Northern Mariana Islands Marine Debris Emergency Response Guide: Comprehensive Guidance Document (Guide) to facilitate use during emergency response operations. While the Comprehensive Guide serves as a complete reference for marine debris response in the Commonwealth of the Northern Mariana Islands (CNMI), the Field Reference Guide includes organization contacts and the most pertinent information for quick reference in the field and during times of crisis. Both documents and subsequent versions will be posted on the NOAA Marine Debris Program website at https://marinedebris.noaa.gov/our-work/emergency-response.

The purpose of these documents is to improve preparedness for response and recovery following a disaster that generates marine debris in the CNMI. The *Comprehensive Guidance Document* and complementary *Field Reference Guide* outline existing response structures at the local, commonwealth, and federal levels to facilitate a coordinated, well-managed, and immediate response to marine debris. Organization roles and responsibilities are presented in a consolidated one-page <u>flowchart</u> which functions as a decision tree for marine debris response. Organization jurisdictions are presented in a <u>map</u>, with a dynamic version available <u>online</u>. Additionally, permitting and compliance requirements for marine debris removal have been synthesized in a one-page reference <u>handout</u>.

1.2 Scope of Guide

The *Guide* addresses both natural and anthropogenic marine debris incidents affecting the CNMI. In 33 U.S.C. § 1956(3), marine debris is defined as any persistent solid material that is manufactured or processed and directly or indirectly, intentionally or unintentionally, disposed of or abandoned into the marine environment or Great Lakes. Although vegetative debris is not included in the legal definition for marine debris, stakeholders have identified it as a common debris stream of concern following natural disasters. Therefore, in this document, the term marine debris is used more generally and also includes vegetative material and debris that could be exposed to or release oil, hazardous substances, pollutants, or contaminants that enters a waterway following an acute

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incident and poses a threat to the natural or built environment. This also includes shoreline and wetland debris and debris in some inland, non-tidal waterways.

2 CNMI Marine Debris Response Flowchart

The "CNMI Marine Debris Response Flowchart" on the following page provides a visual one-page representation of organization roles and responsibilities. The flowchart functions as a decision tree for marine debris response with color-coded endpoints. Yellow endpoints represent response to marine debris that is hazardous or could be exposed to or release oil or hazardous substances. Blue endpoints represent response to marine debris that is not exposed to and does not have the potential to release oil or hazardous substances. Endpoints within the green shaded area indicate that response may occur under Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act) authorities and/or funding.

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Purpose

The flowchart functions as a decision tree for marine debris response with color-coded endpoints. It is designed to inform response to debris in waterways and along shorelines after disasters.

CNMI Marine Debris Response Flowchart

BECQ – Bureau of Environmental and Coastal Quality
CNMI – Commonwealth of the Northern Mariana Islands
DCRM – BECQ Division of Coastal Resources Management

DEQ – BECQ Division of Environmental Quality DLNR – Department of Lands and Natural Resources EPA – U.S. Environmental Protection Agency

applicants

➤ Most likely applicants are municipal

➤ If vessel with no owner, FEMA may

reimburse applicant for removal

after USCG removes pollution threat

governments or BECQ-DEQ

ESF – Emergency support function
FEMA – Federal Emergency Management Agency
GAR – Governor's Authorized Representative
MINA – Mariana Islands Nature Alliance

NCP - National Oil & Hazardous Substances Contingency Plan

NRC – National Response Center
NRCS – Natural Resources Conservation Service
RP – Responsible party
USCG – U.S. Coast Guard
UXO – Unexploded ordnance

FEMA provides reimbursement funding but does not conduct debris removal work

FEMA reimbursement funding has a typical cost share of 75% FEMA, 25% applicant

Eligible applicants in CNMI must have legal responsibility to remove debris and include local governments,

commonwealth governments, and private nonprofit organizations that serve a public function

