

CNMI Comprehensive Public Land Use Plan Update for Rota, Tinian, Saipan, and the Northern Islands



Department of Public Lands Commonwealth of the Northern Mariana Islands Public Information Meeting May 7 – 11, 2018





> Marianne Concepcion-Teregeyo, Secretary DPL

CNMI Government and DPL Representatives and other distinguished guests



Project Team



- ➢ SSFM CNMI (PEGS)
 - Roy Reyes, PE, Project Manager
 - > Denn Manglona, CQM, Assistant Project Manager
- Chris Hart & Partners, Inc.
 - Jordan Hart, Land Planner
 - Brett Davis, Land Planner
 - David Sereda, Landscape Architect, GIS Team
 - Robert Bridges, Landscape Architect, GIS Team
 - Raymond Cabebe, GIS Team
- John M. Knox & Associates, Inc.
 - John M. Knox, Economic Analyst
- Myounghee Noh & Associates, LLC
 - Myounghee Noh Principal Investigator
 - Jessica Walsh, Environmental Planner/Project Manager, B.S.



Meeting Agenda

- ✓ Welcome and introductions
- ✓ Schedule for the Plan Update
- ✓ Purpose and Scope
- ✓ Update on North Islands Visit
- ✓ Key Drivers for Land Selection
- ✓ Collaborative Team Mapping
- ✓ Comment Reminder
- ✓ Meeting End





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Schedule of Comprehensive Land Use



Key Milestone Dates:

- September 18 21, 2017: First Public Information Meetings
- September 18, 2017 through December 31, 2017: Data Collections Phase I
- January 1, 2018 through February 28, 2018: Data Collections Phase II
 - January 31, 2018: Completion of Socioeconomic Study
 - February 21, 2018: Publication of Preliminary Draft
- March 1, 2018 through April 30, 2018: Data Collection Phase III
 - Receipt of Preliminary Draft Comments
 - > April 22through April 29, 2018: Trip to the Northern Islands
 - Agency meetings for discussion on Prelim Draft Comments
 - ➢ May 1, 2018: Data Collections Phase Ⅳ
 - > May 1 to 11, 2018: Second Public Information Meeting & Comment Collection
- June 15, 2018: Conclusion of Agency and Public Comment for this DPL Comprehensive Land Use Plan Update, in order to deliver the Final Report to DPL in July of 2018
- July 2018: Delivery of Final Report to DPL
- > August 6 10, 2018: Public Information Meetings for Presentation of the Final Report



Purpose and Scope of Comprehensive Land Use Plan



- Understand & Report:
 - Current statutes, regulations, land use conditions and availability, identify lessons from outdated land use plan, other plans & studies (environmental or economic), additional trends or elements in land use & management
- Outreach & Participation:
 - Community involvement completed to date:
 - Community Meetings, Newspaper Notices, Surveys (appx. 164 submitted), Radio Spots, DPL Facebook Page, DPL Website, outreach booths
 - Currently undertaking 2nd round of Community Meetings
 - Coordinate use and development of public lands with plans, programs and requirements of other Commonwealth agencies:
 - Written correspondence, with follow up meetings
 - Currently undertaking 2nd round of written correspondence and meetings



Purpose and Scope of Comprehensive Land Use Plan



- Hazardous Sites:
 - Identify lands that require special handling resulting from manmade impacts & contamination
- Systems Analysis:
 - Determine if DPL's current GIS mapping system and software are the best tools for the responsibilities of the Agency
 - (land survey -> CAD -> ArcGIS)
- Economic Analysis & Population Forecast:
 - Analysis of current conditions, population demographics, socioeconomic status and trends and forecast future land requirements over a 10-year buildout
 - Anticipated NMD and Anticipated total population



Past & Current CNMI Population

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<u>CNMI</u>	<u>1990</u>	<u>2000</u>	<u>2010</u>	<u>2016A</u>	<u>2016B</u>
TOTAL Population	43,345	69,221	53,883	53,890	55,700
Permanent CNMI Resident	20,082	29,094	35,115	33,219	34,335
NMD	17,181	21,784	19,971	18,249	18,862
Non-NMD	2,901	7,310	15,144	14,970	15,473
Foreign Non-Resident	23,263	40,121	24,168	20,671	21,365
SAIPAN	<u>1990</u>	2000	<u>2010</u>	<u>2016A</u>	<u>2016B</u>
TOTAL Population	38,896	62,392	48,220	48,200	49,820
Permanent CNMI Resident	17,171	24,968	26,227	29,280	30,264
NMD	14,416	18,016	16,933	15,758	16,288
Non-NMD	2,755	6,952	9,294	13,522	13,976
Foreign Non-Resident	21,725	37,424	21,993	18,920	19,556
TINIAN	<u>1990</u>	2000	<u>2010</u>	<u>2016A</u>	<u>2016B</u>
TINIAN TOTAL Population	<u>1990</u> 2,118	<u>2000</u> 3,540	<mark>2010</mark> 3,136	<u>2016A</u> 3,056	2016B 3,160
TOTAL Population	2,118	3,540	3,136	3,056	3,160
TOTAL Population Permanent CNMI Resident	2,118 1,286	3,540 1,897	3,136 1,782	3,056 1,950	3,160 2,016
TOTAL Population Permanent CNMI Resident NMD	2,118 1,286 <i>1</i> ,226	3,540 1,897 <i>1,709</i>	3,136 1,782 <i>1,517</i>	3,056 1,950 <i>1,146</i>	3,160 2,016 1,185
TOTAL Population Permanent CNMI Resident NMD Non-NMD	2,118 1,286 1,226 60	3,540 1,897 1,709 188	3,136 1,782 1,517 265	3,056 1,950 1,146 804	3,160 2,016 1,185 831
TOTAL Population Permanent CNMI Resident NMD Non-NMD Foreign Non-Resident	2,118 1,286 1,226 60 832	3,540 1,897 1,709 188 1,643	3,136 1,782 1,517 265 1,354	3,056 1,950 <i>1,146</i> <i>804</i> 1,105	3,160 2,016 1,185 831 1,143
TOTAL Population Permanent CNMI Resident NMD Non-NMD Foreign Non-Resident ROTA	2,118 1,286 1,226 60 832 1990	3,540 1,897 1,709 188 1,643 2000	3,136 1,782 1,517 265 1,354 2010	3,056 1,950 1,146 804 1,105 2016A	3,160 2,016 1,185 831 1,143 2016B
TOTAL Population Permanent CNMI Resident NMD Non-NMD Foreign Non-Resident ROTA TOTAL Population	2,118 1,286 1,226 60 832 1990 2,295	3,540 1,897 1,709 188 1,643 2000 3,283	3,136 1,782 1,517 265 1,354 2010 2,527	3,056 1,950 1,146 804 1,105 2016A 2,635	3,160 2,016 1,185 831 1,143 2016B 2,720
TOTAL Population Permanent CNMI Resident <i>NMD</i> <i>Non-NMD</i> Foreign Non-Resident <u>ROTA</u> TOTAL Population Permanent CNMI Resident	2,118 1,286 1,226 60 832 1990 2,295 1,595	3,540 1,897 1,709 188 1,643 2000 3,283 2,229	3,136 1,782 1,517 265 1,354 2010 2,527 1,706	3,056 1,950 1,146 804 1,105 2016A 2,635 1,989	3,160 2,016 1,185 831 1,143 2016B 2,720 2,053





Total Estimated Population (2028)				
	Saipan	Tinian	Rota	Total
Scenario A	67,414	8,707	3,577	79,698
Scenario B	50,559	5,779	2,868	59,206
Scenario C	40,457	2,325	2,284	45,066

Homestead Awards as of 2017

	Saipan	Tinian	Rota	Total
Total Homesteads Awarded by 2017	1,997	912	2,597	5,506

Estimated Eligible NMD Applicants by 2028

	Saipan	Tinian	Rota	Total
(Scenario A)	5,038	409	421	5,869
(Scenario B)	4,769	366	368	5,503
(Scenario C)	4,691	382	413	5,487





Identify Resources and Reserve Lands

- Such as, Springs, ground water, quarries, habitat, historic and cultural resources, current & future sites of government buildings, wetlands, prime public recreation areas, potential school sites, potential hospital sites and potential transportation corridors
- Lands unsuitable for development, not required for current use, or to be held in reserve or for further consideration by the Commonwealth during later iterations of this plan



Northern Islands Visit



Overview

Project consultants, Mayor Vicente C. Santos, Jr., his staff and crew of Super Emerald Boat

Departed Saipan on Sunday April 22 returned Sunday April 29, 2018

➢ 4 islands were visited and evaluated for this Plan as recommended by the Mayor's office and considered viable for resident occupancy within the planning horizon.

- Anatahan
- > Alamagan
- Pagan
- ➤ Agrihan



Islands North of Agrihan were not evaluated because these islands are located within the Mariana Trench Marine National Monument.

The Mayor was picked up in Alamagan and returned to Saipan with the project team.





- 1st Island visited was Anatahan
- > The Boat trip from Saipan to Anatahan was approximately 8 hours
- > The project team landed at the Northwest area and hiked to the former Anatahan Village Area
 - > The Northwest area was aerial surveyed by project consultant team
 - > The South side of the island was not visited due to difficult terrain and inability to land
- Recommendation is to identify the Northwest area as the primary future homestead site, the area identified on the South side of the island is recommend to be the secondary homestead site
- During this Plan horizon, recommending DPL conduct feasibility study for safe boat or canoe access



Northern Islands Visit – Anatahan















Alamagan

- 2nd Island visited was Alamagan
- > The Boat trip from Anatahan to Alamagan was approximately 9 hours
- The project team landed at the Northern area and met the Mayor of the Northern Islands and his staff
 - The Northern area was aerial surveyed by project consultant team
 - > The South side of the island was not visited due to difficult terrain and inability to land
- Recommendation:
 - Identify the Northern area as the primary future homestead site; the area identified on the South side of the island is recommended to be the secondary homestead site
 - > During this Plan horizon, recommending DPL conduct feasibility study for safe boat or canoe access





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- ➢ 3rd Island visited was Pagan
- > The Boat trip from Alamagan to Pagan was approximately 4 hours
- > The project team landed at the western bay near the airstrip area at the established base camp
 - 3 people are currently living on Pagan at the base camp
 - The identified homestead area located on the Southeast side of the island was aerial surveyed by project consultant team
 - > DPL has surveyed a portion of this area for 40 Agricultural Homestead lots
- Recommendation:
 - Identify the Southeast area as the primary future homestead site
 - Establish a 20,000 square meter area for the Office of Mayor of the Northern Islands
 - This is anticipated to include an emergency shelter, Mayor's office, clinic, school house, lodging for Mayor's staff and Agricultural homesteaders
 - Recommending DPL conduct an airstrip and harbor feasibility study











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- ➢ 4th Island visited was Agrihan
- > The Boat trip from Pagan to Agrihan was approximately 3.5 hours
- The project team landed at the Southern side of the island and met at the established base camp
 - > 2 people are currently living on Agrihan at the base camp
 - The identified homestead area located on the South side of the island was aerial surveyed by project consultant team
- Recommendation:
 - Occupy the Southern area as the primary future homestead site
 - The 2 areas identified on the East side of the island are recommend to be the secondary homestead site
 - > During this Plan horizon, recommending DPL conduct feasibility study for safe boat or canoe access















Project Key Drivers



- Establishing Reserve Lands & Determining the Suitably of Usable Land using Constraints:
 - Public or Private Land
 - Vacant or occupied
 - Hazardous Materials
 - Flood or Tsunami Zone
 - Suitable Slope
 - Free of Known Natural Resources
 - Free of Known Habitat
 - Free of Known Historic or Cultural Resources
 - Proximity to Infrastructure
 - ➤ Accessibility
 - On Saipan, fit with surrounding zoning
 - On Tinian, Rota & Northern Islands, fit with surrounding uses
- Allocation of Reasonable Uses for Identified Remaining Suitable Lands, WITHIN THIS PLAN'S TIME HORIZON:
 - Siting of Necessary Government Services & Facilities
 - Siting of Homesteads
 - Siting of Proposed Lease for Economic Development
 - Appropriate for Land Exchange



Purpose and Scope of Comprehensive Land Use Plan



- Reserve Lands:
 - Important, habitat, resources as well as lands impractical or infeasible to use within this project horizon
- Governmental Use:
 - > Lands required to provide governmental facilities and services necessary to the CNMI
- Homesteads:
 - Identify lands suitable for Village & Agricultural Homestead Use, on all islands
- Private Development on Public Lands:
 - Reserve lands that should be made available to private developers for generation of revenue
- Land Exchange:
 - Lands that should be made available for exchange in order to improve the manageability and value of public land holdings, or other public purposes such as the acquisition of rights of way, parks, shoreline access, wetland, scenic resources, important habitat, historic or cultural sites



Proposed Homestead Allocation in this Plan

GS

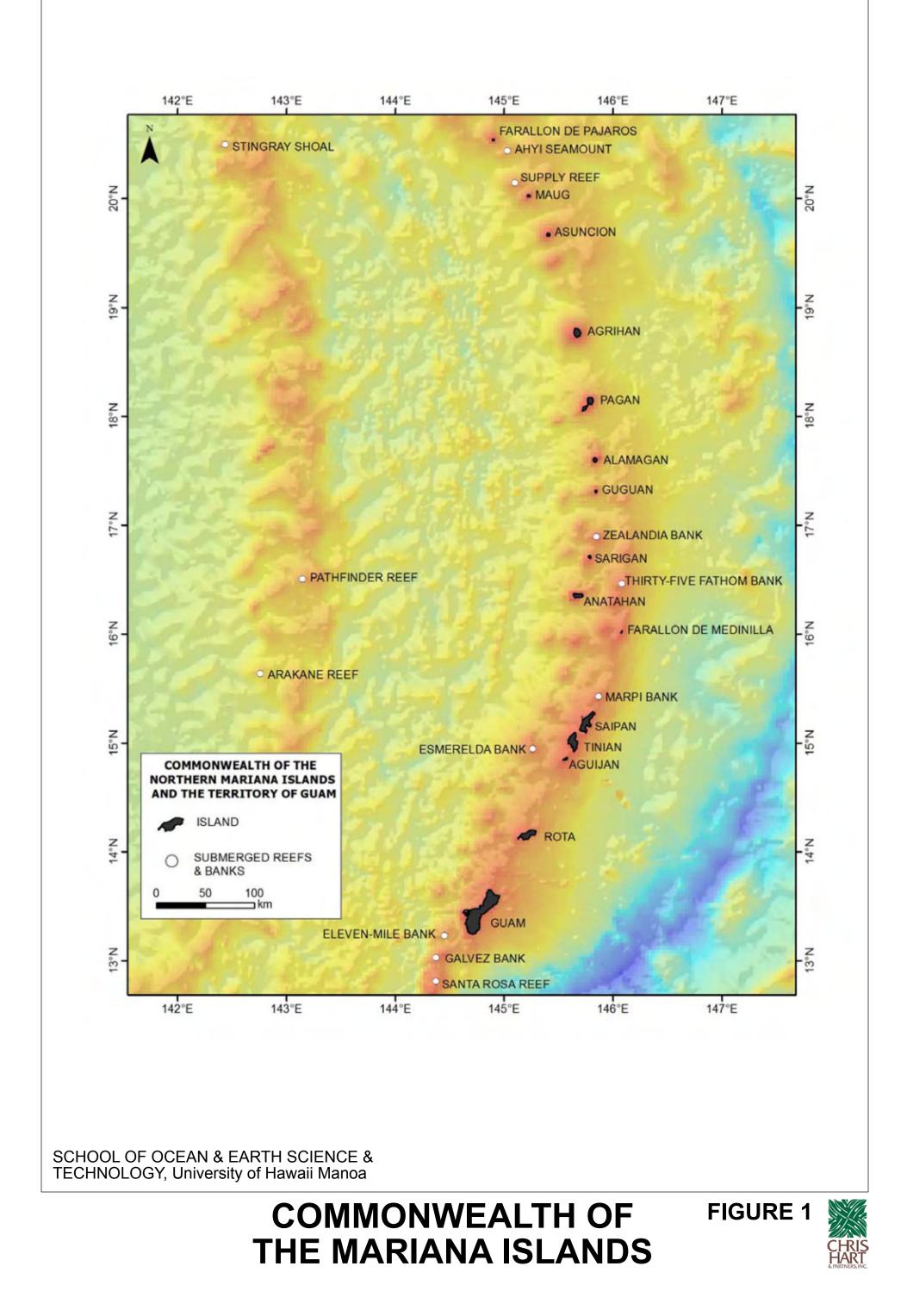
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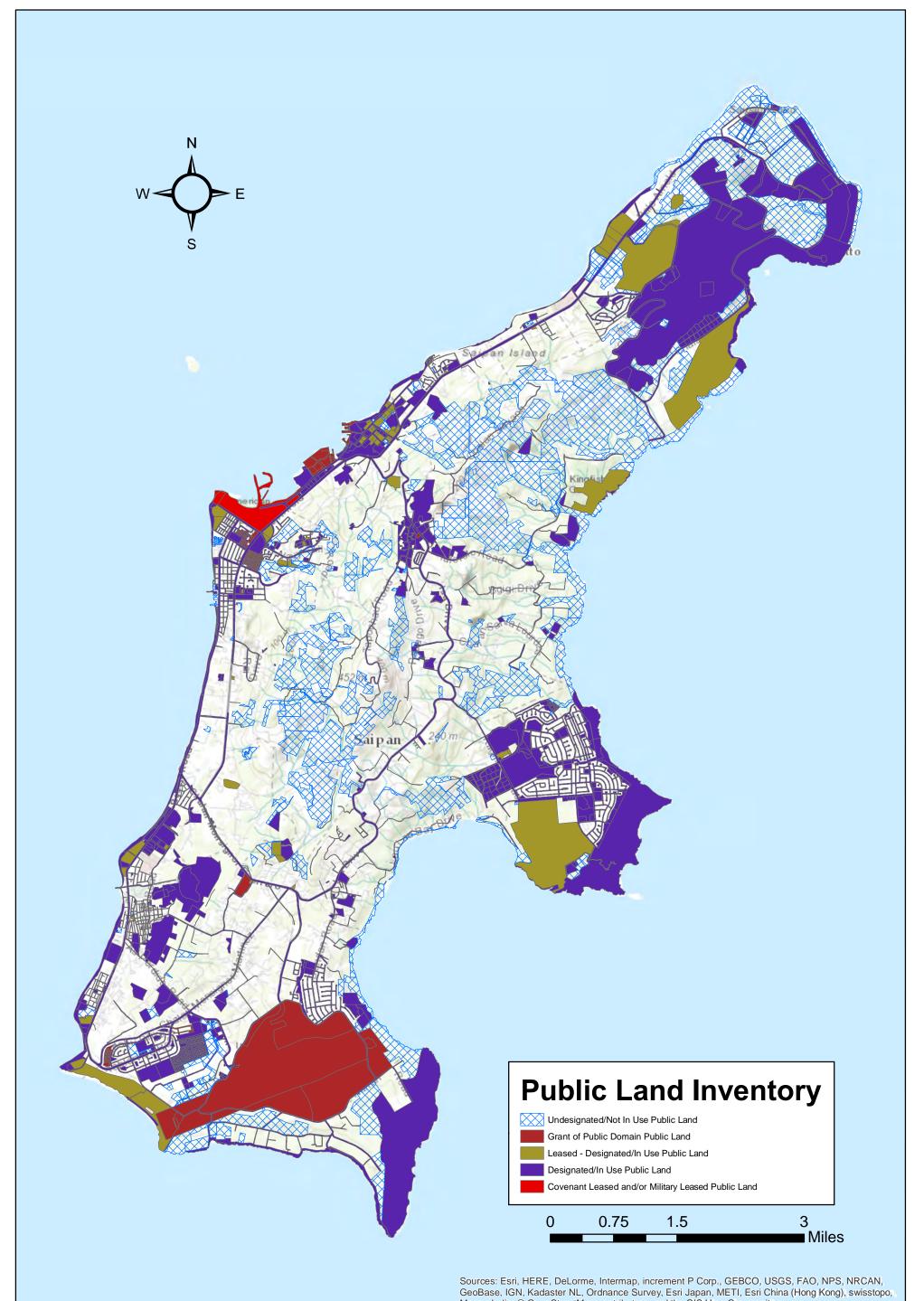
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Hectares of Land Suitable for Homestead Use				
Island	Village Homestead	Agricultural Homestead	NOTES:	
Saipan	245	Program no longer sustainable on Saipan	Serious discussion of sustainability and possible transition to smaller lots by lease or multi-family options are recommended. Approximately 51 hectares suitable for AG use should be operated through lease	
Tinian	62	627		
Rota	126	367		
Anatahan	Not in current plan horizon	108	(38 primary, 70 secondary)	
Alamagan	Not in current plan horizon	139	(58 primary, 81 secondary)	
Pagan	Not in current plan horizon	273	(40 primary, 233 secondary)	
Agrihan	Not in current plan horizon	212	(81 primary, 131 secondary)	



