







Bureau of Laboratories

Government Public Health and Private Environmental Laboratory Partnerships

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Emergency Response in Puerto Rico Post Hurricane Maria Environmental and Public Health Laboratory Assessments

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Overview

- Mission
- Team/Partners
- Emergency Response Preparation
- Evaluating Essential Laboratory Testing Services
- Impacts on Laboratory Testing Service
- Challenges and Lessons Learned



Engaging Partners and Information Sharing

- Write report using APHL assessment template for findings and recommendations (e.g. CLIA and DW compliance, COOP etc) for each of the facilities visited (4 total).
- 5 days onsite using APHL assessment tool to evaluate four facilities (one central and three regional) to determine physical fitness (power, electricity, equipment etc) and technical capacity & capability.



Partners

- CDC requested APHL assess Main PHL and 3 regional PHLs
- US EPA Assessment Follow Up including private lab status
- US Army Corp of Engineers
- PR DOH Liaison to EOC



Emergency Response Preparation

- Preparations teleconferences
- Medications
- 30% DEET
- Water and Protein Bars
- Clothing Flashlights
- Candles





EOC









Evaluating Laboratory Services





Write report using APHL assessment template to share drinking water compliance with partners



Comprehensive Assessment Tool

- Organizational Structure/Contacts
- Funding Sources
- Quality System Regulations
- Physical Fitness of Lab Facilities (space, equipment, reagents, safety
- Collection and transport of samples
- Testing Services
- Partnerships and Communication









Day 2

- Regional Laboratory Visits 2 of 3 regional labs were visited due to time constraints.
- Travel was difficult due to stop lights not functioning. Both laboratories perform environmental testing for drinking water and milk testing.
- Arecibo Hygiene Laboratory
- Mayaguez Hygiene Laboraotory



October 25, 2017

- Arecibo Hygiene Laboratory
- US EPA and Army Corp of Engineers had completed air quality assessment.
 FEMA delivered and installed a generator to power the laboratory.
- Minimal infrastructure damage
- The Arecibo Lab was the only public service lab capable of testing drinking water.

"We are the lucky ones."





PRIVATE LABORATORIES	ASSESSMENT STATUS:	Power Status	Comments
Beckton Env. Lab Ponce	Micro/Chem HAA5, TTHM, EDB, DBCP, some metals, alkalinity, nitrate, nitrite, fluoride, cyanide, TDS, total coliforms, E.coli, HPC	Line Power Instruments Operational	Currently Functioning No Internet Capability; not currently DW certified for HAAs and TTHMs
EQ Laboratories Bayamon, PR	All DW parameters except: asbestos, dioxin, PCBs, Cryptosporidium and Radionuclides	Powered with generator Instruments Operational	Currently functiong, running all PRASA samples for DW compliance (micro/inorganics/metals/organics); have 70 analysts and willing to add 2nd & 3rd shifts; expect line power week of 10/23
ACUALAB Humacao, PR	Total Coliforms, E. coli, HPC	Powered with generator Instruments Operational	
ALCHEM Ponce, PR	Total Coliforms, E. coli, HPC	Powered with generator Instruments Operational	·
North Coast Superaqueduct Project Operated by CH2MHill	Total Coliforms, E. coli, HPC	Powered with generator Instruments Operational	(lirrently tunctioning
Laboratorio Analitico, Inc. Ponce, PR	7 Total Coliforms, E. coli, HPC	Line Power + backup generator Instruments Operational Need supplies and reagents	No land-line for phone, but have cell service & internet access
			DEPARTMENT OF ENVIRONMENTAL PROTECTION

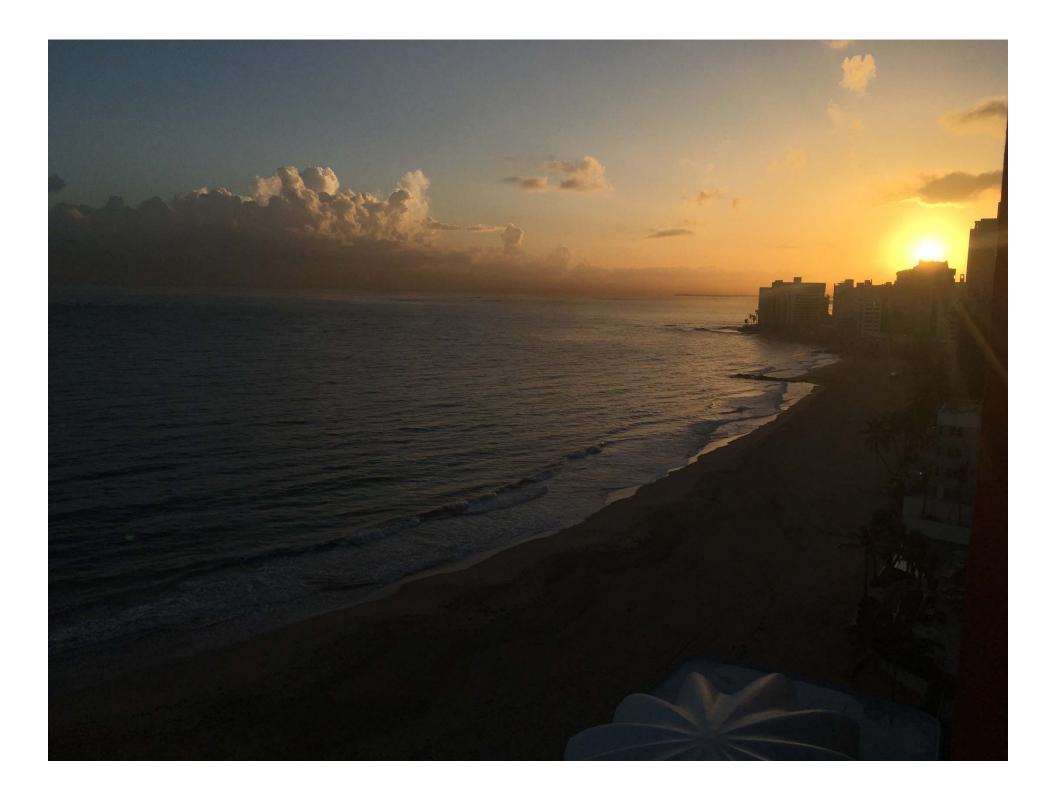
Challenges and Lessons Learned

- Communications
- Travel
- Coordination
- Funding Approval
- COOP
- Partnerships

















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