Response to debris that is not exposed to and does not have the potential to release oil or hazardous substances
Response to debris that is hazardous or has the potential to release oil or hazardous substances

Key

Flowchart

Response under Stafford Act authorities and/or funds

under ESF 3

Rev 2023.05.22

START → Is the debris in federal waters or on federal lands? Is the debris hazardous or does it have the potential to release oil or hazardous substances? No Yes **Debris in Federal Waters or on Federal Lands** Is the debris on private property? In CNMI, managed by National Park Service, U.S. Army Corps of Engineers, U.S. Department of **Hazardous Debris/Pollution Threat Debris in CNMI Waters or on CNMI Lands** No Yes Defense, and U.S. Fish and Wildlife Service who Report to NRC 1-800-424-8802 and BECQ-Response, if any, managed at lowest jurisdictional level capable may remove debris or oversee removal by RP DEQ 670-664-8500/8501, Call 911 to report of handling the removal: Municipal→Commonwealth unexploded ordnance (UXO). Mayor's offices may remove debris outside of Division of Parks > If debris is hazardous or has the potential to Is the debris a direct **Debris on Private Property** Response managed at lowest jurisdictional and Recreation beach parks release oil or hazardous substances, see yellow result of a major Refer to homeowner insurance policy level capable of handling the removal: ➤ Homeland Security and Emergency Management coordinates "Pollution Threat" box disaster declared by > Partner with volunteer organizations Municipal → Commonwealth (BECQresponse efforts and maintains 24/7 State Warning Point at 670the president? Check for NRCS Emergency Watershed DEQ)→Federal (USCG/EPA) 237-8000 to report emergencies Protection Program eligibility in Section 4.3 > DLNR may lead response in DLNR-managed areas out to 3 nmi If federal assistance required and there is a Yes No Division of Fish and Wildlife conducts debris assessment, substantial threat, USCG or EPA oversees > If debris is hazardous or has the potential to response by RP. Generally, response led by prioritizes debris for removal, and leads response to debris release oil or hazardous substances, see yellow USCG in Area Contingency Plan coastal zone impacting coral reefs "Hazardous Debris/Pollution Threat" box Department of Public Lands, Division of Parks and Recreation and by EPA in inland zone. Does debris removal meet all Is debris a direct result of an NRCS State > After a Stafford Act declaration, FEMA typically responds at public beach and recreation sites Unlike response under Stafford Act **NRCS Emergency Watershed** Conservationist declared disaster and does removal does not provide funding unless debris > Department of Fire and Emergency Medical Services may declaration, under NCP USCG/EPA may Protection Program eligibility meet all NRCS Emergency Watershed Protection threatens public health and safety and respond without a request from the activate divers for debris response in waterways criteria in Section 4.3? Program eligibility criteria in Section 4.3? removal is in the public interest commonwealth government BECQ DCRM maintains Reef Report tool for debris reporting, If vessel with no owner (RP), USCG removes notes debris locations, hosts volunteer beach cleanups, provides No Yes Yes No removal best management practices, and may remove debris if pollution threat (battery, oil) but generally does not remove vessel Commonwealth Ports Authority may remove debris within their Is the debris located in the Debris Eligible for NRCS Emergency Watershed Protection Program Funding Department of Public Works leads land-based debris removal designated disaster area? NRCS funds removal by eligible sponsor in floodplains and upland areas if and oversees debris staging areas authorized by BECQ-DEQ funds are available. Cost share is typically 75% NRCS, 25% sponsor. ► If debris removal exceeds capabilities of local and CNMI Yes No governments, the governor may request assistance from the U.S. Navy through the Joint Region, and the U.S. Navy will determine Eligibility Determination by FEMA: Is removal necessary to eliminate the immediate threat to life, public health whether they can support the request and safety, or improved property? Made on case-by-case discretionary basis in coordination with eligible applicant, MINA and other nongovernmental and volunteer organizations CNMI government, and other federal agencies. Guidelines for debris removal from navigable and non-navigable may provide removal support if resources are available waterways are in Section 4.3 and in FEMA Public Assistance Program and Policy Guide FP 104-009-2. Yes **Stafford Act Declaration** Does the municipal or commonwealth Is the debris hazardous or does it have the Is the debris recoverable (traceable to an owner, like a government have the capacity to perform potential to release oil or hazardous substances? vessel with a hull identification number)? or contract the debris removal work? No No Yes Yes Yes No If reimbursed by FEMA > Report to NRC 1-800-424-8802 Does the municipal or commonwealth government have the **Recoverable Debris in CNMI Waters FEMA Mission Assignment FEMA Public Assistance Funding** capacity to perform or contract the debris removal work? If owner is found, apply May be eligible for FEMA Reimbursement to eligible applicants to FEMA provides direct federal insurance and owner takes reimbursement funding if not remove and dispose of debris using assistance and mission assigns property at pre-existing site under NCP. their own forces or contract labor another federal agency to If no owner is found and vessel If RP is known, must apply > Funding from FEMA to GAR then to perform or contract the debris **FEMA Mission Assignment FEMA Public Assistance Funding** insurance proceeds first. blocks access to a public-use applicants removal work Reimbursement to eligible applicants FEMA provides direct federal assistance area, FEMA may reimburse Removal may also be > See blue "Debris in CNMI Waters or U.S. Army Corps of to remove and dispose of debris using and mission assigns another federal applicant or mission assign authorized under NCP. on CNMI Lands" box for organization Engineers typically leads their own forces or contract labor agency to perform or contract the debris another federal agency for See yellow "Hazardous roles and most likely applicants eligible debris removal > Funding from FEMA to GAR then to removal work Debris/Pollution Threat" box.