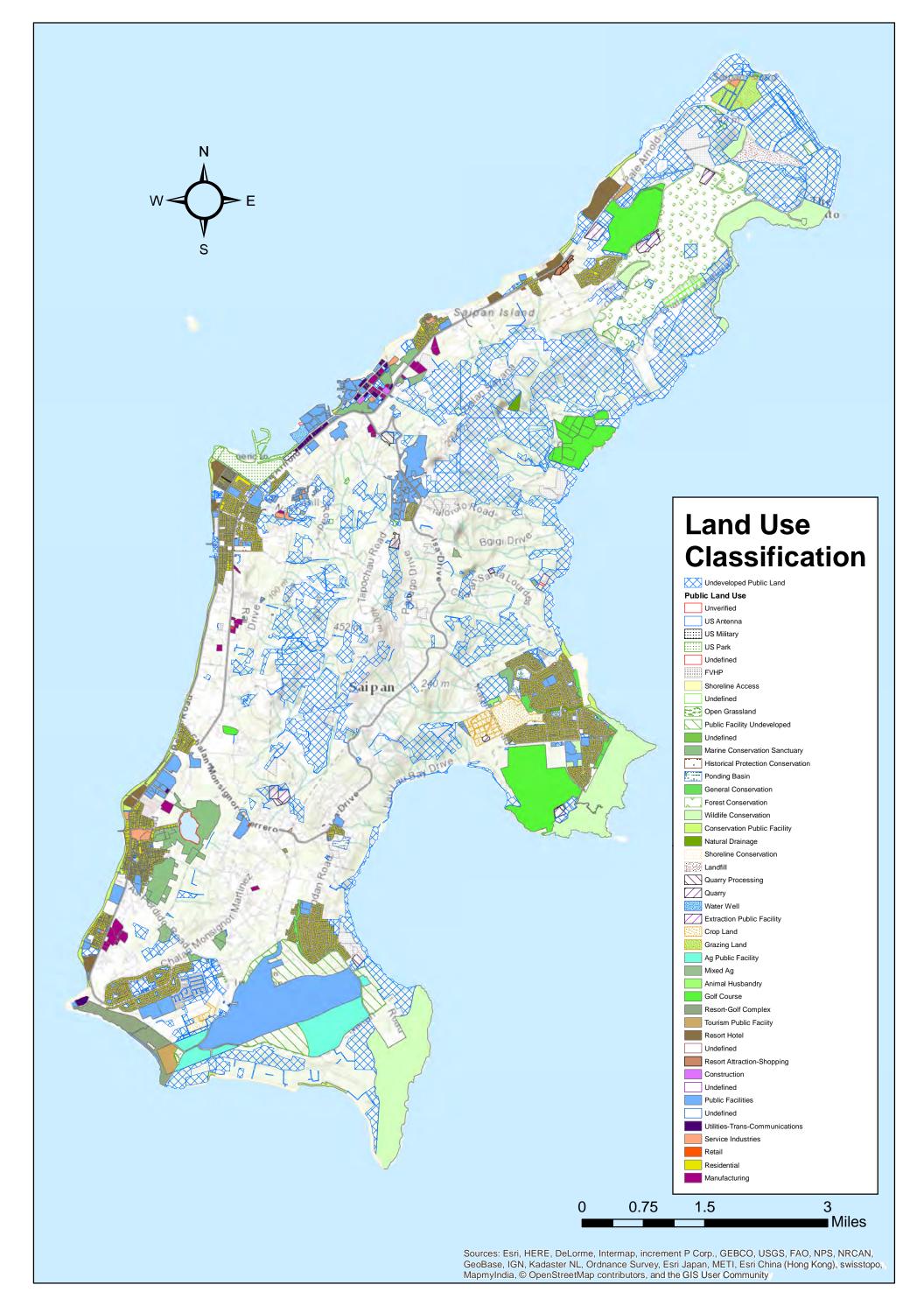


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

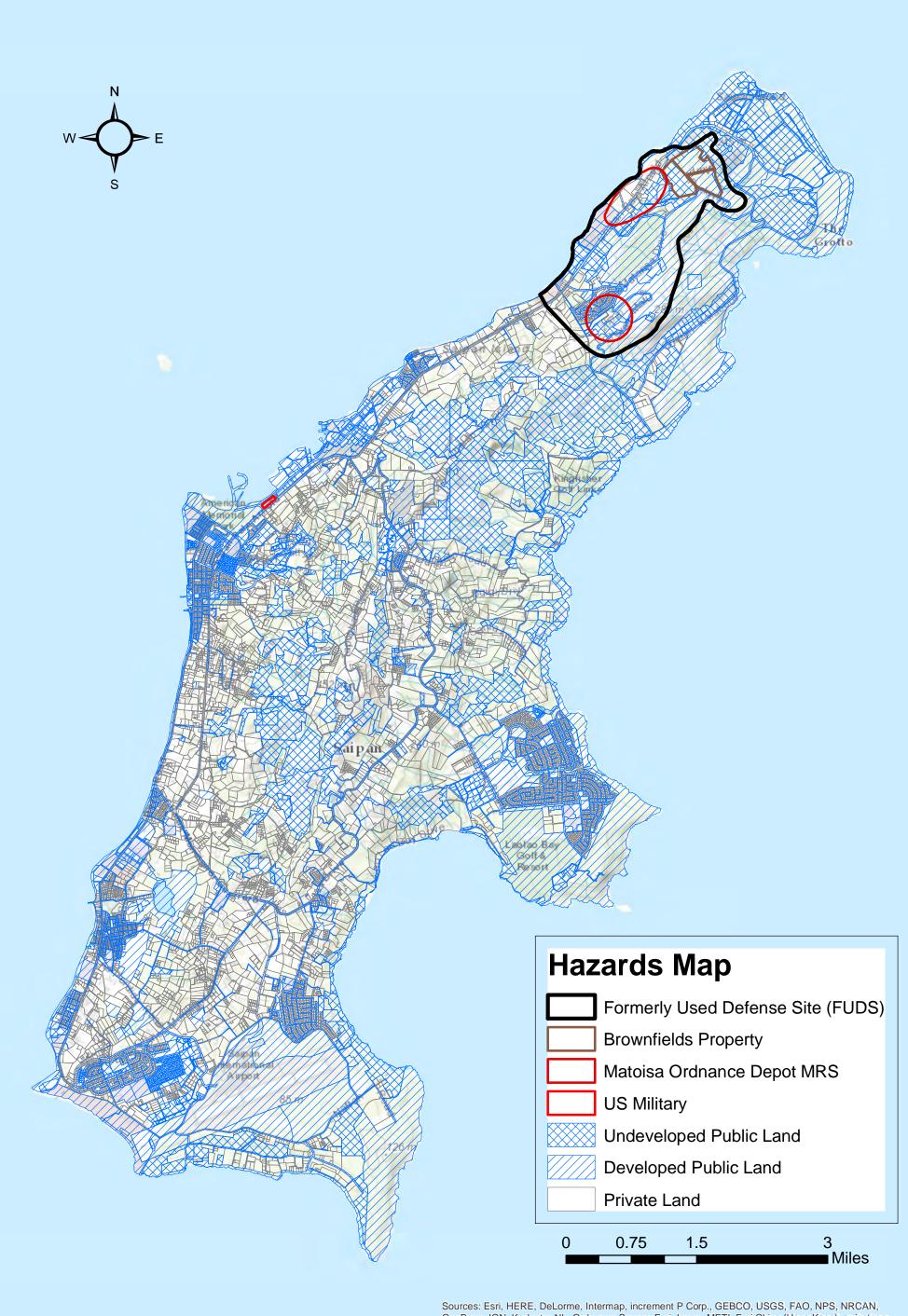
SAIPAN







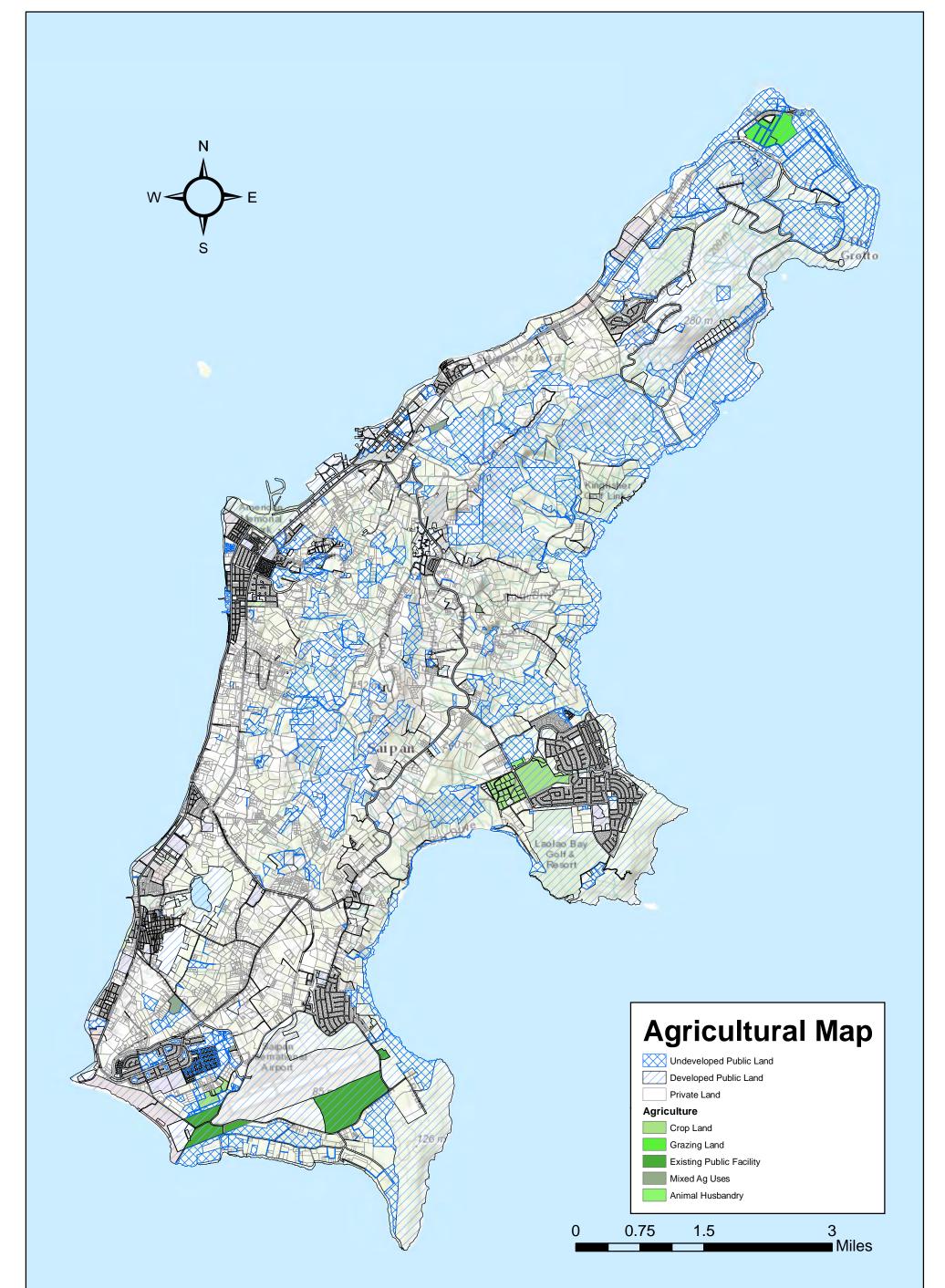




Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

SAIPAN

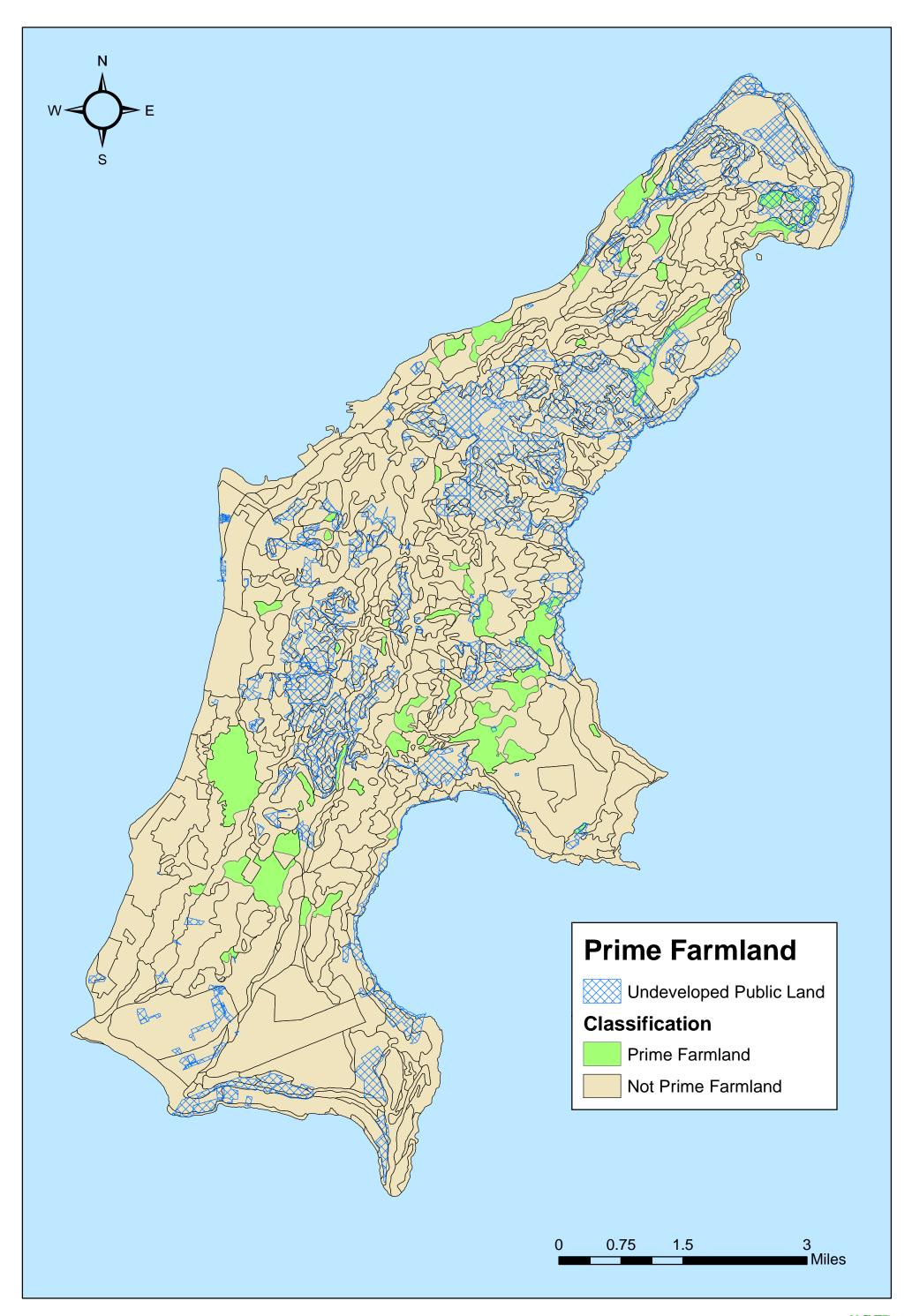




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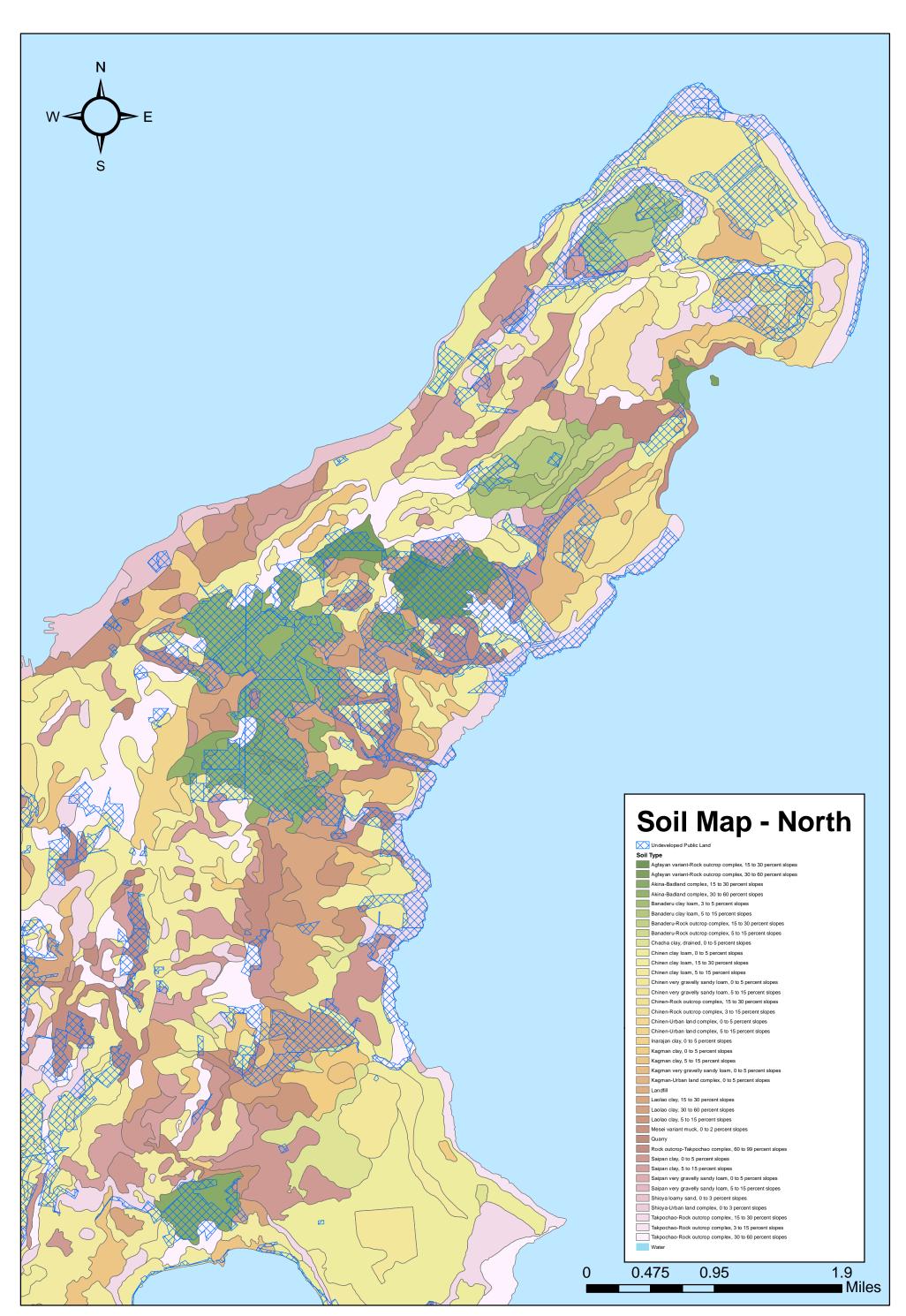
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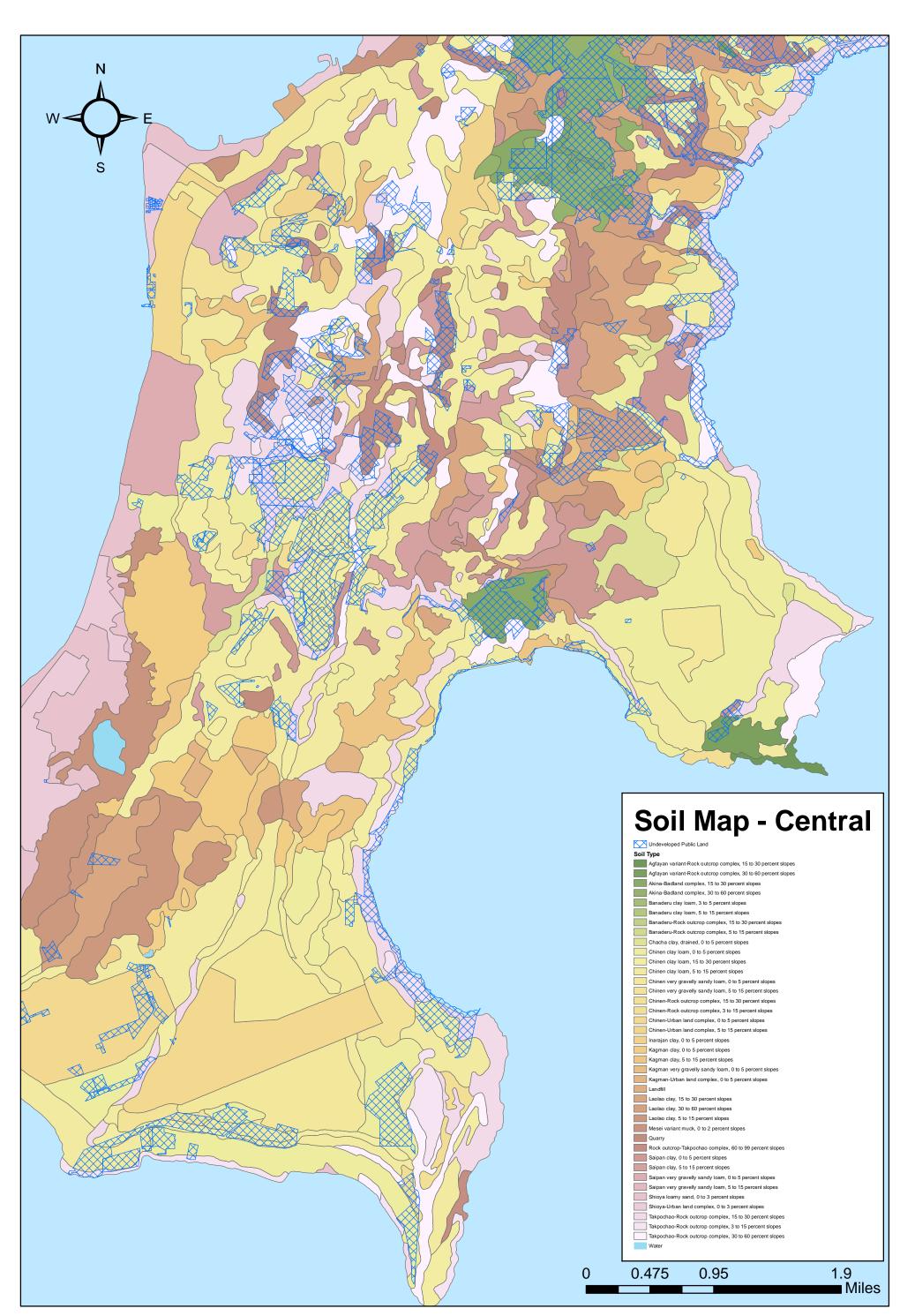
















