



NAVFAC EURAFSWA E2S2 Conference

May 2011



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Kingdom of Bahrain

NSA Bahrain ...

The Tip of The Spear

- Bahrain: Two Seas
- Smallest Country and the Only Island-state in the Gulf
- 36 Islands/3 Inhabited
- Area: 620 KM2 (385 M2)
- 3.5 Times the Size of DC
- Population: 1.05 Million





Environmental Program



- Kingdom of Bahrain

- NSA Bahrain
- AV Unit
- ISA Air Base
- Riffa Site
- Mina Salman
- Khalifa Bin Salman Port

Breaking Through Operational Barriers ...

Taking Actions & Delivering Results

- United Arab Emirates

- Port of Jebel Ali (Quay 9)
- Port of Fujairah

- Republic of Djibouti

- Camp Lemonnier
- Port of Djibouti

- COMFIFTHFLT Area of Responsibility (AOR)





Introduction



- **Challenges to Environmental Management at Joint Navy Installations Illustrated through discussion of:**
 - **Camp Lemonnier Djibouti, and**
 - **ISA Air Force Base, Bahrain**



Camp Lemonnier, Djibouti



- **First Operated by French Foreign Legion**
 - Developed by the French in the 1970's
- **USMC Assumes Control from French**
 - 2002
 - Developed Camp for increased strength/operation
- **Operation Control Transferred to the USN**
 - July 2006
 - Expeditionary Camp





Environmental Management Challenges



- **Establish a Baseline and Improve**
- **Prioritize Tasks for:**
 - **Air**
 - **POL**
 - **Pollution Prevention**
 - **Recycling**
 - **Water**
 - **Waste**
 - **Liquid**
 - **Solid**
 - **Hazardous**



Challenges

Camp Lemonnier, Djibouti



- **Location is Remote and Isolated**
- **Perform Mission – Control Environmental Footprint**
- **High Rate of Personnel Turnover**
 - **Continual Training and Education**
- **Lack of Local Resources**
- **Manpower**



Challenges

Camp Lemonnier, Djibouti



- **Cultural Differences**

- Djiboutian reality illustrates survival is more important than protecting the environment
- Common land fill/dump, attracts people looking for food, clothing, shelter
 - Promotes disease
- Camp Lemonnier downwind from landfill
 - Air quality issues
 - Requires sampling and monitoring
 - Establish Air Quality Alert System



Challenges

Camp Lemonnier, Djibouti



- **Host Nation Resources**
 - Poor country with no natural resources.
 - No substantial environmental laws
- **Best Management Practices**
 - Move landfill or monitor / incinerate waste
 - Cost to Implement BMP versus
 - Compliance with Navy Policy /
 - Host Nation Laws / US Laws & Regulations / OEBGD / FGS
- **Goal – Leave site and community in better shape than when we arrived**





Comparison with CLDJ



ISA Air Force Base, Bahrain

- **USN conducts baseline survey**
- **USN accepts responsibility for environmental management from Bahrain Defense Force**
- **Challenges to Environmental Management at ISA are almost the same**



Success Depends



- **Success Depends on:**
 - Outreach and Education
 - Commitment to Host Nation
 - Environmental Stewardship / Set Example
 - Building Trust and Creating Opportunities for Local Nationals and Businesses





CNREURAFSWA DET Bahrain

NOSC AOR



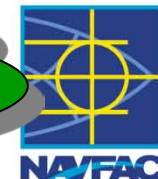


ONE TEAM ... ONE ENVIRONMENT





Reaching New Heights of Excellence



Award	99	00	01	02	03	04	05	06	07	08	09	10
WHITE HOUSE	X							X				
W HOUSE (HON)				X	X				X			
COMM SERV / STEWARDSHIP								X				
SECDEF (INST)					X							
SECDEF (IND)	X										X	
SECDEF (HON)										X		
SECNAV (INST)					X					X		X
SECNAV (IND)	X										X	
SECNAV (HON)		X										
CNO (INST)			X		X	X		X	X	X	X	X
CNO (IND)	X	X						X		X	X	



Welcome to
NSA Bahrain