➤ USCG or EPA typically lead hazardous

waste disposal under ESF 10

such as household hazardous

materials, under ESF 3

> U.S. Army Corps of Engineers may

dispose of building debris hazmat,

3 CNMI Marine Debris Response Map

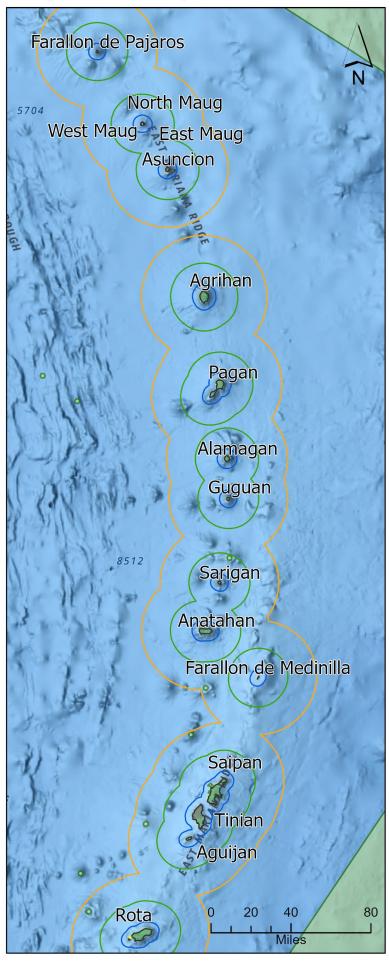
The "CNMI Marine Debris Response Map" displays relevant organization jurisdiction boundaries. After a marine debris incident, the agency (or agencies) with jurisdiction and authority for removing debris will vary depending on where the debris is located. This map includes information that stakeholders identified as important in determining jurisdiction within the commonwealth. A dynamic version of the response map is also available <u>online</u> in the Environmental Response Management Application (ERMA).

Commonwealth of the Northern Mariana Islands Marine Debris Response Map









4 Environmental Compliance During Marine Debris Removal in CNMI Handout

The "Environmental Compliance During Marine Debris Removal in CNMI" handout on the following page synthesizes permitting and compliance requirements that must be met before debris removal operations begin. The top portion of the handout outlines the process to follow to stay in compliance, while the bottom portion highlights specific agency requirements with general contact information.