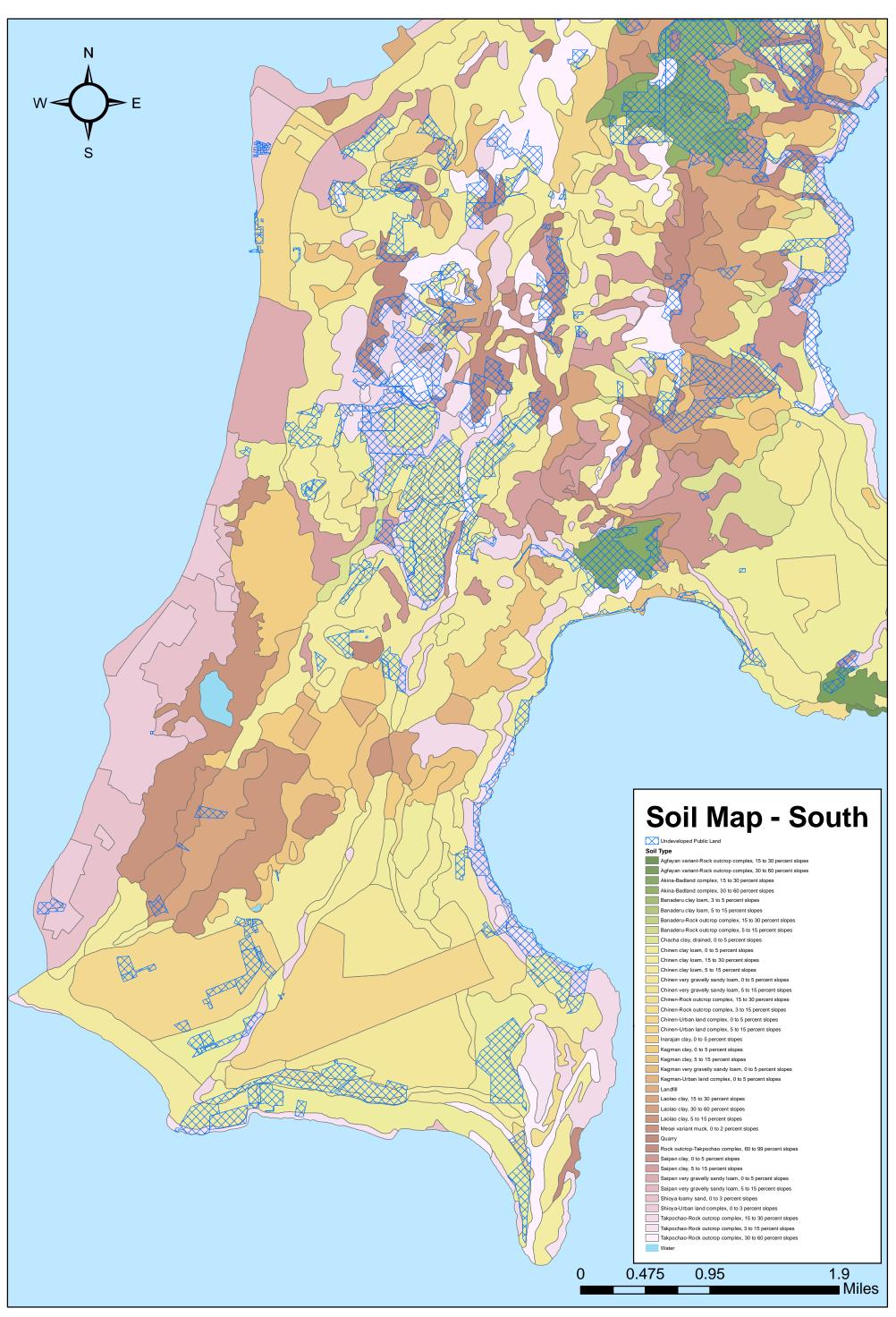


FIGURE S-6.3



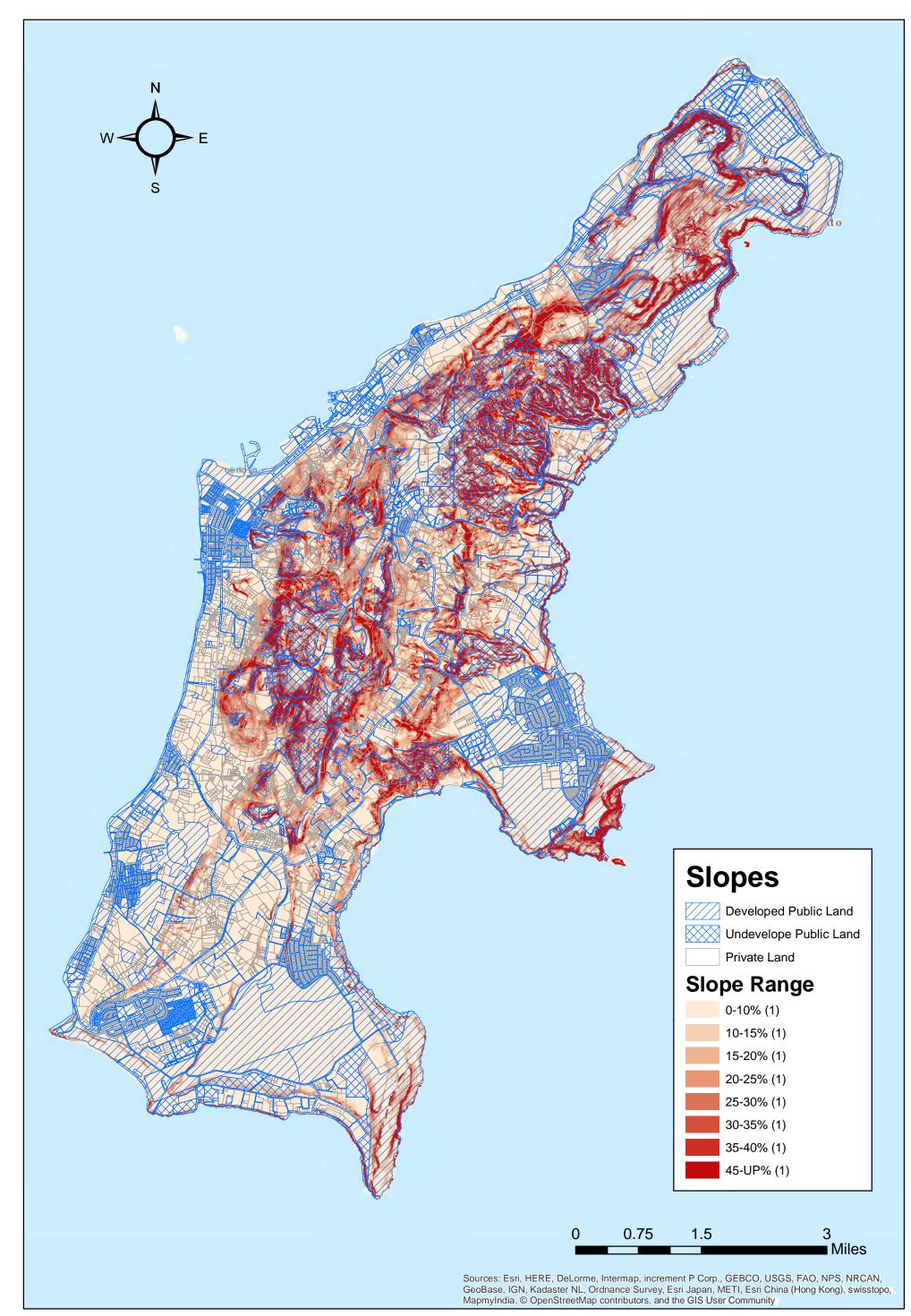


FIGURE S-7.1



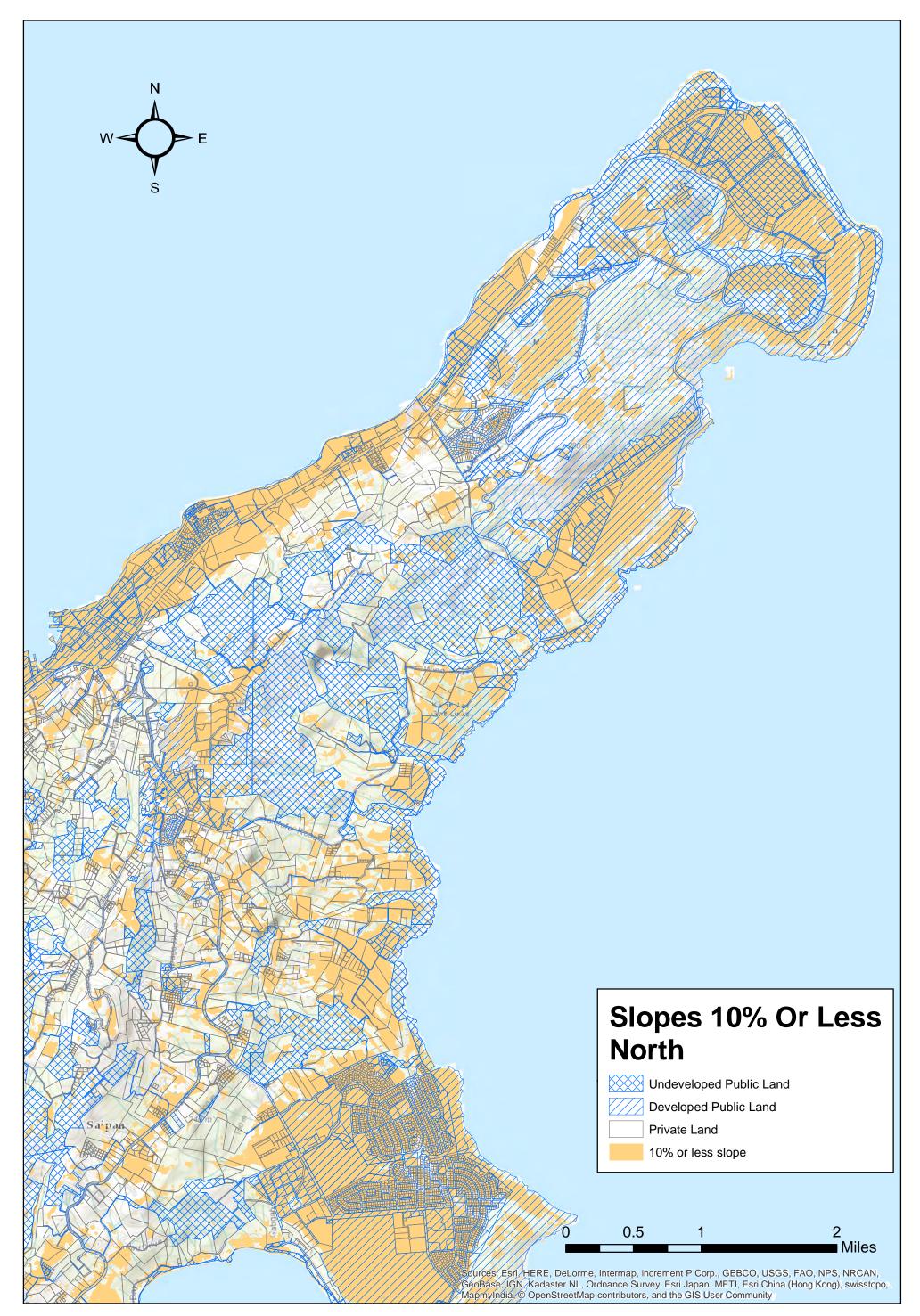


FIGURE S-7.2



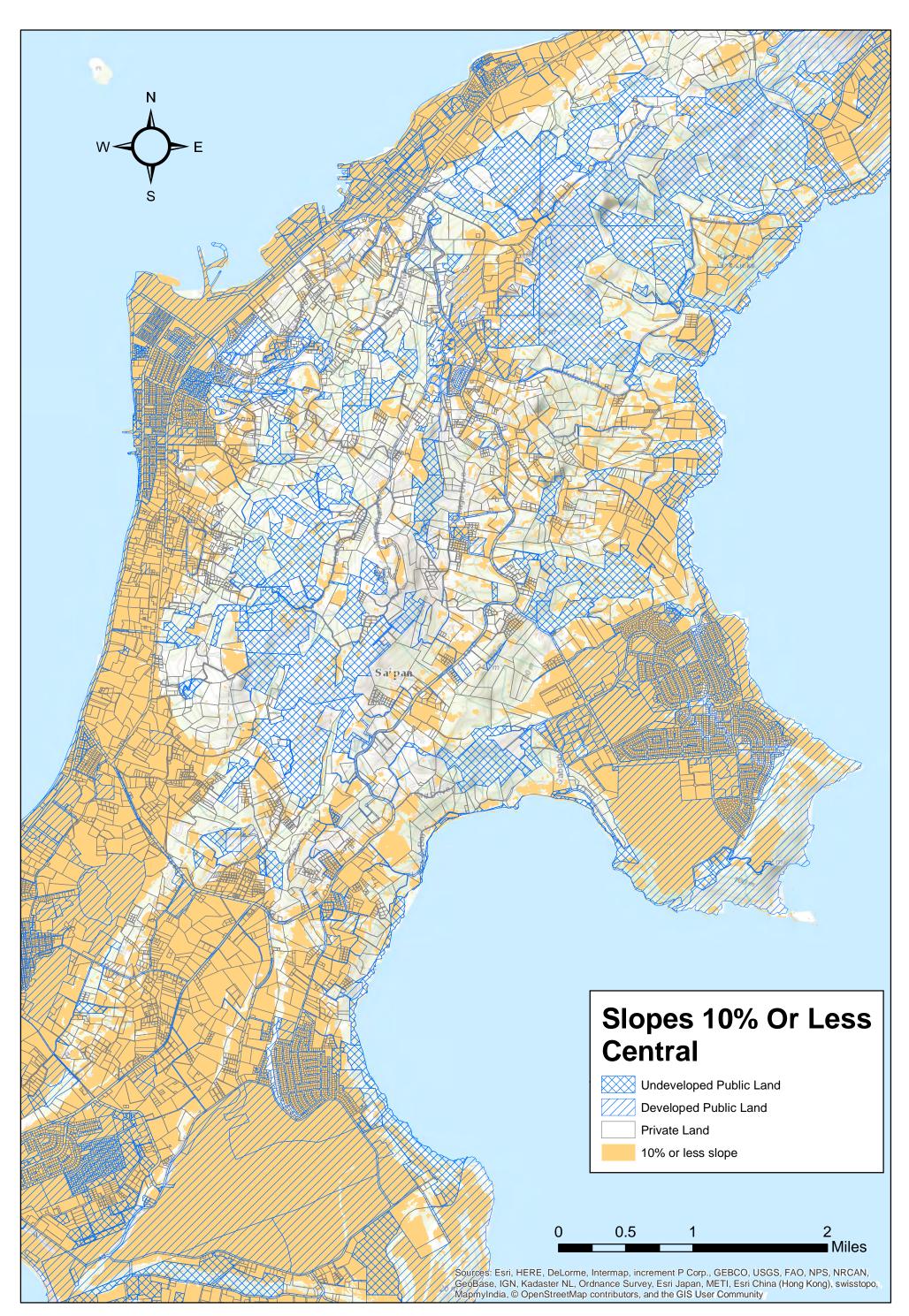
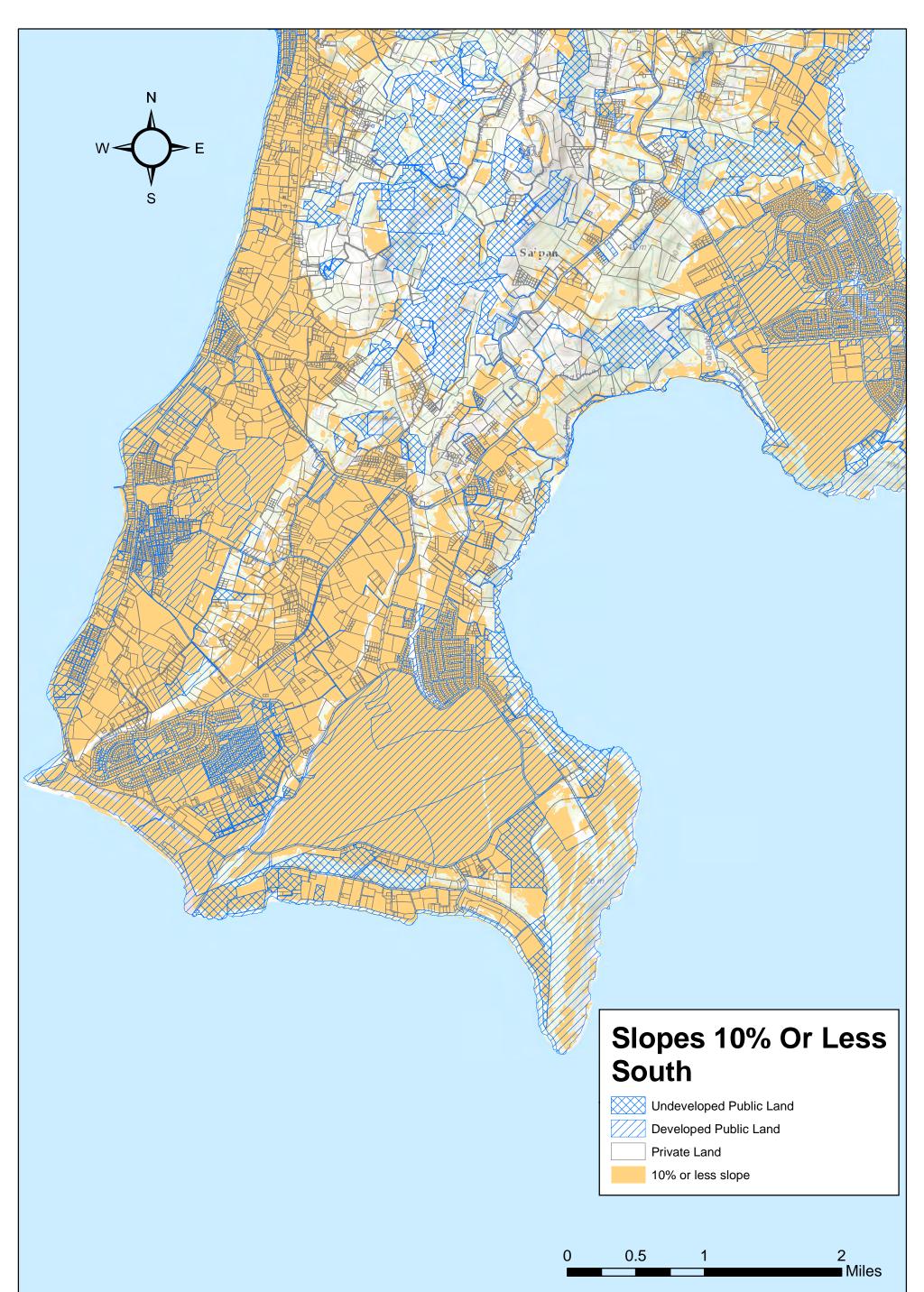


FIGURE S-7.3

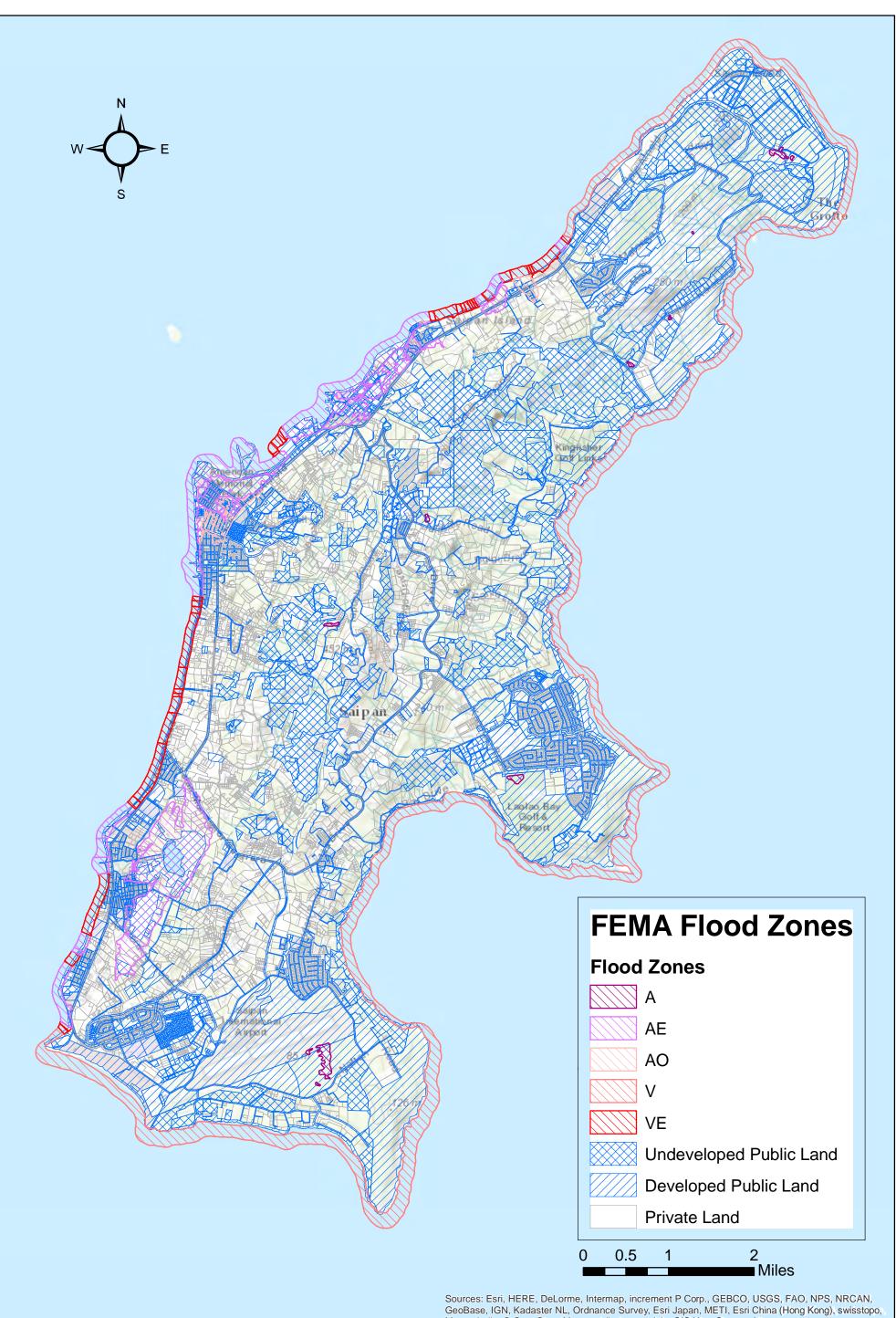




Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



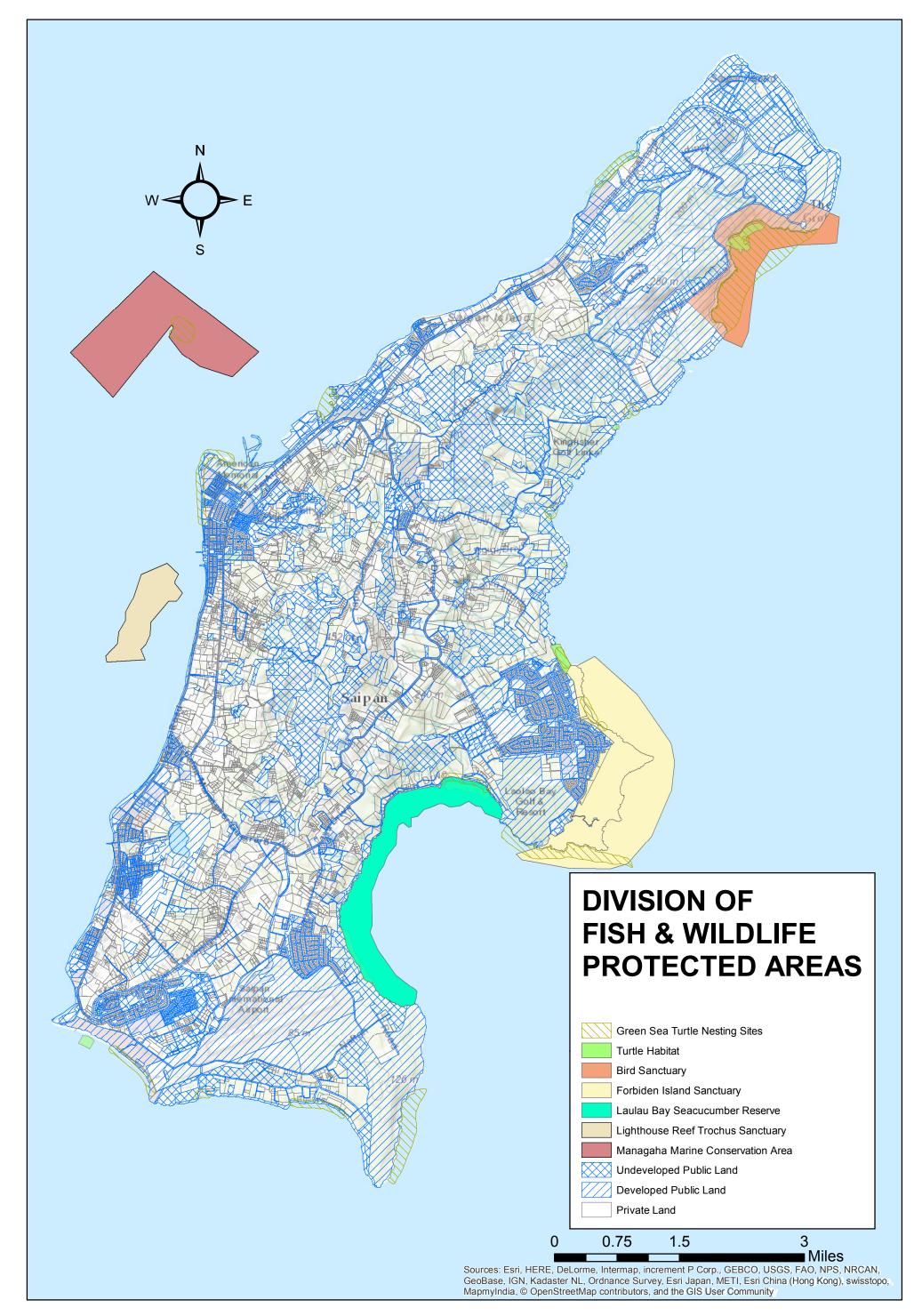




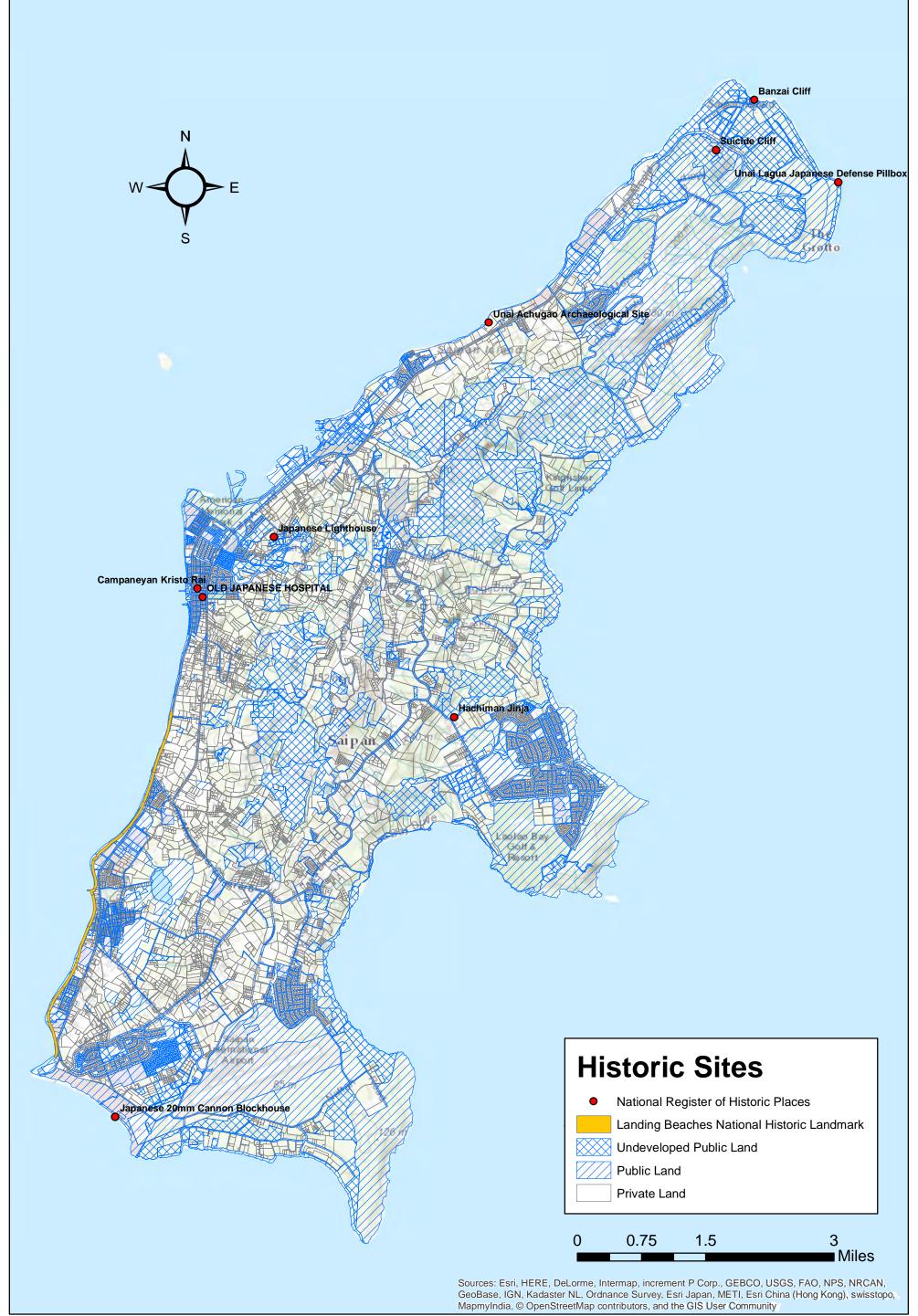
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