Environmental Compliance During Marine Debris Removal in CNMI

- A Division of Coastal Resources Management (DCRM) and U.S. Army Corps of Engineers (USACE) permit may be required for debris removal within waterways, wetlands, and areas of particular concern. The **organization or individual removing debris** is responsible for obtaining permits from DCRM and USACE.
- Under the National Environmental Policy Act (NEPA), the lead federal agency must assess the environmental effects of their proposed actions before making decisions and is responsible for consulting with resource agencies listed below.

Permit(s) **Debris Federal Agency Permit Coordination** Application(s) Issued Removal if federally funded removal Complete and submit Coordinate with federal funding agency Review all permit Permit conditions and permit applications to regarding requirements before applying conditions including resource agency DCRM and USACE, if for permits resource agency requirements must be required requirements followed during debris Debris removal after disasters may trigger removal emergency permitting processes

Primary Agency Requirements and Contact Information

Bureau of Environmental and Coastal Quality (BECQ) DCRM: 670-664-8300

DEQ: 670-664-8500

Division of Coastal Resources Management (DCRM) reviews actions for consistency with policies and issues three types of permits for activities which may affect coastal resources

- Area of particular concern (APC) permit for activities occurring within a designated APC
- Temporary permit for emergency repairs after disasters
- Major siting permit for large scale activities that could cause significant impacts

Division of Environmental Quality (DEQ) regulates solid and hazardous waste management, issues emergency permits for debris staging areas, and issues water quality certifications

Historic Preservation Office (HPO) 670-664-2120

- Issues clearances and ensures compliance with Commonwealth Historic Preservation Act and National Historic Preservation Act
- Federal agencies must consult with HPO to determine if project will affect historic properties

Department of Lands and Natural Resources (DLNR) DFW: 670-664-6000

Projects that may impact an endangered species and/or their critical habitat must have clearance from DLNR Division of Fish and Wildlife (DFW) before a project can proceed

U.S. Army Corps of Engineers (USACE) Honolulu District 808-835-4303 Guam Field Office 671-339-2108 CEPOH-RO@usace.army.mil USACE permit may be required for debris removal within waterways and wetlands if the activity involves dredging, excavation, or impacts the navigability of a waterway. Some permits that may be required for debris removal in waterways and wetlands are:

- NWP-3 Maintenance for removal/maintenance of culverts, sediments or debris accumulated around outfalls, bridges, etc.
- NWP-22 Removal of Vessels for removal of wrecked, abandoned, or disabled vessels or other man-made obstructions to navigation

National Oceanic and Atmospheric Administration (NOAA)

NOAA Fisheries ESA: 808-725-5140 EFH: 670-234-0004 EFHESAconsult@noaa.gov Consultation required if marine debris removal involves federal permits and/or funding (USACE permit, FEMA funding, etc.) to comply with:

- Endangered Species Act (ESA) to ensure actions do not jeopardize listed endangered or threatened marine species or designated critical habitat
- Magnuson-Stevens Fisheries Conservation and Management Act to ensure actions do not adversely affect essential fish habitat (EFH)

U.S. Fish and Wildlife Service (USFWS) 671-787-6094 Consultation required if marine debris removal involves federal permits and/or funding (USACE permit, FEMA funding, etc.) to comply with Endangered Species Act (ESA) to ensure actions do not jeopardize listed endangered or threatened land or freshwater species or designated critical habitat

5 Contact Information

Note: Contact information is only included for organizations who have provided and/or approved information in the following tables.