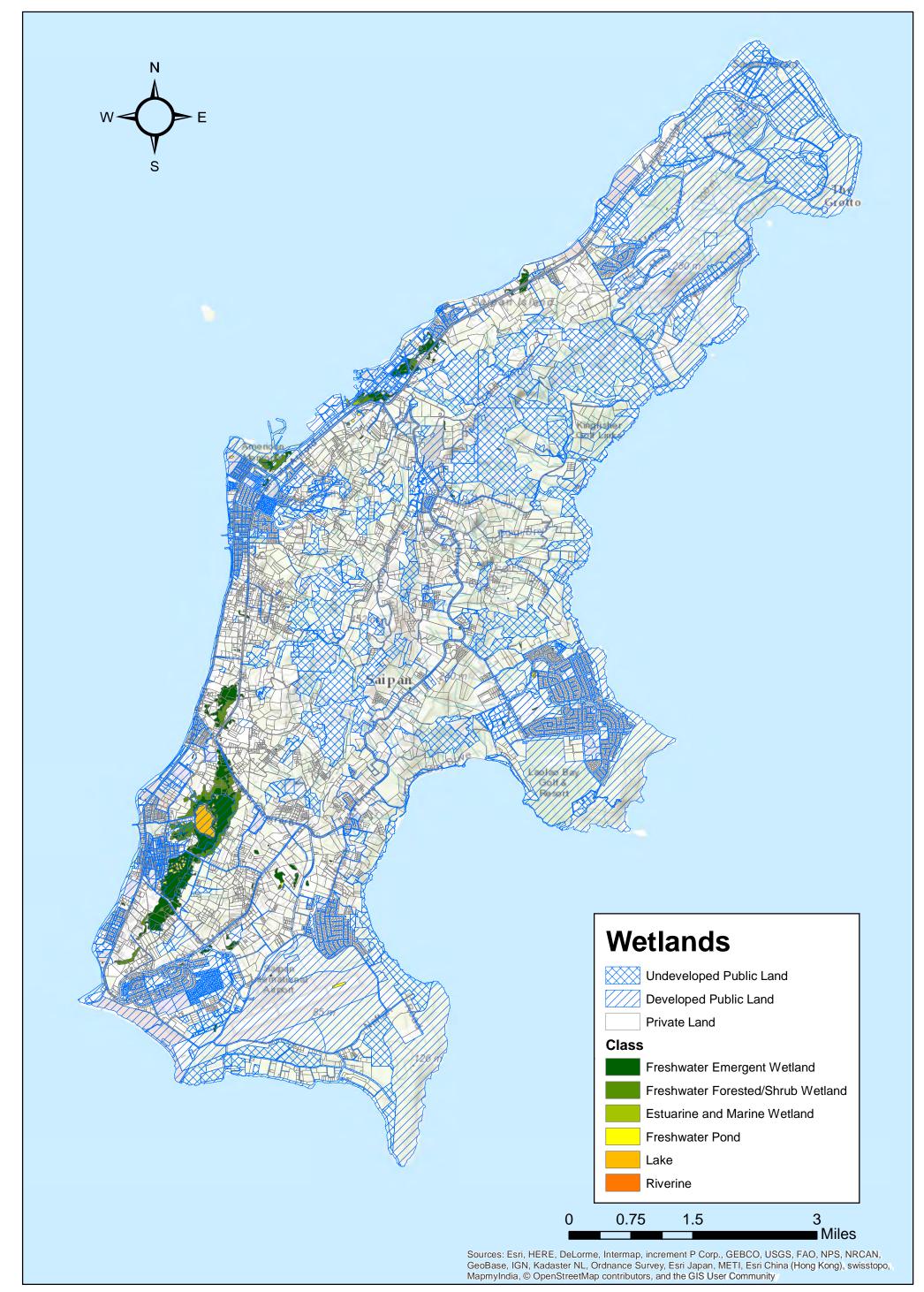




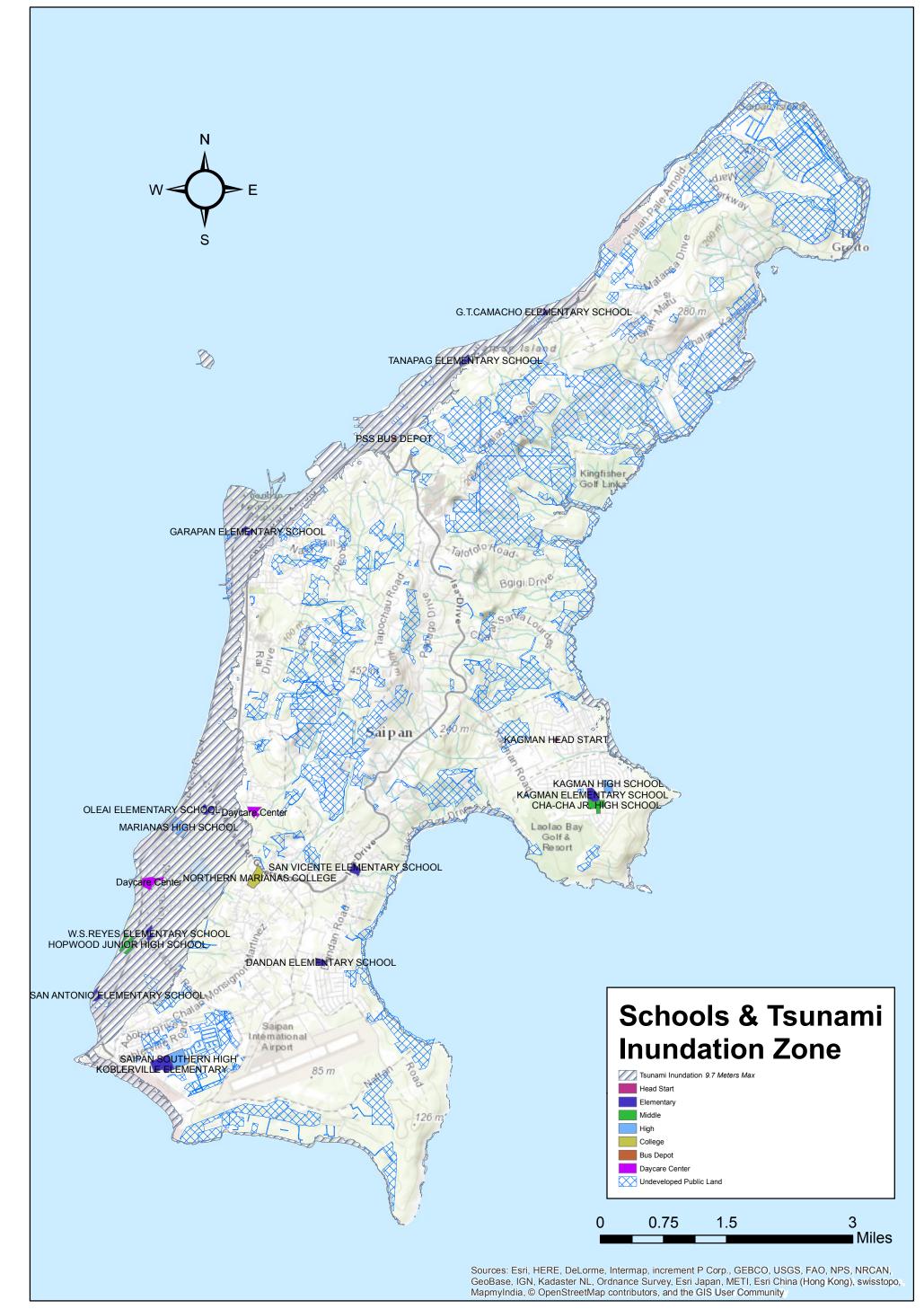




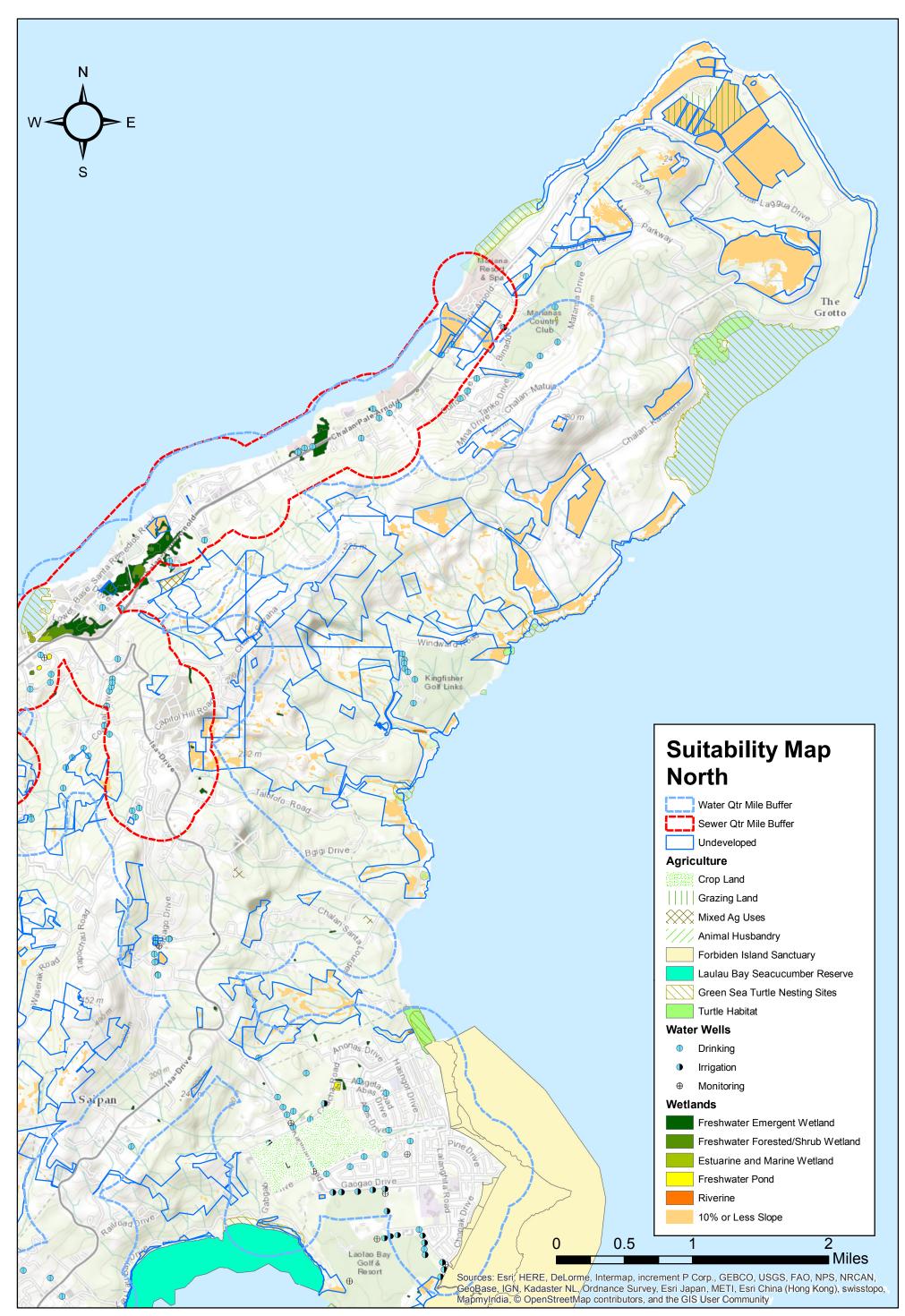




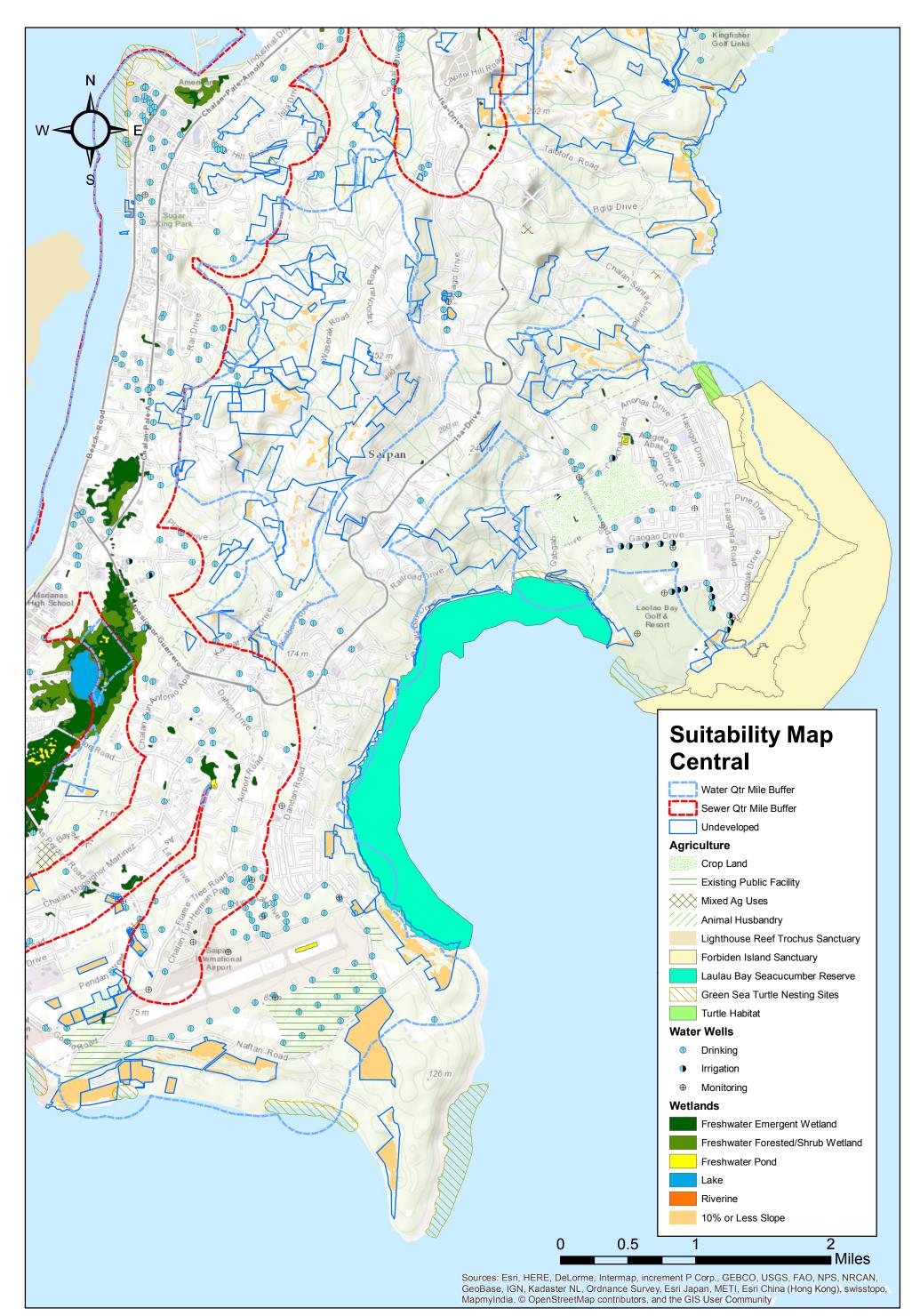




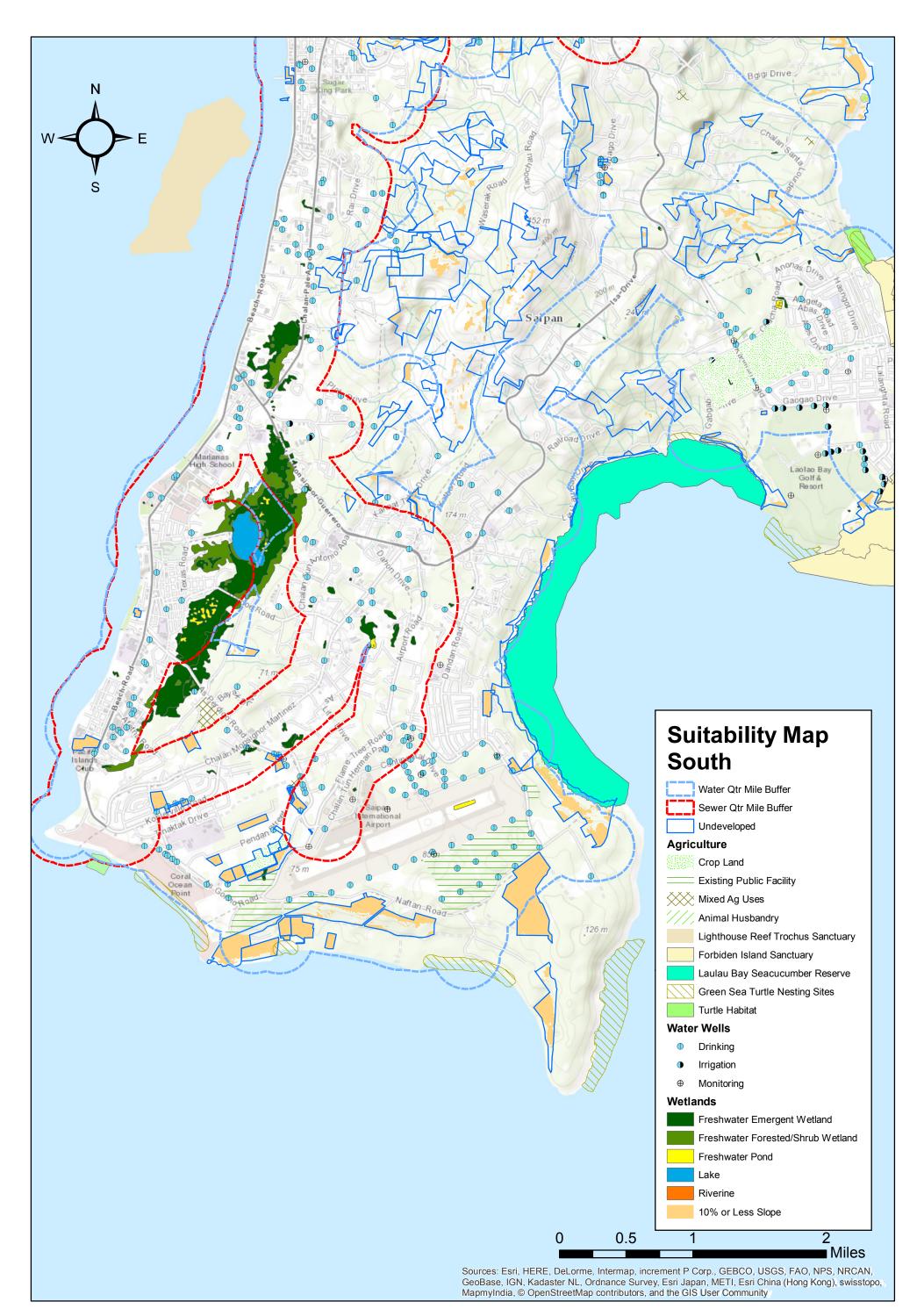




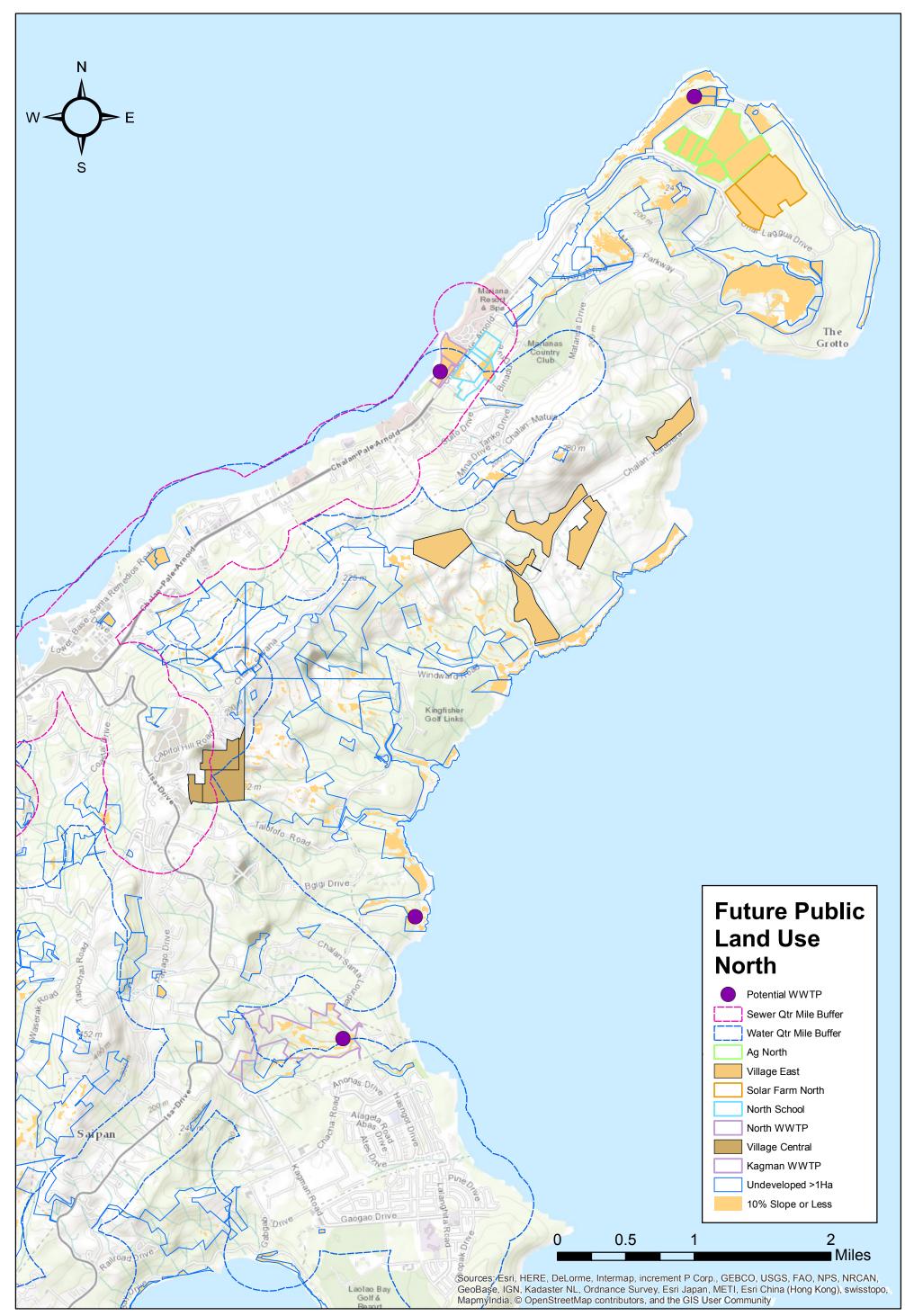




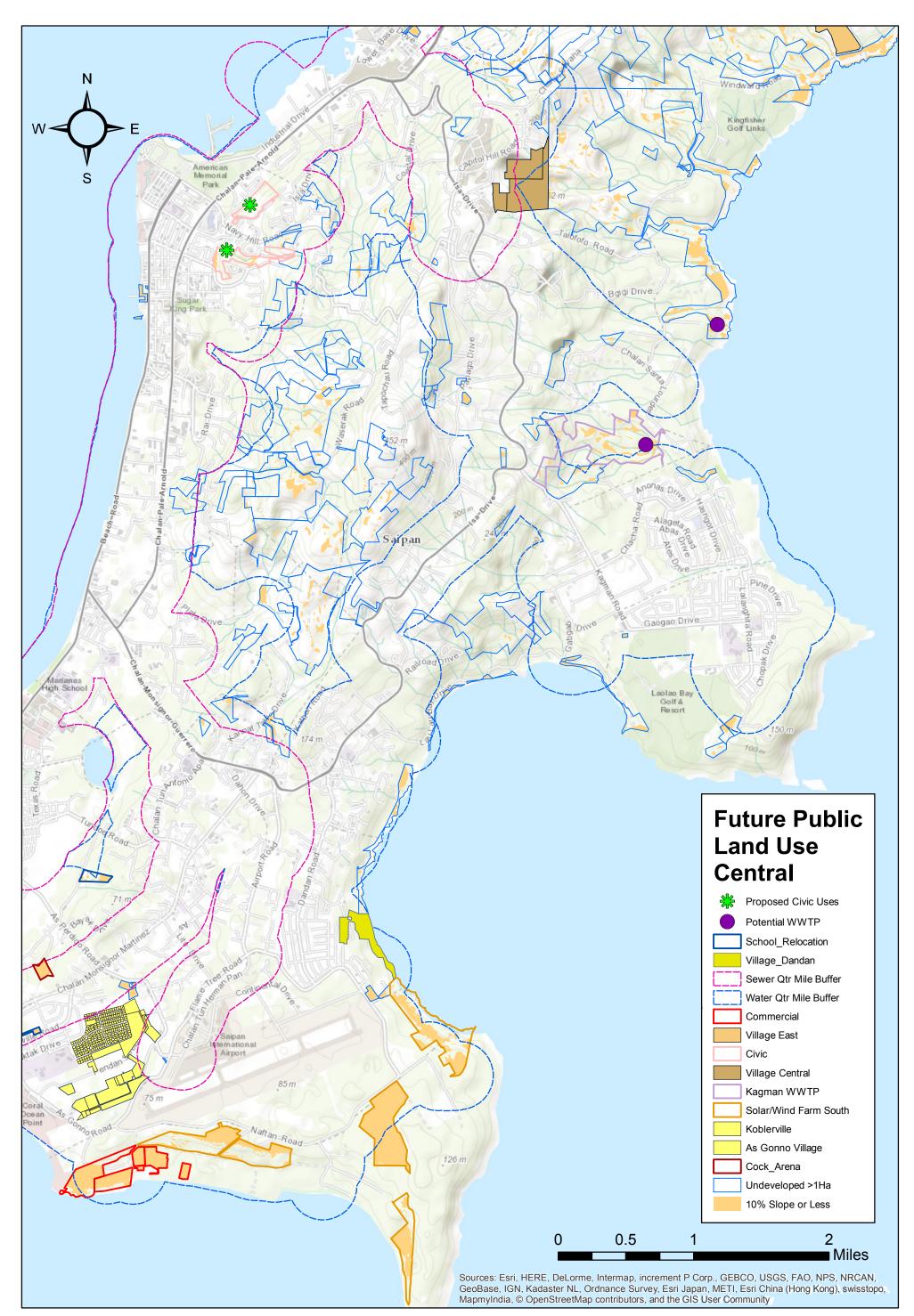




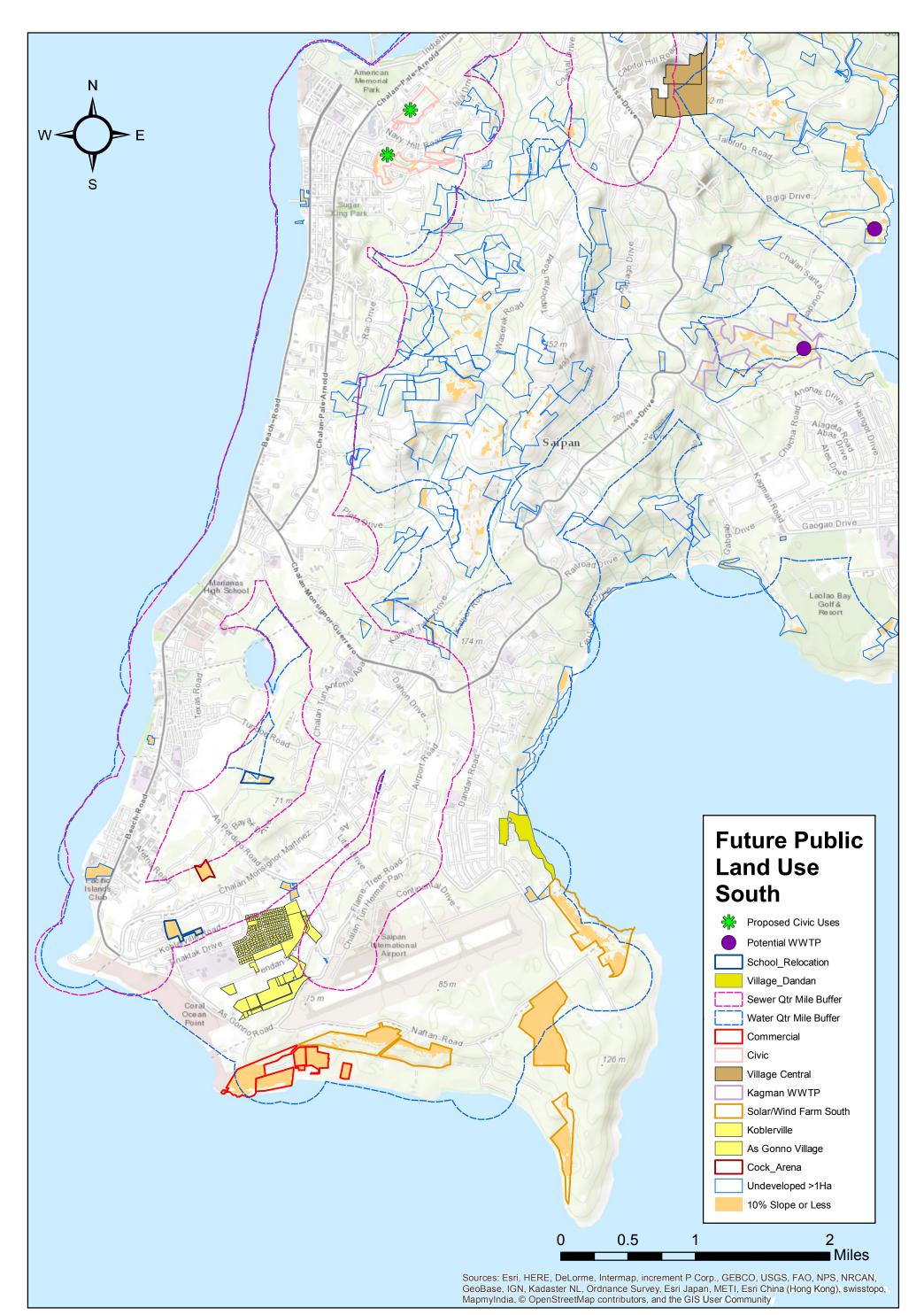




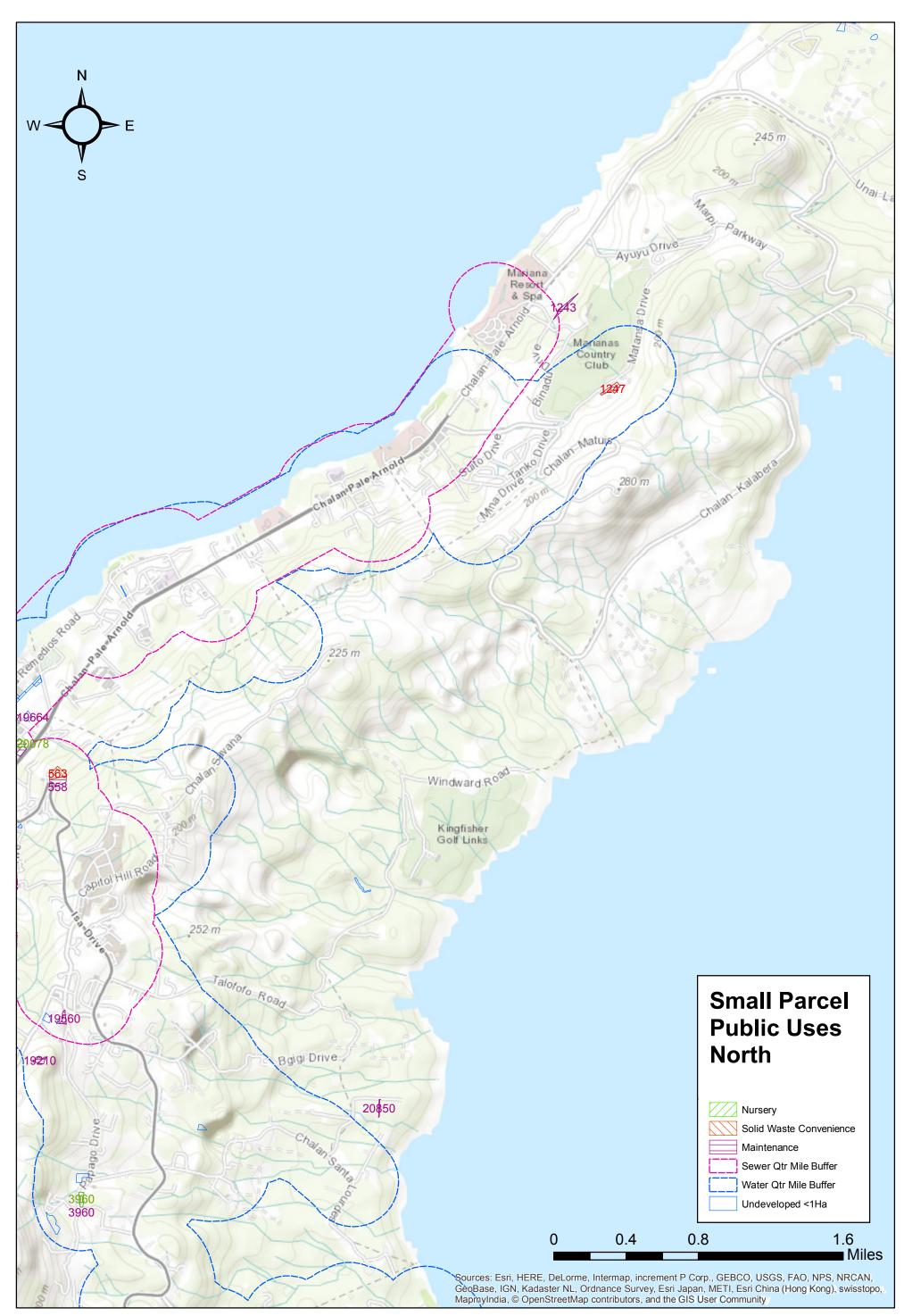