Local Government

Agency	Topic	Point of Contact	Phone	Email
Municipality of Rota	Planning and coordination	Mayor Efraim Atalig	670-532-9451	-
Municipality of Saipan	Planning and coordination	Mayor David Apatang	670-234-6208	saipanmayor@mos.gov.mp
Municipality of Tinian and Aguiguan	Planning and coordination	Mayor Edwin Aldan	670-433-1800	frontofficemot@gmail.com
Municipality of Tinian and Aguiguan		Allen Perez, Chief of Staff	670-433-1800	allen_perez@hotmail.com

Commonwealth Agencies

Agency	Division	Topic	Point of Contact	Phone	Email
Commonwealth Ports	Port of Saipan		General contact	670-664-3550	-
Authority (CPA)	Port of Tinian	All inquiries		670-433-9296	-
Authority (CFA)	Port of Rota			670-532-9489	-
	-	Planning and coordination	Eli Cabrera, BECQ Administrator	-	eli.cabrera@becq.gov.mp
	Division of Coastal	Planning and coordination	Richard Salas, DCRM Director	670-664-8319	rsalas@dcrm.gov.mp
	Resources	Flaming and coordination	Colleen Flores, CZ Communications	670-664-8316	cflores@dcrm.gov.mp
	Management (DCRM)	Permitting and enforcement	General contact	670-664-8300	-
	Wanagement (DCKW)	Permitting and emorcement	Sam Sablan, Permitting and Compliance Chief	-	ssablan@dcrm.gov.mp
		All inquiries	General contact	670-664-8500	-
CNMI Bureau of Environmental and		Reporting violations, spills, concerns	General contact	670-664-8500/8501	-
Coastal Quality (BECQ)	Division of	Reporting violations, spills, concerns (HSEM after hours)	General contact	670-322-8002	-
	Environmental Quality (DEQ)	Planning and coordination	Zabrina Shai, Acting DEQ Director	-	zabrina.shai@becq.gov.mp
	(DEQ)	Hazardous waste management	Tom Pangelinan, Toxic Waste Management Manager	-	tom.pangelinan@becq.gov.mp
		Solid waste management	Greg Reyes, Solid Waste Management Manager	-	greg.reyes@becq.gov.mp
CNMI Department of Community and Cultural Affairs	Historic Preservation Office (HPO)	Historic preservation compliance	Rita Chong-Dela Cruz, State Historic Preservation Officer	670-664-2120	rchong.cnmihpo@gmail.com

Commonwealth Agencies Continued

Agency	Division	Торіс	Point of Contact	Phone	Email
CNMI Department of Fire			Chief Jesse Mesa, Acting Commissioner	-	jcmesa@dfemscnmi.com
and Emergency Medical Services (DFEMS)	-	Planning and coordination	Juan Pua, Division Chief of Operations	-	japua@dfemscnmi.com
	-	Planning and coordination	Anthony Benavente, DLNR Secretary	-	tonytbenavente@gmail.com
CNMI Department of Lands		Planning and coordination	Manny Pangelinan, DFW Director	-	mpangelinan.cnmidfw@gmail.com
and Natural Resources (DLNR)	Division of Fish and Wildlife	Clearance for projects that may impact an endangered species and/or their critical habitat	General contact	670-664-6000	-
CNIMI Department of Dublic	Saipan			670-234-3751	dpl@dpl.gov.mp
CNMI Department of Public Lands (DPL)	Tinian	All inquiries	General contact	670-433-9245	dpltiq@dpl.gov.mp
Lanus (DFL)	Rota			670-532-9431	dplrota@dpl.gov.mp
CNMI Department of Public		All inquiries	DPS Operator	670-664-9000	contact@dps.gov.mp
Safety (DPS)	-	24 Hours contact	24 Hours Operations Center	670-664-9001	-
CNMI Department of Public Works (DPW)	-	Planning and coordination	James Ada, DPW Secretary	-	james.dpwsecretary@gmail.com
		Reporting emergencies	24/7 EOC State Warning Point	670-237-8000	-
CNMI Homeland Security and Emergency	-	Reporting violations, spills, concerns (HSEM after hours)	-	670-322-8002	-
Management (HSEM)	Diam'r a and a a	Dianning and coordination	Dennis Mendiola, Special Assistant	-	djcmendiola@cnmihsem.gov.mp
		Planning and coordination	Gerald Guerrero, Deputy Special Assistant	670-664-2216	gerald.guerrero@cnmihsem.gov.mp
CNMI Office of Planning		Diaming and according to	Kodep Uludong-Ogumoro, OPD Director	=	kodep.uludong@opd.gov.mp
and Development (OPD)	-	Planning and coordination	Erin Derrington, Lead Planner	-	erin.derrington@opd.gov.mp

Federal Agencies

Agency	Division	Topic	Point of Contact	Phone	Email
Animal and Plant Health Inspection Service (APHIS)	Plant Protection and Quarantine Program	Plant debris movement from CNMI to other U.S. states or territories	Hawai'i State Plant Health Director	808-838-2780	-
Federal Emergency	lanagement Agency EMA) Region 9	Debris expertise	Mark Wingate, Critical Infrastructure and Planning Branch Chief	-	mark.wingate@fema.dhs.gov
Management Agency (FEMA)		Environment and Historic Preservation	Mary Johnson	-	mary.johnson@fema.dhs.gov
Continued on next page		Public Assistance	Daniel Markey, Supervisory Emergency Management Specialist, PA Disaster Team 1 lead	202-710-8312	daniel.markey@fema.dhs.gov

Federal Agencies Continued

Agency	Division	Торіс	Point of Contact	Phone	Email
Continued from previous			Wayne Clayton, Recovery Office Director	-	wayne.clayton@fema.dhs.gov
page	Darian O	Recovery Office	Luis Camacho Jr., Public Assistance Lead/ Acting Operations Section Chief	-	luis.camachojr@fema.dhs.gov
Federal Emergency Management Agency (FEMA)	Region 9	Recovery Office	Miranda Ross, Emergency Management Specialist, FEMA Program Delivery Manager Public Assistance	-	miranda.ross@fema.dhs.gov
	National Marine	EFH/ESA coordination	General contact	-	EFHESAconsult@noaa.gov
	Fisheries Service (NMFS	EFH information	Steve McKagan, Fisheries Biologist	670-234-0004	steven.mckagan@noaa.gov
	or NOAA Fisheries)	ESA information	General contact, Pacific Islands Region	808-725-5140	nmfs.pir.esa.info@noaa.gov
	Of NOAA Fisheries)	ESA IIIIOIIIIatioii	Ron Dean	-	ron.dean@noaa.gov
National Oceanic and	National Ocean Service, Office of Coast Survey	Navigation preparation and response	LCDR Hadley Owen, Navigation Manager Alaska and Pacific Islands	907-231-7112	hadley.a.owen@noaa.gov
Atmospheric Administration (NOAA)	National Ocean Service,	Potential to release oil or hazardous substance	Ruth Yender, Scientific Support Coordinator	206-849-9926	ruth.yender@noaa.gov
Administration (NOAA)	Office of Response and Restoration	Planning and coordination for marine debris issues	Mark Manuel, Pacific Islands Regional Coordinator	808-342-5770 (C)	mark.manuel@noaa.gov
	National Ocean Service, National Geodetic Survey, Remote Sensing Division	Bt.	Ed Carlson, Pacific Regional Geodetic Advisor	-	ed.carlson@noaa.gov
		Remote sensing aerial imagery	Mike Aslaksen, Chief Remote Sensing Division	240-533-9576	mike.aslaksen@noaa.gov
	American Memorial	Response on National Park Service lands	Timothy Clark, Cultural and Natural Resources Manager	671-688-9783 (C)	timothy_clark@nps.gov
National Park Service			Brooke Nevitt, Lead Ranger	670-234-7207 x 2020	brooke_nevitt@nps.gov
	rdik		Jayson Tinney, Chief Ranger	670-234-7207 ext. 2009 (O) 670-483-7252 (C)	jayson_tinney@nps.gov
Natural Resources Conservation Service (NRCS)	Saipan Field Office	Emergency Watershed Protection (EWP) Program	Pamela M. Sablan, District Conservationist	670-233-3415	pamela.sablan@usda.gov
U.S. Army Corps of Engineers (USACE) Continued on next page	Emergency Management, Pacific Ocean Division	Planning and coordination	Sean Dowling, Deputy Chief Readiness and Contingency Operations	808-835-4721	sean.p.dowling@usace.army.mil