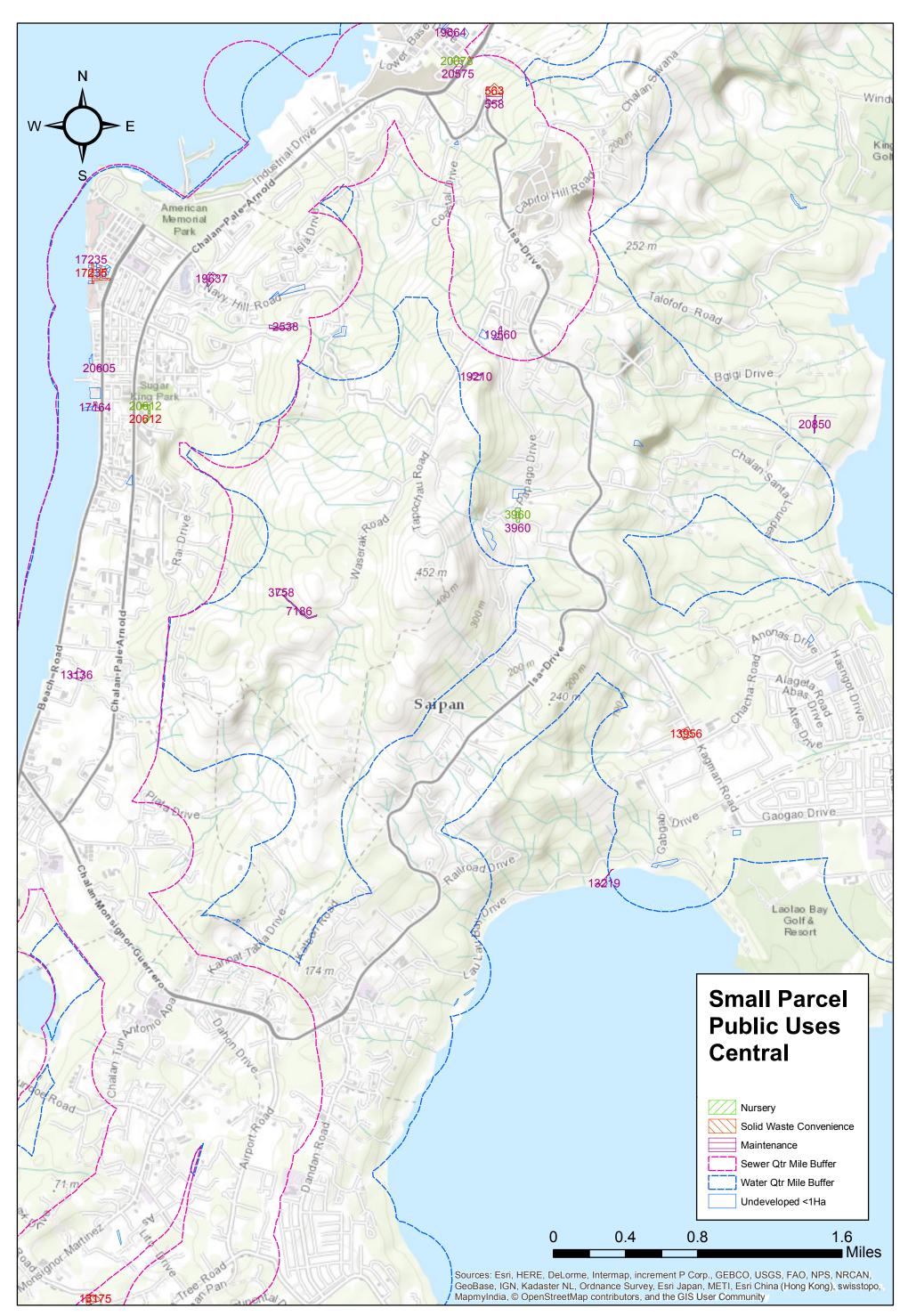




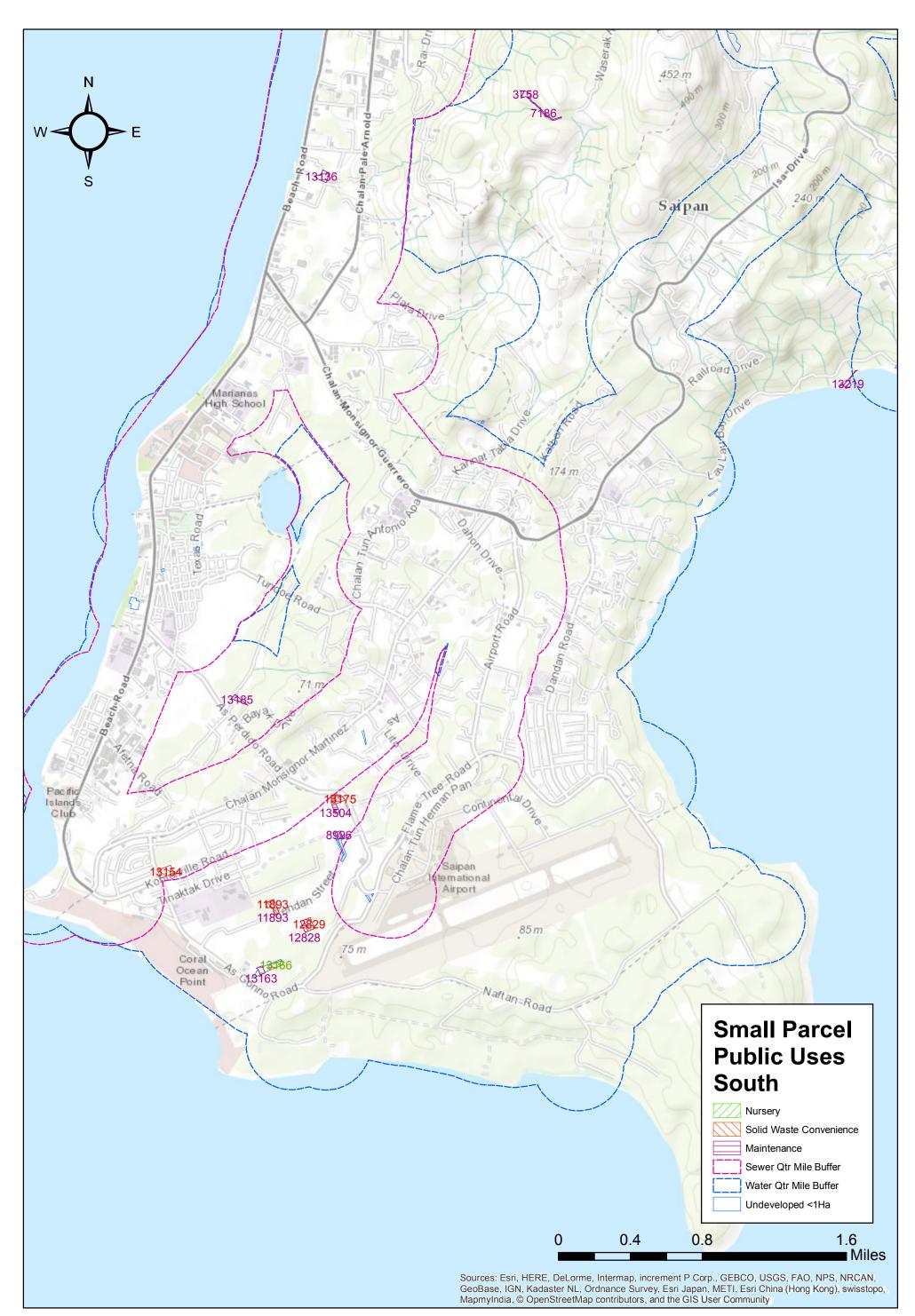




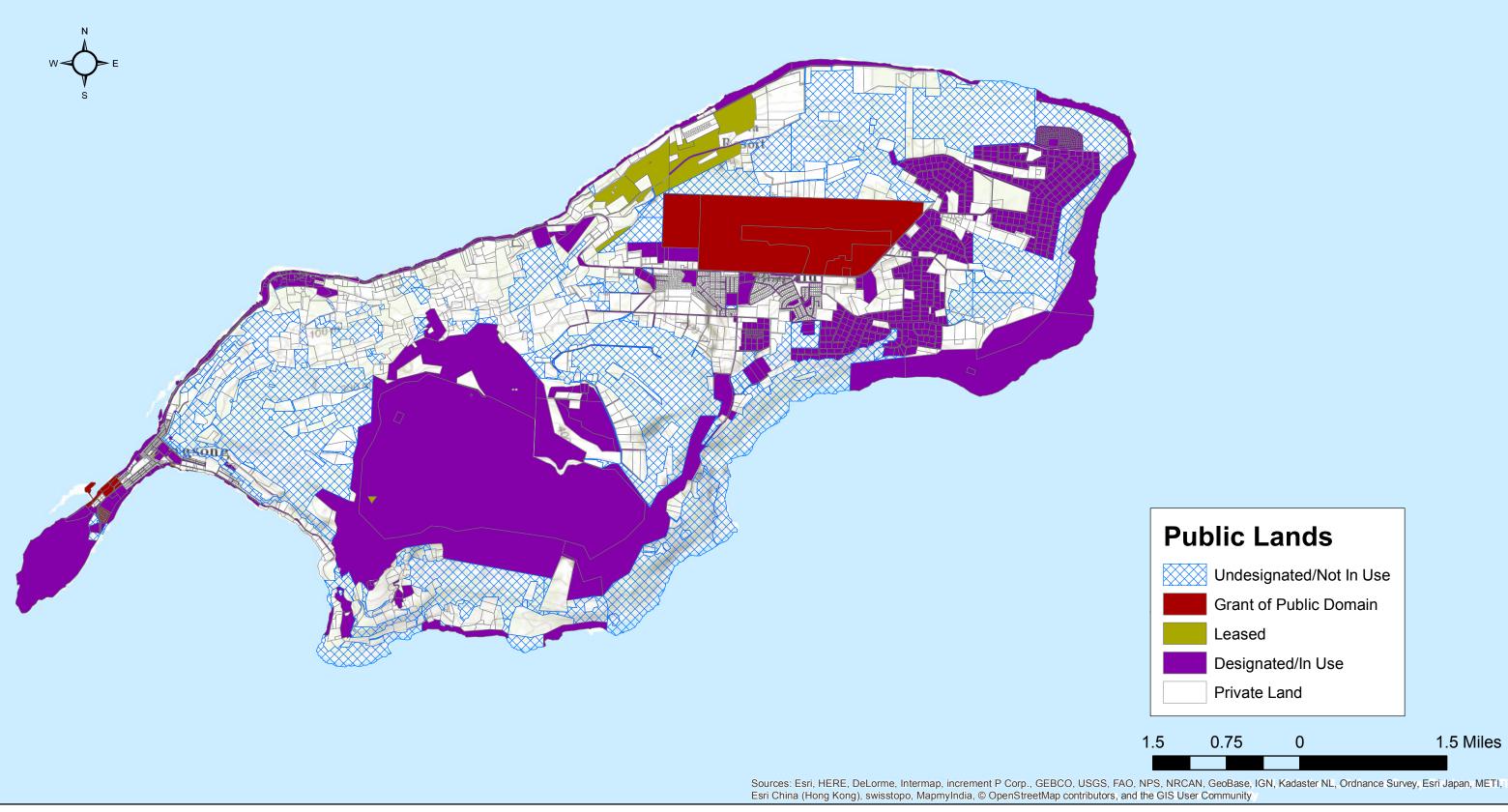














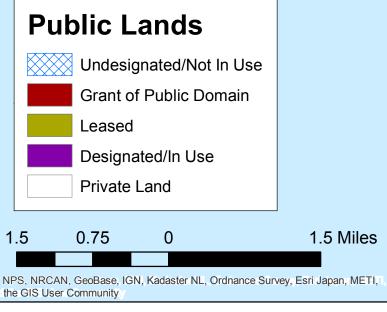
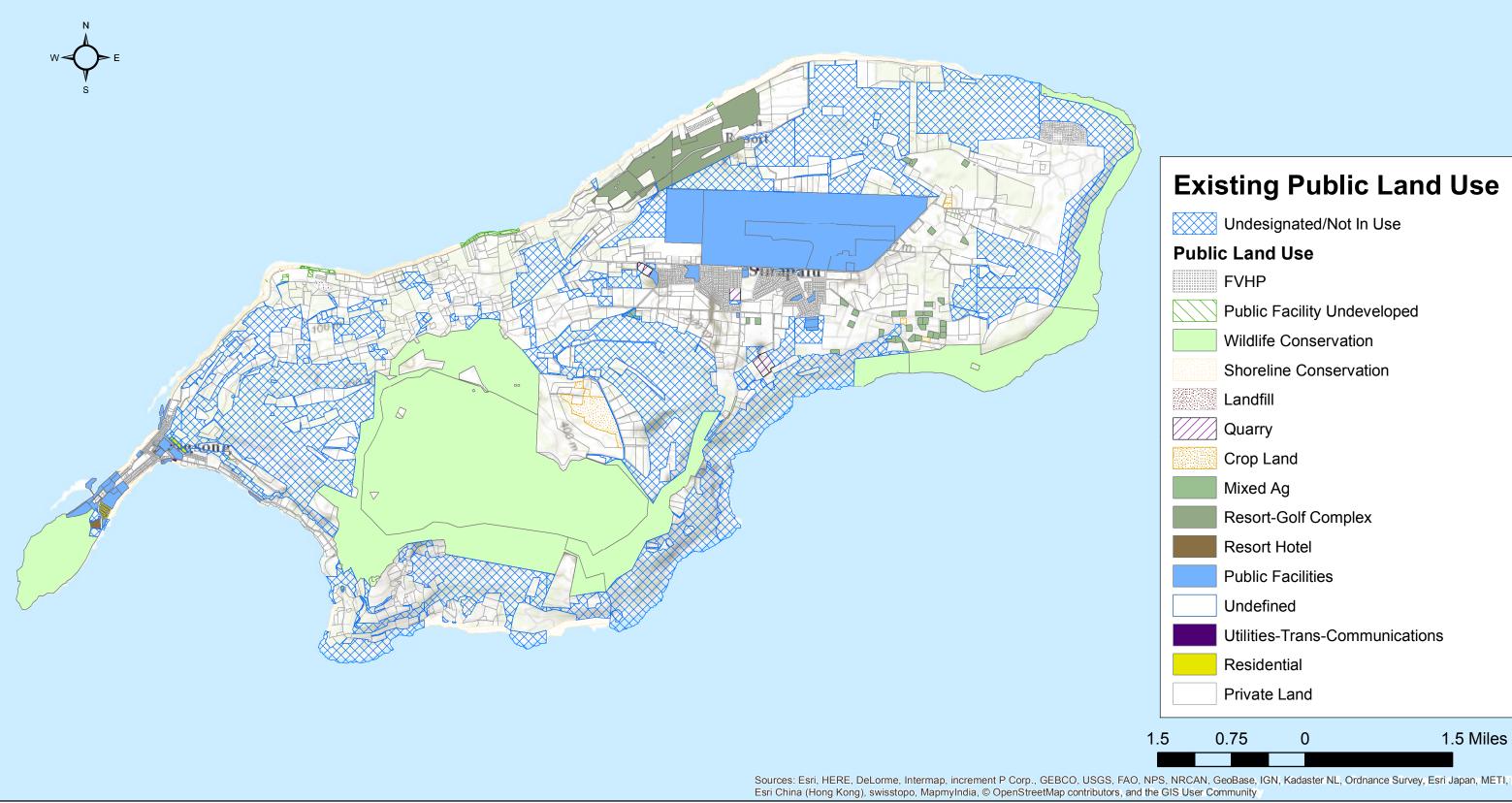


FIGURE R-1







Existing Public Land Use

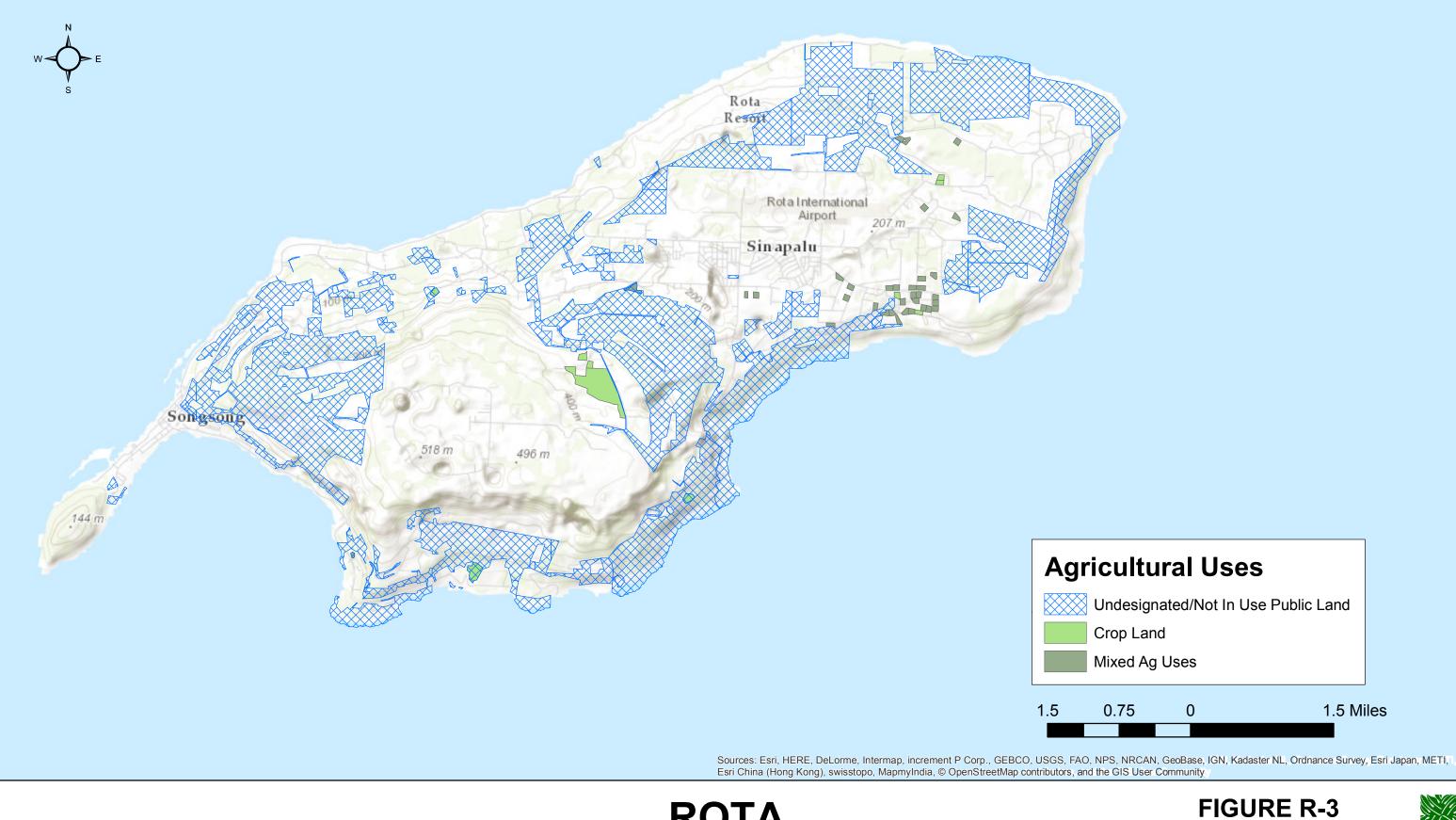
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Public Land Use

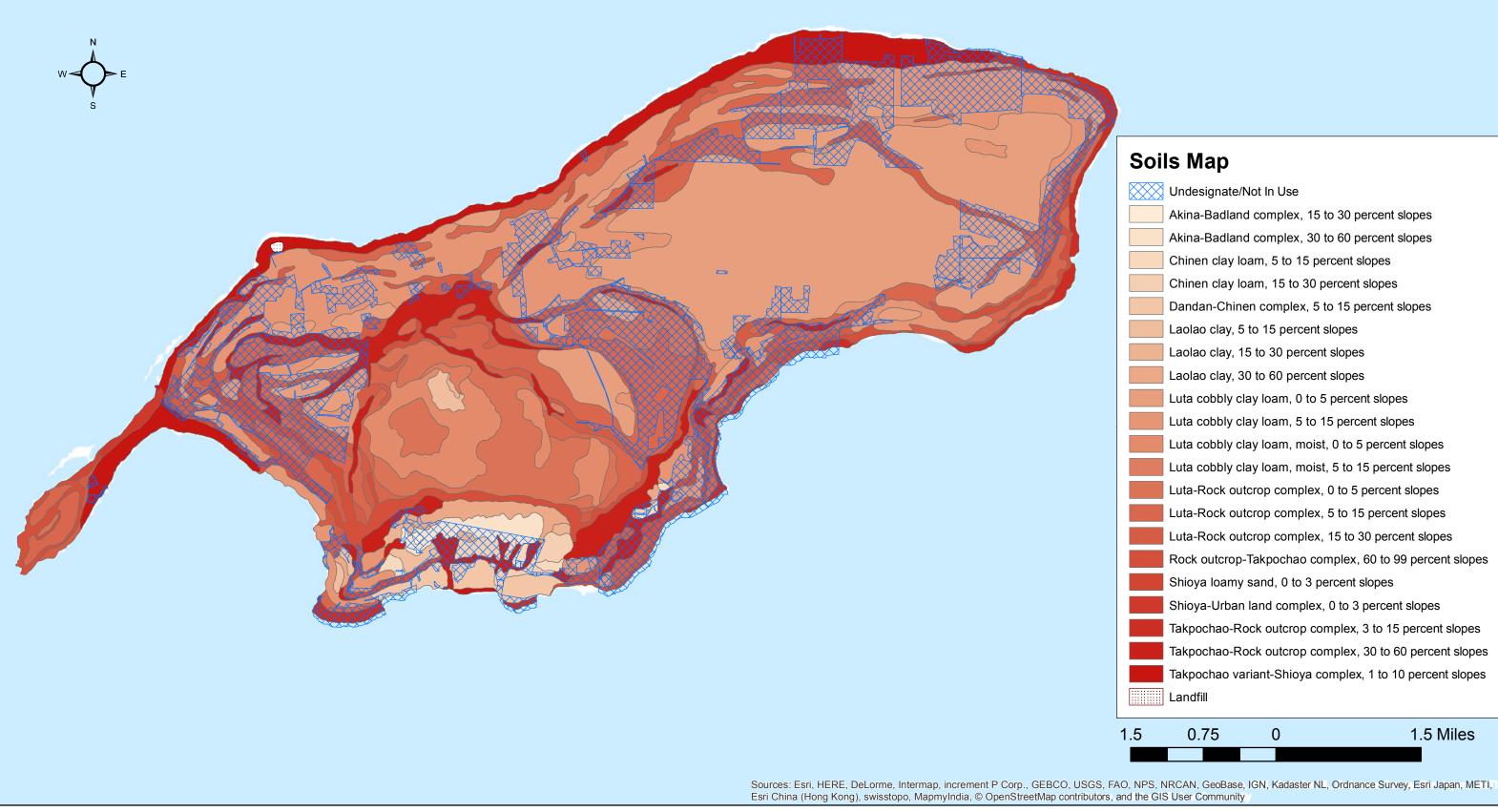








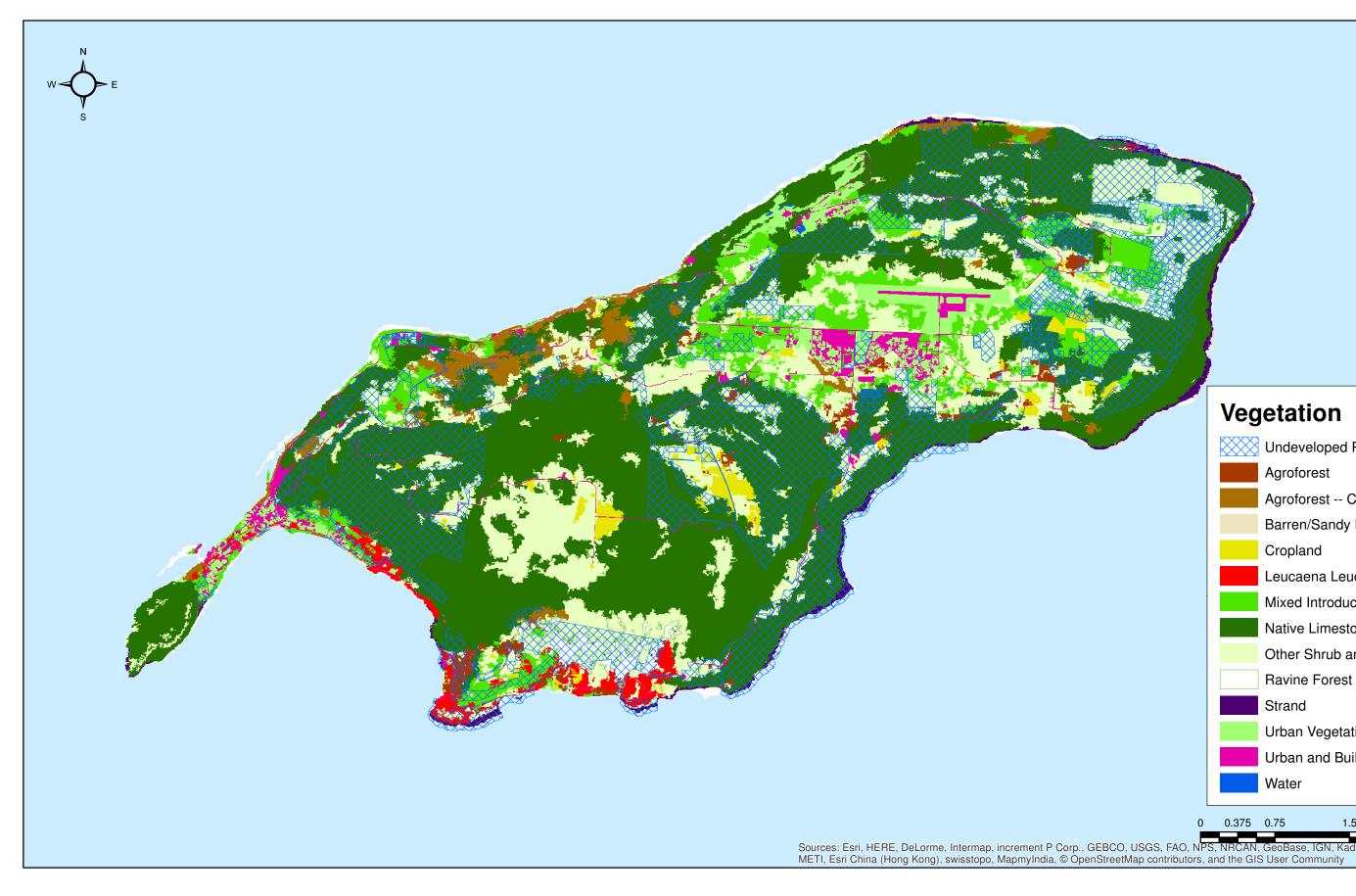




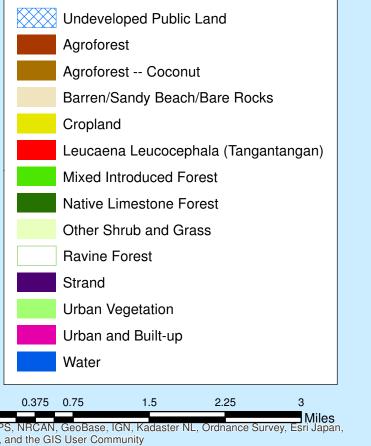
Rock outcrop-Takpochao complex, 60 to 99 percent slopes