Federal Agencies Continued

Agency	Division	Торіс	Point of Contact	Phone	Email
Continued from previous		Compliance and permitting	Guam Field Office	671-339-2108	CEPOH-RO@usace.army.mil
page	Regulatory Section,		Honolulu Office	808-835-4303	CEPOH-RO@usace.army.mil
U.S. Army Corps of Engineers (USACE)	Honolulu District	p	Albert Williams, Regulatory Project Manager, Nationwide Permitting Coordinator	-	albert.p.williams@usace.army.mil
U.S. Coast Guard (USCG)	-	Report potential to release oil or hazardous substance	National Response Center (NRC)	800-424-8802	-
o.s. coast duard (osca)	Sector Guam, MSD Saipan	Planning and coordination	24/7 Command Center	671-355-4821	-
U.S. Environmental	-	Report potential to release oil or hazardous substance	National Response Center (NRC)	800-424-8802	-
Protection Agency (EPA)	Region 9	Planning and coordination	Bill Jones, Oceania Regional Response Team (ORRT) Coordinator	-	jones.bill@epa.gov
	Mariana Refuges and Monument Complex Mariana Refuges and Marine National Wildlife Refuges and Marine National Monument Monument Monument Coordinator Jihan Younis, Park Ranger Mar	•	Laura Beauregard, Pacific Islands Emergency Coordinator	808-342-8792	laura_beauregard@fws.gov
U.S. Fish and Wildlife		Jihan Younis, Park Ranger Marianas Trench MNM	671-686-5344	jihan_younis@fws.gov	
Service (USFWS)	_	Endangered Species Act (ESA) information	Jacqueline Flores, Mariana Islands Team Manager	671-787-6094	jacqueline_flores@fws.gov
	rield Office	Illioillation	Tyler Willsey, Wildlife Biologist	670-488-8957	tyler_willsey@fws.gov
U.S. Navy	-	Planning and coordination	Mark Cruz, J40 Regional Environmental Coordinator, Joint Region Marianas/NAVFAC Marianas	671-349-1104	mark.cruz@fe.navy.mil

Nongovernmental Organizations

Agency	Topic	Point of Contact	Phone	Email
Friends of the Mariana Trench	Planning and coordination	Laurie Peterka, Executive Director	-	lpeterka@friendsmarianatrench.org
	Planning and coordination	Roberta Guerrero, Executive Director	-	rguerrero.mina@gmail.com
Mariana Islands Nature Alliance (MINA)		Becky Furey, Program Director	-	beckyfurey.mina@gmail.com
		David Benavente, Project Manager	-	dbenavente.mina@gmail.com
Dacific Coastal Bassarch and Dlanning	Planning and coordination	Rebecca Skeele, Director	-	becky.skeele@pacificcrp.org
Pacific Coastal Research and Planning		Robbie Greene, Geospatial Program Manager	-	robbie.greene@pacificcrp.org





Gina M. Raimondo United States Secretary of Commerce

Dr. Richard W. Spinrad
Under Secretary of Commerce for Oceans and Atmosphere
and NOAA Administrator

Nicole R. LeBoeuf Assistant Administrator for Ocean Services and Coastal Zone Management