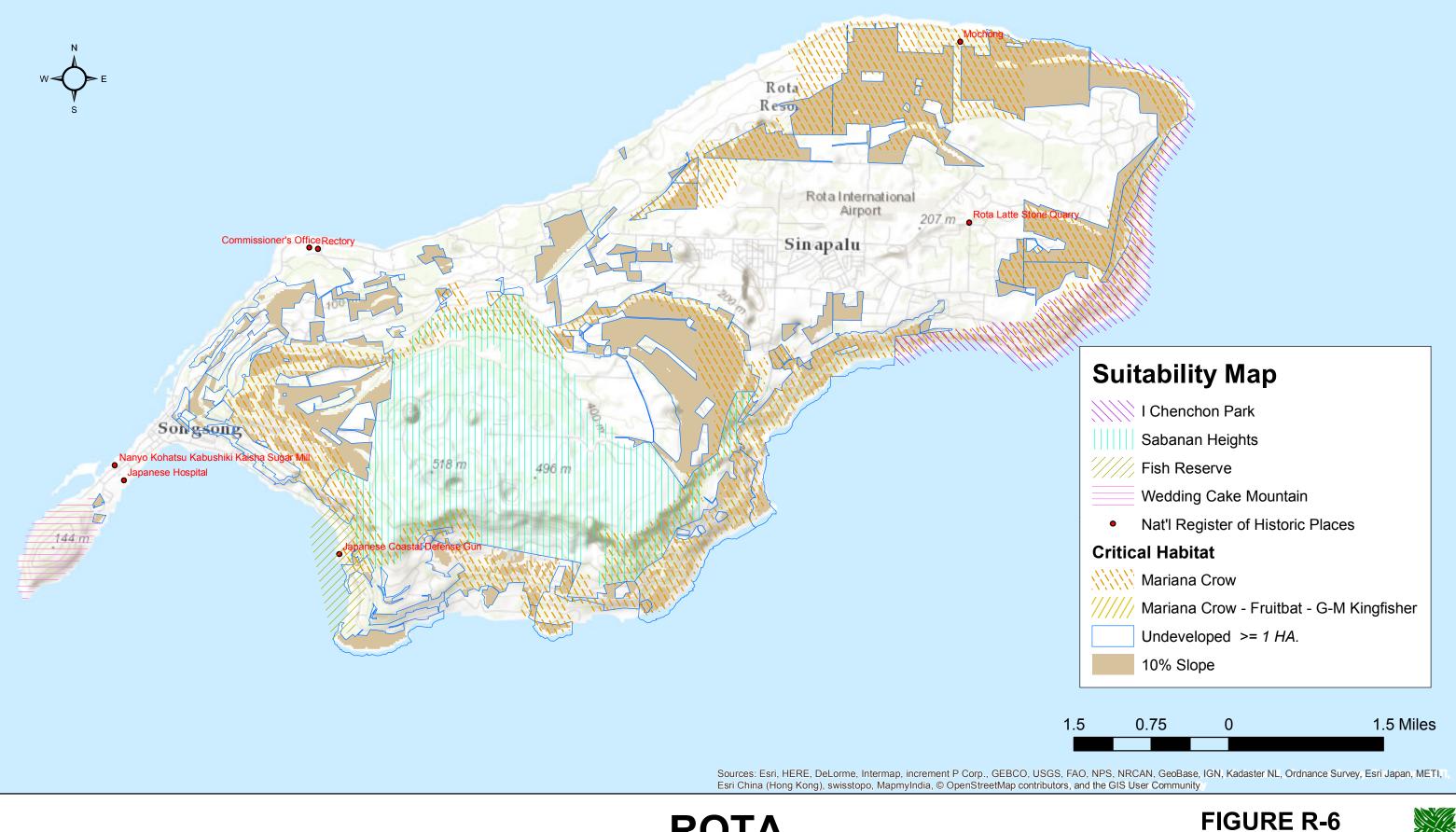
FIGURE R-4



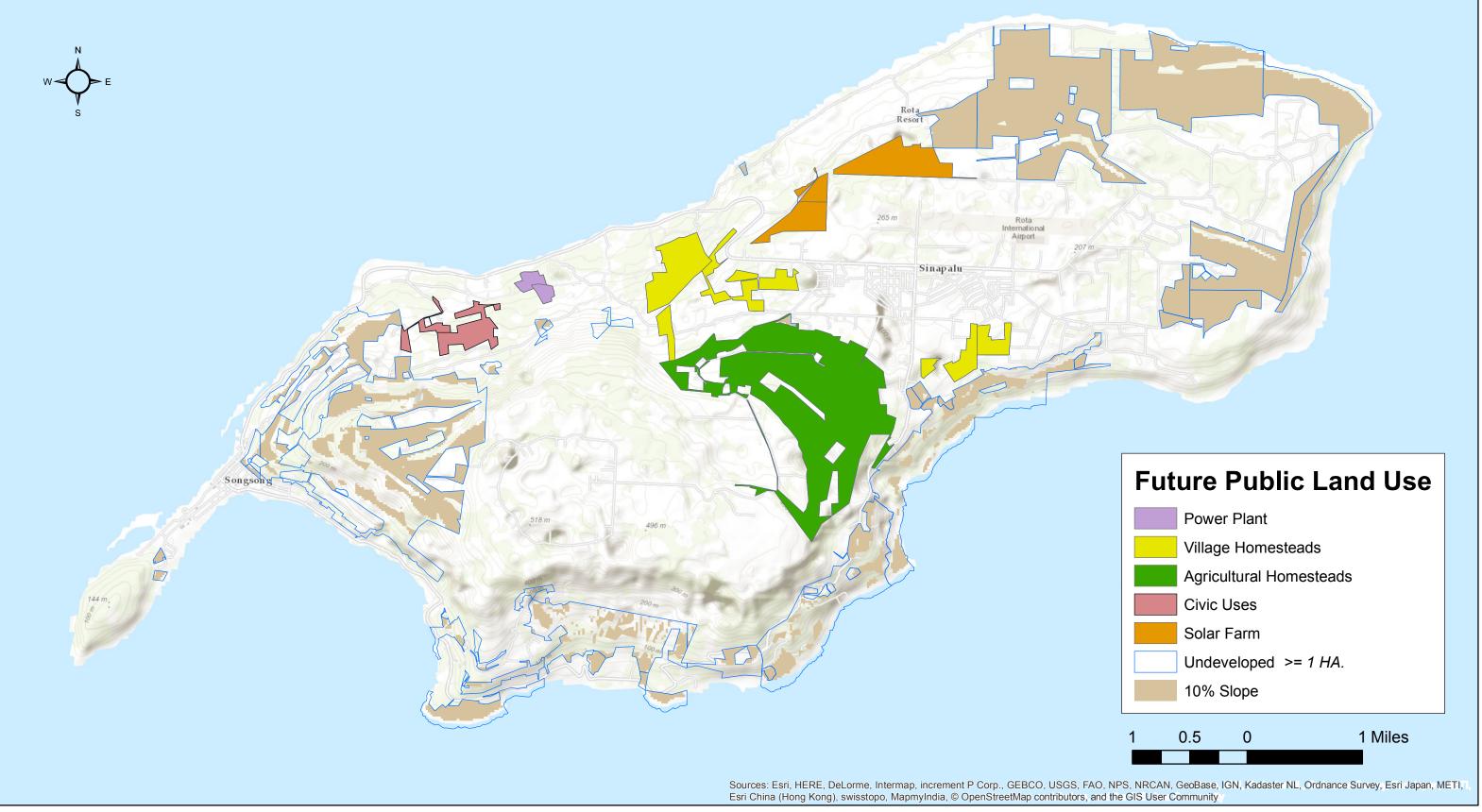


Vegetation



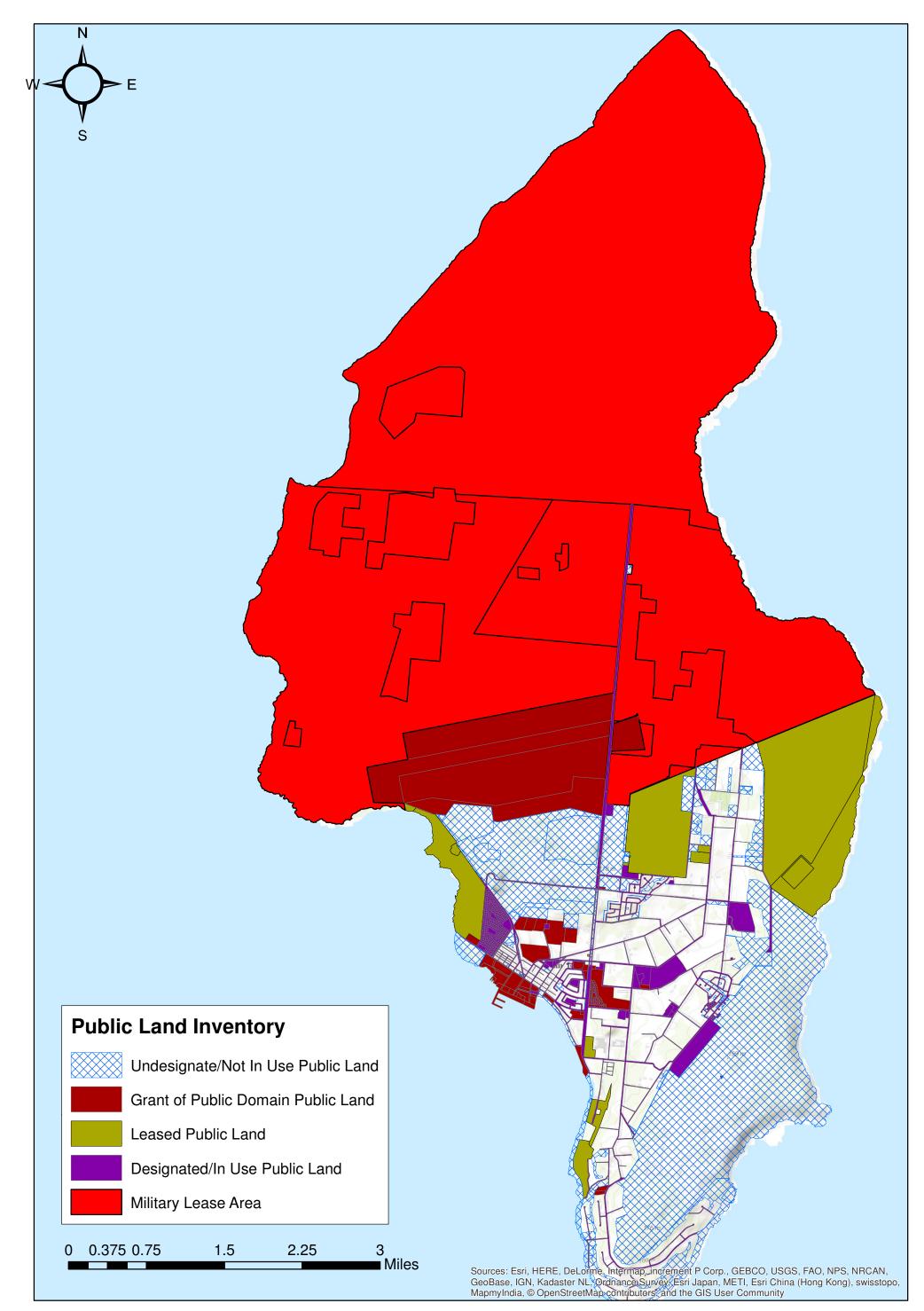








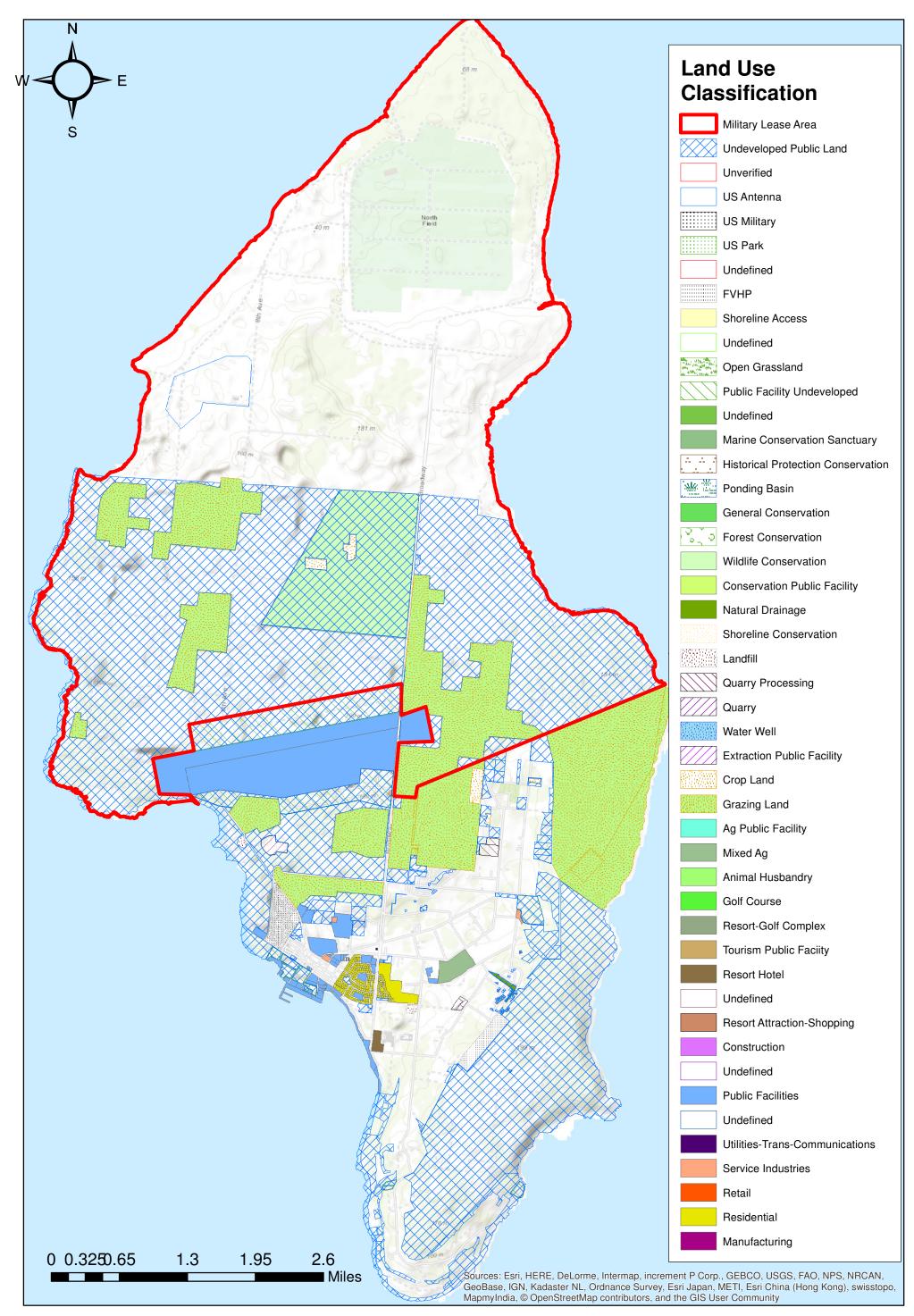




TINIAN

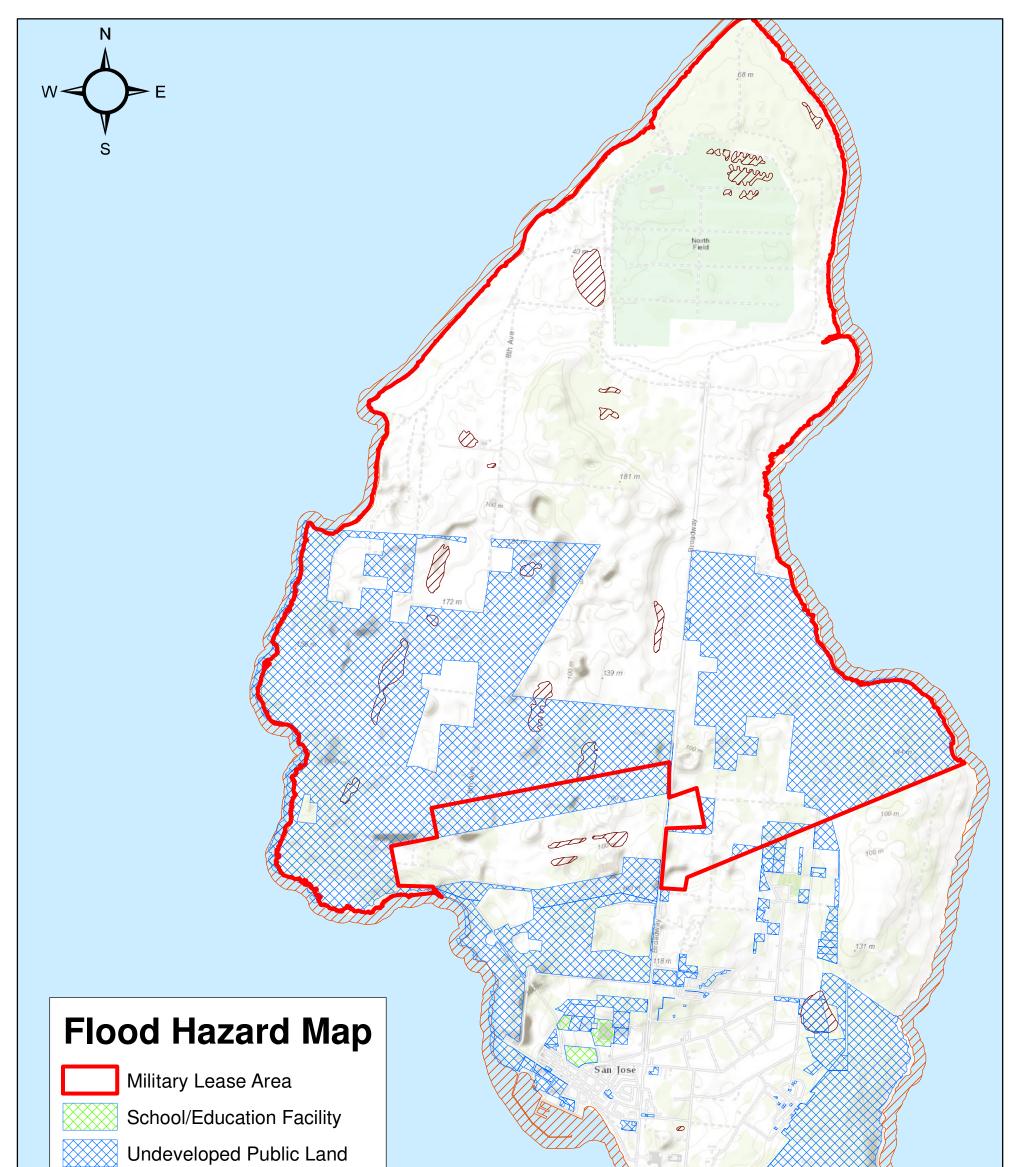


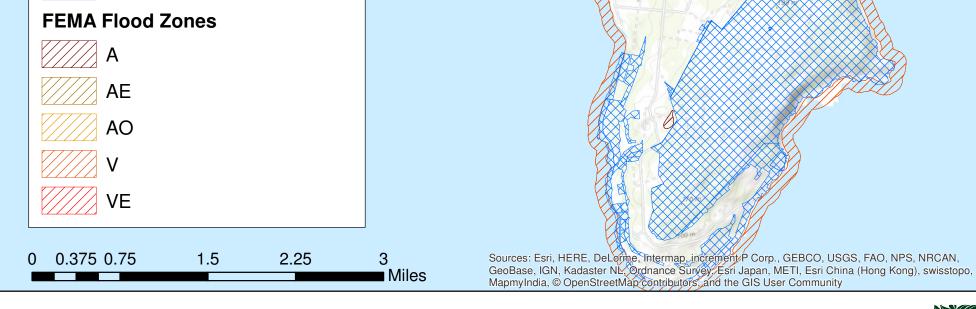
SOURCE: DPL Unifed Parcel Database & Coastal Resources Managment Office



TINIAN



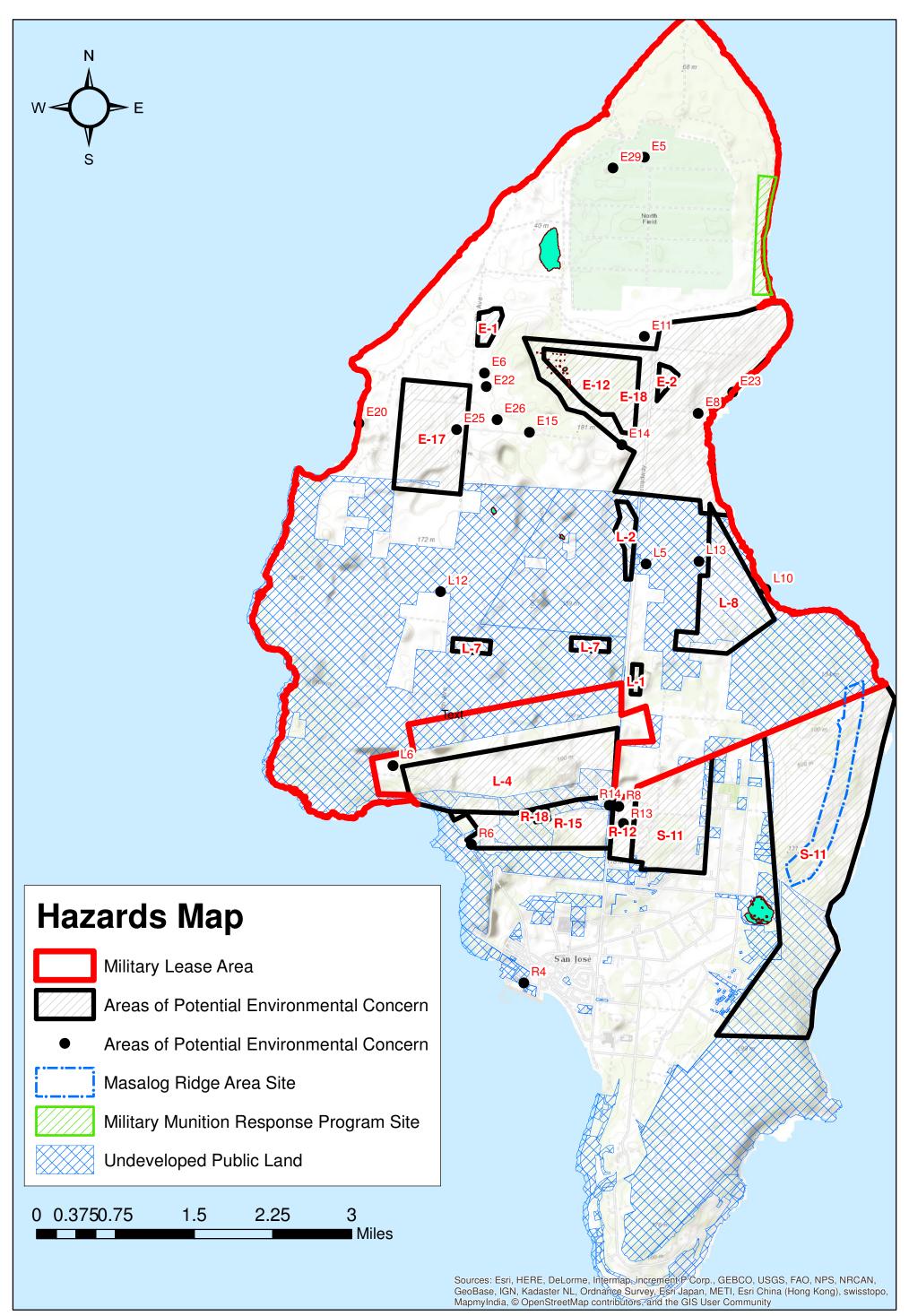








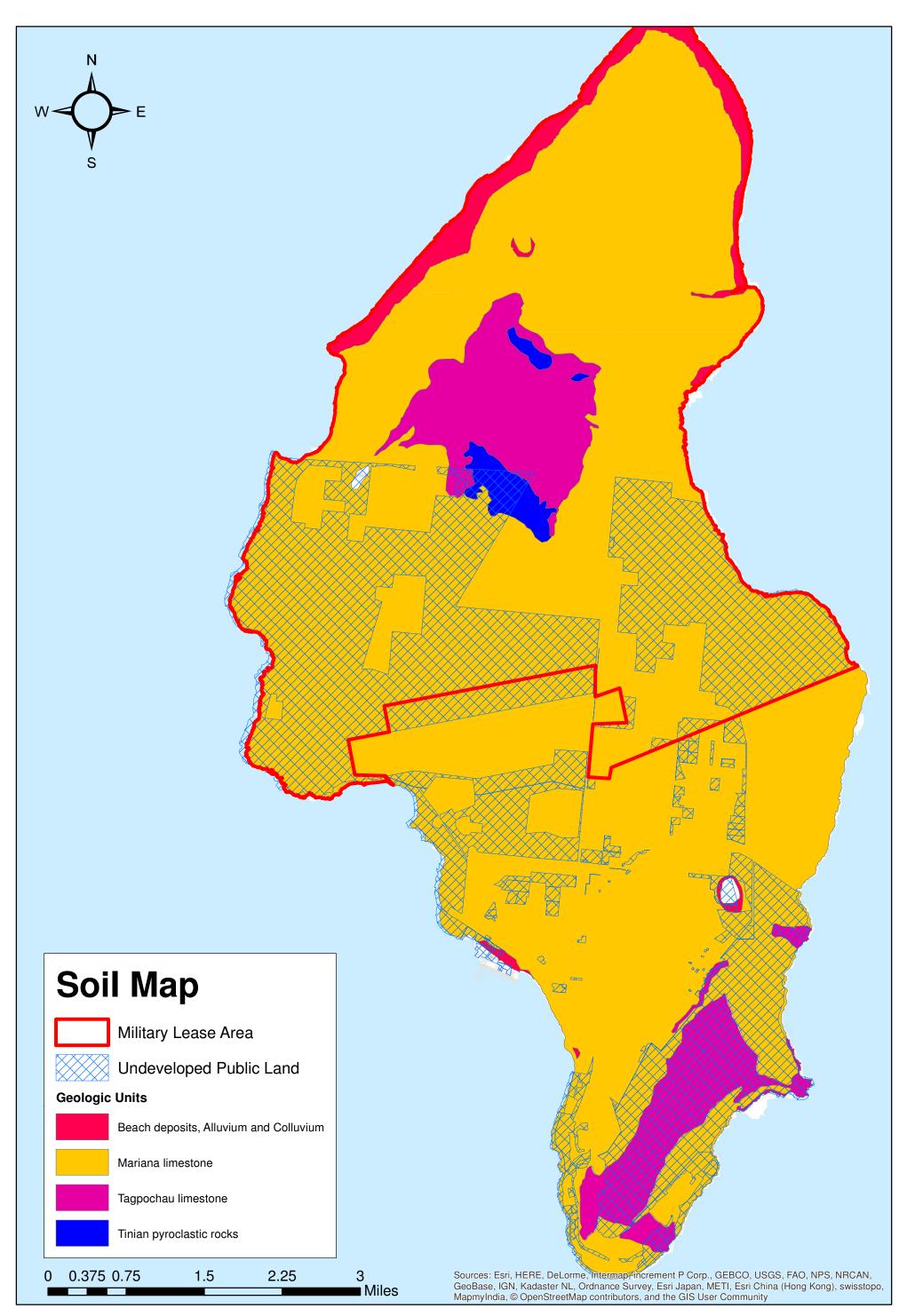
FEMA Flood Insurance Rate Maps (FIRMs) for Saipan, Tinian and Rota. Flood Insurance rate maps are FEMA. Use of these maps is subject to FEMA guidelines.







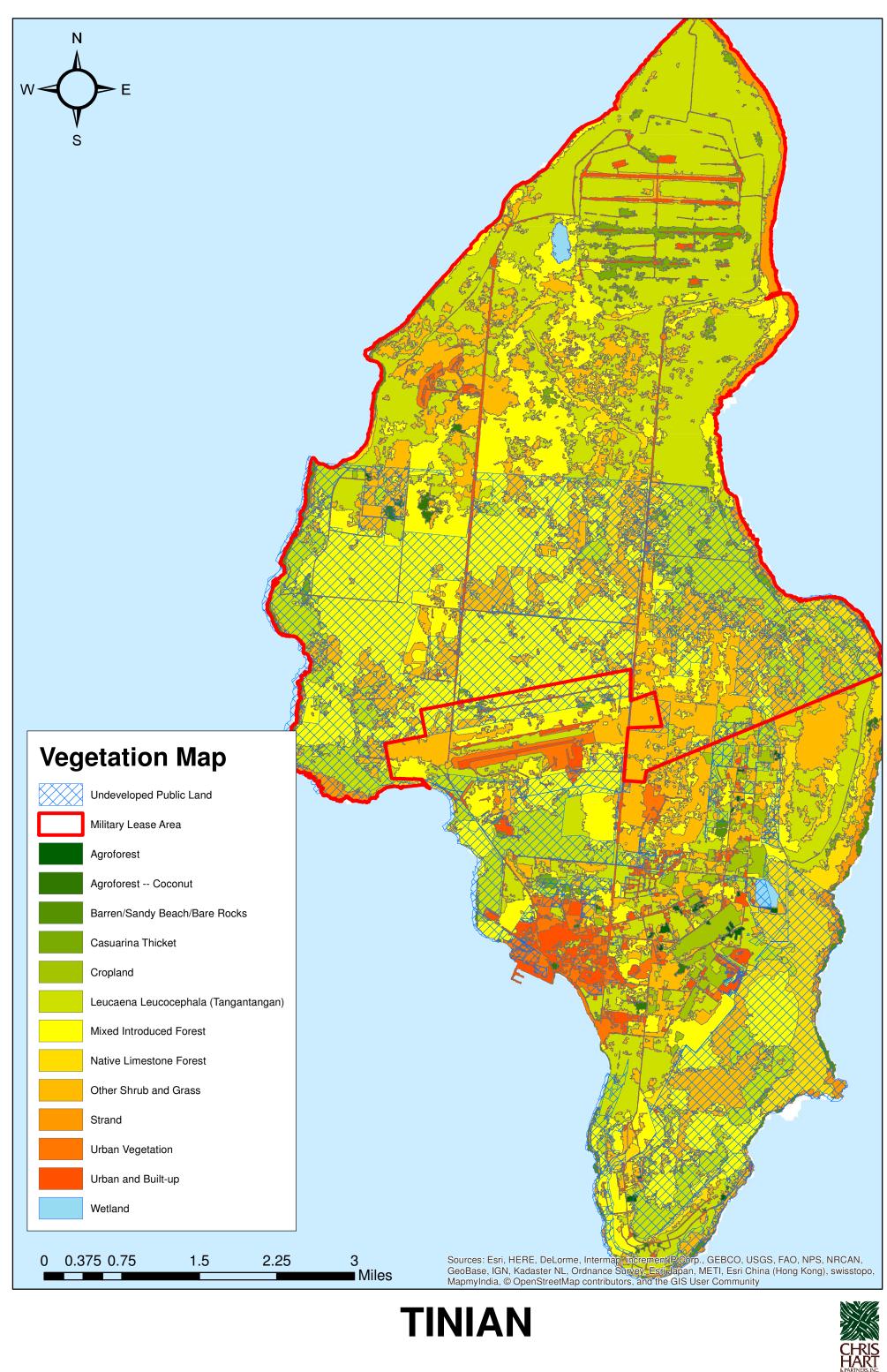
Data based on Figure 3.16-1 Tinian Areas of Potential Environmental Concern and Military Munitions Response Program Sites, CJMT EIS/OEIS April 2015





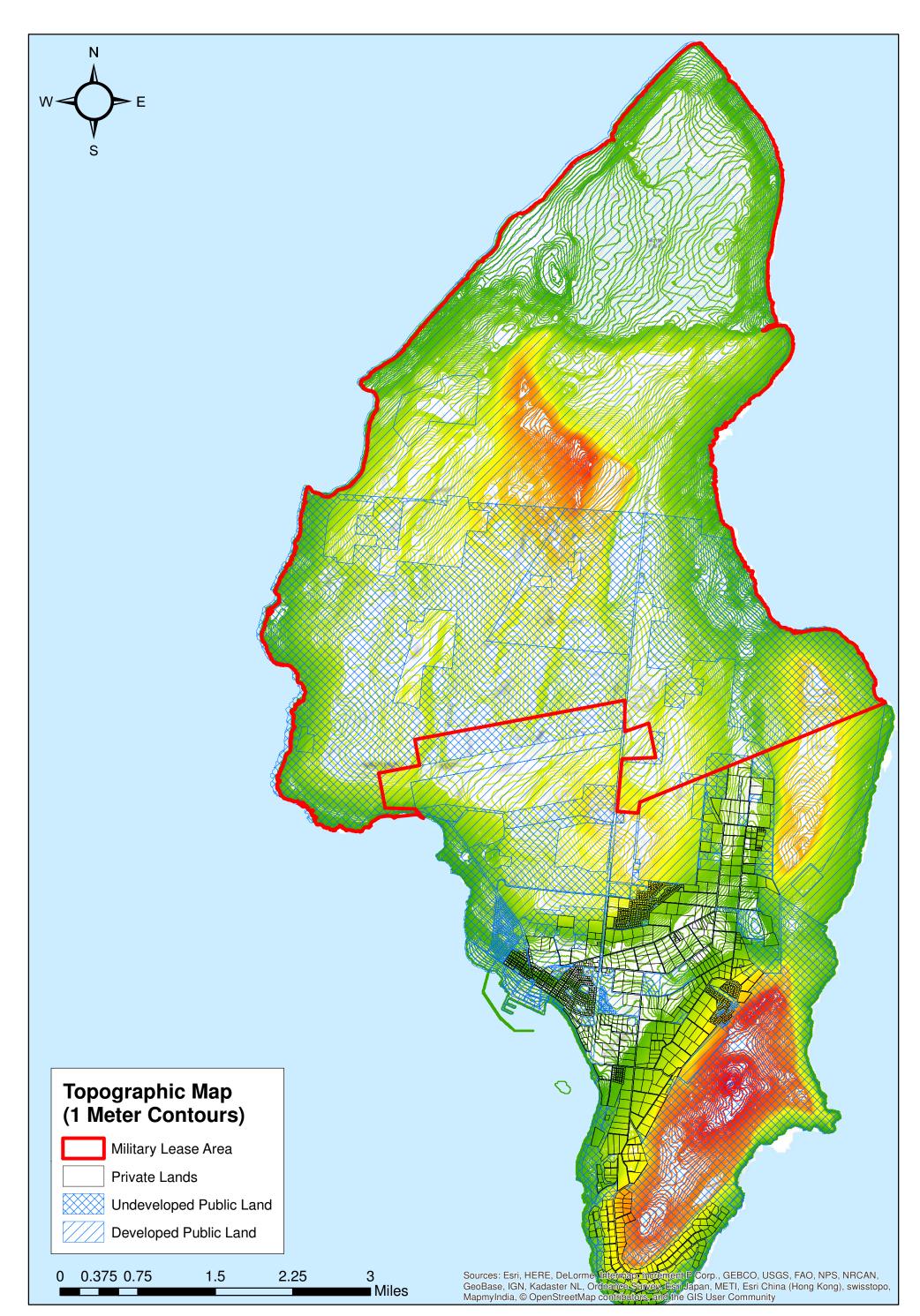


SOURCE: DPL Unifed Parcel Database & Coastal Resources Managment Office & Soil Conservation Service-US Dept. of Agriculture





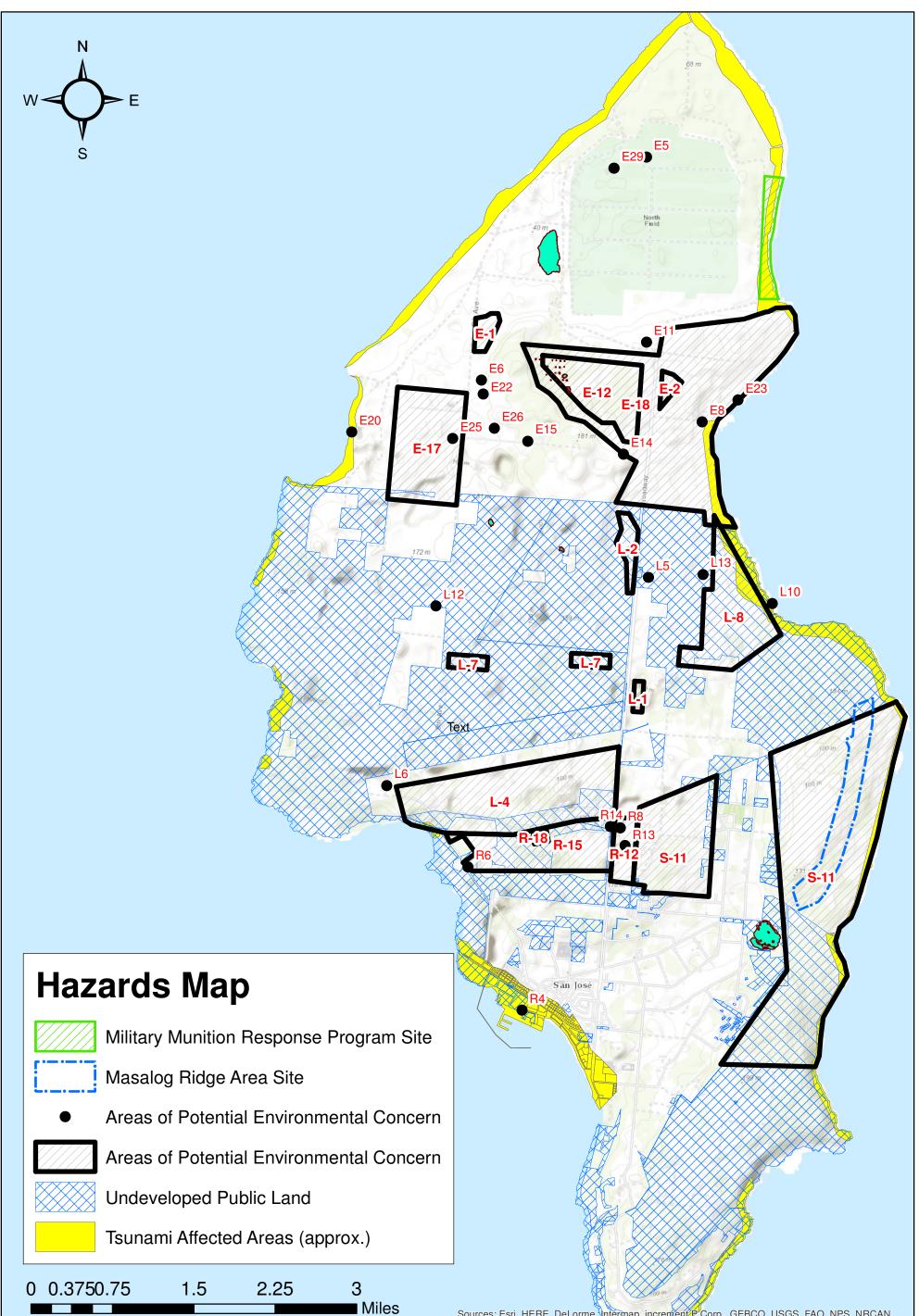
Pacific Island Vegetatoion Mapping and Mornitoring Project by the Pacific Island Imagery Consortium. Derived in 2005 from IKNONOS and Quickbird imagery.



TINIAN



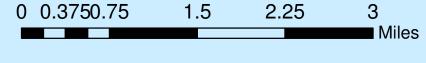
SOURCE: CNMI Bureau of Environmental & Coastal Quality









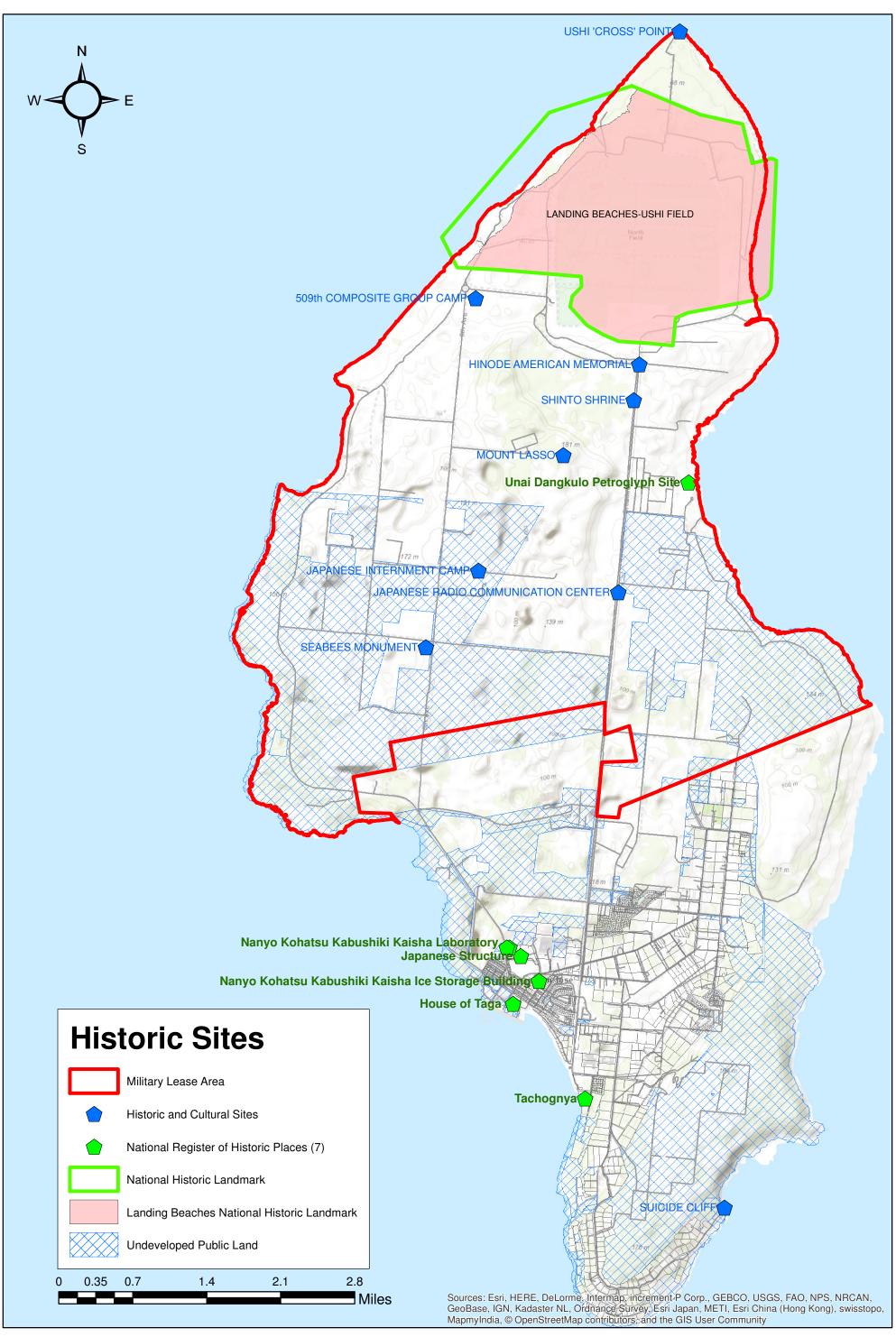


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

TINIAN



Data based on Figure 3.16-1 Tinian Areas of Potential Environmental Concern and Military Munitions Response Program Sites, CJMT EIS/OEIS April 2015 Tsunami inormation interpolated from fig. 4.5 - NOAA OAR Special Report- Tsunami Hazard Assessment Special Series VIo.3 2013



TINIAN



SOURCE: CJMT EIS/OEIS April 2015 & DPL Unifed Parcel Database & Coastal Resources Managment Office

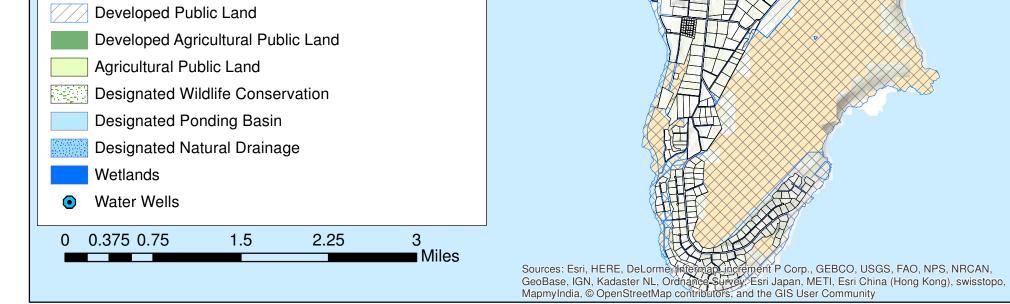
Public Land Suitability Map

Military Lease Area

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W

Undeveloped Public Land Undeveloped Public Land *Areas>1 Ha. & Slope<10%* Developed Public Land



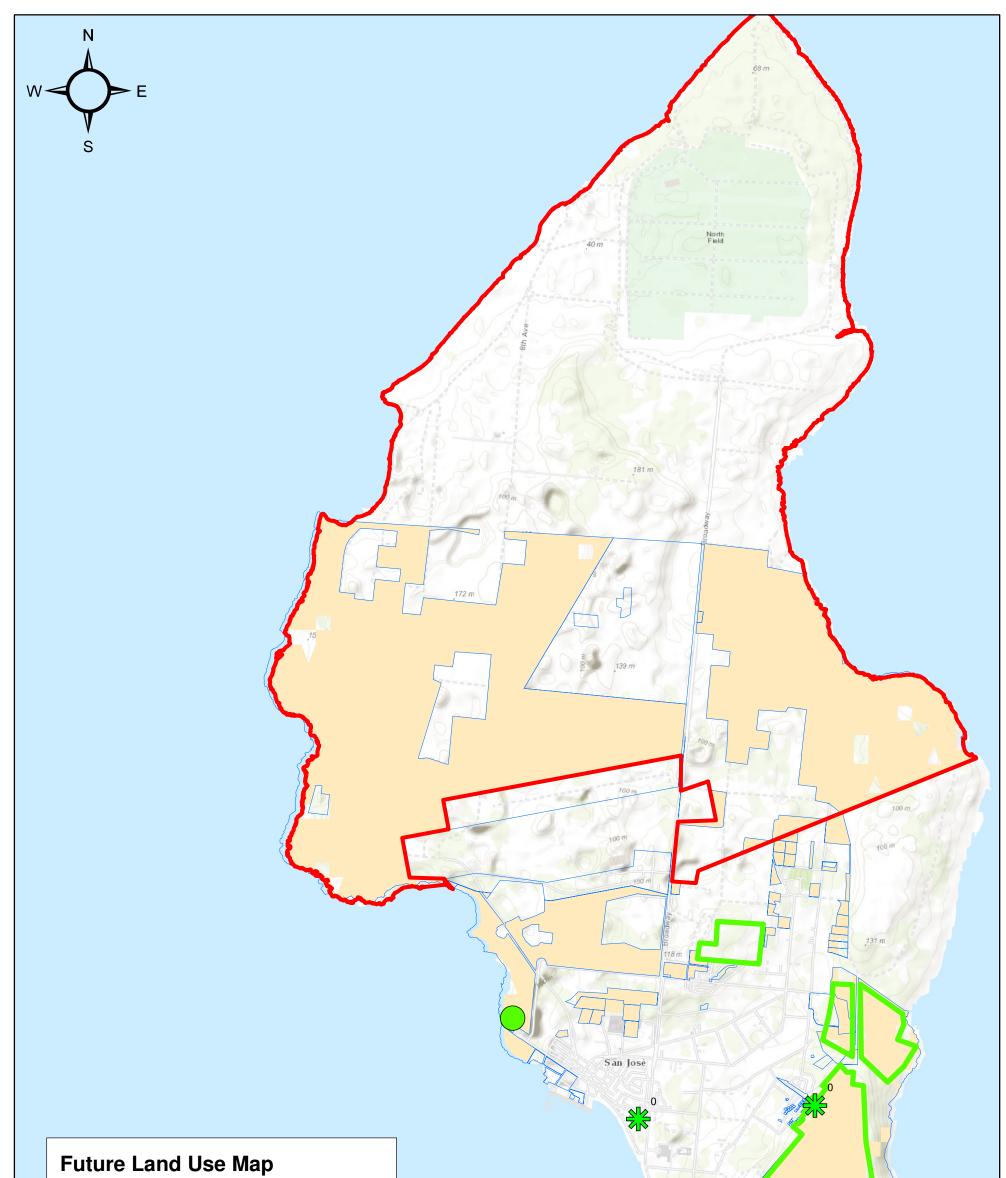


North

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Future Wastewater Facility

Municipal Civic Center (Proposed)

Military Lease Area

Undeveloped Public Land >1 Hectare

Undeveloped Public Land <10 % Slope

Village & Agricultural Homesteads (627 Ha.)

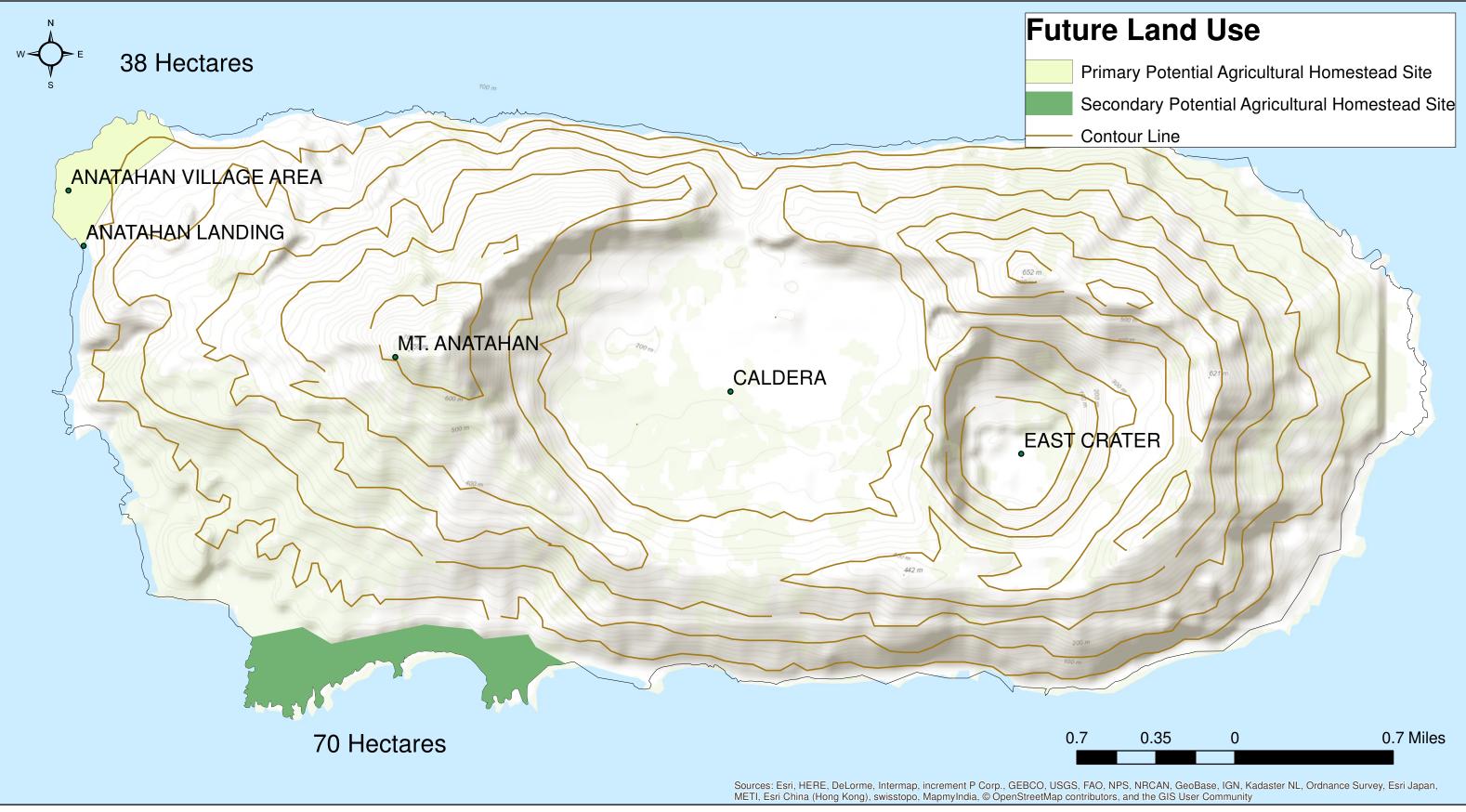


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

TINIAN

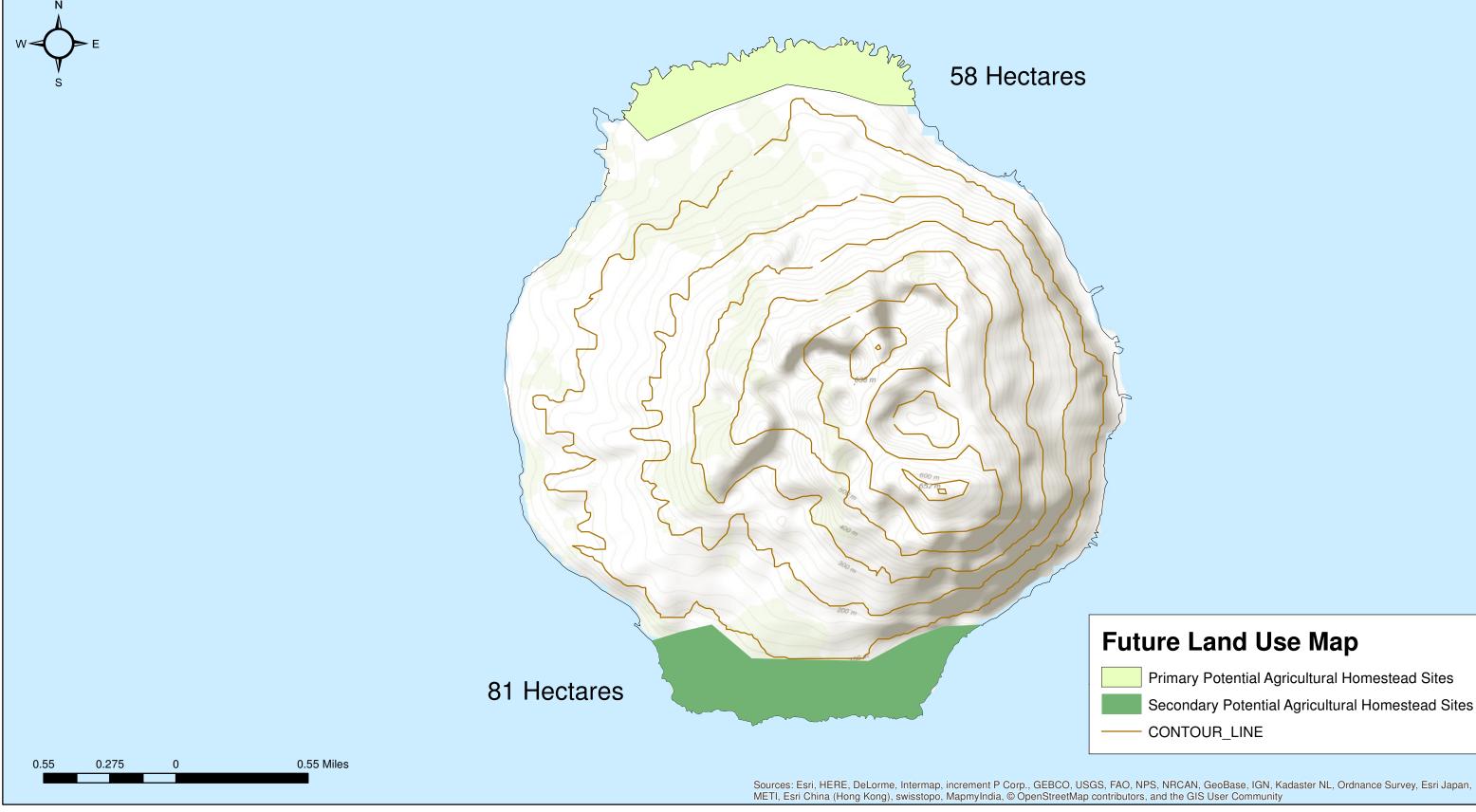


SOURCE: DPL Unifed Parcel Database & Coastal Resources Managment Office



ANATAHAN





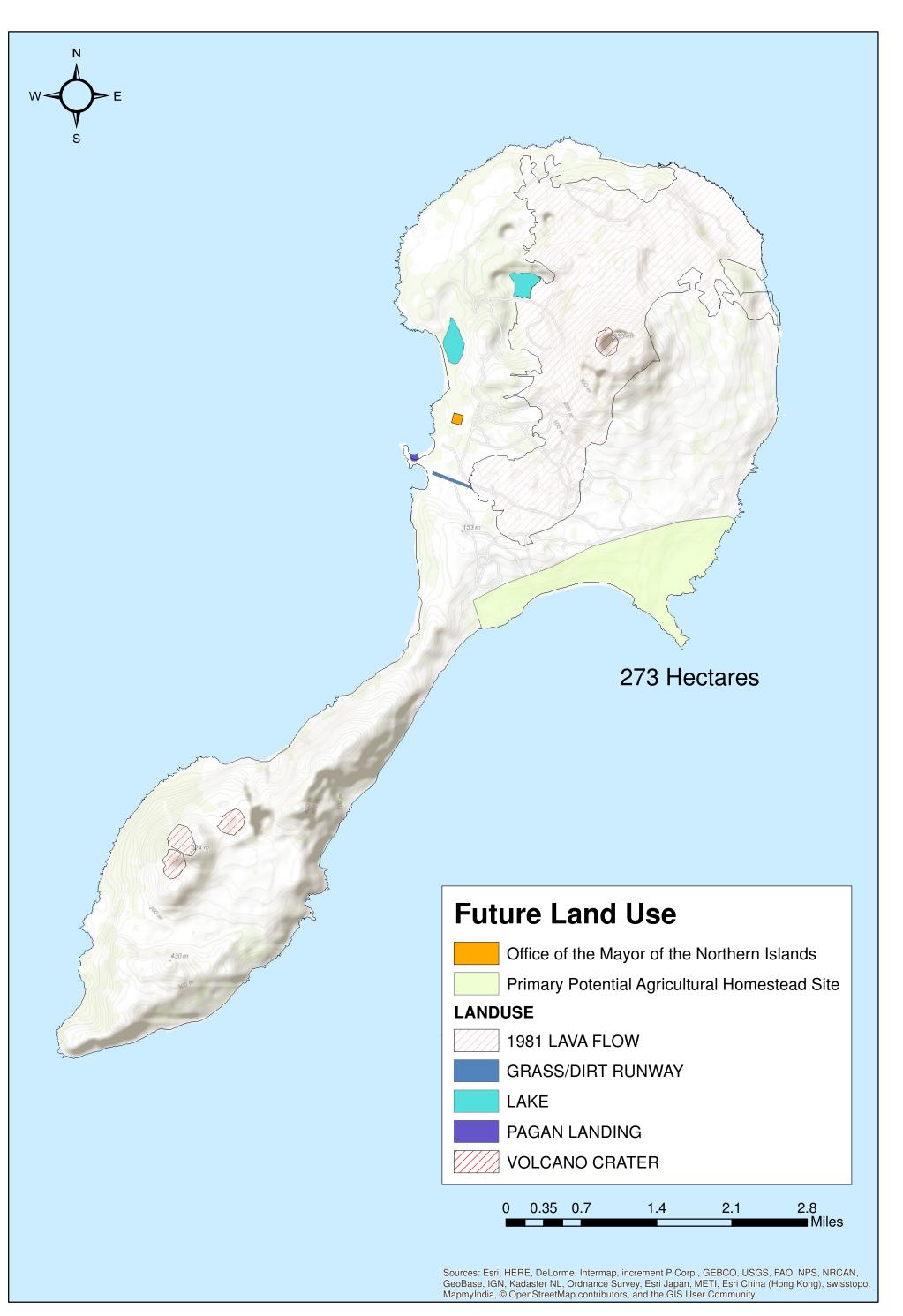
ALAMAGAN



Future Land Use Map

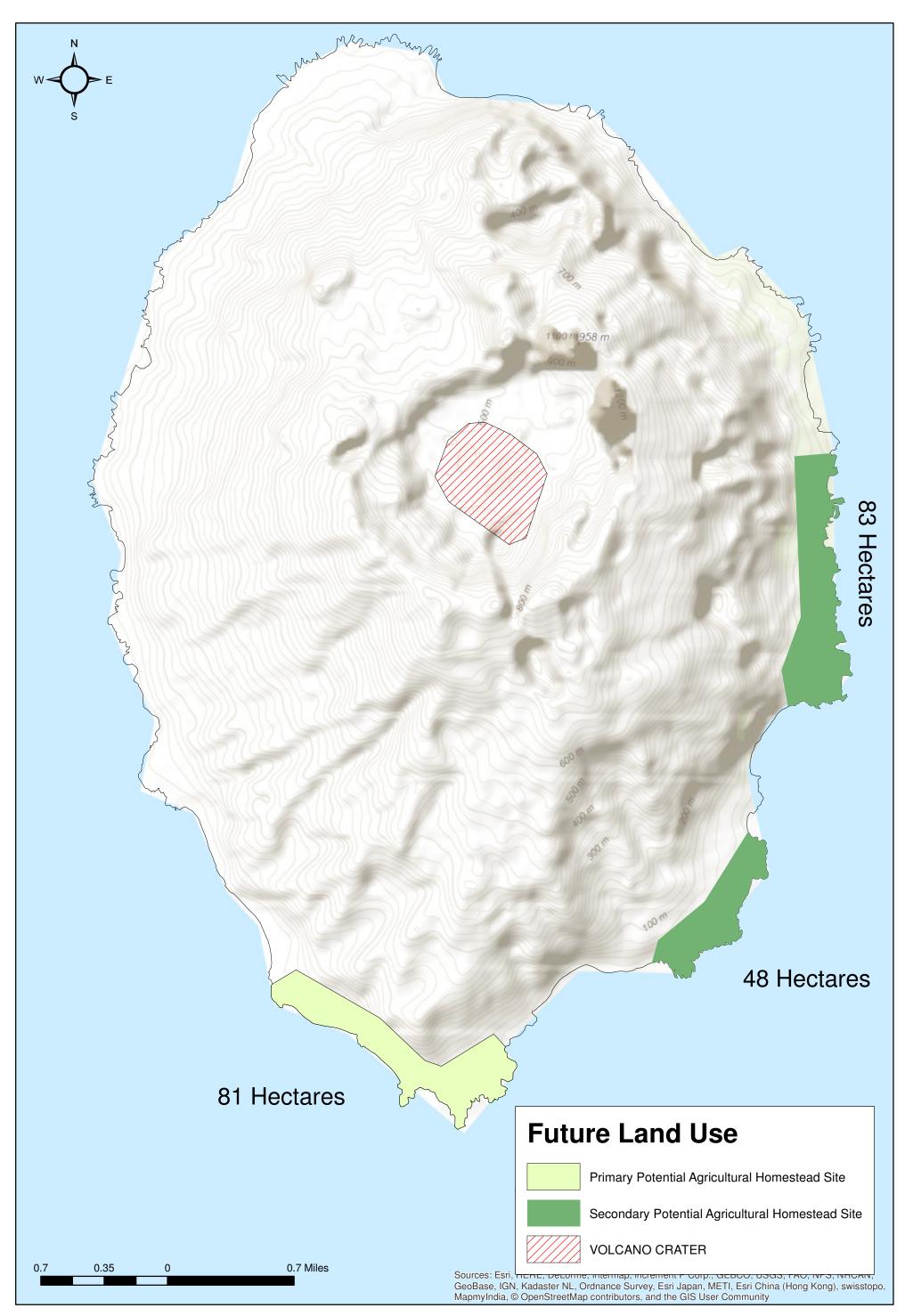
Primary Potential Agricultural Homestead Sites Secondary Potential Agricultural Homestead Sites CONTOUR_LINE





PAGAN





AGRIHAN



Collaborative Team Mapping



- > We are requesting your hands-on participation:
 - Please separate into two equal numbered Collaborative Teams
 - > We will be marking the maps with your Collaborative Team's proposed locations for:
 - Village Homestead
 - Agricultural Homestead
 - > Natural Resources: Springs, Groundwater, Quarries, Habitat, Wetlands
 - Historic & Cultural Resources: Important Sites or Areas
 - Community Use: Prime Recreation Areas, Shoreline Access, Scenic Resources, Community Centers
 - Community Facilities: Schools, Hospitals, Transportation Corridors or other needs
 - Land Exchange: Areas where Exchange awards should occur
 - Hazardous Materials: Contaminated Sites
 - > Lease for Economic Development: Commercial, Industrial, Resort, Recreation, Eco-Tourism
 - Possible Free Trade Zones



Department of Public

June 15, 2018

Please contribute your input

- At Public Hearings
 - In Oral Statements
 - In Written Comments (Forms)
 - Stakeholder forms available from http://www.dpl.gov.mp/land-use-plan-resources/
- Via Email to SSFM CNMI, LLC
 - rreyes@pegsmp.com

